

**BEFORE THE HON'BLE CENTRAL ELECTRICITY
REGULATORY COMMISSION, NEW DELHI**

Petition No. _____/2025

Diary No. _____

In the matter of:

Petition for true up of capital cost & generation tariff for 2019-24 tariff period under Regulation 13 of the CERC (Terms and Conditions of Tariff) Regulations, 2019 AND determination of generation tariff for 2024-29 tariff period under Regulation 9(2) of the CERC (Terms and Conditions of Tariff) Regulations, 2024, in respect of Karcham Wangtoo Hydro Electric Project (KW HEP)

And

In the matter of:

JSW Hydro Energy Limited

Sholtu Colony, P.O. Tapri

District Kinnaur 172104

Himachal Pradesh

...Petitioner

Versus

PTC India Limited

NBCC Tower,

15 Bhikaji Cama Place,

New Delhi -66

...Respondent & Others

VOLUME I

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REGULATORY COMMISSION, NEW DELHI**

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And

In the matter of:

JSW Hydro Energy Limited
Sholtu Colony, P.O. Tapri
District Kinnaur 172104
Himachal Pradesh

...Petitioner

Versus

1. PTC India Limited
2nd Floor, NBCC Tower,
15 Bhikaji Cama Place,
New Delhi - 110066
- 

2. Haryana Power Generation Corporation Limited,
Through its CMD,
Plot No. C-7, Sector - 6, Panchkula
Haryana -134109

3. Uttar Pradesh Power Corporation Limited,
Through its CMD
Shakti Bhawan,14, Ashok Marg, Lucknow
Uttar Pradesh - 226 001

4. Jaipur Vidyut Vitran Nigam Limited,
Through its CMD,
Vidyut Bhawan, Janpath, Jaipur
Rajasthan – 302005,

5. Ajmer Vidyut Vitran Nigam Limited,
Through its CMD
Vidyut Bhawan,
Panchsheel Nagar, Makarwali Road, Ajmer
Rajasthan - 305004

6. Jodhpur Vidyut Vitran Nigam Limited,
Through its CMD
New Power House, Industrial Area, Jodhpur
Rajasthan -342003



7. Punjab State Power Corporation Limited,
Through its CMD
The Mall, Old PSEB Building, Patiala
Punjab -147 001

8. The State of Himachal Pradesh
Through Principal Secretary (MPP & Power),
Government of Himachal Pradesh,
Shimla- 171002, H.P

9. HPSEB Ltd.
Vidyut Bhawan, Shimla – 171004

...Respondents



**PETITION FOR TRUE UP OF CAPITAL COST & GENERATION
TARIFF FOR 2019-24 TARIFF PERIOD UNDER REGULATION 13
OF THE CERC (TERMS AND CONDITIONS OF TARIFF)
REGULATIONS, 2019 AND DETERMINATION OF GENERATION
TARIFF FOR 2024-29 TARIFF PERIOD UNDER REGULATION
9(2) OF THE CERC (TERMS AND CONDITIONS OF TARIFF)
REGULATIONS, 2024, IN RESPECT OF KARCHAM WANGTOO
HYDRO ELECTRIC PROJECT (KW HEP)**

MOST RESPECTFULLY SHOWETH:

1. That the Petitioner, JSW Hydro Energy Limited is a company incorporated under the Companies Act, 1956. The Petitioner is a generating company as defined in Section 2(28) of the Electricity Act, 2003. The Petitioner owns, operates and maintains Karcham Wangtoo HEP, a run of the river power station with pondage, in the district of Kinnaur in the State of Himachal Pradesh.
2. That petition no. 434/GT/2014 was filed for approval of generation tariff of KWHEP for 2014-19 Control period, under Section 62 read with Section 79(1)(b) of the Electricity Act, 2003. The Hon'ble Commission has disposed-off the petition No. 434/GT/2014 on 30.03.2017.
3. That petition no. 391/GT/2019 was filed for true up of generation tariff of KWHEP for 2014-19 Control period and approval of



generation tariff of KWHEP for 2019-24 Control period. The Hon'ble Commission has disposed-off the petition No. 391/GT/2019 on 17.03.2022 after true up of the capital cost as on 31.3.2019 & generation tariff for control period 2014-19.

This Hon'ble Commission also approved Annual Fixed Charges, for the control period 2019-24 (in the order dt 17.3.2022) as under:

134. Based on the above, the annual fixed charges approved for the 2019-24 tariff period in respect of the generating station is summarized below:

(Rs. In Lakh)

	2019-20	2020-21	2021-22	2022-23	2023-24
<i>Depreciation</i>	34,307	34,521	34,669	34,688	34,692
<i>Interest on Loan</i>	17,117	14,213	11,206	8,031	4,836
<i>Return on Equity</i>	39,720	39,967	40,138	40,161	40,165
<i>Interest on Working Capital</i>	1,881	1,846	1,708	1,691	1,670
<i>O & M and Security Exp.</i>	11,710	14,715	15,299	15,912	16,554
Total (Annual Fixed Cost)	1,04,736	1,05,262	1,03,021	1,00,483	97,916

Copy of order dated 17.03.2022 in petition no. 391/GT/2019, is enclosed as **Annexure T3.**

4. That the Hon'ble Commission has framed CERC (Terms and Conditions of Tariff) Regulations, 2019 (hereinafter called as "Tariff Regulations 2019") issued vide Notification dated 7.3.2019. It is submitted that the Present Petition is being filed under the provisions of CERC (Terms and Conditions of Tariff) Regulations, 2019 for true up of generation tariff of Karcham Wangtoo HEP for 2019-24 Control



period and also to comply with the directions given by this Hon'ble Commission in its Order dated 17.03.2022 passed in petition no. 391/GT/2019, viz:-

Regulation 13 of Tariff Regulations 2019:

13. Truing up of tariff for the period 2019-24: (1) The Commission shall carry out truing up exercise for the period 2019-24 along with the tariff petition filed for the next tariff period, for the following:

a) the capital expenditure including additional capital expenditure incurred up to 31.3.2024, as admitted by the Commission after prudence check at the time of truing up:

.....
.....

DIRECTIONS GIVEN BY THE HON'BLE COMMISSION IN PETITION NO. 391/GT/2019:

5. Uprating of the installed capacity from 1000MW to 1091 MW:

Hon'ble Commission vide para 62 of its Order dated 17.03.2022 observed as under:

"62. In view of the above submissions and considering the fact that the uprating of the installed capacity of the generating station from 1000 MW to 1091 MW, is subject to the actual performance of the generating station for at least two seasons, the capital cost of Rs.140.34 crore, corresponding to additional 10% overload capacity, as deducted vide order dated 30.3.2017 in Petition No.434/GT/2014 has not been reconsidered. However, the Petitioner is directed to submit the final approval of CEA with regard to the revised capacity at the time of truing-up of tariff for the 2019-24 tariff period"

With regard to the direction of Hon'ble Commission in para 62 of Order dated 17.03.2022, the Petitioner draws attention of this Hon'ble Commission to the terms of the CEA letter dt 29.4.2021, viz:-



“Based on various reports and recommendations of the expert groups/committees and the facts on record, the authority has agreed to update the capacity of Karcham Wangtoo HE Project from existing 1000 MW 1091 MW in two stages i.e. 1045 MW (with 10% continuous overload) in the first stage and then to 1091 MW (with 10% continuous overload) in the second stage. It was, however, decided by the authority that after initial uprating to 1045 MW (with 10% continuous overload) in the first stage, the performance of the project on various parameters what we observed for at least two monsoon seasons. After this, CEA may concur for further uprating of the capacity to 1091 MW with 10% continuous overload capacity on satisfactory report by the developer.”

In this connection it is submitted that CEA is still in the process of satisfying itself regarding the performance of the project in the first stage, after which the concurrence for the second stage will be accorded. A team of experts from CEA and CWC have also visited the plant in Nov’2024 for this purpose. CEA letter dt 29.4.2021 and current communication for plant visit (along with TEC dt 31.3.2003) is enclosed as **Annexure T4**.

6. **Additional capitalization towards replacement of assets:** Hon’ble Commission vide para 106 of its Order dated 17.03.2022 while allowing additional capex, directed the Petitioner as follows:

“The Petitioner has submitted that these expenditures (sl. No. 5 and 6) are claimed for replacement of assets deployed within original scope of the project and pertain to temporary structures which are being replaced by permanent structures for staff of the employees who are living in nearby area on rent/ temporary arrangements. The Petitioner has also claimed decapitalization of the old assets. With regard to claim of the Petitioner, it



is clear from Form 5B of the petition that the Petitioner, out of Rs.57.82 crore (revised capital cost as vetted by DIA) has incurred Rs.23.30 crore as on COD of the generating station under the head 'Buildings'. As such, the claim of the Petitioner is well within the balance available under this head. However, the Petitioner is directed to submit the complete details of the expenditure under this head including details of undischarged liabilities in this regard, till date. As the additional capital expenditure are towards replacement of the assets/ works of original scope, the additional capital expenditure claimed are allowed under Regulation 25(2)(a) of the 2019 Tariff Regulations. The decapitalisation of old replaced assets are considered under 'Decapitalization' allowed."

With regard to observation of Hon'ble Commission in para 106 of Order dated 17.03.2022, Petitioner respectfully submits as under:

Rs. in Lakh

Additional capitalisation under Regulation 25(2)(a) of the 2019 Tariff

Regulations:

	Add. Cap. Allowed in order dt 17.3.22	Add. Cap. Actual incurred year wise			
		2020-21	2021-22	2023-24	Total
Kilba Township	1,500.00	-	1,555.90	-	1,555.90
Sholtu Township	1,600.00	199.35	837.01	452.31	1,488.67
Total	3,100.00				3,044.57

Projected capitalisation vetted by DIA, on account of Buildings	5,782.00
Capitalisation approved as on COD, on account of Buildings (order dt 30.3.17)	2,330.00
Balance available	3,452.00
Addl. Capitalisation incurred during control period 2019-24	3,044.57
Balance amount available, under the head Buildings	407.43

In addition to above Petitioner submits that there was no undischarged liability accounted under the head Buildings as on COD. However, for better & efficient operations of the plant and conducive health of the staff,



all the temporary structure used for residence & office are being replaced by permanent buildings.

Old assets (Buildings) of the original value Rs. 70.48 lakh has been decapitalized in the books. A further expenditure of Rs. 5.25 crore is being incurred for Sholtu Township, during FY 2024-25, in continuation to aforesaid in-principle approval of additional capitalization. A summary statement comprising of additional capitalization and de-capitalisation year wise for control period 2019-24 is enclosed as **Annexure T5**.

7. **Clarification for the variation in gross value of the old assets:** The Hon'ble Commission vide para 111 of the order dated 17.3.2022 has asked for a clarification as under:

“111. Also, on perusal of Form 9(B)(i), it is noticed that there is variation in the gross value of the old assets furnished by the Petitioner for assets such as Bolero camper, trucks, etc., in different years. The Petitioner is directed to furnish clarification for the same at the time of truing-up of tariff of the generating station.”

In this regard, the Petitioner humbly submits that KW project was acquired from its predecessor M/s JPVL on ad-hoc value basis on 1.9.2015. The Fixed assets register (FAR) as on 31.8.2015 was re-organized based on the Gross block & Written down value (WDV) values available. The values have been assigned as on 1.9.2015, by a registered valuer to the respective assets. Because of this reason, variation in the gross value of the old assets, is being observed in



FAR. This Hon'ble Commission may apply the prudence check on this aspect.

8. **Security Expenses:** Hon'ble Commission vide para 125 of its Order dated 17.03.2022 directed the Petitioner as follows:

125. The Petitioner has claimed Security expenses for Rs.2446.27 lakh for each year of the period 2019-24 in terms of Regulation 35(2)(c) of the 2019 Tariff Regulations, based on the letter dated 12.12.2018 of CISF indicating the projected security expenses for the 2019-24 tariff period. It is noticed that the actual security expenses for the period 2016-17 as provided by the Petitioner while framing the 2019 Tariff Regulations, was Rs.138.86 lakh. However, the projected claim of the Petitioner in this petition, is on the higher side, the reason for which shall be furnished by the Petitioner at the time of truing-up of tariff for the 2019-24 tariff period. However, based on the letter of CISF dated 12.12.2018, the security expenses as claimed by the Petitioner are allowed on projection basis. The Petitioner is, however, directed to submit details of the actual security expenses incurred in terms of Regulation 35(2)(c) of the 2019 Tariff Regulations, at the time of truing-up of tariff.

In this regard, Petitioner respectfully submits that based on the intimation from Ministry of Power, Govt. of India dt. 5.1.2018, petitioner had invited bids from security agencies including CISF. Basis the quotation received from CISF vide its letter dt 12.12.18, Rs 24.46 core was claimed under O&M expenses for the years 2020-21 to 2023-24 in its True up cum MYT petition filed in Nov'2019 and allowed by this Hon'ble Commission in its order dt 17.3.2022.

However, due to the pandemic COVID-19 situations the deployment of CISF personnel was put on hold and said expenditure could not be incurred for FY 2020-21. Further, the proposal of CISF could not succeed since CISF intended deployment of its 315 personnel on QRT



(Quick response team) basis only for the Karcham Wangtoo plant, being an IPP. This did not serve the entire safety & security purpose of the plant. Therefore, the Petitioner basis revised competitive quotes received against a fresh tender, engaged M/s SIS Limited, as a full time security agency, it being the lowest bidder.

Summary of security expenses incurred year wise and submitted for true up, is as under:

Rs. In Lakh

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Security Expenses					
Security guards at Corporate office: Company payroll	83.06	70.13	72.57	83.44	76.35
Security guards at Plant locations: Company payroll	460.29	240.85	237.12	257.99	234.94
Security agency deployed at Plant: M/s SIS Ltd (w.e.f. May'22)	-	-	-	239.81	284.75
O/s liability of 4th Reserve battalion	0.66	-	-	-	-
Total	544.02	310.97	309.69	581.23	596.04
No. of security personnel	123	83	70	136	136

It may be noted that the cost per person in FY 2023-24 has not undergone any substantial change since FY 2019-20.

9. a) The Regulation 13 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations 2019 provides for the truing up exercise as under:

13. *Truing up of tariff for the period 2019-24: (1) The Commission shall carry out truing up exercise for the period 2019-24 along with the tariff petition filed for the next tariff period, for the following:*

a) the capital expenditure including additional capital expenditure incurred up to 31.3.2024, as admitted by the Commission after prudence check at the time of truing up:

b) the capital expenditure including additional capital expenditure incurred up to 31.3.2024, on account of Force Majeure and Change in Law.

.....

b) The Regulation 35(2)(d) of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations 2019 provides as under:

.....

*(d) The Security Expenses and **Capital Spares** for hydro generating stations shall be allowed separately after prudence check:*

Provided further that the generating station shall submit the assessment of the security requirement and estimated expenses, the details of year-wise actual capital spares consumed at the time of truing up with appropriate justification.

.....

Accordingly, the Petitioner herein below submits the following with regard to true-up of AFC for the period from FY 2019-20 to FY 2023-24:

TRUE UP OF CAPITAL COST

10. In terms of aforesaid Regulation 13(1), Petitioner submits herein below the Capital Cost and Annual Fixed Cost for true up of the tariff period 2019-24:



112. Accordingly, the capital cost considered for the purpose of tariff for the 2019-24 tariff period is as under:

	(Rs. in lakh)				
	2019-20	2020-21	2021-22	2022-23	2023-24
Opening capital cost	660653.40	663819.20	668884.72	669532.41	669643.97
Net Additional capital expenditure	3165.80	5065.52	647.69	111.56	22.66
Closing capital cost	663819.20	668884.72	669532.41	669643.97	669666.63
Average capital cost	662236.30	666351.96	669208.57	669588.19	669655.30

134. Based on the above, the annual fixed charges approved for the 2019-24 tariff period in respect of the generating station is summarized below:

	(Rs. In Lakh)				
	2019-20	2020-21	2021-22	2022-23	2023-24
Depreciation	34,307	34,521	34,669	34,688	34,692
Interest on Loan	17,117	14,213	11,206	8,031	4,836
Return on Equity	39,720	39,967	40,138	40,161	40,165
Interest on Working Capital	1,881	1,846	1,708	1,691	1,670
O & M and Security Expenses	11,710	14,715	15,299	15,912	16,554
Total (Annual Fixed Cost)	1,04,736	1,05,262	1,03,021	1,00,483	97,916

Statement showing capital cost claimed under true up:

(Rs. in Lakh)

S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	Opening Capital Cost	6,60,653.40	6,61,139.84	6,62,904.81	6,65,279.25	6,65,589.76
2	Add: Addition during the year/period	313.91	1,764.30	2,564.07	178.02	700.42
3	Less: Decapitalisation during the year/period	214.76	-	192.62	47.51	112.70
4	Less: Reversal during the year/period	-	-	-	-	-
5	Add: Discharges during the year/period	387.29	0.66	2.99	180.00	-
6	Closing Capital Cost	6,61,139.84	6,62,904.81	6,65,279.25	6,65,589.76	6,66,177.48
7	Average Capital Cost	6,60,896.62	6,62,022.33	6,64,092.03	6,65,434.50	6,65,883.62



7

Statement of Annual Fixed Cost claimed under true up:

(Rs. in Lakh)

S.No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	Depreciation	34,238	34,296	34,403	34,473	34,496
2	Interest on Loan	17,016	12,547	9,484	6,755	4,010
3	Return on Equity	50,287	50,160	39,832	50,165	50,667
4	Interest on Working Capital	2,068	1,877	1,621	1,736	1,978
5	O & M and Security Expenses	12,295	12,600	13,777	14,172	14,718
	Sub Total	1,15,904	1,11,480	99,118	1,07,302	1,05,869
6	Add: 50% share in savings on Term Loans' interest cost due to refinancing done in Sept'15 *	3,233	3,330	2,637	1,886	1,120
7	Less: 50% share in non-tariff income to beneficiaries #	(1)	-	(9)	(60)	(12)
8	Total (Annual Fixed Cost)	1,19,136	1,14,811	1,01,746	1,09,128	1,06,977

* Detailed in para 12 below

Detailed in para 14 below

TRUE UP OF CONTROLLABLE PARAMETERS

11. True up of Auxiliary consumption:

Regulation 60 of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations 2019 states that:

60. Sharing of gains due to variation in norms: (1) The generating company or the transmission licensee shall workout gains based on the actual performance of applicable Controllable parameters as under:

- i) Station Heat Rate;*
- ii) Secondary Fuel Oil Consumption; and*
- iii) Auxiliary Energy Consumption.*

(2) The financial gains by the generating company or the transmission licensee, as the case may be, on account of controllable parameters shall be shared between generating company or transmission licensee and the beneficiaries or long term customers, as the case may be on annual basis.

.....



Provided that in case of hydro generating stations, the net gain on account of Actual Auxiliary Energy Consumption being less than the Normative Auxiliary Energy Consumption, shall be computed as per following formulae provided the saleable scheduled generation is more than the saleable design energy and shall be shared in the ratio of 50:50 between generating station and beneficiaries.:

(i) When saleable scheduled generation is more than saleable design energy on the basis of normative auxiliary energy consumption and less than or equal to saleable design energy on the basis of actual auxiliary energy consumption:

Net gain (Million Rupees) = [(Saleable Scheduled generation in MUs) – (Saleable Design energy on the basis of normative auxiliary energy consumption in MUs)] x [1.20 or ECR, whichever is lower]

(ii) When saleable scheduled generation is more than saleable design energy on the basis of actual auxiliary energy consumption:

Net gain (Million Rupees) = {Saleable Scheduled generation in MUs- [(Saleable Scheduled Generation in MUs x (100-normative AEC in %)/ (100-actual AEC in %)]}x [1.20 or ECR, whichever is lower]

Acting upon the aforesaid Regulation 60(1) & (2), the petitioner has worked out the net gain on account of actual auxiliary consumption for the period 1.4.2019 to 31.3.2024 as under and necessary credit notes have been issued to the beneficiaries:

(Rs. In Lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24	Total
Normative Auxiliary consumption	1.20%	1.20%	1.20%	1.20%	1.20%	
Actual Auxiliary consumption	0.71%	0.66%	0.72%	0.65%	0.64%	
Total Gain corresponding to IC 1000MW	238.47	249.65	208.96	238.67	*	
50% of gain shared with beneficiaries	119.24	124.83	104.48	119.33	*	467.88



Credit notes issued to beneficiaries dated:	15-06-2020	16-06-2021	07-05-2022	24-05-2024	24-05-2024	Total
HPPC	50.95	53.34	44.64	50.99	-	
UPPCL	27.10	28.37	23.75	27.12	-	
RDPPC	14.09	14.75	12.35	14.10	-	
PSCL	27.10	28.37	23.75	27.12	-	
Total	119.24	124.83	104.48	119.33	-	467.88

* For FY 2023-24, saleable scheduled generation is less than saleable design energy, therefore gain on account of auxiliary consumption, is NIL.

Detailed year wise working sheets and copy of credit notes issued are enclosed as **Annexure T6**.

12. True up of interest cost on term loans:

A. In terms of Regulation 26(7) of the **Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations 2014** the Petitioner has done the refinancing of its existing loans (bearing higher interest rates) to low interest rate term loans in Sept'2015. The State bank of India led consortium had approved a loan of Rs. 7550 crores to the Petitioner (Rs. 6600 crores for Karcham Wangtoo HEP and Rs. 950 crore for Baspa II HEP).

a. In accordance with Regulation 8(2), 2nd proviso to Regulation 8(6) and Regulation 26(7) of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations 2014,



the petitioner had worked out the revised interest on loans after the refinancing activity, in the 2014-19 tariff forms based on actual loans portfolio. The gain in interest cost on account of re-financing of loans has been settled among the beneficiaries for respective years of control period 2014-19.

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Gross Normative loan - Opening	4,54,299	4,58,442	4,58,444	4,60,968	4,61,753
Cumulative repayment of Normative Loan upto previous year	91,484	1,25,259	1,59,187	1,93,209	2,27,353
Net Normative loan - Opening	3,62,815	3,33,183	2,99,256	2,67,759	2,34,400
Repayment during the year	33,775	33,928	34,022	34,144	34,199
Addition due to additional capitalisation	4,143	2	2,525	785	704
Net Normative loan - Closing	3,33,183	2,99,256	2,67,759	2,34,400	2,00,905
Average Normative loan	3,47,999	3,16,220	2,83,508	2,51,080	2,17,653
Weighted average Rate of Interest *	12.7845%	12.7805%	12.7757%	12.7704%	12.7643%
Interest on loan (basis old loans' int. rate)	44,490	40,415	36,220	32,064	27,782
Weighted average Rate of Interest (as per re-financed loans) \$	12.7845%	11.6518%	10.3349%	9.6383%	9.0274%
Interest on loan (basis re-financed loans' int. rate)	44,490	36,845	29,300	24,200	19,648
Net savings in interest on loan	-	3,569	6,920	7,864	8,134

* as approved in MYT petition 434/GT/2014, para 120

\$ as approved in true up petition 391/GT/2019, para 74



b. It is respectfully submitted that due to refinancing done in Sept'15, the gain in interest cost continued during the next control period of 2019-24, which is summarized as under:

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24	Total
Gross Normative loan - Opening	4,62,457	4,62,798	4,64,033	4,65,703	4,65,921	
Cumulative repayment of Normative Loan upto previous year	2,61,552	2,95,790	3,30,087	3,64,490	3,98,964	
Net Normative loan - Opening	2,00,905	1,67,008	1,33,947	1,01,213	66,957	
Repayment during the year	34,238	34,296	34,404	34,474	34,497	
Less: Cumulative repayment adjustment on a/c of de-capitalization	150	-	127	33	79	
Addition due to additional capitalisation	491	1,235	1,797	251	490	
Net Normative loan - Closing	1,67,008	1,33,947	1,01,213	66,957	32,871	
Average Normative loan	1,83,956	1,50,477	1,17,580	84,085	49,914	
Weighted average Rate of Interest (as approved in true up petition 391/GT/2019 for FY 18-19)	12.7643%	12.7643%	12.7643%	12.7643%	12.7643%	
Interest on loan (basis old loans' interest rate)	23,481	19,207	15,008	10,733	6,371	74,801
Weighted average Rate of Interest (as per re-financed loans) *	9.2499%	8.3380%	8.2784%	8.2784%	8.2784%	
Interest on loan (basis re-financed loans' interest rate)	17,016	12,547	9,734	6,961	4,132	50,389
Net savings in interest on loan	6,465	6,661	5,275	3,772	2,239	24,411
Share of gain, attributable to generating company (50%) #	3,233	3,330	2,637	1,886	1,120	12,206



(Figures of normative loan, are as per True up petition for control period 2019-24)

* **As per Form 13 to the True up Tariff forms** {Interest rate of INR loans are in respect of period upto May'2021 when it was refinanced by Green Bonds having interest rate of 8.03%. (For FY 22-23 & 23-24 interest rates are same as on May'2021 for INR loans)}

In terms of the Regulation 61 of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019

- c. Based on above, it is evident that savings on account of interest in term loans has accrued of Rs 244.11 crores during control period 2019-24. The Hon'ble Commission may kindly allow the 50% gain applicable to the Generating Company on account of refinancing of loans i.e. Rs 122.06 crore, for respective years of the control period FY 2019-24 {in terms of the Regulation 61 of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019}.
- d. It is further informed that existing INR loans as on May'2021 were refinanced with Green Bonds having fixed rate of interest (lower than existing INR loans). Purpose of refinancing during May'2021 was to freeze the interest cost for balance period on normative loan, in view of expected increase in INR loan interest rates for future years. It can be witnessed from the historical MCLR rates of SBI that current interest rates of Nov'24 are higher by around 2% from May'2021.



SHORTFALL IN DESIGN ENERGY FOR FY 2023-24

13. Petitioner humbly submits that Karcham Wangtoo HEP (KWHEP) is a run of river with pondage hydro generating plant and has been in commercial operations since 13.09.2011, supplying power under long term PPA dt. 21.3.2006.

Regulation 65 (7) & (8) of the CERC Tariff Regulations 2024, regarding recovery of un-recovered energy charges due to shortfall in energy generation, for reasons beyond the control of generating station is re-produced herein below:

65. Computation and Payment of Capacity Charge and Energy Charge for Hydro Generating Stations:

.....
 (7) *In case the saleable scheduled energy (ex-bus) of a hydro generating station during a year is less than the saleable design energy (ex-bus) for reasons beyond the control of the generating station, the generating station may directly recover the shortfall in energy charges in six equal interest-free monthly instalments after adjusting for DSM Energy in the immediately following year and shall be subject to truing up at the end of the tariff period.*

Provided that in case actual generation from a hydro generating station is less than the design energy for a continuous period of four years on account of hydrology factor, the generating station shall approach the Central Electricity Authority with relevant hydrology data for revision of design energy of the station.

(8) Any shortfall in the energy charges on account of saleable scheduled energy (ex-bus) being less than the saleable design energy (ex-bus) during the tariff period 2019-24, which was beyond the control of the generating station and which could not be recovered during the said tariff period shall be recovered in accordance with clause (7) of this Regulation.

In this regards, the petitioner would like to submit that a shortfall in energy has occurred in FY 2023-24 at KWHEP. This is 2nd time KWHEP is facing such situation of shortfall in energy. Earlier in FY 2018-19 shortfall of 152.80 Mus was approved by the Hon'ble CERC vide its order dt. 4.2.2020.



Since recovery of shortfall of design energy in respect of FY 2023-24 (control period 2019-24) is to be done during current control period of 2024-29, intimation alongwith the bills were served to the beneficiaries under Regulation 65 (7) & (8) of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024.

The procedure / steps followed herein below to arrive at the shortfall quantum, are same as adopted by the Hon'ble CERC in its aforesaid order dt 4.2.2020, except for the treatment of DSM energy which has been dealt with as per current Tariff Regulations 2024. For FY 23-24, the DSM energy has been added to the saleable scheduled energy (Ex-bus).

Shortfall in saleable scheduled energy (ex-bus) against the saleable design energy (ex-bus) during FY 2023-24 for KWHEP, is as under:

Particulars	Corresponding to		
	Uprated capacity 1045 MW	45 MW	1000 MW
1. Design energy	Not applicable	Not applicable	4131.06
2. Normative Auxiliary consumption @1.20%			49.57
3. Net Design energy			4081.49
4. Less: Free power to GoHP @ 12%			489.78
5. Saleable design energy (Ex-bus)			3591.71
6. Saleable scheduled energy (Ex-bus)			
a. Long term beneficiaries (As per monthly REA statement)	3164.06	--	3164.06
b. Power Exchanges under Short term	81.98	81.98	--
c. Power scheduled under DSM	14.50	--	14.50
d. Lesser generation due to unit outages (within control of generator)	--	--	2.89
e. Additional free power to GoHP over & above 12%	--	--	49.06
Total (6)	3260.55	81.98	3230.51
7. Shortfall (5 - 6)			361.20



In support of the above table petitioner are enclosing following documents
(Annexure T7 Colly.):

1. Calculation / analysis of the shortfall in generation due to lesser inflow of water
2. Relevant extract of monthly regional energy account (REA) for the months Apr'23 to Mar'24
3. Summary of weekly DSM statement issued by NRPC
4. Rainfall & Snowfall data issued by IMD Shimla for previous 5 years
5. Unit outage data published by NRLDC in respect of KWHEP for FY 2023-24
6. Newspaper articles establishing the fact that FY 2023-24 was a drought year as compared to earlier years

The shortfall in generation is due to less inflow of water as compared to the designed inflow of water during the period April'23 to March'24 and due to silt flushing on account of high silt content during the monsoon period.

It is to state that KWHEP has no control over the actual inflow of water at the Karcham dam site or the quantity of silt flow. Also the shortfall in generation is not attributable to any in-efficiency, as annual average PAFM for KWHEP during FY 23-24 was 101.95% which depicts that KWHEP has utilised all the potentials available.

Our Karcham Wangtoo HEP is located in the District Kinnaur of Himachal Pradesh which had very less inflow of river water during the year 2023-24. Rainfall & snowfall data issued by IMD Shimla is tabulated below:



KALPA - Rain Fall (mm)											
Month	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Jan		89.90	23.20	159.00	3.00	131.00	168.40	106.60	134.40	76.20	1.00
Feb		236.00	38.20	49.20	49.80	180.20	15.40	21.40	69.20	36.20	53.30
March		245.20	105.70	89.60	64.80	124.40	124.20	65.20	11.60	35.20	153.40
April	99.60	15.70	116.40	132.20	52.00	18.70	58.20	153.40	14.60	105.40	85.90
May	56.00	59.30	21.60	24.80	53.50	79.70	25.40	86.60	39.70	77.80	10.20
June	7.80	54.70	12.60	42.40	42.00	64.60	19.60	38.20	11.00	30.20	
July	70.50	50.40	42.30	42.40	85.20	27.60	44.90	62.00	54.20	191.60	
Aug	24.70	29.00	58.50	26.80	34.60	91.00	21.40	48.40	46.40	15.30	
Sep	26.90	45.50	30.80	87.60	116.00	19.00	2.40	97.80	94.80	13.80	
Oct	5.50	4.00	2.40	0.20	-	21.00	-	86.00	14.80	7.20	
Nov	0.60	5.80	-	37.00	45.40	99.20	74.40	-	9.70	7.60	
Dec	52.00	15.00	5.00	27.00	34.00	40.50	8.30	34.80	5.20	0.20	
Total		850.50	456.70	718.20	580.30	896.90	562.60	800.40	505.60	596.70	
Average of 6 months Oct-Mar	104.87	31.98	50.87	30.30	85.83	78.12	45.98	56.00	29.55	37.12	

6 months' average rainfall during Oct-March is presented above to project the lower snowfall in the region during the year 2017-18 & 2022-23, which has impacted the generation during succeeding year 2018-19 & 2023-24 (snowfall melting in next year's summer).

Snowfall - Kalpa						
Month	2019	2020	2021	2022	2023	2024
Jan	131.8	168.4	106.2	134.4	76.3	1.0
Feb	161.0	15.4	17.4	69.2	34.4	53.3
March	92.7	74.2	20.4	10.0	11.1	120.5
April	-	7.4	80.8	-	4.4	-
May	-	-	-	-	4.0	
Oct	-	-	0.2	-	-	
Nov	50.0	64.6	-	2.3	-	
Dec	40.5	8.9	23.6	5.2	0.2	
Sum of 6 months Oct-Mar	348.5	217.5	237.4	129.3	175.0	



The above snowfall data also confirms the fact that in absence of snow, there was lower availability of water inflow, during the year 2023-24 (snowfall melting in next year's summer).

In support of the above fact regarding less availability of water inflow during FY 23-24, newspaper articles are enclosed as under:

Publication	Date	Headline
Hindustan Times	20.1.24	Generation at Hydel projects drop by 85% in rain deficit Himachal
Tribune	18.1.24	Water flow in Satluj low, power generation hit
Amar Ujala	18.1.24	Hit of drought in Himachal- water level reduced in rivers
Mercom	13.2.24	SJVN's Q3 net profit plunges 52% as Hydro power generation drops.

In addition to this, the petitioner submits that inflow of water in snow fed rivers like Satluj on which the KWHEP is situated, depends on the snowfall in its catchment area during the previous year. Total catchment area of the Satluj above the Bhakra dam site and Karcham dam site are about 56875 sq. km. and 48755 sq. km respectively, but the snow catchment area of river Satluj is 38760 sq.km, which is about 80% of the catchment area above Karcham dam site. Similar to year 2017-18, year 2022-23 had very meagre snowfall, lowest in last 5 years (depicted in table 3 above). As a result, in the year 2023-24, river Satluj had low inflows as compared to previous years, specially during the month of April 2023 and May 2023 when the snow starts to melt were less as compared to design year inflows (which represent inflows in 90% dependable year).



At the end of the year, the shortfall due to lower inflows reduced, as the plant was utilising 110% of the installed capacity for generation during the peak/monsoon season.

Based on above the shortfall in design energy is calculated and apportioned amongst the long term beneficiaries, as under:

<u>In respect of approved design energy for 1000MW</u>			<u>FY 2023-24</u>
Saleable design energy (ex-bus)	Mus		3591.71
Saleable scheduled energy (ex-bus)	Mus		3230.51
Shortfall	Mus		361.20
Energy charge rate (ECR) as billed to beneficiaries	Rs. /unit		1.338
Recovery of shortfall in energy	Rs. Crore		48.3282
<u>Apportionment amongst beneficiaries of 880MW</u>			
Haryana 200 MW	22.727%		10,98,36,744
Haryana 176MW (till 12.9.23)	20.000%	165 days	4,36,93,960
Haryana 116MW (wef 13.9.23)	13.182%	200 days	3,49,07,020
Sub total - Haryana			18,84,37,724
Uttar Pradesh 200 MW	22.727%		10,98,36,744
Punjab 200 MW	22.727%		10,98,36,744
Rajasthan 104 MW	11.818%		5,71,15,107
Karcham 60 MW (wef 13.9.23)	6.818%	200 days	1,80,55,355
Total			48,32,81,674

Petitioner humbly requests the Hon'ble Commission to allow recovery of energy charges amounting to Rs. 48.33 crore in FY 2024-25 in six equal monthly instalments (**subject to trued up ECR rate for FY 2023-24**), against the shortfall in energy charges occurred in FY 2023-24 on account of saleable scheduled energy (ex-bus) being less than saleable design energy (ex-bus), as per Regulation 65 (7) & (8) of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024.



Further, invoices have been raised on to the beneficiaries directly as per Regulation 65 (7) & (8) of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 for payment in 6 equal interest free monthly instalments.

(7) In case the saleable scheduled energy (ex-bus) of a hydro generating station during a year is less than the saleable design energy (ex-bus) for reasons beyond the control of the generating station, the generating station may directly recover the shortfall in energy charges in six equal interest-free monthly instalments after adjusting for DSM Energy in the immediately following year and shall be subject to truing up at the end of the tariff period.

Provided that in case actual generation from a hydro generating station is less than the design energy for a continuous period of four years on account of hydrology factor, the generating station shall approach the Central Electricity Authority with relevant hydrology data for revision of design energy of the station.

*(8) Any shortfall in the energy charges on account of saleable scheduled energy (ex-bus) being less than the saleable design energy (ex-bus) **during the tariff period 2019-24**, which was beyond the control of the generating station and which could not be recovered during the said tariff period shall be recovered in accordance with clause (7) of this Regulation.*

As on 10.1.2025, 4 no. of installments have been paid by UPPCL and 3 no. of installments have been paid by HPPC, PSPCL & RDPPC, out of total 6 installments.



Beneficiaries are supposed to pay these 6 installments in 30, 60, 90, 120, 150 and 180 days of the issuance of the shortfall invoice, however few beneficiaries (namely HPPC, PSPCL & RDPPC) are making payments in 61, 91, 121, 151, 181 and 211 days as applicable to the regular monthly energy bills in terms of PPA due dates. The Hon'ble Commission may please allow LPS on these late payments.

SHARING OF BENEFITS

14. Regulation 62 of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 prescribe for sharing of benefits between generating company and beneficiaries as under:

62. Sharing of Non-Tariff Income: The non-tariff net income in case of generating station and transmission system from rent of land or buildings, sale of scrap and advertisements shall be shared between the beneficiaries or the long term customers and the generating company or the transmission licensee, as the case may be, in the ratio 50:50.

Based on the audited books of accounts for the control period 2019-24, Petitioner hereby offers below incomes for sharing with beneficiaries:

Rs. in Lakh)

Year	2019-20	2020-21	2021-22	2022-23	2023-24	Total
Income from scrap sales	1	-	18	120	23	162
50% share attributable to the beneficiaries	0.50	-	9	60	11.50	81

APPLICATION FEE AND PUBLICATION EXPENSES

15. Regulation 94 (1) of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 prescribe for reimbursement of fee, charges and expenses, as under:

94. Application fee and publication expenses: The following fees, charges and expenses shall be reimbursed directly by the beneficiary in the manner specified herein:

(1) The application filing fee and the expenses incurred on publication of notices in the application for approval of tariff, may at the discretion of the Commission, be allowed to be recovered by the generating company or the transmission licensee, as the case may be, directly from the beneficiaries or the long term customers, as the case may be.

.....

Based on above Petitioner respectfully submits that the annual tariff application fee for the years 2024-25 to 2028-29 and publication expenses incurred for this petition, by the Petitioner, may please be allowed to be reimbursed.

DETERMINATION OF TARIFF FOR FY 2024-29 TARIFF PERIOD

16. The Petitioner herewith submits tariff forms as prescribed in the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations 2024 for determination of Tariff for 2024-29 tariff period.



Statement of expected capital cost during control period 2024-29

(Rs. in Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
Opening Capital Cost	6,66,177.48	6,66,913.58	6,67,765.79	6,67,765.79	6,70,422.57
Add: Addition during the year/period *	1,159.62	970.00	-	-	-
Less: De-capitalisation during the year/period	423.52	117.79	-	-	-
Less: Reversal during the year/period	-	-	-	-	-
Add: Discharges during the year/period **	-	-	-	2,656.78	-
Closing Capital Cost	6,66,913.58	6,67,765.79	6,67,765.79	6,70,422.57	6,70,422.57
Average Capital Cost	6,66,545.53	6,67,339.68	6,67,765.79	6,69,094.18	6,70,422.57

* Additional capex allowed by the Hon'ble Commission for the control period 2019-24 could not incurred fully during 2019-24 and therefore some part of additional capex is incurred during FY 2024-25 & FY 2025-26 (as per Regulation 25(2) of the Tariff Regulations 2024)

** Member Secretary, LADC, Kinnaur vide MOM of the meeting dt. 20.6.2024 has informed project authorities for the pending & disputed LADF amount of Rs 34.95 crore which includes Rs 15 crore towards EMP (copy enclosed as **Annexure M1**)

Summary of expected Annual Fixed Cost (AFC) claimed for the control period 2024-29, is as under:



(Rs. in Lakh)

Particulars	Existing	2024-25	2025-26	2026-27	2027-28	2028-29
	2023-24					
Depreciation	34,496	8,824	8,874	8,898	8,963	9,032
Interest on Loan	4,010	2,307	1,640	950	296	-
Return on Equity	50,667	50,717	50,777	50,810	50,911	51,012
Interest on Working Capital	1,978	1,622	1,652	1,683	1,715	1,758
O & M, Security & Insurance Expenses*	14,718	16,275	17,165	18,104	19,094	20,138
Total (Annual Fixed Cost)	1,05,869	79,745	80,109	80,445	80,979	81,939

* O & M expenses as approved by the Hon'ble Commission in CERC (terms & conditions of Tariff) Regulations 2024, for the FY 2024-25 to 2028-29 (including Security expenses & Insurance expenses which are considered based on audited books of accounts/actuals for FY 23-24 and FY 24-25, escalated with 5.47% p.a. for control period 2024-29) and difference if any on account of Security expenses & Insurance expenses will be offered back/ claimed, for true up at the end of the control period.

17. Additional capital expenditure which has become necessary for efficient and successful operation of plant

The Petitioner has continuously made efforts for reducing failure rate at the power plant by ensuring smooth operational levels. This is done by adopting timely preventive maintenance schedule regarding all vital areas/assets of the power project. As the plant was commissioned in 2011, the life of equipment (installed, erected & commissioned during the period from 2006 to 2011) is not commensurate with the useful life of the project and such assets have been fully depreciated. Due to the ageing of plant equipment, additional capital expenditure has become necessary to increase efficiency of plant & it's staff, by incurring additional capital expenditure.



The Hon'ble Commission will appreciate that temporary structure of all staff colony is being reconstructed into permanent colony for the staff of KWHEP. Since aforesaid works could not be completed during control period 2019-24, some pending works shall be completed during FY 2024-25. Apart from this, few assets proposed to be capitalised during control period 2019-24, shall be procured during 2024-25 & 2025-26 (as detailed in **Annexure M2**).

Additional capital expenditure on this account was in-principle allowed by this Hon'ble Commission under para 111 of its order dated 17.3.2022.

Petitioner humbly request the Hon'ble Commission that the additional capital expenditure as stated in Annexure M1 is vital for efficient plant operations and may kindly allow additional capex during FY 2024-29 tariff period, exercising the powers under CERC (Terms and Conditions for Tariff) Regulations 2024.



PRAYERS

In view of the above, the Petitioner prays that this Hon'ble Commission may be pleased to:

- a) true up the capital cost and tariff for sale of power from Karcham Wangtoo HEP for the FY 2019-20 to FY 2023-24, taking into account the submissions made herein above
- b) in addition to trued up AFC, allow the 50% gain applicable to the Company on account of refinancing of loans done in Sept'15, for the control period FY 2019-20 to FY 2023-24.
- c) allow recovery of energy charges in FY 2024-25 in six equal installments along with LPS if any, towards the shortfall in energy charges in terms of Regulation 65 (7) & (8) of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 and LPS on the late payment of these instalments
- d) determine the tariff for the 2024-29 tariff period
- e) allow additional capex for tariff period 2024-29
- f) allow additions / alterations / changes / modifications to the Present Petition as may be necessary at a future date.
- g) pass such further order or orders as this Hon'ble Commission may deem fit and proper in the circumstances of the case.


PETITIONER

Date:

Place: New Delhi

**BEFORE THE HON'BLE CENTRAL ELECTRICITY
REGULATORY COMMISSION, NEW DELHI**

Petition No. _____/2025

Diary No. _____

In the matter of:

Petition for true up of capital cost & generation tariff for 2019-24 tariff period under Regulation 13 of the CERC (Terms and Conditions of Tariff) Regulations, 2019 AND determination of generation tariff for 2024-29 tariff period under Regulation 9(2) of the CERC (Terms and Conditions of Tariff) Regulations, 2024, in respect of Karcham Wangtoo Hydro Electric Project (KW HEP)

And

In the matter of:

JSW Hydro Energy Limited
Sholtu Colony, P.O. Tapri
District Kinnaur 172104
Himachal Pradesh



...Petitioner

Versus

PTC India Limited
NBCC Tower,
15 Bhikaji Cama Place,
New Delhi -66

...Respondent & Others



AFFIDAVIT

I, Anurag Agarwal, S/o Kamal Kishore Agarwal aged about 44 years, am the General Manager of JSW Hydro Energy Limited having its registered office at Sholtu Colony, P.O. Tapri, Dist. Kinnaur - 172104 - Himachal Pradesh, presently residing at Panchsheel Pratishtha, Sector 75, Noida, U.P. do hereby solemnly declares as under:

1. That I am the General Manager of JSW Hydro Energy Limited and being fully acquainted with the facts of the case, am competent and duly authorized to swear this Affidavit on behalf of the Petitioner.
2. That I have read and understood the contents of the accompanying Present Petition on behalf of the Petitioner for true up of generation tariff of Petitioner's Karcham Wangtoo HEP and, I state that the same are true and correct to the best of my knowledge and belief and no part of it is false and nothing material has been concealed there from.
3. That the Annexures and Documents annexed to the Present Petition are the true copies of their respective originals.


 * DEPONENT

VERIFICATION

I, the deponent above named do hereby verify that the contents of the above affidavit are true and correct to the best of my knowledge and belief and nothing material has been concealed there from.

Verified at New Delhi on this 13 day of January, 2025.


 DEPONENT



ATTESTED

Notary Public, Delhi

13 JAN 2025

**CERTIFICATE FOR SERVING OF COPY OF TARIFF PETITION
TO RESPONDENTS AND DISCLOSURE ON WEBSITE**

This is to certify that a copy of the tariff Petition for true up has been sent by courier as well as E-mail to the Respondents as mentioned in the true up Petition.

The Petition has been posted on website of the Petitioner viz. <https://www.jsw.in>. The Petition shall be retained on the website till the disposal of the Petition in accordance with Regulation 23(6) of the CERC (Conduct of Business Regulations) 2023.


PETITIONER

Date:

Place: New Delhi

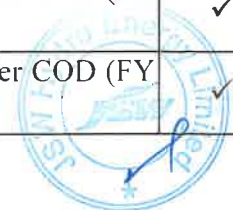
True up Tariff Forms

Name of the Petitioner : JSW Hydro Energy Limited

Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Checklist of Forms and other information/ documents for tariff filing for Hydro Stations

Particulars	Title of Tariff Filing Forms (Hydro)	Tick
FORM-1	Summary of Tariff	✓
Enclosure-1 to Form 1	Computation of Saleable Design Energy	✓
FORM-1 (I)	Statement showing claimed capital cost- (A+B)	✓
FORM-1 (II)	Statement showing Return on Equity at Normal Rate	✓
FORM-2	Details of COD, Type of Hydro Station, Normative Annual Plant Availability Factor (NAPAF) & Other normative parameters considered for tariff calculation	✓
Enclosure-1 to Form 2	Design Energy Generation (1000 MW)	✓
FORM-3	Salient Features of Hydroelectric Project	✓
FORM-4	Details of Foreign loans	✓
FORM-4A	Details of Foreign Equity	✓
FORM-5	Abstract of Admitted Capital Cost for the existing Projects	✓
FORM-5A	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New projects	✓
FORM-5B	Break up of Capital Cost for New Hydro Power Generating Station	✓
FORM-5C	Break Up Of Capital Cost For Plant & Equipment (New Projects)	✓
FORM-5D	Break up of Construction / Supply / Service Packages	✓
FORM-5Ei	In case there is cost over run	✓
FORM-5Eii	In case there is time over run	✓
FORM-6	Financial Package upto COD	✓
FORM-7	Details of Project Specific Loans	✓
FORM-7A	Details of Project Specific Loans (Loans A)	✓
FORM-7B	Details of Project Specific Loans (Loans B)	✓
FORM-7C	Details of Project Specific Loans (Loan C- Re-financed)	✓
FORM-7D	Details of Project Specific Loans (Loan D- Forex loans)	✓
Enclosure-1 to Form 7D	Repayment Schedule (Loan D)	✓
FORM- 8	Details of allocation of corporate loans to various projects	✓
FORM-9A	Year wise Statement of Additional Capitalisation after COD (FY 2019-20)	✓
FORM-9A	Year wise Statement of Additional Capitalisation after COD (FY 2020-21)	✓
FORM-9A	Year wise Statement of Additional Capitalisation after COD (FY 2021-22)	✓
FORM-9A	Year wise Statement of Additional Capitalisation after COD (FY 2022-23)	✓
FORM-9A	Year wise Statement of Additional Capitalisation after COD (FY 2023-24)	✓



Particulars	Title of Tariff Filing Forms (Hydro)	Tick
FORM-9B	Statement of Additional Capitalisation during end of the Project	✓
FORM-9Bi	Details of Assets De-capitalized during the period	✓
FORM-9C	Statement showing reconciliation of ACE claimed with the capital additions as per books	✓
FORM-9D	Statement showing items/assets/works claimed under Exclusions:	✓
FORM-9E	Statement of Capital cost	✓
FORM-9F	Statement of Capital Woks in Progress	✓
FORM-10	Financing of Additional Capitalisation	✓
FORM-11	Calculation of depreciation on original project cost	✓
FORM-12	Statement of Depreciation	✓
FORM-13	Calculation of Weighted Average Rate of Interest on Actual Loans	✓
Enclosure-1 to Form 13 (Appendix-1 to 7) to Enclosure-1 to Form 13	Calculation of Weighted Average Rate of Interest for the Financial Year 2019-20	✓
Enclosure-2 to Form 13 (Appendix-1 to 7) to Enclosure-2 to Form 13	Calculation of Weighted Average Rate of Interest for the Financial Year 2020-21	✓
Enclosure-3 to Form 13 (Appendix-1 to 8) to Enclosure-3 to Form 13	Calculation of Weighted Average Rate of Interest for the Financial Year 2021-22	✓
Enclosure-4 to Form 13 (Appendix-1) to Enclosure-4 to Form 13	Calculation of Weighted Average Rate of Interest for the Financial Year 2022-23	✓
Enclosure-5 to Form 13 (Appendix-1) to Enclosure-5 to Form 13	Calculation of Weighted Average Rate of Interest for the Financial Year 2023-24	✓
FORM-13A	Calculation of Interest on Normative Loan	✓
FORM-13B	Calculation of Interest on Working Capital	✓
FORM- 13C	Non-Tariff Income	✓
FORM- 13D	Incidental Expenditure during Construction	✓
FORM-14	Draw Down Schedule for Calculation of IDC & Financing Charges	✓
FORM-14A	Actual Cash Expenditure	✓
FORM- 15A	Design Energy and peaking capability (month wise) - ROR with Pondage / Storage type new stations	✓
FORM- 15B	Design Energy and MW Continuous (month wise) - ROR type stations	✓
FORM- 16	Statement of Liability Flow	✓
FORM- 17	Operation and Maintenance expenses (Commercial operation on or after 1.4.2019)	✓
FORM- 17A	Details of capital spares for control period 2019-24	✓
FORM- 18	Details of statutory charges , if applicable	✓
FORM- 19	Summary of issue involved in the petition	✓



Other Information/ Documents		
Sl. No.	Information/Document	Tick
1	Certificate of incorporation, Certificate for Commencing Business, Memorandum of Association & Article of Association (for new station set up by a company making tariff application for the first time to CERC) Certificate of incorporation of JSW Hydro Energy Limited is attached as Annexure T2.	✓
2	A. Station wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & Annexures on COD of the station and for the relevant years.	
a	Audited Balance Sheets of Karcham Wangtoo HEP (Station) for Financial Year 2019-20 to 2023-24 as Annexure-T8 (Colly).	✓
b	Audited Balance Sheets of the Petitioner's Company i.e. JSW Hydro Energy Limited for the Financial Years 2019-20 to 2023-24 as Annexure T9 (Colly).	✓
c	Income tax returns of Petitioner Company for the FY 2019-20 to 2023-24, respectively as Annexure T10 (Colly)	✓
3	Copies of relevant loan agreements	
a	NOCs from old bankers for repayment of old loans in May'2021 as Annexure T12 (Colly)	✓
b	Intimation sent to beneficiaries for the Refinanced (forex) loans, availed in May'2021 (along with loan document) as Annexure T13	✓
4	Copies of the approval of Competent Authority for the Capital Cost and Financial package. TEC dated 31.03.2003 issued by CEA as Annexure T4	✓
5	Copies of the Equity participation agreements and necessary approval for the foreign equity	Not Applicable
6	Copies of the BPSA/PPA with the beneficiaries, if any PPA dated 21.03.2006, Settlement agreement dated 5.8.2013 and Supplementary PPA dt. 1.12.2017 as Annexure- T14 (Colly).	✓
7	Detailed note giving reasons of time and cost over run, if applicable. List of supporting documents to be submitted: a. Detailed Project Report b. CPM Analysis c. PERT Chart and Bar Chart d. Justification for cost and time Overrun	Not Applicable
8	Generating Company shall submit copy of Cost Audit Report along with cost accounting records, cost details, statements, schedules etc. for the Generating Unit wise /stage wise/Station wise/ and subsequently consolidated at Company level as submitted to the Govt. of India for first two years i.e. 2014-15 and 2015-16 at the time of mid-term true-up in 2016-17 and for balance period of tariff period 2014-19 at the time of final true-up in 2019-20. In case of initial tariff filing the latest available Cost Audit Report should be furnished. Cost Audit Report is enclosed herewith for 2019-20 to 2023-24 as Annexure T11 (Colly)	✓
9	Any other relevant information (Please specify)	
a	Detailed working for gain on account of actual auxiliary consumption being lower than normative auxiliary consumption & copy of credit notes issued in this behalf as Annexure T6	✓
b	Calculation / analysis of the shortfall in generation due to lesser inflow of water for FY 2023-24, submitted for true up as Annexure T7	✓
10	Reconciliation with Balance sheet of any actual additional capitalization and amongst stages of a generating station	Not Applicable



Summary of Tariff

Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant
Region : Northern District : Kinnaur State : Himachal Pradesh

S.No.	Particulars	Form No.	Existing		2019-20	2020-21	2021-22	2022-23	2023-24
			2018-19	2018-19					
1	2		3	4	5	6	7	8	
1.1	Depreciation	12	34,199	34,238	34,296	34,403	34,473	34,496	
1.2	Interest on Loan	13A	19,648	17,016	12,547	9,484	6,755	4,010	
1.3	Return on Equity	1(II)	41,653	50,287	50,160	39,832	50,165	50,667	
1.4	Interest on Working Capital	13B	3,310	2,068	1,877	1,621	1,736	1,978	
1.5	O & M, capital spares and Security Expenses	13B	20,127	12,295	12,600	13,777	14,172	14,718	
	Sub total		1,18,938	1,15,904	1,11,480	99,118	1,07,302	1,05,869	
1.6	50% share in savings on Term Loans' interest cost due to refinancing done in Sept'15		-	3,233	3,330	2,637	1,886	1,120	
1.7	Less: 50% share in non-tariff income		-	(1)	-	(9)	(60)	(12)	
	Total (Annual Fixed Cost)		1,18,938	1,19,136	1,14,811	1,01,746	1,09,128	1,06,977	

(Rs. in lakh)

Note

- Details of calculations, considering equity as per regulation, to be furnished
- Petitioner's share in savings on Term loans' interest cost due to refinancing done in Sept'15, during 2014-19 was claimed separately in the Petition itself. Now for 2019-24 period it's being presented here along with AFC.



**PART-II
FORM-1 (I)**

Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant
Region : Northern District : Kinnaur State : Himachal Pradesh

(Rs. in lakh)

Statement showing claimed capital cost- (A+B)

S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	Opening Capital Cost	6,60,653.40	6,61,139.84	6,62,904.81	6,65,279.25	6,65,589.76
2	Add: Addition during the year/period	313.91	1,764.30	2,564.07	178.02	700.42
3	Less: Decapitalisation during the year/period	214.76	-	192.62	47.51	112.70
4	Less: Reversal during the year/period	-	-	-	-	-
5	Add: Discharges during the year/period	387.29	0.66	2.99	180.00	-
6	Closing Capital Cost	6,61,139.84	6,62,904.81	6,65,279.25	6,65,589.76	6,66,177.48
7	Average Capital Cost	6,60,896.62	6,62,022.33	6,64,092.03	6,65,434.50	6,65,883.62

Statement showing claimed capital cost eligible for RoE at normal rate (A)

S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	Opening Capital Cost	6,60,653.40	6,61,131.46	6,62,896.43	6,65,270.87	6,65,581.38
2	Add: Addition during the year/period	305.53	1,764.30	2,564.07	178.02	700.42
3	Less: Decapitalisation during the year/period	214.76	-	192.62	47.51	112.70
4	Less: Reversal during the year/period	-	-	-	-	-
5	Add: Discharges during the year/period	387.29	0.66	2.99	180.00	-
6	Closing Capital Cost	6,61,131.46	6,62,896.43	6,65,270.87	6,65,581.38	6,66,169.10
7	Average Capital Cost	6,60,892.43	6,62,013.95	6,64,083.65	6,65,426.12	6,65,875.24

Statement showing claimed capital cost eligible for RoE at weighted average rate of interest on actual loan portfolio (B)

S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	Opening Capital Cost	6,60,653.40	6,61,131.46	6,62,896.43	6,65,270.87	6,65,581.38
2	Add: Addition during the year/period	313.91	1,764.30	2,564.07	178.02	700.42
3	Less: Decapitalisation during the year/period	214.76	-	192.62	47.51	112.70
4	Less: Reversal during the year/period	-	-	-	-	-
5	Add: Discharges during the year/period	387.29	0.66	2.99	180.00	-
6	Closing Capital Cost	6,61,131.46	6,62,896.43	6,65,270.87	6,65,581.38	6,66,169.10
7	Average Capital Cost	6,60,892.43	6,62,013.95	6,64,083.65	6,65,426.12	6,65,875.24



3	Less: Decapitalisation during the year/period	-	-	-	-	-	-
4	Less: Reversal during the year/period	-	-	-	-	-	-
5	Add: Discharges during the year/period	-	-	-	-	-	-
6	Closing Capital Cost	8.38	8.38	8.38	8.38	8.38	8.38
7	Average Capital Cost	4.19	8.38	8.38	8.38	8.38	8.38



PART-II
FORM-1 (II)

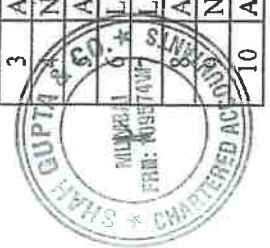
Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant
Region : Northern District : Kinnaur State : Himachal Pradesh

Statement showing Return on Equity at Normal Rate

S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	Gross Opening Equity (Normal)	1,98,196.02	1,98,341.95	1,98,871.44	1,99,583.77	1,99,676.93
2	Less: Adjustment in equity	-	-	-	-	-
3	Adjustment during the year	-	-	-	-	-
4	Net Opening Equity (Normal)	1,98,196.02	1,98,341.95	1,98,871.44	1,99,583.77	1,99,676.93
5	Add: Increase in equity due to addition during the year/period	91.66	529.29	769.22	53.41	210.13
6	Less: Decrease due to de-capitalisation during the year/period	64.43	-	57.79	14.25	33.81
7	Less: Decrease due to reversal during the year/period	-	-	-	-	-
8	Add: Increase due to discharges during the year/period	116.19	0.20	0.90	54.00	-
9	Net Closing Equity (Normal)	1,98,339.44	1,98,871.44	1,99,583.77	1,99,676.93	1,99,853.24
10	Average Equity (Normal)	1,98,267.73	1,98,606.70	1,99,227.61	1,99,630.35	1,99,765.09
11	Rate of ROE (grossed up with effective rate of tax)	25.363%	25.256%	19.993%	25.129%	25.363%
12	Return on Equity	50,286.64	50,160.11	39,831.58	50,165.11	50,666.42

Statement showing Return on Equity at Weighted Average Rate of Interest on Actual Loan Portfolio

S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	Gross Opening Equity	-	2.51	2.51	2.51	2.51
2	[pertaining to Proviso to Regulation 30(2)]	-	-	-	-	-
3	Less: Adjustment in equity	-	-	-	-	-
4	Adjustment during the year	-	-	-	-	-
5	Net Opening Equity	-	2.51	2.51	2.51	2.51
6	Add: Increase in equity due to addition during the year/period	2.51	-	-	-	-
7	Less: Decrease due to de-capitalisation during the year/period	-	-	-	-	-
8	Less: Decrease due to reversal during the year/period	-	-	-	-	-
9	Add: Increase due to discharges during the year/period	-	-	-	-	-
10	Net Closing Equity [pertaining to Proviso to Regulation 30(2)]	2.51	2.51	2.51	2.51	2.51
11	Average Equity [pertaining to Proviso to Regulation 30(2)]	1.26	2.51	2.51	2.51	2.51



11	Rate of ROE (grossed up with effective rate of tax) (weighted average rate of interest on actual loan portfolio)	14.218%	12.763%	9.774%	12.236%	12.350%
12	Return on Equity	0.18	0.32	0.25	0.31	0.31
13	Total ROE (With in and beyond Original scope)	50,286.82	50,160.43	39,831.82	50,165.42	50,666.73

- Note: 1. Adjustment of equity as per Proviso to Regulation 18(3) of 2019 Tariff Regulations.
 2. With respect to Equity infusion, the Generating Company is required to substantiate with supporting documents such as board resolutions, balance sheet/ reconciliation statement with balance sheet.



Details of COD, Type of Hydro Station, Normative Annual Plant Availability Factor (NAPAF) & Other normative parameters considered for tariff calculation

Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

S.No.	Description	Unit	Year Ending March					
			Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8	9
1	Installed Capacity *	MW	1000	1000	1000	1000	1000	1000
2	Free Power to home state	%	12%	12%	12%	12%	12%	12%
3	Free Power under Local Area Development Fund (LADF) ^	%	0%	0%	0%	0%	0%	0%
4	Date of commercial operation							
	Unit - 1 (Actual)	26.05.2011						
	Unit - 2 (Actual)	23.06.2011						
	Unit - 3 (Actual)	08.09.2011						
	Unit - 4 (Actual)	13.09.2011						
5	Type of Station							
	a) Surface / underground	Underground						
	b) Purely ROR / Pondage / Storage	Pondage						
	c) Peaking / non-peaking	Peaking						
	d) No. of hours of peaking	3 Hrs						
	e) Overload capacity (MW) & period	100 MW						
6	Type of excitation							
	a) Rotating exciters on generator							
	b) Static excitation	Static						
7	Design Energy (Annual)'	Gwh	4131.06	4131.06	4131.06	4131.06	4131.06	4131.06
8	Auxiliary Consumption including Transformation losses	%	1.20%	1.20%	1.20%	1.20%	1.20%	1.20%
9	Normative Plant Availability Factor (NAPAF)	%	90%	90%	90%	90%	90%	90%
9.1.	Maintenance Spares for WC	% of (O&M+ Security)	15%	15%	15%	15%	15%	15%
9.2	Receivable for WC	in Months	2	-	-	-	-	-
		in days	-	45	45	45	45	45
	Base Rate of Return on Equity	%	16.50%	16.50%	16.50%	16.50%	16.50%	16.50%
	Base Rate of Return on Equity on: @							



	Add. Capitalization after cut off date <u>with in</u> original scope	%	16.50%	16.50%	16.50%	16.50%	16.50%	16.50%
	Add. Capitalization after cut off date <u>beyond</u> original scope	%	8.34%	8.07%	8.03%	8.03%	8.03%	8.03%
9.5	Tax Rate ²	%	34.944%	17.472%	34.338%	34.944%	34.944%	34.944%
9.6	Effective Tax Rate ⁴	%	34.944%	17.472%	34.338%	34.944%	34.944%	34.944%
9.7	Bank rate (SBI MCLR) as on 1st April every year	%	8.55%	7.00%	7.00%	7.00%	7.00%	8.50%
	SBI Base Rate + 350 basis points	%	12.05%	10.50%	10.50%	10.50%	10.50%	12.00%

Note:

1. Refer Enclosure - I to Form 2 for Design Energy including for month wise 10-day Design Energy.
2. Actual tax rates as per ITR, has been considered for grossing up the ROE.
3. Mention relevant date
4. Effective tax rate is to be computed in accordance with Regulation 31 i.e. actual tax (or advance tax)/gross income, where gross income refers the profit before tax.

@ Proviso to Reg. 30(2): Return on equity in respect of additional capitalization after cut-off date beyond the original scope excluding additional capitalization due to Change in Law, shall be computed at the weighted average rate of interest on actual loan portfolio of the generating station or the transmission system,

* Installed capacity of the plant has been uprated by CEA wef 29.4.2021 in two stages. For the year 2021 and 2022 plant has successfully operated at first stage of 1045 MW. Application for 2nd stage of 1091 MW is under process at CEA.

^ 1% Free power against LADF is being supplied to Home state Himachal Pradesh, on uprated capacity of 45 MW only. Tariff corresponding to 45 MW uprated capacity is not claimed in this petition, since corresponding capital cost is not approved by this Hon'ble Commission.





Marginal Cost Lending Rates

Effective Date	Interest Rate (%)											
	ON	1M	3M	6M	1Y	2Y	3Y					
15.09.2024	8.2	8.45	8.5	8.85	8.95	9.05	9.1					
15.08.2024	8.2	8.45	8.5	8.85	8.95	9.05	9.1					
15.07.2024	8.1	8.35	8.4	8.75	8.85	8.95	9					
15.06.2024	8.1	8.3	8.3	8.65	8.75	8.85	8.95					
15.05.2024	8	8.2	8.2	8.55	8.65	8.75	8.85					
15.04.2024	8	8.2	8.2	8.55	8.65	8.75	8.85					
15.03.2024	8	8.2	8.2	8.55	8.65	8.75	8.85					
15.02.2024	8	8.2	8.2	8.55	8.65	8.75	8.85					
15.01.2024	8	8.2	8.2	8.55	8.65	8.75	8.85					
15.12.2023	8	8.2	8.2	8.55	8.65	8.75	8.85					
15.11.2023	8	8.15	8.15	8.45	8.55	8.65	8.75					
15.10.2023	8	8.15	8.15	8.45	8.55	8.65	8.75					
15.09.2023	8	8.15	8.15	8.45	8.55	8.65	8.75					
15.08.2023	8	8.15	8.15	8.45	8.55	8.65	8.75					
15.07.2023	8	8.15	8.15	8.45	8.55	8.65	8.75					
15.06.2023	7.95	8.1	8.1	8.4	8.5	8.6	8.7					
15.05.2023	7.95	8.1	8.1	8.4	8.5	8.6	8.7					
15.04.2023	7.95	8.1	8.1	8.4	8.5	8.6	8.7					
15.03.2023	7.95	8.1	8.1	8.4	8.5	8.6	8.7					
15.02.2023	7.95	8.1	8.1	8.4	8.5	8.6	8.7					
15.01.2023	7.85	8	8	8.3	8.4	8.5	8.6					
15.12.2022	7.85	8	8	8.3	8.3	8.5	8.6					
15.11.2022	7.6	7.75	7.75	8.05	8.05	8.25	8.35					
15.10.2022	7.6	7.6	7.9	7.95	7.95	8.15	8.25					
15.09.2022	7.35	7.35	7.65	7.7	7.9	8	8					
15.08.2022	7.35	7.35	7.65	7.7	7.9	8	8					
15.07.2022	7.15	7.15	7.45	7.5	7.7	7.8	7.8					
15.06.2022	7.05	7.05	7.35	7.4	7.6	7.7	7.7					
15.05.2022	6.85	6.85	7.15	7.2	7.4	7.5	7.5					
15.04.2022	6.75	6.75	7.05	7.1	7.3	7.4	7.4					
15.03.2022	6.65	6.65	6.95	7	7.2	7.3	7.3					
15.02.2022	6.65	6.65	6.95	7	7.2	7.3	7.3					
15.01.2022	6.65	6.65	6.95	7	7.2	7.3	7.3					
15.12.2021	6.65	6.65	6.95	7	7.2	7.3	7.3					
15.11.2021	6.65	6.65	6.95	7	7.2	7.3	7.3					
15.10.2021	6.65	6.65	6.95	7	7.2	7.3	7.3					
15.09.2021	6.65	6.65	6.95	7	7.2	7.3	7.3					
15.08.2021	6.65	6.65	6.95	7	7.2	7.3	7.3					
15.07.2021	6.65	6.65	6.95	7	7.2	7.3	7.3					
15.06.2021	6.65	6.65	6.95	7	7.2	7.3	7.3					





Marginal Cost Lending Rates

Effective Date	Interest Rate (%)						
	ON	1M	3M	6M	1Y	2Y	3Y
15.05.2021	6.65	6.65	6.65	6.95	7	7.2	7.3
15.04.2021	6.65	6.65	6.65	6.95	7	7.2	7.3
10.04.2021	6.65	6.65	6.65	6.95	7	7.2	7.3
10.03.2021	6.65	6.65	6.65	6.95	7	7.2	7.3
10.02.2021	6.65	6.65	6.65	6.95	7	7.2	7.3
10.01.2021	6.65	6.65	6.65	6.95	7	7.2	7.3
10.12.2020	6.65	6.65	6.65	6.95	7	7.2	7.3
10.11.2020	6.65	6.65	6.65	6.95	7	7.2	7.3
10.10.2020	6.65	6.65	6.65	6.95	7	7.2	7.3
10.09.2020	6.65	6.65	6.65	6.95	7	7.2	7.3
10.08.2020	6.65	6.65	6.65	6.95	7	7.2	7.3
10.07.2020	6.65	6.65	6.65	6.95	7	7.2	7.3
10.06.2020	6.7	6.7	6.75	6.95	7	7.2	7.3
10.05.2020	6.95	6.95	7	7.2	7.25	7.45	7.55
10.04.2020	7.1	7.1	7.15	7.35	7.4	7.6	7.7
10.03.2020	7.45	7.45	7.5	7.7	7.75	7.95	8.05
10.02.2020	7.6	7.6	7.65	7.8	7.85	8.05	8.15
10.01.2020	7.65	7.65	7.7	7.85	7.9	8.1	8.2
10.12.2019	7.65	7.65	7.7	7.85	7.9	8.1	8.2
10.11.2019	7.65	7.65	7.7	7.85	8	8.1	8.2
10.10.2019	7.7	7.7	7.75	7.9	8.05	8.15	8.25
10.09.2019	7.8	7.8	7.85	8	8.15	8.25	8.35
10.08.2019	7.9	7.9	7.95	8.1	8.25	8.35	8.45
10.07.2019	8.05	8.05	8.1	8.25	8.4	8.5	8.6
10.06.2019	8.1	8.1	8.15	8.3	8.45	8.55	8.65
10.05.2019	8.1	8.1	8.15	8.3	8.45	8.55	8.65
10.04.2019	8.15	8.15	8.2	8.35	8.5	8.6	8.7
10.03.2019	8.2	8.2	8.25	8.4	8.55	8.65	8.75
10.02.2019	8.2	8.2	8.25	8.4	8.55	8.65	8.75
10.01.2019	8.2	8.2	8.25	8.4	8.55	8.65	8.75
10.12.2018	8.2	8.2	8.25	8.4	8.55	8.65	8.75
01.11.2018	8.15	8.15	8.2	8.35	8.5	8.6	8.7
01.10.2018	8.15	8.15	8.2	8.35	8.5	8.6	8.7
01.09.2018	8.1	8.1	8.15	8.3	8.45	8.55	8.65
01.08.2018	7.9	7.9	7.95	8.1	8.25	8.35	8.45
01.07.2018	7.9	7.9	7.95	8.1	8.25	8.35	8.45
01.06.2018	7.9	7.9	7.95	8.1	8.25	8.35	8.45
01.05.2018	7.8	7.8	7.85	8	8.15	8.25	8.35
01.04.2018	7.8	7.8	7.85	8	8.15	8.25	8.35



Income tax liability as per ITR of JSW Hydro Energy Ltd.

AY	20-21	21-22	22-23	23-24	24-25
Income u/s 115JB	1,04,69,04,893	2,08,10,34,031	8,05,50,88,447	3,31,66,48,976	5,08,35,29,564
MAT tax payable	18,29,15,223	36,35,98,267	1,40,73,85,053	57,94,84,909	88,81,94,286
Taxable Income	1,33,02,00,350	1,77,14,38,550	2,45,08,96,350	1,99,08,31,606	2,74,94,04,410
Normal tax payable	46,48,25,211	61,41,51,704	73,87,85,423	68,36,19,779	96,07,51,877
Less: MAT Credit u/s 115JAA	-	3,20,76,689	-	10,41,34,870	-
Tax payable (Higher of MAT or Normal tax)	18,29,15,223	58,20,75,015	1,40,73,85,053	57,94,84,909	7,25,57,591
MAT credit available at the end of the year	3,20,76,689	-	66,85,99,630	56,44,64,760	49,19,07,169
Taxes paid + TDS credit (Rs crore)	19,10,10,996	61,23,72,254	1,73,24,88,102	57,95,52,397	92,22,43,448
Effective tax rate (before availing MAT credit)	34.944%	34.670%	17.472%	34.338%	34.944%



**PART-II
FORM-4**

Details of Foreign loans.

(Details only in respect of loans applicable to the project under petition)

Name of the Petitioner : JSW Hydro Energy Limited
 Name of the Generating Station : Karacham Wangtoo Hydro-Electric Plant
 Exchange Rate at COD:
 Exchange Rate as on 31.03.2019:

S.No.	Financial Year (Starting from COD)			Year 1			Year 2			Year 3 and so on				
	2	3	Date	4	5	6	7	8	9	10	11	12	13	14
			Date	Amount (Foreign Currency)	Exchange Rate (Rs.)	Amount (Rs.)	Date	Amount (Foreign Currency)	Exchange Rate	Amount (Rs.)	Date	Amount (Foreign Currency)	Exchange Rate	Amount (Rs.)
	Currency ¹													
A	At the date of Drawl ²													
	Schedulcd repayment date of principal													
	Schedulcd repayment date of interest													
	At the end of Financial year													
B	In case of Hedging ³													
	At the date of hedging													
	Period of hedging													
	Cost of hedging													
	Currency ¹													
A	At the date of Drawl ²													
	Schedulcd repayment date of principal													
	Schedulcd repayment date of interest													
	At the end of Financial year													
B	In case of Hedging ³													
	At the date of hedging													
	Period of hedging													
	Cost of hedging													
	Currency ¹ & so on													
A.1	At the date of Drawl ²													
	Schedulcd repayment date of principal													
	Schedulcd repayment date of interest													
	At the end of Financial year													
B	In case of Hedging ³													
	At the date of hedging													
	Period of hedging													
	Cost of hedging													

NOT APPLICABLE
 (Forex loans availed
 only against refinancing of
 existing Indian bank Term loans
 wef 18.5.2021)



¹Name of the currency to be mentioned e.g. US \$, DM, etc. etc.
²In case of more than one drawl during the year, Exchange rate at the date of each drawl to be given.
³Furnish details of hedging, in case of more than one hedging during the year or part hedging, details of each hedging are to be given.
⁴Tax (such as withholding tax) details as applicable including change in rates, date from which change effective etc. must be clearly indicated.

PART-II
FORM- 4 A

Details of Foreign Equity

(Details only in respect of Equity infusion if any applicable to the project under petition)

Name of the Petitioner : JSW Hydro Energy Limited
 Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant
 Exchange Rate on date/s of infusion :

S.No.	Financial Year	Year 1			Year 2			Year 3 and so on					
		3	4	5	6	7	8	9	10	11	12	13	14
		Date	Amount (Foreign Currency)	Exchange Rate	Amount (Rs.)	Date	Amount (Foreign Currency)	Exchange Rate	Amount (Rs.)	Date	Amount (Foreign Currency)	Exchange Rate	Amount (Rs.)

NOT APPLICABLE



¹Name of the currency to be mentioned e.g. US \$, DM, etc. etc.
²In case of equity infusion more than once during the year, Exchange rate at the date of each infusion to be given.

**PART-II
FORM-5**

Abstract of Admitted Capital Cost for the existing Projects

**Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant**

Capital cost as admitted by CERC		Rs. Lakh			
a. Capital cost admitted for tariff, as on:	31-03-15	31-03-16	31-03-17	31-03-18	31-03-19
(Give reference of the relevant CERC Order with Petition No. & Date)	Tariff order dated 17.3.22 in petition no. 391/GT/2019 (Para 67)				
b. Foreign Component, if any (In Million US \$ or the relevant Currency)	-	-	-	-	-
c. Foreign Exchange rate considered for the admitted Capital cost	-	-	-	-	-
d. Total Foreign Component	-	-	-	-	-
e. Domestic Component	6,54,917.05	6,54,919.28	6,58,526.22	6,59,647.64	6,60,653.40
f. Hedging Cost, if any, considered for the admitted capital cost	-	-	-	-	-
Total Capital cost admitted (d+e+f)	6,54,917.05	6,54,919.28	6,58,526.22	6,59,647.64	6,60,653.40



**PART-II
FORM-5A**

Abstract of Capital Cost Estimates and Schedule of Commissioning for the New projects

Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

New Projects
Capital Cost Estimates

Board of Director/ Agency approving the project cost estimates:		
Date of approval of the Capital cost estimates:		
Price level of approved estimates	Present Day Cost	Completed Cost
Foreign Exchange rate considered for the capital cost estimates		
Foreign Component, if any (In Million US \$ or the relevant Currency)		
Domestic Component (Rs. Lakh)		
Capital Cost excluding IDC, FC, FERV & Hedging Cost (Rs. Lakh)		

Capital Cost excluding IDC, IEDC & FC



IDC, IEDC, FC, FERV & Hedging Cost

Foreign Component, if any (In Million US \$ or the relevant Currency)	-
Domestic Component (Rs. Lakh)	
Total IDC, IEDC, FC, FERV & Hedging Cost (Rs. Lakh)	NOT APPLICABLE, PROJECT COMMISSIONED ON 13.09.2011
Rate of taxes & duties considered	
Capital cost Including IDC, IEDC FC, FERV & Hedging Cost	
Foreign Component, if any (In Million US \$ or the relevant Currency)	
Domestic Component (Rs. Lakh)	
Capital cost Including IDC, IEDC & FC (Rs. Lakh)	
Schedule of Commissioning as per investment approval	
Scheduled COD of Unit-I	
Scheduled COD of Unit-II	
Scheduled COD of Unit-III	
Scheduled COD of Unit-IV	



Copy of approval letter should be enclosed
 Details of Capital Cost are to be furnished as per FORM-5B or 5C as applicable
 Details of IDC & Financing Charges are to be furnished as per FORM-14.



PART-II
FORM-5B

Break up of Capital Cost for New Hydro Power Generating Station

Name of the Petitioner : JSW Hydro Energy Limited

Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

(Rs. In Lakhs)

S.No.	Break down	Original Cost as approved by Authority / Investment approval	Actual Capital Expenditure as on actual/ anticipated COD	Liabilities / Provisions	Variation	Reasons for variation
1	2	3	4	5	6-3-4-5	7
1.0	Infrastructure Works					
1.1	Preliminary including Development					
1.2	Land *					
1.3	R & R expenditure					
1.4	Buildings					
1.5	Township					
1.6	Maintenance					
1.7	Tools & Plants					
1.8	Communication					
1.9	Environment & Ecology					
1.10	Losses on stock					
1.11	Receipt & Recoveries					
1.12	Total (Infrastructure works)					
2.0	Major Civil Works					
2.1	Dam, Intake & Desilting Chambers					
2.2	HRT, TRT, Surge Shaft & Pressure shafts					
2.3	Power Plant civil works					
2.4	Other civil works (to be specified)					
2.5	Total (Major Civil Works)					
3.0	Hydro Mechanical equipment					
4.0	Plant & Equipment (E&M)					
4.1	Initial spares of Plant & Equipment					
4.2	Total (Plant & Equipment)					
5.0	Taxes and Duties					
5.1	Custom Duty					
5.2	Other Tax & duties					
5.3	Total Taxes & Duties					
6.0	Construction & Pre-commissioning expenses					
6.1	Erection, testing & commissioning					
6.2	Construction Insurance					
6.3	Site supervision					
6.4	Total (Const. & Pre-commissioning)					
NOT APPLICABLE,						
PROJECT COMMISSIONED ON 13.09.2011						



S.No.	Break down	Original Cost as approved by Authority / Investment approval	Actual Capital Expenditure as on actual/ anticipated COD	Liabilities / Provisions	Variation	Reasons for variation
1	2	3	4	5	6-3-4-5	7
7.0	Overheads					
7.1	Establishment					
7.2	Design & Engineering					
7.3	Audit & Accounts					
7.4	Contingency					
7.5	Rehabilitation & Resettlement					
7.6	Total (Overheads)					
8.0	Capital Cost without IDC & FC, FERV & Hedging Cost					
9.0	IDC, FC, FERV & Hedging Cost					
9.1	Interest During Construction (IDC)					
9.2	Financing charges (FC)					
9.3	Foreign Exchange Rate Variation (FERV)					
9.4	Hedging Cost					
9.5	Notional IDC					
9.6	Total of IDC, FC, FERV & Hedging Cost					
10.0	Revenue from infirm power					
11.0	Capital Cost Including IDC, FC, FERV & Hedging Cost					

*Provide details of Freehold Land, Leasehold Land and Land under reservoir separately

Notes:

1. In case of cost variation, a detailed note giving reasons of such variation should be submitted clearly indicating whether such cost over-run was beyond the control of the generating company.
2. In case of both time & cost overrun, a detailed note giving reasons of such time and cost over-run should be submitted clearly bringing out the agency responsible and whether such time and cost overrun was beyond the control of the generating company.
3. The implication on cost due to time over run, if any shall be submitted separately giving details of increase in prices in different packages from scheduled COD to Actual COD/anticipated COD, increase in IEDC from scheduled COD to actual COD/anticipated COD and increase of IDC from scheduled COD to actual anticipated COD.
4. Impact on account of each reason for Time over run on Cost of project should be quantified and substantiated with necessary documents and supporting workings. A list of balance work assets/work wise including initial spare on original scope of works along with estimate shall be furnished positively.



**PART-II
FORM-5C**

Break Up Of Capital Cost For Plant & Equipment (New Projects)

Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

(Rs. in Lakh)

Sl. No.	Break Down	Original Cost as approved by Authority / Investment approval	Cost on actual / anticipated COD	Variation	Reasons for Variation
1	2	3	4	5	6
1.0	Generator, Turbine & Accessories				
1.1	Generator package				
1.2	Turbine package				
1.3	Unit Control Board				
1.4	C&I package				
1.5	Bus duct of GT connection				
1.6	TOTAL (Generator, Turbine & Accessories)				
2.0	Auxiliary Electrical Equipment				
2.1	Step up Transformers				
2.2	Unit Aux. Transformers				
2.3	Local Supply Transformers				
2.4	Station Transformers				
2.5	SCADA				
2.6	Switchgear, Batteries, DC Dist. Board				
2.7	Telecommunication Equipment				
2.8	Illumination of Dam, PH & Switchyard				
2.9	Cable & cable facilities, grounding				
2.10	Diesel generating sets				
2.11	TOTAL (Aux. Electrical Equipment)				
3.0	Auxiliary Equipment & Services for PH				
3.1	EOT Crane				
3.2	Other Cranes				
3.3	Electric Lifts & elevators				

NOT APPLICABLE,

PROJECT COMMISSIONED ON 13.09.2011



Sl. No.	Break Down	Original Cost as approved by Authority / Investment approval	Cost on actual / anticipated COD	Variation	Reasons for Variation
1	2	3	4	5	6
3.4	Cooling water system				
3.5	Drainage & dewatering system				
3.6	Firefighting equipment				
3.7	Airconditioning, ventilation & fitting				
3.8	Water supply system				
3.9	Oil handling equip.				
3.10	Workshop machines & equip.				
3.11	TOTAL (Aux. Equip. & Services for PS)				
4.0	Switchyard Package				
5.0	Initial Spares for all above Equipment				
6.0	TOTAL Cost (Plant & Equipment) excluding IDC, FC, FERV & Hedging cost				
7.0	IDC, FC & FERV & Hedging cost				
7.1	Interest during Construction (IDC)				
7.2	Financing Charges (FC)				
7.3	Foreign Exchange Rate Variation (FERV)				
7.4	Hedging cost				
7.5	TOTAL of IDC, FC & FERV & Hedging cost				
8.0	TOTAL Cost (Plant & Equipment) including IDC, FC, FERV & Hedging Cost				

Note: In case of cost variation, a detailed note giving reasons of such variation should be submitted clearly indicating whether such cost overrun was beyond the control of the generating company.



Break up of Construction / Supply / Service Packages

Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

(Rs. in Lakh)

Sr. No.	Name / No. of Construction / Supply / Service Package	Package A	Package B	Total Cost of all packages
1	Scope of Works ¹ (in line with head of cost break-ups as applicable)			
2	Whether awarded through ICB / DCB/ Departmentally / Deposit work	NOT APPLICABLE, PROJECT COMMISSIONED ON 13.09.2011		
3	No. of bids received			
4	Date of award			
5	Date of start of work			
6	Date of Completion of work/ expected date of completion of work			
7	Value of Award (Rs. Lakh) ²			
8	Firm or with Escalation in prices			
9	Actual expenditure till the completion or upto COD whichever is earlier (Rs. Lakh)			
10	Taxes & Duties and IEDC (Rs. Lakh)			
11	IDC, FC, FERV & Hedging cost (Rs. Lakh)			
12	Sub-Total (10+11+12) (Rs. Lakh)			

Note:

1. The scope of work in any package should be indicated in conformity of Capital cost break-up for the new Hydro Power Generating Station in the FORM-5B to the extent possible. For Plant & Equipment (New Projects) break down in the similar manner in the relevant heads as per FORM-5C.
2. If there is any package, which need to be shown in Indian Rupee and foreign currency(ies), the same should be shown separately along with the currency, the exchange rate and the date



In case there is cost over run

Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Sl. No.	Break Down	Original Cost (Rs.Lakh) as approved by the Board of Members	Actual/ Estimated Cost as incurred/to be incurred (Rs. Lakh)	Difference	Reasons for Variation (Please submit supporting computations and documents wherever applicable)	Increase in soft cost due to increase in hard cost
1	2	3	4	5	6	7
1	Cost of Land & Site Development					
1.1	Land*					
1.2	Rehabilitation & Resettlement (R&R)					
1.3	Preliminary Investigation & Site Development					
2	Plant & Equipment					
2.1	Steam Generator Island					
2.2	Turbine Generator Island					
2.3	BOP Mechanical					
2.3.1	Fuel Handling & Storage system					
2.3.2	External water supply system					
2.3.3	DM water Plant					
2.3.4	Clarification plant					
2.3.5	Chlorination Plant					
2.3.6	Fuel Handling & Storage system					
2.3.7	Ash Handling System					
2.3.8	Coal Handling Plant					
2.3.9	Rolling Stock and Locomotives					
2.3.10	MGR					
2.3.11	Air Compressor System					
2.3.12	Air Condition & Ventilation System					
2.3.13	Fire fighting System					
2.3.14	HP/LP Piping					
	Total BOP Mechanical					
2.4	BOP Electrical					
2.4.1	Switch Yard Package					
2.4.2	Transformers Package					
2.4.3	Switch gear Package					
2.4.4	Cables, Cable facilities & grounding					
2.4.5	Lighting					
2.4.6	Emergency D.G. set					
	Total BOP Electrical					
2.5	Control & Instrumentation (C & I) Package					
	Total Plant & Equipment excluding taxes & Duties					
3	Initial Spares					
4	Civil Works					
4.1	Main plant/Adm. Building					
4.2	CW system					
4.3	Cooling Towers					
4.4	DM water Plant					
4.5	Clarification plant					

Not Applicable



Sl. No.	Break Down	Original Cost (Rs.Lakh) as approved by the Board of Members	Actual/ Estimated Cost as incurred/to be incurred (Rs. Lakh)	Difference	Reasons for Variation (Please submit supporting computations and documents wherever applicable)	Increase in soft cost due to increase in hard cost
		Total Cost	Total Cost	Total Cost		
4.6	Chlorination plant					
4.7	Fuel handling & Storage system					
4.8	Coal Handling Plant					
4.9	MGR & Marshalling Yard					
4.10	Ash Handling System					
4.11	Ash disposal area development					
4.12	Fire fighting System					
4.13	Township & Colony					
4.14	Temp. construction & enabling works					
4.15	Road & Drainage					
	Total Civil works					
5	Construction & PreCommissioning Expenses					
5.1	Erection Testing and commissioning					
5.2	Site supervision					
5.3	Operator's Training					
5.4	Construction Insurance					
5.5	Tools & Plant					
5.6	Start up fuel					
	Total Construction & PreCommissioning Expenses					
6	Overheads					
6.1	Establishment					
6.2	Design & Engineering					
6.3	Audit & Accounts					
6.4	Contingency					
	Total Overheads					
7	Capital cost excluding IDC & FC					
8	IDC, FC, FERV & Hedging Cost					
8.1	Interest During Construction (IDC)					
8.2	Financing Charges (FC)					
8.3	Foreign Exchange Rate Variation (FERV)					
8.4	Hedging Cost					
	Total of IDC, FC,FERV & Hedging Cost					
9	Capital cost including IDC, FC, FERV & Hedging Cost					

Not Applicable

*Submit details of Freehold and Lease hold land

Note: Impact on account of each reason for Cost overrun should be quantified and substantiated with necessary documents and supporting workings



In case there is time over run

Name of the Petitioner : JSW Hydro Energy Limited

Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

S. No	Description of Activity/Works/Service	Original Schedule (As per Planning)		Actual Schedule (As per Actual)		Time OverRun	Reasons for delay	Other Activity effected (Mention Sr No of activity affected)
		Start Date	Completion Date	Actual Start Date	Actual Completion Date	Days		
1	2	3	4	5	6	7	8	9
1	Not Applicable							
2								
3								
4								
5								
6								
7								
8								
9								

1. Delay on account of each reason in case of time overrun should be quantified and substantiated with necessary documents and supporting workings.

2. Indicates the activities on critical path.



PART-II
FORM-6

Financial Package upto COD

Name of the Petitioner : JSW Hydro Energy Limited
 Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant
 Project Cost as on COD Rs. in lakh 6,81,666.00
 Date of Commercial Operation of the Station 13.09.2011

1	Financial Package as Approved		Financial Package as on COD		As Admitted on COD	
	2	3	4	5	6	7
	Currency and Amount	Currency and Amount	Currency and Amount	Currency and Amount	Currency and Amount	Currency and Amount
Allahabad Bank	Rs.	4,13,671.00				
Indian Bank			Rs.	40,000.00		
Punjab National Bank			Rs.	40,000.00		
Union Bank of India			Rs.	65,715.13		
Bank of India			Rs.	12,010.00		
Central Bank of India			Rs.	22,210.00		
IDBI Bank			Rs.	29,827.49		
ICICI Bank			Rs.	16,649.00		
J & K Bank			Rs.	69,999.57		
SIDBI			Rs.	11,086.00		
Rural Electrification Corporation			Rs.	15,000.00		
IDFC Bank			Rs.	63,372.00		
			Rs.	57,500.00		
Total Loan	Rs.	4,13,671.00	Rs.	4,43,369.19	Rs.	4,38,572.60
Equity-						
Foreign						
Domestic	Rs.	1,77,288.00	Rs.	-	Rs.	1,87,959.68
Total Equity	Rs.	1,77,288.00	Rs.	-	Rs.	1,87,959.68
Debt: Equity Ratio		70:30		69:31		70:30



(Petitioner)

Details of Project Specific Loans

Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Particulars	(Rs. in lacs)											
	Package1	Package2	Package3	Package4	Package5	Package6	Package7	Package8	Package9	Package10	Package11	Package12
1	2	3	4	5	6	7	8	9	10	11	12	
Source of Loan	Allahabad Bank	Indian Bank	Punjab National Bank	Union Bank of India	Bank of India	The Jammu and Kashmir Bank Ltd.	Central Bank of India	IDBI Bank	ICICI Bank Ltd.	SIDBI	Infrastructure Development Finance Company Limited	
Currency	Indian Rupee	Indian Rupee	Indian Rupee	Indian Rupee	Indian Rupee	Indian Rupee	Indian Rupee	Indian Rupee	Indian Rupee	Indian Rupee	Indian Rupee	
Amount of Loan sanctioned	40,000	40,000	81,200	15,000	25,500	12,700	32,000	19,100	90,000	15,000	1,25,000	
Amount of Gross Loan drawn as on 28.03.2014*	40,000	40,000	77,170	14,073	24,478	12,199	30,834	18,339	86,289	15,000	1,20,872	
Interest Type	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	
Fixed Interest Rate, if applicable (as on 28.03.2014)	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.25%	12.00%	12.00%	
Base Rate, if Floating Interest	-	-	-	-	-	-	-	-	-	-	-	
Margin, if Floating Interest	-	-	-	-	-	-	-	-	-	-	-	
Are there any Caps/Floor	No	No	No	No	No	No	No	No	No	No	No	
If above is yes, specify caps/floor	-	-	-	-	-	-	-	-	-	-	-	
Moratorium Period												
The First Repayment Date as per Financing Agreements is the date later of (a) the date six months from COD (b) 15.06.2012. Accordingly, moratorium period is from the date of last disbursement by respective lender upto the First Repayment Date.												
Moratorium effective from	24.03.2011	24.03.2011	28.09.2012	29.06.2012	29.06.2012	30.06.2012	26.03.2012	28.09.2012	08.08.2012	31.03.2011	10.02.2012	
Repayment Period*	15 years	15 years	15 years	15 years	15 years	15 years	15 years	15 years	15 years	15 years	15 years	
Repayment effective from	15.06.2012	15.06.2012	15.06.2012	15.06.2012	15.06.2012	15.06.2012	15.06.2012	15.06.2012	15.06.2012	15.06.2012	15.06.2012	
Repayment Frequency	5 Monthly Installment	5 Monthly Installment	5 Monthly Installment	5 Monthly Installment	5 Monthly Installment	5 Monthly Installment	5 Monthly Installment	5 Monthly Installment	5 Monthly Installment	5 Monthly Installment	5 Monthly Installment	
Repayment Installment												
Base Exchange Rate												
Are foreign currency loan hedged												
If above is yes, specify details												

* Petitioner had securitised its existing loan from 29.03.2014. The above mentioned loans were fully repaid on 28.03.2014 and new loans were disbursed in the two parts namely Loans A and Loans B, the details of which are being submitted in separate Form 7A & 7B.

Note: 1 - Interest rates for disbursement during moratorium period are subject to reset after commissioning of the Karcham Wangtoo HEP.

Note: 2 - Reset Interest Rates after commissioning are further subject to reset on yearly basis

Repayment Schedule attached as Enclosure - 1 to Form - 7

Not Applicable
Not Applicable



Details of Project Specific Loans (Loans A)

Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karchem, Wangto Hydro-Electric Plant

Particulars	Package1	Package2	Package3	Package4	Package5	Package6	Package7	Package8	Package9	Package10
Source of Loan	Allahabad Bank	Union Bank of India	ICICI Bank Ltd.	Indian Renewable Energy Development Agency Limited (IREDA)	L&T Infrastructure Finance Company Limited	Life Insurance Corporation of India (LIC)	Power Finance Corporation Limited	PTC Financial Services Limited		Infrastructure Development Finance Company Limited
Currency	Indian Rupee	Indian Rupee	Indian Rupee	Indian Rupee	Indian Rupee	Indian Rupee	Indian Rupee	Indian Rupee		Indian Rupee
Amount of Loan sanctioned	34,667	25,000	22,938	22,938	22,900	37,500	1,15,000	15,021		1,19,390
Amount of Gross Loan drawn as on 31.03.2014	34,662	25,000	22,938	22,938	22,900	37,500	1,15,000	15,021		1,19,336
Interest Type*	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed		Fixed
Fixed Interest Rate, if applicable (as on 31.03.2014)	12.75%	12.75%	12.75%	12.75%	12.75%	12.75%	12.75%	12.75%		12.75%
Base Rate, if Floating Interest	-	-	-	-	-	-	-	-		-
Margin, if Floating Interest	-	-	-	-	-	-	-	-		-
Are there any Caps/Floors?	No	No	No	No	No	No	No	No		No
If above is yes, specify upper/lower	-	-	-	-	-	-	-	-		-
Maturity Period	29.03.2014 to 15.06.2017	29.03.2014 to 15.06.2017	29.03.2014 to 15.06.2017	29.03.2014 to 15.06.2017	29.03.2014 to 15.06.2017	29.03.2014 to 15.06.2017	29.03.2014 to 15.06.2017	29.03.2014 to 15.06.2017		29.03.2014 to 15.06.2017
Maturity effective from	29.03.2014	29.03.2014	29.03.2014	29.03.2014	29.03.2014	29.03.2014	29.03.2014	29.03.2014		29.03.2014
Repayment Period	18 years	18 years	18 years	18 years	18 years	18 years	18 years	18 years		18 years
Repayment effective from	15.06.2017	15.06.2017	15.06.2017	15.06.2017	15.06.2017	15.06.2017	15.06.2017	15.06.2017		15.06.2017
Repayment Frequency	5 Monthly Installment	5 Monthly Installment	5 Monthly Installment	5 Monthly Installment	5 Monthly Installment	5 Monthly Installment	5 Monthly Installment	5 Monthly Installment		5 Monthly Installment
Repayment Installment										
Base Exchange Rate										
Are foreign currency loan hedged ?										
If above is yes, specify details										

*The Interest rates are subject to reset on yearly basis

Petitioner has refinanced its existing loan during Sep-Oct 2015. The above mentioned loans were fully repaid on 31.10.2015 and new loans were disbursed, the details of which are being submitted in separate Form 7C



Details of Project Specific Loans (Loans B)

Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Particulars	Package1	Package2	Package3	Package4	Package5	Package6	Package7	Package8
	2	3	4	5	6	7	8	9
Source of Loan	ICICI Bank Ltd.	Indian Renewable Energy Development Agency Limited (IREDA)	L&T Infrastructure Finance Company Limited	Life Insurance Corporation of India (LIC)	Power Finance Corporation Limited	PTC Financial Services Limited	Infrastructure Development Finance Company Limited	IFCI
Currency	Indian Rupee	Indian Rupee	Indian Rupee	Indian Rupee	Indian Rupee	Indian Rupee	Indian Rupee	Indian Rupee
Amount of Loan sanctioned	7,062	7,062	7,100	12,500	35,000	4,979	43,997	20,000
Amount of Gross Loan drawn 31.03.2014	7,062	7,062	7,100	12,500	35,000	4,979	43,997	20,000
Interest Type*	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
Fixed Interest Rate, if applicable (as on 31.03.2014)	12.75%	12.75%	12.75%	12.75%	12.75%	12.75%	12.75%	13.75%
Base Rate, if Floating Interest	-	-	-	-	-	-	-	-
Margin, if Floating Interest	-	-	-	-	-	-	-	-
Are there any Caps/Floor	No	No	No	No	No	No	No	No
If above is yes, specify caps/floor	-	-	-	-	-	-	-	-
Moreatorium Period	29.03.2014 to 15.06.2014	29.03.2014 to 15.06.2014	29.03.2014 to 15.06.2014	29.03.2014 to 15.06.2014	29.03.2014 to 15.06.2014	29.03.2014 to 15.06.2014	29.03.2014 to 15.06.2014	29.03.2014 to 15.06.2014
Moreatorium effective from	29.03.2014	29.03.2014	29.03.2014	29.03.2014	29.03.2014	29.03.2014	29.03.2014	29.03.2014
Repayment Period	7 years	7 years	7 years	7 years	7 years	7 years	7 years	7 years
Repayment effective from	15.06.2014	15.06.2014	15.06.2014	15.06.2014	15.06.2014	15.06.2014	15.06.2014	15.06.2014
Repayment Frequency	5 Monthly Installment	5 Monthly Installment	5 Monthly Installment	5 Monthly Installment	5 Monthly Installment	5 Monthly Installment	5 Monthly Installment	5 Monthly Installment
Repayment Installment								
Base Exchange Rate	Not Applicable							
Are foreign currency loan hedged ?	Not Applicable							
If above is yes, specify details	Not Applicable							



*Interest Rates are subject to reset on yearly basis.
Petitioner has refinanced its existing loan during Sep-Oct2015. The above mentioned loans were fully repaid on 31.10.2015 and new loans were disbursed, the details of which are being submitted in separate Form 7C.

Details of Project Specific Loans (Loan C- Re-financed)

Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Particulars	(Rs. in lacs)									
	Package1	Package2	Package3	Package4	Package5	Package6	Package7	Package8	Package9	Package10
Source of Loan	State Bank of India	Syndicate Bank	Central Bank of India	Allahabad Bank	Vijaya bank	L & T Infra	Punjab National Bank	Aziz Bank	State Bank of India (Formerly State Bank of Hyderabad)	
Currency	Indian Rupee	Indian Rupee	Indian Rupee	Indian Rupee	Indian Rupee	Indian Rupee	Indian Rupee	Indian Rupee	Indian Rupee	Indian Rupee
Amount of Loan sanctioned	3,49,700	59,700	59,700	39,800	39,800	39,800	31,700	23,900	15,900	
Amount of Gross Loan drawn as on 31.03.2019	3,49,700	59,700	59,700	39,800	39,800	39,800	31,700	23,842	15,900	
Interest Type*	Floating	Floating	Floating	Floating	Floating	Floating	Floating	Floating	Floating	Floating
Fixed Interest Rate, if applicable (as on 31.03.2019)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Base Rate, if Floating Interest (SBI 1 year MCLR as on 31.3.2019)	8.15%	8.15%	8.15%	8.15%	8.15%	8.15%	8.15%	8.15%	8.15%	8.15%
Marginal, if Floating Interest	0.85%	0.85%	0.85%	0.85%	0.85%	0.85%	0.85%	0.85%	0.85%	0.85%
Are there any Caps/Floor	No	No	No	No	No	No	No	No	No	No
If above is yes, specify caps/floor	-	-	-	-	-	-	-	-	-	-
Moratorium Period	No	No	No	No	No	No	No	No	No	No
Moratorium effective from	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Repayment Period	15 years	15 years	15 years	15 years	15 years	15 years	15 years	15 years	15 years	15 years
Repayment effective from	30.6.2016	30.6.2016	30.6.2016	30.6.2016	30.6.2016	30.6.2016	30.6.2016	30.6.2016	30.6.2016	30.6.2016
Repayment Frequency	5 Monthly Installment	5 Monthly Installment	5 Monthly Installment	5 Monthly Installment	5 Monthly Installment	5 Monthly Installment	5 Monthly Installment	5 Monthly Installment	5 Monthly Installment	5 Monthly Installment
Repayment Installment										
Base Exchange Rate										
Are foreign currency loan hedged ?										
If above is yes, specify details										
*Interest Rates are subject to annual reset as per prevailing MCLR.										
Petitioner has refinanced its existing loan during Sep-Oct 2015. The above mentioned loans are the refinanced loans against the old existing loans.										
Base rate: Aforesaid T/L interest rates are as per SBI repricing letter dt. 23.5.18. Said rates are revised during 2019-20 on 23.5.2019 to 8.45% + 0.85% = 9.30%										
Repayment Schedule attached as Enclosure - 1 to Form - 7										
Not Applicable										
Not Applicable										



Details of Project Specific Loans (Loan D- Forex loans)

Name of the Petitioner : JSW Hydro Energy Limited

Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Particulars	Package1
1	2
Source of Loan	Green Bonds
Currency	USD
Amount of Loan sanctioned	707 Million
Amount of Gross Loan drawn as on 31.03.2024	707 Million
Interest Type*	Fixed
Fixed Interest Rate, if applicable (as on 31.03.2024)	8.035%
Base Rate, if Floating Interest (SBI 1 year MCLR as on 31.3.2019)	NA
Margin, if Floating Interest	NA
Are there any Caps/Floor	NA
If above is yes, specify caps/floor	NA
Moratorium Period	NA
Moratorium effective from	NA
Repayment Period	10 Years
Repayment effective from	18-11-21
Repayment Frequency	Half Yearly installment
Repayment Installment	As er schedule attached
Base Exchange Rate	NA
Are foreign currency loan hedged ?	Yes
If above is yes, specify details	*

Petitioner has refinanced its existing loan during May2021 with aforesaid Forex loans. The above mentioned Forex loans are the refinanced loans against the old INR loans.

* Above ineterst rate of 8.035% is inclusive of hedging rate of 3.6565% p.a.



Enclosure to FORM- 7D

Repayment Schedule (Loan D- Forex loans)

Name of the Petitioner : JSW Hydro Energy Limited

Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

MCS amortisation redemption date				MCS Amount (US \$)	
				Repayment	Balance
May	18	2021	Drawal		70,70,00,000
November	18	2021		2,47,45,000	68,22,55,000
May	18	2022		3,18,15,000	65,04,40,000
November	18	2022		2,47,45,000	62,56,95,000
May	18	2023		3,18,15,000	59,38,80,000
November	18	2023		2,47,45,000	56,91,35,000
May	18	2024		3,18,15,000	53,73,20,000
November	18	2024		1,59,07,500	52,14,12,500
May	18	2025		1,94,42,500	50,19,70,000
November	18	2025		1,06,05,000	49,13,65,000
May	18	2026		1,23,72,500	47,89,92,500
November	18	2026		1,06,05,000	46,83,87,500
May	18	2027		1,41,40,000	45,42,47,500
November	18	2027		1,32,56,250	44,09,91,250
May	18	2028		1,32,56,250	42,77,35,000
November	18	2028		1,50,23,750	41,27,11,250
May	18	2029		1,50,23,750	39,76,87,500
November	18	2029		1,67,91,250	38,08,96,250
May	18	2030		1,67,91,250	36,41,05,000
November	18	2030		70,70,000	35,70,35,000
May	18	2031		35,70,35,000	-
			Total	70,70,00,000	



**PART II
FORM 8**

Details of allocation of corporate loans to various projects

Name of the Petitioner : JSW Hydro Energy Limited
 Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Particulars	(Rs. in Lacs)						
	Package 1	Package 2	Package 3	Package 4	Package 5	Package 6	Package 7
Source of Loan							
Currency ⁷							
Amount of Loan sanctioned							
Amount of Gross Loan drawn upto 31.3.2019 /COD							
Interest Type ⁶							
Fixed Interest Rate, if applicable							
Base Rate, if Floating Interest ⁷							
Margin, if Floating Interest ⁸							
Are there any Caps/Floor ⁹							
If above is yes, specify caps/floor							
Moratorium Period ¹⁰							
Moratorium effective from							
Repayment Period ¹¹							
Repayment effective from							
Repayment Frequency ¹²							
Repayment Instalment ^{13,14,15}							
Base Exchange Rate ¹⁶							
Are foreign currency loan hedged?							
If above is yes, specify details ¹⁷							
NOT APPLICABLE							
Distribution of loan packages to various projects							
NOT APPLICABLE							



Year wise Statement of Additional Capitalisation after COD (FY 2019-20)

Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant
COD : 13.09.2011 (Project)
For Financial Year : 2019-20

Rs. In Lakh

Sl. No.	Head of Work / Equipment	ACE Claimed (Actual / Projected)				Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3			
1	2	3	4	5 = 4 - 3	6	7	8	9
1	Project Work - Land	1,089.41	1,089.41	-				
2	Project Work - Environment & Ecology	1,732.52	1,732.21	0.30			Within Original Scope of Work *	
3	Project Work - LADA	1,107.92	720.93	386.99		14		
	Sub Total	3,929.84	3,542.55	387.29				
4	Additional capital expenditure for increase in plant efficiency							
i	XLPE Cable temperature monitoring system	80.00	80.00	-				
ii	Beam Detector	8.00	-	8.38				
iii	Guide Vanes	930.00	649.75	280.25				
iv	Various machinery, equipment & vehicles	557.00	531.72	25.28				
v	Kilbit Township (Permanent residential staff Qtrs)	1,500.00	1,500.00	-				In principle approved vide order dt. 17.3.2022 in petition no. 391/GT/2019
vi	Sholu Township (Permanent residential staff Qtrs)	1,600.00	1,600.00	-			Within original scope and after cut off date, under Reg. 25 (2) (a), 25 (2) (c) & 26 (1) (d)	
	Sub Total	4,675.00	4,361.47	313.91				

* Undischarged liabilities of previous tariff period (2014-19) brought forward



Year wise Statement of Additional Capitalisation after COD (FY 2020-21)

Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant
COD : 13.09.2011 (Project)
For Financial Year : 2020-21

Rs. In Lakh

Sl. No.	Head of Work / Equipment	ACE Claimed (Actual / Projected)				Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3			
1	2	3	4	5 = 4 - 3	6	7	8	9
1	Project Work - Land	1,089.41	1,089.41	-				
2	Project Work - Environment & Ecology	1,732.21	1,731.55	0.66		14	Within Original Scope of Work.*	
3	Project Work - LADA	720.93	720.93	-				
	Sub Total	3,542.55	3,541.88	0.66				
4	Entry tax							
	Allowed by Hon'ble commission in para 42 of the True up order dt. 17.3.2022	1,529.00		1,529.00				
5	Additional capital expenditure for increase in plant efficiency							
i	XLPE Cable temperature monitoring system	80.00	80.00	-				
iii	Guide Vanes	649.75	649.75	-				
iii	Various machinery, equipment & vehicles	531.72	495.77	35.95				
iv	Kilba Township (Permanent residential staff Qtrs)	1,500.00	1,500.00	-				
v	Sholtu Township (Permanent residential staff Qtrs)	1,600.00	1,400.65	199.35				
	Sub Total	4,361.47	4,126.17	235.30				
								In principle approved vide order dt. 17.3.2022 in petition no. 391/GT/2019
								Within original scope and after cut off date, under Reg. 25 (2) (a), 25 (2) (c) & 26 (1) (d)

* Undischarged liabilities of previous tariff period (2014-19) brought forward



Year wise Statement of Additional Capitalisation after COD (FY 2021-22)

Name of the Petitioner : JSW Hydro Energy Limited
 Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant
 COD : 13.09.2011 (Project)
 For Financial Year : 2021-22

Rs. In Lakh

Sl. No.	Head of Work / Equipment	ACE Claimed (Actual / Projected)			Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis	Un-discharged Liability included in col. 3	Cash basis			
1	2	3	4	5 = 4 - 3	7	8	9
1	Project Work - Land	1,089.41	1,089.41	-			
2	Project Work - Environment & Ecology	1,731.55	1,728.56	2.99	14	Within Original Scope of Work	
3	Project Work - LADA	720.93	720.93	-			
	Sub Total	3,541.88	3,538.89	2.99			
4	Additional capital expenditure for increase in plant efficiency						
	i) XLPE Cable temprature monitoring system	80.00	20.00	60.00			
	ii) Guide Vanes	649.75	649.75	-			
	iii) Various machinery, equipment & vehicles	495.77	384.61	111.16		Within original scope and after cut off date, under Reg. 25 (2) (a), 25 (2) (c) & 26 (1) (d)	In principle approved vide order dt. 17.3.2022 in petition no. 391/GT/2019
	iv) Kilba Township (Permanant residential staff Qtrs)	1,500.00	-	1,555.90			
	v) Sholhu Township (Permanant residential staff Qtrs)	1,400.65	563.64	837.01			
	Sub Total	4,126.17	1,618.00	2,564.07			

* Undischarged liabilities of previous tariff period (2014-19) brought forward



Year wise Statement of Additional Capitalisation after COD (FY 2022-23)

Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant
COD : 13.09.2011 (Project)
For Financial Year : 2022-23

Rs. in Lakh

Sl. No.	Head of Work / Equipment	ACE Claimed (Actual / Projected)				Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual baals	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3			
1	2	3	4	5 = 4 - 3	6	7	8	9
1	Project Work - Land	1,089.41	1,089.41	-				
2	Project Work - Environment & Ecology	1,728.56	1,728.56	-		14	Within Original Scope of Work	
3	Project Work - LADA	720.93	540.93	180.00				
	Sub Total	3,538.89	3,358.89	180.00				
4	Additional capital expenditure for increase in plant efficiency							
i	Guide Vanes	649.75	649.75	-				
ii	Various machinery, equipment & vehicles	384.61	206.59	178.02				
iii	Sholtn Township (Permanent residential staff Otrs)	563.64	563.64	-				
	Sub Total	1,598.00	1,419.98	178.02				
								In principle approved vide order dt. 17.3.2022 in petition no.

* Undischarged liabilities of previous tariff period (2014-19) brought forward



Year wise Statement of Additional Capitalisation after COD (FY 2023-24)

Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant
COD : 13.09.2011 (Project)
For Financial Year : 2023-24

Rs. In Lakh

Sl. No.	Head of Work / Equipment	ACE Claimed (Actual / Projected)				Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
		Accrual basis	Un-discharged Liability included in col. 3	Cash basis	IDC Included in col. 3			
1	2	3	4	5=4-3	6	7	8	9
1	Project Work - Land	1,089.41	1,089.41	-				
2	Project Work - Environment & Ecology	1,728.56	1,728.56	-		14	Within Original Scope of Work	
3	Project Work - LADA	540.93	540.93	-				
	Sub Total	3,358.89	3,358.89	-				
4	Additional capital expenditure for increase in plant efficiency							
i	Guide Vanes **	649.75	649.75	-				
ii	Various machinery, equipment & vehicles	206.59	-	248.11				
iii	Sholtu Township (Permanent residential staff Qtrs) #	563.64	111.33	452.31				In principle approved vide order dt. 17.3.2022 in petition no. 391/GT/2019
	Sub Total	1,419.98	761.08	700.42				

* Undischarged liabilities of previous tariff period (2014-19) brought forward

** Material for Guide vanes had been received at site during Mar-April'24, will be part of additional capitalisation during the FY 2024-25

Work is already in progress for balance work of approx 5.25 acre and is expected to be completed in FY 2024-25



**PART-II
FORM-9B**

Statement of Additional Capitalisation during end of the Project

Name of the Petitioner : JSW Hydro Energy Limited
 Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant
 COD : 13.09.2011 (Project)

Sr. No.	Year	Work/Equipment added during last five years of useful life of each unit/Station	Amount capitalised / Proposed to be capitalised (Rs Lakh)	Justification for capitalisation proposed	Impact on life extension
1	2	3	4	5	6
NOT APPLICABLE					

Note:-

1. Cost Benefit analysis for capital additions done should be submitted along with petition for approval of such schemes
2. Justification for additional capital expenditure claim for each asset should be relevant to regulation under which claim and the necessity of capitalization of the asset



PART-II
FORM-9Bi

Details of Assets De-capitalized during the period

Name of the Petitioner : JSW Hydro Energy Limited
 Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant
 Region : Northern District : Kinnaur State : Himachal Pradesh

Rs. In Lakh

Sr. No.	Name of the Asset	Nature of de-capitalization (whether claimed under exclusion or as additional capital expenditure)	Original Value of the Asset Capitalised	Year Put to use	Year of Decapitalisation	Depreciation recovered till date of decapitalization
1	2	3	4	5	6	7
1	XLPE Cable temprature monitoring system	As an Addl. Capex	81.53	2010-11	2021-22	59.79
2	Guide Vanes	As an Addl. Capex	211.76	2010-11	2019-20	155.29
3	Various machinery, equipment & vehicles					
			1.42	2002-03	2021-22	1.40
			7.97	2005-06	2021-22	7.95
			11.00	2006-07	2021-22	10.98
			8.89	2007-08	2021-22	8.87
			35.83	2007-08	2022-23	35.75
			9.00	2008-09	2022-23	8.55
			1.34	1997-98	2022-23	1.31
			1.34	1999-00	2022-23	1.31
			3.00	1997-98	2019-20	2.93
			11.32	2001-02	2021-22	11.10
			86.69	2010-11	2023-24	63.57
			26.01	2011-12	2023-24	19.07
4	Kilba Township (Temp. residential staff Qtrs)	As an Addl. Capex	70.48	2008-09	2021-22	61.72
5	Sholhu Township (Temp. residential staff Qtrs)	As an Addl. Capex				
			567.59			449.60

Year wise Decapitalisation:	Original Value	Depreciation recovered
2019-20	214.76	158.22
2020-21		
2021-22	192.62	161.82
2022-23	47.51	46.91
2023-24	112.70	82.64
	567.59	449.60
2024-25	423.52	310.58
2025-26	117.79	95.99
	1,108.90	856.18



Note: Year wise detail need to be submitted.

Details of Assets De-capitalized during the period

Name of the Petitioner : JSW Hydro Energy Limited

Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Sr. No.	Name of the Asset	Nature of de-capitalization (whether claimed under exclusion or as additional capital expenditure)	Original Value of the Asset Capitalised	Year Put to use	Depreciation recovered till date of de-capitalization *	
1	2	3	4	5	6	
2019-20	Guide vanes	Claimed as additional expenditure against assets decapitalised	2,11,76,091	2010	1,55,29,134	
2019-20	DG Welding Machine		3,00,000	1997	2,93,207	
			2,14,76,091		1,58,22,341	
2021-22	Bolero Camper (HP26A-0530)			1,42,302	2002	1,40,320
2021-22	XLPE Cable temperature monitoring system.			81,53,705	2010	59,79,384
2021-22	Bolero ZLX (HP51A-9099)			4,16,018	2005	4,15,233
2021-22	Bolero ZLX (HP26A- 0444)			4,16,018	2006	4,15,253
2021-22	Bolero ZLX (HP26A- 0670)			4,28,158	2007	4,27,014
2021-22	Bolero ZLX (HP26A- 2032)			4,60,963	2007	4,59,695
2021-22	Buidling at Sholtu & Kilba			70,48,305	2008	61,71,071
2021-22	Maruti Baleno (HP26A-0450)			6,84,000	2006	6,83,234
2021-22	JCB excavator			9,66,160	2001	9,44,423
2021-22	Truck - Tata 1613 (HP26A-0880)			1,66,083	2001	1,65,626
2021-22	Bolero Camper (HP26A-0294)			1,90,539	2005	1,90,015
2021-22	Bolero Camper (HP26A-0295)			1,90,539	2005	1,90,015
				1,92,62,790		1,61,81,283
2022-23	Fork lift 5ton			4,50,000	2008	4,27,500
2022-23	Fork lift 3ton			4,50,000	2008	4,27,500
2022-23	Truck -Tata (407)			1,33,886	1997	1,30,874
2022-23	Truck -Tata (407)			1,33,886	1999	1,30,874
2022-23	Toyota Innova (HP26A-2113)			10,87,000	2007	10,85,296
				22,54,772		22,02,044
2023-24	Bolero ZLX (HP26A- 0672)			4,16,018	2007	4,14,841
2023-24	Bolero ZLX (HP26A- 0668)			4,16,018	2007	4,14,874
2023-24	Bolero ZLX (HP26A- 0665)			4,16,018	2007	4,14,879
2023-24	Bolero ZLX (HP26A- 0667)			4,16,078	2007	4,14,934
2023-24	Bolero ZLX (HP26A- 0669)			4,16,078	2007	4,14,934
2023-24	Bolero ZLX (HP26A- 0673)			4,16,078	2007	4,14,901
2023-24	Human Machine Interface (HMI)			8,66,897	2010	6,35,724
				8,66,897	2010	6,35,724
				8,66,897	2010	6,35,724
2023-24	Vibration monitoring system			21,67,242	2010	15,89,311
				21,67,242	2010	15,89,311
				21,67,242	2010	15,89,311
			21,67,242	2010	15,89,311	
			1,37,65,947		1,07,53,779	
	Total for control period 2019-24		5,67,59,600		4,49,59,447	
2024-25	Guide vanes		2,11,76,091	2010	1,55,29,134	
2024-25	Guide vanes		2,11,76,091	2010	1,55,29,134	
			4,23,52,182		3,10,58,268	
2025-26	Partial Discharge measurement system		21,67,242	2010	15,89,311	
2025-26	Fire Fighting tender (HP26A-0632)		22,03,839	1999	22,00,755	
2025-26	Wheel Loader		42,07,500	1988	27,69,404	
2025-26	Mobile crane 28 ton		32,00,000	2007	30,40,000	
	Total		1,17,78,581		95,99,470	



PART-II
FORM-9C

Statement showing reconciliation of ACE claimed with the capital additions as per books

Name of the Petitioner : JSW Hydro Energy Limited
 Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant
 COD : 13.09.2011 (Project)

Sr. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	Closing Gross Block a per IND AS	6,61,139.84	6,62,904.81	6,65,279.25	6,65,589.76	6,66,177.48
2	Add/Less: Adjustments	-	-	-	-	-
3	Closing Gross Block a per IGAAP	6,61,139.84	6,62,904.81	6,65,279.25	6,65,589.76	6,66,177.48
4	Opening Gross Block as per IND AS	6,60,653.40	6,61,139.84	6,62,904.81	6,65,279.25	6,65,589.76
5	Add/Less: Adjustments	-	-	-	-	-
6	Opening Gross Block a per IGAAP	6,60,653.40	6,61,139.84	6,62,904.81	6,65,279.25	6,65,589.76
7	Total Additions as per books (7=3-6)	486.44	1,764.96	2,374.44	310.51	587.72
8	Less: Additions pertaining to other Stages (give Stage wise breakup)	-	-	-	-	-
9	Net Additions pertaining to instant project/Unit/Stage	486.44	1,764.96	2,374.44	310.51	587.72
10	Less: Exclusions (items not allowable / not claimed)	-	-	-	-	-
11	Net Additional Capital Expenditure Claimed (on accrual basis)	486.44	1,764.96	2,374.44	310.51	587.72
12	Less: Undischarged liabilities	-	-	-	-	-
13	Add: Discharges of un-discharged liabilities, corresponding to admitted assets/works	-	-	-	-	-
14	Net Additional Capital Expenditure Claimed (on cash basis)	486.44	1,764.96	2,374.44	310.51	587.72

Note: Reason for exclusion of any expenditure shall be given in Clear terms



**PART-II
FORM-9D**

Statement showing items/assets/works claimed under Exclusions:

Name of the Petitioner : JSW Hydro Energy Limited
 Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant
 COD : 13.09.2011 (Project)

Sr. No.	Head of Work / Equipment	ACE Claimed under Exclusion				Justification
		Accrual basis	Undischarged Liability included in col. 3	Cash basis	IDC included in col. 3	
1	2	3	4	5=(3-4)	6	7
NOT APPLICABLE						

- Note: 1. Exclusions claimed on assets not allowed in Tariff should be supported by the specific reference of Commission Order date, Petition No., amount disallowed, etc..
2. For inter unit transfer i.e. temporary or permanent should be mentioned. It is to be certified that exclusion sought in receiving station only and not in sending station or in both the station.



Name of the Petitioner: JSW Hydro Energy Limited
Name of the Generating Station: Keshavnagar Hydro-Electric Plant

Statement of Capital cost.

S.No.	PARTICULARS	2019-20		2020-21		2021-22		2022-23		2023-24						
		Accrual basis 3	Un discharged liabilities 4	Cash Basis 5	Un discharged liabilities 7	Accrual basis 6	Cash Basis 8	Un discharged liabilities 10	Accrual basis 9	Cash Basis 11	Un discharged liabilities 13	Accrual basis 12	Cash Basis 14	Un discharged liabilities 16	Accrual basis 15	Cash Basis 17
A	a) Operating Gross Block Amount *	6,60,453.40	-	6,60,453.40	-	6,60,453.40	-	6,60,453.40	-	6,60,453.40	-	6,60,453.40	-	6,60,453.40	-	6,60,453.40
	b) Amount of IDC in A(a) above *	96,488.62	-	96,488.62	-	96,488.62	-	96,488.62	-	96,488.62	-	96,488.62	-	96,488.62	-	96,488.62
	c) Amount of FC in A(a) above *	7,098.00	-	7,098.00	-	7,098.00	-	7,098.00	-	7,098.00	-	7,098.00	-	7,098.00	-	7,098.00
	d) Amount of FERV in A(a) above	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	e) Amount of Hedging cost in A(a) above	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	f) Amount of IEDC in A(a) above **	37,455.17	-	37,455.17	-	37,455.17	-	37,455.17	-	37,455.17	-	37,455.17	-	37,455.17	-	37,455.17
B	a) Addition in Gross Block Amount during the period (Direct purchase)	701.20	387.29	313.91	0.66	1,764.30	2,867.06	2,564.07	192.62	192.62	47.51	112.70	47.51	112.70	47.51	112.70
	b) Amount of IDC in B(a) above	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	c) Amount of FC in B(a) above	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	d) Amount of FERV in B(a) above	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	e) Amount of Hedging cost in B(a) above	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	f) Amount of IEDC in B(a) above	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C	a) Addition in Gross Block Amount during the period (Transferred from CMP)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	b) Amount of IDC in C(a) above	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	c) Amount of FC in C(a) above	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	d) Amount of FERV in C(a) above	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	e) Amount of Hedging cost in C(a) above	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	f) Amount of IEDC in C(a) above	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D	a) Deletion in Gross Block Amount during the period	214.76	-	214.76	-	-	-	-	-	-	-	-	-	-	-	-
	b) Amount of IDC in D(a) above	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	c) Amount of FC in D(a) above	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	d) Amount of FERV in D(a) above	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	e) Amount of Hedging cost in D(a) above	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	f) Amount of IEDC in D(a) above	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E	a) Change Gross Block Amount in net books	6,61,159.64	387.29	6,60,752.85	387.96	6,62,220.26	350.05	6,64,084.30	370.05	6,65,939.26	370.05	6,67,774.61	370.05	6,69,600.53	370.05	6,71,455.17
	b) Amount of IDC in E(a) above	96,488.62	-	96,488.62	-	96,488.62	-	96,488.62	-	96,488.62	-	96,488.62	-	96,488.62	-	96,488.62
	c) Amount of FC in E(a) above	7,098.00	-	7,098.00	-	7,098.00	-	7,098.00	-	7,098.00	-	7,098.00	-	7,098.00	-	7,098.00
	d) Amount of FERV in E(a) above	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	e) Amount of Hedging cost in E(a) above	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	f) Amount of IEDC in E(a) above	37,455.17	-	37,455.17	-	37,455.17	-	37,455.17	-	37,455.17	-	37,455.17	-	37,455.17	-	37,455.17

* Capital cost as on 31.3.2019 is as approved by Honble CERC in Para 67 of the True up order dt. 17.3.2022
** IDC, FC & IEDC as claimed and approved in petition no. 391/GT/2019



Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karchham Wangtoo Hydro-Electric Plant

Statement of Capital Works in Progress

S.No.	PARTICULARS	2019-20				2020-21				2021-22				2022-23				2023-24			
		Accrual Basis	Un discharged liabilities	Cash Basis	Un discharged liabilities	Accrual Basis	Un discharged liabilities	Cash Basis	Un discharged liabilities	Accrual Basis	Un discharged liabilities	Cash Basis	Un discharged liabilities	Accrual Basis	Un discharged liabilities	Cash Basis	Un discharged liabilities				
NOT APPLICABLE																					
A	Opening CWIP as per books																				
	b) Amount of IDC in A(a) above																				
	c) Amount of FC in A(b) above																				
	d) Amount of FERV in A(c) above																				
	e) Amount of Hedging Cost in A(d) above																				
	f) Amount of IEDC in A(e) above																				
B	Acquisition in CWIP during the period																				
	b) Amount of IDC in A(f) above																				
	c) Amount of FC in A(g) above																				
	d) Amount of FERV in A(h) above																				
	e) Amount of Hedging Cost in A(i) above																				
	f) Amount of IEDC in A(j) above																				
	g) Transferred to Gross Block Amount during the period																				
C	Amount of IDC in A(k) above																				
	b) Amount of FC in A(l) above																				
	c) Amount of FERV in A(m) above																				
	d) Amount of Hedging Cost in A(n) above																				
	e) Amount of IEDC in A(o) above																				
D	Disposal in CWIP during the period																				
	b) Amount of IDC in A(p) above																				
	c) Amount of FC in A(q) above																				
	d) Amount of FERV in A(r) above																				
	e) Amount of Hedging Cost in A(s) above																				
	f) Amount of IEDC in A(t) above																				
E	Closing CWIP as per books																				
	b) Amount of IDC in A(u) above																				
	c) Amount of FC in A(v) above																				
	d) Amount of FERV in A(w) above																				
	e) Amount of Hedging Cost in A(x) above																				
	f) Amount of IEDC in A(y) above																				



Financing of Additional Capitalisation

Name of the Petitioner : JSW Hydro Energy Limited
 Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant
 Date of Commercial Operation : 13.09.2011

Financial Year (Starting from COD)	(Rs. in lacs)			
	2019-20	2020-21	2021-22	2022-23
1	2	3	4	5
Amount capitalised in Work/Equipment				9
Financing Details	No separate financing for additional capitalisation			
Loan-1				
Loan-2				
Loan-3 and so on				
Total Loan ²				
Equity				
Internal Resources				
Others				
Total				



Name of the Debtor : JSW Hydro Energy Limited
Name of the Generating Station : Korcham Wanatoo Hydro-Electric Plant

S.No.	Name of the Assets	Depn. Rates as per GSCC's Depn. Rate Schedule	Gross Block as on 31.3.2019	Depreciation Amount	Gross Block as on 31.3.2020	Depreciation Amount	Gross Block as on 31.3.2021	Depreciation Amount	Gross Block as on 31.3.2022	Depreciation Amount	Gross Block as on 31.3.2023	Depreciation Amount	Gross Block as on 31.3.2024	Depreciation Amount
A	1 Land under full ownership Land under lease (0.9513 hect.) Land other than solar reservoir (4.5103 hect.) Land under lease (a) for investment in the land	2 3.34% 0.09% 3.34%	3 2,488.44 266.42 2,200.02 1,278.66	4= Col.2 X Col.3 9.63 - - 42.71	5 2,488.44 266.42 2,200.02 1,278.66	6= Col.2 X Col.5 9.63 - - 42.71	7 2,488.44 266.42 2,200.02	8= Col.2 X Col.7 9.63	9 2,488.44 266.42 2,200.02	10= Col.2 X Col.9 9.63	11 2,488.44 266.42 2,200.02	12= Col.2 X Col.11 9.63	13 2,488.44 266.42 2,200.02	14= Col.2 X Col.13 9.63
C	Assets purchased by													
(a)	Plant and Machinery in generating stations													
(b)	Hydro electric	5.28%	1,51,251.94	7,865.10	1,51,251.94	7,865.10	1,51,251.94	7,865.10	1,51,251.94	7,865.10	1,51,251.94	7,865.10	1,51,251.94	7,865.10
(b)	Hydraulic works forming part of the Hydro													
(c)	Dams, Spillways, weirs, Canals, Reinforced concrete tunnels and syphons	5.28%	46,808.06	4,680.81	46,808.06	4,680.81	46,808.06	4,680.81	46,808.06	4,680.81	46,808.06	4,680.81	46,808.06	4,680.81
(d)	Reinforced concrete pipelines and surge tanks, steel pipelines, surge tanks, steel surge tanks, hydraulic surge valves and hydraulic works	5.28%	3,61,632.25	19,094.18	3,61,632.25	19,094.18	3,61,632.25	19,094.18	3,61,632.25	19,094.18	3,61,632.25	19,094.18	3,61,632.25	19,094.18
(e)	Building & Civil Engineering works of a	1.14%												
(f)	Containing hydro-electric generating plant	3.34%	25,657.49	856.96	25,657.49	856.96	25,657.49	856.96	25,657.49	856.96	25,657.49	856.96	25,657.49	856.96
(g)	Others		3,217.87	107.48	3,217.87	107.48	3,217.87	107.48	3,217.87	107.48	3,217.87	107.48	3,217.87	107.48
(d)	Transformers, Glink, substation equipment & other fixed apparatus (including plant)													
(e)	Transformers including foundations having rating of 100 KV.A and over	5.28%	7,307.32	385.83	7,307.32	385.83	7,307.32	385.83	7,307.32	385.83	7,307.32	385.83	7,307.32	385.83
(f)	Substation including cable connections	5.28%	36,047.87	2,008.93	36,047.87	2,008.93	36,047.87	2,008.93	36,047.87	2,008.93	36,047.87	2,008.93	36,047.87	2,008.93
(g)	Lighting arrester													
(h)	Substation	5.28%	373.39	19.71	373.39	19.71	373.39	19.71	373.39	19.71	373.39	19.71	373.39	19.71
(i)	Batteries	5.28%	465.91	24.60	465.91	24.60	465.91	24.60	465.91	24.60	465.91	24.60	465.91	24.60
(j)	Communication equipment													
(k)	Radio and high frequency carrier system	6.33%	2,014.11	127.49	2,014.11	127.49	2,014.11	127.49	2,014.11	127.49	2,014.11	127.49	2,014.11	127.49
(l)	Self propelled vehicles	6.50%	71.17	6.76	71.17	6.76	71.17	6.76	71.17	6.76	71.17	6.76	71.17	6.76
(m)	Air Conditioning Plants													
(n)	Stairs													
(o)	Office furniture and furnishing	5.28%	924.89	48.83	924.89	48.83	924.89	48.83	924.89	48.83	924.89	48.83	924.89	48.83
(p)	Office Equipment	6.33%	16.96	1.07	16.96	1.07	16.96	1.07	16.96	1.07	16.96	1.07	16.96	1.07
(q)	Office Equipment	6.33%	214.55	13.58	214.55	13.58	214.55	13.58	214.55	13.58	214.55	13.58	214.55	13.58
	TOTAL		6,83,771.9	35,423.0	6,83,771.9	35,423.0	6,83,771.9	35,423.0	6,83,771.9	35,423.0	6,83,771.9	35,423.0	6,83,771.9	35,423.0
	Weighted Average Depreciation Rate (%)			5.1805%		5.1805%		5.1805%		5.1805%		5.1805%		5.1805%

After-tax details are same as submitted for true up for the control period 2014-15 & MYT for the control period 2019-24



Statement of Depreciation

Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangfoo Hydro-Electric Plant

Sl. No.	Particulars	2018-19 Existing	2019-20	2020-21	2021-22	2022-23	2023-24
1	2		3	4	5	6	7
1	Opening Capital Cost ¹	659647.64	6,60,653.40	6,61,139.84	6,62,904.81	6,65,279.25	6,65,589.76
2	Closing Capital Cost ¹	660653.40	6,61,139.84	6,62,904.81	6,65,279.25	6,65,589.76	6,66,177.48
3	Average Capital Cost	6,60,150.52	6,60,896.62	6,62,022.33	6,64,092.03	6,65,434.50	6,65,883.62
4	Freehold land	2200.02	2,200.02	2,200.02	2,200.02	2,200.02	2,200.02
5	Rate of Depreciation	5.1805%	5.1805%	5.1805%	5.1805%	5.1805%	5.1805%
6	Depreciable Value	6,25,052.98	6,25,761.77	6,26,831.19	6,28,797.41	6,30,072.76	6,30,499.42
7	Balance useful life at the beginning of the period **		27.45 Years	26.45 Years	25.45 Years	24.45 Years	23.45 Years
8	Remaining depreciable value at the beginning of the period *	397699.82	3,64,209.33	3,31,199.04	2,98,869.01	2,65,902.71	2,31,903.27
9	Depreciation (for the period)	34199.28	34,237.93	34,296.25	34,403.47	34,473.02	34,496.28
10	Depreciation (annualised)	34199.28	34,237.93	34,296.25	34,403.47	34,473.02	34,496.28
11	Cumulative depreciation at the end of the year		2,95,790.37	3,29,928.40	3,64,331.87	3,98,643.06	4,33,092.43
12	Less: Cumulative depreciation adjustment on account of un-discharged liabilities deducted as on 01.04.2009		*	-	-	-	-
13	Less: Cumulative depreciation adjustment on account of de-capitalisation		158.22	-	161.82	46.91	82.64
14	Net Cumulative depreciation at the end of the year *	261552.44	2,95,632.15	3,29,928.40	3,64,170.05	3,98,596.15	4,33,009.79

1 In case of details of FERV and AAD, give information for the applicable period

Note:	COD of the project	Useful life, Upto 31.3.19	7.55 years
	IA period (40 years)	Useful life, Upto 31.3.24	12.55 years
	Salvage value as per IA	Project useful life (As per IA as well as	40 years
	(As per Companies Act, 1956 / 2013 provisions)	Tariff Reg 2019)	
	Depreciation to be calculated from COD of the generating station i.e. 13.9.2011	Depreciation period (As per PPA)	35 years



15. Net Cumulative depreciation value, As per Para 80 of the True up order dt 17.3.2022
depreciation shall be spread over the balance useful life i.e. 22.45 years (=35-12.55 yrs)

Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

(Rs. in lacs)

Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	1	2	3	4	5
1	State Bank of India (refinance loan)					
	Gross loan - Opening	3,49,700.00	3,49,700.00	3,49,700.00		
	Cumulative repayments of Loans upto previous year	36,909.36	50,774.87	64,937.50		
	Net loan - Opening	3,12,790.64	2,98,925.13	2,84,762.50		
	Add: Drawal(s) during the Year	-	-	-		
	Less: Repayments(s) of Loans during the year	13,865.51	14,162.63	2,84,762.50		
	Net loan - Closing	2,98,925.13	2,84,762.50	-		
	Weighted Average Loan/Average Loan	3,05,355.26	2,89,717.43	36,668.05		
	Rate of Interest on Loan on annual basis	9.26%	8.38%	8.40%		
	Interest on loan	28,264.35	24,277.74	3,080.12		
2	Syndicate Bank (refinance loan)					
	Gross loan - Opening	59,700.00	59,700.00	59,700.00		
	Cumulative repayments of Loans upto previous year	8,530.50	10,888.65	13,306.50		
	Net loan - Opening	51,169.50	48,811.35	46,393.50		
	Add: Drawal(s) during the Year	-	-	-		
	Less: Repayments(s) of Loans during the year	2,358.15	2,417.85	46,393.50		
	Net loan - Closing	48,811.35	46,393.50	-		
	Weighted Average Loan/Average Loan	49,894.80	47,237.43	5,973.96		
	Rate of Interest on Loan on annual basis	9.26%	8.28%	8.10%		
	Interest on loan	4,618.35	3,909.68	483.89		
3	Central Bank of India (refinance loan)					
	Gross loan - Opening	59,700.00	59,700.00	59,700.00		
	Cumulative repayments of Loans upto previous year	8,576.19	10,937.55	13,355.40		
	Net loan - Opening	51,123.81	48,762.45	46,344.60		
	Add: Drawal(s) during the Year	-	-	-		
	Less: Repayments(s) of Loans during the year	2,361.36	2,417.85	46,344.60		
	Net loan - Closing	48,762.45	46,344.60	-		
	Weighted Average Loan/Average Loan	49,848.71	47,188.53	5,967.66		
	Rate of Interest on Loan on annual basis	9.26%	8.28%	8.10%		
	Interest on loan	4,614.08	3,905.63	483.38		
4	Allahabad bank (refinance loan)					
	Gross loan - Opening	39,800.00	39,800.00	39,800.00		
	Cumulative repayments of Loans upto previous year	5,687.00	7,282.40	8,894.30		
	Net loan - Opening	34,113.00	32,517.60	30,905.70		
	Add: Drawal(s) during the Year	-	-	-		
	Less: Repayments(s) of Loans during the year	1,595.40	1,611.90	30,905.70		
	Net loan - Closing	32,517.60	30,905.70	-		
	Weighted Average Loan/Average Loan	33,261.22	31,468.32	3,979.64		
	Rate of Interest on Loan on annual basis	9.21%	8.28%	8.10%		
	Interest on loan	3,063.35	2,604.53	322.35		



Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	1	2	3	4	5
5	Vijaya Bank (refinance loan)					
	Gross loan - Opening	39,799.97	39,799.97	39,799.97		
	Cumulative repayments of Loans upto previous year	8,113.61	9,725.93	11,337.83		
	Net loan - Opening	31,686.36	30,074.04	28,462.14		
	Add: Drawal(s) during the Year	-	-	-		
	Less: Repayments(s) of Loans during the year	1,612.33	1,611.90	28,462.14		
	Net loan - Closing	30,074.04	28,462.14	-		
	Weighted Average Loan/Average Loan	30,828.22	29,024.75	3,664.99		
	Rate of Interest on Loan on annual basis	9.20%	8.28%	8.10%		
	Interest on loan	2,836.38	2,402.42	296.86		

6	L & T Infra (refinance loan)					
	Gross loan - Opening	39,800.00	39,800.00	39,800.00		
	Cumulative repayments of Loans upto previous year	39,800.00	39,800.00	39,800.00		
	Net loan - Opening	-	-	-		
	Add: Drawal(s) during the Year	-	-	-		
	Less: Repayments(s) of Loans during the year	-	-	-		
	Net loan - Closing	-	-	-		
	Weighted Average Loan/Average Loan	-	-	-		
	Rate of Interest on Loan on annual basis	0.00%				
	Interest on loan	-	-	-		

6	Punjab National Bank (refinance loan)					
	Gross loan - Opening	31,700.00	31,700.00	31,700.00		
	Cumulative repayments of Loans upto previous year	5,536.14	6,795.13	8,078.98		
	Net loan - Opening	26,163.86	24,904.87	23,621.02		
	Add: Drawal(s) during the Year	-	-	-		
	Less: Repayments(s) of Loans during the year	1,259.00	1,283.85	23,621.02		
	Net loan - Closing	24,904.87	23,621.02	-		
	Weighted Average Loan/Average Loan	25,483.68	24,069.13	3,041.61		
	Rate of Interest on Loan on annual basis	9.26%	8.28%	8.10%		
	Interest on loan	2,358.80	1,992.18	246.37		

7	Axis Bank (refinance loan)					
	Gross loan - Opening	23,842.00	23,842.00	23,842.00		
	Cumulative repayments of Loans upto previous year	3,414.50	4,384.93	5,352.88		
	Net loan - Opening	20,427.50	19,457.07	18,489.12		
	Add: Drawal(s) during the Year	-	-	-		
	Less: Repayments(s) of Loans during the year	970.43	967.95	18,489.12		
	Net loan - Closing	19,457.07	18,489.12	-		
	Weighted Average Loan/Average Loan	19,914.80	18,826.98	2,380.79		
	Rate of Interest on Loan on annual basis	9.26%	8.28%	8.10%		
	Interest on loan	1,843.35	1,558.25	192.84		

8	L & T Infra (refinance loan)					
	Gross loan - Opening	15,900.00	15,900.00	15,900.00		
	Cumulative repayments of Loans upto previous year	15,900.00	15,900.00	15,900.00		
	Net loan - Opening	-	-	-		
	Add: Drawal(s) during the Year	-	-	-		
	Less: Repayments(s) of Loans during the year	-	-	-		
	Net loan - Closing	-	-	-		
	Weighted Average Loan/Average Loan	-	-	-		
	Rate of Interest on Loan on annual basis	0.00%				
	Interest on loan	-	-	-		



Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	1	2	3	4	5
9	Green Bonds (USD)					
	Gross loan - Opening (incl. Forex fluctuation)	-	-	-	4,96,365.23	5,35,297.74
	Cumulative repayments of Loans upto previous year	-	-	-	17,207.51	58,706.93
	Net loan - Opening	-	-	-	4,79,157.73	4,76,590.82
	Add: Drawal(s) during the Year	-	-	4,78,313.75	-	-
	Less: Repayments(s) of Loans during the year	-	-	17,207.51	41,499.42	43,471.27
	Add: Forex Fluctuations	-	-	18,051.48	38,932.51	6,490.19
	Net loan - Closing	-	-	4,79,157.73	4,76,590.82	4,39,609.73
	Weighted Average Loan/Average Loan	-	-	4,10,405.39	4,52,418.47	4,49,606.86
	Rate of Interest on Loan on annual basis	-	-	8.035%	8.035%	8.035%
	Interest on loan	-	-	32,974.23	36,349.79	36,123.89

Total Refinance Loan (Sr. no. 1 to 8)						
	Gross loan - Opening	6,59,941.97	6,59,941.97	6,59,941.97	4,96,365.23	5,35,297.74
	Cumulative repayments of Loans upto previous year	1,32,467.29	1,56,489.46	1,80,963.39	17,207.51	58,706.93
	Net loan - Opening	5,27,474.68	5,03,452.51	4,78,978.58	4,79,157.73	4,76,590.82
	Add: Drawal(s) during the Year	-	-	4,78,313.75	-	-
	Less: Repayments(s) of Loans during the year	24,022.17	24,473.93	4,96,186.08	41,499.42	43,471.27
	Net loan - Closing	5,03,452.51	4,78,978.58	4,79,157.73	4,76,590.82	4,39,609.73
	Weighted Average Loan/Average Loan	5,14,586.69	4,87,532.58	4,72,082.08	4,52,418.47	4,49,606.86
	Interest on loan	47,598.65	40,650.42	38,080.05	36,349.79	36,123.89
	Weighted average Rate of Interest on Loans	9.250%	8.338%	8.066%	8.035%	8.035%

Effective interest rate	9.250%	8.338%	8.066%	8.035%	8.035%
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Note:

1. In case of Foreign Loans, the calculations in Indian Rupees is to be furnished. However, the calculation in Original currency is also to be furnished separately in the same form.



Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Calculation of Weighted Average Rate of Interest for the Financial Year 2019-20

SL. NO.	NAME OF LENDER	NATURE OF FACILITY	PRODUCT OF DEBT AMOUNT (Rs.)	INTEREST (Rs.)	WEIGHTED AVERAGE RATE OF INTEREST	REFERENCE APPENDIX
A	RUPEE TERM LOAN:					
1	State Bank of India	RTL	30,53,55,26,277	2,82,64,35,358	9.256%	Appendix-1 to Enclosure -1 to Form 13
2	Syndicate Bank	RTL	4,98,94,80,041	46,18,34,673	9.256%	Appendix-2 to Enclosure -1 to Form 13
3	Central Bank of India	RTL	4,98,48,71,297	46,14,08,013	9.256%	Appendix-3 to Enclosure -1 to Form 13
4	Allahabad Bank	RTL	3,32,61,22,141	30,63,34,711	9.210%	Appendix-4 to Enclosure -1 to Form 13
5	Vijaya bank	RTL	3,08,28,22,122	28,36,37,584	9.201%	Appendix-5 to Enclosure -1 to Form 13
6	Punjab National Bank	RTL	2,54,83,67,512	23,58,79,942	9.256%	Appendix-6 to Enclosure -1 to Form 13
7	Axis Bank	RTL	1,99,14,79,557	18,43,34,533	9.256%	Appendix-7 to Enclosure -1 to Form 13
	Total		51,45,86,68,948	4,75,98,64,814		
B	WEIGHTED AVERAGE RATE OF INTEREST ON RUPEE TERM LOAN					
	Total Product of Debt Amount (Rs.)					
	Total interest (Rs.)					
	WEIGHTED AVERAGE RATE OF INTEREST ON RUPEE TERM LOAN					
	51,45,86,68,948					
	4,75,98,64,814					
	9.2499%					



Appendix-1 to Enclosure - 1 to Form 13

Name of the Petitioner : JSW Hydro Energy Limited

Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Calculation of Weighted Average Rate of Interest for the Financial Year 2019-20State Bank of India

Outstanding Balance		Interest Period		No. of Days	Rate	Interest Amount (Rs.)	
Date	Amount (Rs.)	From	To			Product of Debt Amount	Interest
(1)	(2)	(3)	(4)	(5)	(6)	'2' X '5' / 365 = (7)	'7' X '6' = (8)
1-Apr-19	31,27,90,63,880	1-Apr-19	22-May-19	52	9.00%	4,45,61,95,402	40,10,57,586
23-May-19	31,27,90,63,880	23-May-19	25-Jun-19	34	9.30%	2,91,36,66,224	27,09,70,959
26-Jun-19	31,00,28,00,880	26-Jun-19	25-Jul-19	30	9.30%	2,54,81,75,415	23,69,80,314
26-Jul-19	30,72,65,37,880	26-Jul-19	25-Aug-19	31	9.30%	2,60,96,51,162	24,26,97,558
26-Aug-19	30,45,02,74,880	26-Aug-19	25-Sep-19	31	9.30%	2,58,61,87,730	24,05,15,459
26-Sep-19	30,17,40,11,880	26-Sep-19	25-Oct-19	30	9.30%	2,48,00,55,771	23,06,45,187
26-Oct-19	29,89,77,48,880	26-Oct-19	29-Feb-20	127	9.30%	10,40,27,78,377	96,74,58,389
1-Mar-20	29,89,25,13,271	1-Mar-20	31-Mar-20	31	9.30%	2,53,88,16,196	23,61,09,906
						30,53,55,26,277	2,82,64,35,358

Appendix-2 to Enclosure - 1 to Form 13

Name of the Petitioner : JSW Hydro Energy Limited

Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Calculation of Weighted Average Rate of Interest for the Financial Year 2019-20Syndicate Bank

Outstanding Balance		Interest Period		No. of Days	Rate	Interest Amount (Rs.)	
Date	Amount (Rs.)	From	To			Product of Debt Amount	Interest
(1)	(2)	(3)	(4)	(5)	(6)	'2' X '5' / 365 = (7)	'7' X '6' = (8)
1-Apr-19	5,11,69,50,000	1-Apr-19	22-May-19	52	9.00%	72,89,90,137	6,56,09,112
23-May-19	5,11,69,50,000	23-May-19	25-Jun-19	34	9.30%	47,66,47,397	4,43,28,208
26-Jun-19	5,06,97,87,000	26-Jun-19	25-Jul-19	30	9.30%	41,66,94,822	3,87,52,618
26-Jul-19	5,02,26,24,000	26-Jul-19	25-Aug-19	31	9.30%	42,65,79,025	3,96,71,849
26-Aug-19	4,97,54,61,000	26-Aug-19	25-Sep-19	31	9.30%	42,25,73,400	3,92,99,326
26-Sep-19	4,92,82,98,000	26-Sep-19	25-Oct-19	30	9.30%	40,50,65,589	3,76,71,100
26-Oct-19	4,88,11,35,000	26-Oct-19	31-Mar-20	158	9.30%	2,11,29,29,671	19,65,02,459
						4,98,94,80,041	46,18,34,673



Appendix-3 to Enclosure - 1 to Form 13

Name of the Petitioner : JSW Hydro Energy Limited
 Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Calculation of Weighted Average Rate of Interest for the Financial Year 2019-20

Central Bank of India

Outstanding Balance		Interest Period		No. of Days	Rate	Interest Amount (Rs.)	
Date	Amount (Rs.)	From	To			Product of Debt Amount	Interest
(1)	(2)	(3)	(4)	(5)	(6)	'2' X '5' / 365 = (7)	'7' X '6' = (8)
1-Apr-19	5,11,23,81,046	1-Apr-19	22-May-19	52	9.00%	72,83,39,218	6,55,50,530
23-May-19	5,11,23,81,046	23-May-19	25-Jun-19	34	9.30%	47,62,21,796	4,42,88,627
26-Jun-19	5,06,52,18,046	26-Jun-19	25-Jul-19	30	9.30%	41,63,19,291	3,87,17,694
26-Jul-19	5,01,80,55,046	26-Jul-19	25-Aug-19	31	9.30%	42,61,90,977	3,96,35,761
26-Aug-19	4,97,08,92,046	26-Aug-19	25-Sep-19	31	9.30%	42,21,85,352	3,92,63,238
26-Sep-19	4,92,37,29,046	26-Sep-19	25-Oct-19	30	9.30%	40,46,90,059	3,76,36,175
26-Oct-19	4,87,65,66,046	26-Oct-19	29-Feb-20	127	9.30%	1,69,67,77,775	15,78,00,333
1-Mar-20	4,87,62,44,939	1-Mar-20	31-Mar-20	31	9.30%	41,41,46,830	3,85,15,655
						4,98,48,71,297	46,14,08,013

Appendix-4 to Enclosure - 1 to Form 13

Name of the Petitioner : JSW Hydro Energy Limited
 Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Calculation of Weighted Average Rate of Interest for the Financial Year 2019-20

Allahabad Bank

Outstanding Balance		Interest Period		No. of Days	Rate	Interest Amount (Rs.)	
Date	Amount (Rs.)	From	To			Product of Debt Amount	Interest
(1)	(2)	(3)	(4)	(5)	(6)	'2' X '5' / 365 = (7)	'7' X '6' = (8)
1-Apr-19	3,41,13,00,000	1-Apr-19	25-Jun-19	86	9.00%	80,37,58,356	7,23,38,252
26-Jun-19	3,37,98,58,000	26-Jun-19	16-Jul-19	21	9.00%	19,44,57,584	1,75,01,183
17-Jul-19	3,37,98,58,000	17-Jul-19	25-Jul-19	9	9.30%	8,33,38,964	77,50,524
26-Jul-19	3,34,84,16,000	26-Jul-19	25-Aug-19	31	9.30%	28,43,86,016	2,64,47,900
26-Aug-19	3,31,69,74,000	26-Aug-19	25-Sep-19	31	9.30%	28,17,15,600	2,61,99,551
26-Sep-19	3,28,55,32,000	26-Sep-19	25-Oct-19	30	9.30%	27,00,43,726	2,51,14,067
26-Oct-19	3,25,40,90,000	26-Oct-19	29-Feb-20	127	9.30%	1,13,22,45,014	10,52,98,786
1-Mar-20	3,25,17,60,050	1-Mar-20	31-Mar-20	31	9.30%	27,61,76,881	2,56,84,450
						3,32,61,22,141	30,63,34,711



Appendix-5 to Enclosure - 1 to Form 13

Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Calculation of Weighted Average Rate of Interest for the Financial Year 2019-20

Vijaya Bank

Outstanding Balance		Interest Period		No. of Days	Rate	Interest Amount (Rs.)	
Date	Amount (Rs.)	From	To			Product of Debt Amount	Interest
(1)	(2)	(3)	(4)	(5)	(6)	'2' X '5' / 365 = (7)	'7' X '6' = (8)
1-Apr-19	3,16,86,36,303	1-Apr-19	25-Jun-19	86	9.00%	74,65,82,800	6,71,92,452
26-Jun-19	3,13,71,94,303	26-Jun-19	27-Jul-19	32	9.00%	27,50,41,692	2,47,53,752
28-Jul-19	3,10,57,52,303	28-Jul-19	25-Aug-19	29	9.30%	24,67,58,402	2,29,48,531
26-Aug-19	3,07,43,10,303	26-Aug-19	25-Sep-19	31	9.30%	26,11,05,807	2,42,82,840
26-Sep-19	3,04,28,68,303	26-Sep-19	25-Oct-19	30	9.30%	25,00,98,765	2,32,59,185
26-Oct-19	3,01,14,26,303	26-Oct-19	29-Feb-20	127	9.30%	1,04,78,11,344	9,74,46,455
1-Mar-20	3,00,74,03,511	1-Mar-20	31-Mar-20	31	9.30%	25,54,23,312	2,37,54,368
						3,08,28,22,122	28,36,37,584

Appendix-6 to Enclosure - 1 to Form 13

Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Calculation of Weighted Average Rate of Interest for the Financial Year 2019-20

Punjab National Bank

Outstanding Balance		Interest Period		No. of Days	Rate	Interest Amount (Rs.)	
Date	Amount (Rs.)	From	To			Product of Debt Amount	Interest
(1)	(2)	(3)	(4)	(5)	(6)	'2' X '5' / 365 = (7)	'7' X '6' = (8)
1-Apr-19	2,61,63,86,486	1-Apr-19	22-May-19	52	9.00%	37,27,45,472	3,35,47,092
23-May-19	2,61,63,86,486	23-May-19	25-Jun-19	34	9.30%	24,37,18,193	2,26,65,792
26-Jun-19	2,59,13,43,486	26-Jun-19	25-Jul-19	30	9.30%	21,29,87,136	1,98,07,804
26-Jul-19	2,56,63,00,486	26-Jul-19	25-Aug-19	31	9.30%	21,79,59,767	2,02,70,258
26-Aug-19	2,54,12,57,486	26-Aug-19	25-Sep-19	31	9.30%	21,58,32,828	2,00,72,453
26-Sep-19	2,51,62,14,486	26-Sep-19	25-Oct-19	30	9.30%	20,68,12,150	1,92,33,530
26-Oct-19	2,49,11,71,486	26-Oct-19	29-Feb-20	127	9.30%	86,67,91,175	8,06,11,579
1-Mar-20	2,49,04,86,749	1-Mar-20	31-Mar-20	31	9.30%	21,15,20,792	1,96,71,434
						2,54,83,67,512	23,58,79,942



Appendix-7 to Enclosure - 1 to Form 13

Name of the Petitioner : JSW Hydro Energy Limited
 Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Calculation of Weighted Average Rate of Interest for the Financial Year 2019-20

Axis Bank

Outstanding Balance		Interest Period		No. of Days	Rate	Interest Amount (Rs.)	
Date	Amount (Rs.)	From	To			Product of Debt Amount	Interest
(1)	(2)	(3)	(4)	(5)	(6)	'2' X '5' / 365 = (7)	'7' X '6' = (8)
1-Apr-19	2,04,27,50,000	1-Apr-19	22-May-19	52	9.00%	29,10,21,918	2,61,91,973
23-May-19	2,04,27,50,000	23-May-19	25-Jun-19	34	9.30%	19,02,83,562	1,76,96,371
26-Jun-19	2,02,38,69,000	26-Jun-19	25-Jul-19	30	9.30%	16,63,45,397	1,54,70,122
26-Jul-19	2,00,49,88,000	26-Jul-19	25-Aug-19	31	9.30%	17,02,86,652	1,58,36,659
26-Aug-19	1,98,61,07,000	26-Aug-19	25-Sep-19	31	9.30%	16,86,83,060	1,56,87,525
26-Sep-19	1,96,72,26,000	26-Sep-19	25-Oct-19	30	9.30%	16,16,89,808	1,50,37,152
26-Oct-19	1,94,83,45,000	26-Oct-19	29-Feb-20	127	9.30%	67,79,17,301	6,30,46,309
1-Mar-20	1,94,57,07,367	1-Mar-20	31-Mar-20	31	9.30%	16,52,51,859	1,53,68,423
						1,99,14,79,557	18,43,34,533



Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Calculation of Weighted Average Rate of Interest for the Financial Year 2020-21

SL. NO.	NAME OF LENDER	NATURE OF FACILITY	PRODUCT OF DEBT AMOUNT (Rs.)	INTEREST (Rs.)	WEIGHTED AVERAGE RATE OF INTEREST	REFERENCE APPENDIX
A	RUPEE TERM LOAN:					
1	State Bank of India	RTL	28,97,17,43,408	2,42,77,73,705	8.380%	Appendix-1 to Enclosure -2 to Form 13
2	Syndicate Bank	RTL	4,72,37,42,901	39,09,67,910	8.277%	Appendix-2 to Enclosure -2 to Form 13
3	Central Bank of India	RTL	4,71,88,52,840	39,05,63,455	8.277%	Appendix-3 to Enclosure -2 to Form 13
4	Allahabad Bank	RTL	3,14,68,31,984	26,04,52,564	8.277%	Appendix-4 to Enclosure -2 to Form 13
5	Vijaya bank	RTL	2,90,24,75,445	24,02,41,935	8.277%	Appendix-5 to Enclosure -2 to Form 13
6	Punjab National Bank	RTL	2,40,69,13,390	19,92,17,693	8.277%	Appendix-6 to Enclosure -2 to Form 13
7	Axis Bank	RTL	1,88,26,97,800	15,58,24,882	8.277%	Appendix-7 to Enclosure -2 to Form 13
	Total		48,75,32,57,769	4,06,50,42,144		
B	WEIGHTED AVERAGE RATE OF INTEREST ON RUPEE TERM LOAN					
	Total Product of Debt Amount (Rs.)					48,75,32,57,769
	Total interest (Rs.)					4,06,50,42,144
	WEIGHTED AVERAGE RATE OF INTEREST ON RUPEE TERM LOAN					8.3380%



Appendix-1 to Enclosure - 2 to Form 13

Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Calculation of Weighted Average Rate of Interest for the Financial Year 2020-21

State Bank of India

Outstanding Balance		Interest Period		No. of Days	Rate	Interest Amount (Rs.)	
Date	Amount (Rs.)	From	To			Product of Debt Amount	Interest
(1)	(2)	(3)	(4)	(5)	(6)	'2' X '5' / 365 = (7)	'7' X '6' = (8)
1-Apr-20	29,89,25,13,271	1-Apr-20	22-May-20	52	9.30%	4,25,86,59,425	39,60,55,327
23-May-20	29,89,48,13,271	23-May-20	25-Jun-20	34	8.10%	2,78,47,22,332	22,55,62,509
26-Jun-20	29,61,15,56,271	26-Jun-20	25-Jul-20	30	8.10%	2,43,38,26,543	19,71,39,950
26-Jul-20	29,32,82,99,271	26-Jul-20	18-Aug-20	24	8.10%	1,92,84,36,116	15,62,03,325
19-Aug-20	28,76,17,85,271	19-Aug-20	2-Sep-20	15	8.10%	1,18,19,91,176	9,57,41,285
3-Sep-20	28,47,85,28,271	3-Sep-20	23-Nov-20	82	8.10%	6,39,79,15,940	51,82,31,191
24-Nov-20	28,47,62,50,271	24-Nov-20	31-Mar-21	128	8.40%	9,98,61,91,876	83,88,40,118
						28,97,17,43,408	2,42,77,73,705

Appendix-2 to Enclosure - 2 to Form 13

Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Calculation of Weighted Average Rate of Interest for the Financial Year 2020-21

Syndicate Bank

Outstanding Balance		Interest Period		No. of Days	Rate	Interest Amount (Rs.)	
Date	Amount (Rs.)	From	To			Product of Debt Amount	Interest
(1)	(2)	(3)	(4)	(5)	(6)	'2' X '5' / 365 = (7)	'7' X '6' = (8)
1-Apr-20	4,88,11,35,000	1-Apr-20	22-May-20	52	9.30%	69,53,94,575	6,46,71,696
23-May-20	4,88,11,35,000	23-May-20	25-Jun-20	34	8.10%	45,46,81,068	3,68,29,167
26-Jun-20	4,83,27,78,000	26-Jun-20	25-Jul-20	30	8.10%	39,72,14,630	3,21,74,385
26-Jul-20	4,78,44,21,000	26-Jul-20	18-Aug-20	24	8.10%	31,45,92,066	2,54,81,957
19-Aug-20	4,68,77,07,000	19-Aug-20	2-Sep-20	15	8.10%	19,26,45,493	1,56,04,285
3-Sep-20	4,63,93,50,000	3-Sep-20	31-Mar-21	210	8.10%	2,66,92,15,068	21,62,06,421
						4,72,37,42,901	39,09,67,910



Appendix-3 to Enclosure - 2 to Form 13

Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Calculation of Weighted Average Rate of Interest for the Financial Year 2020-21

Central Bank of India

Outstanding Balance		Interest Period		No. of Days	Rate	Interest Amount (Rs.)	
Date	Amount (Rs.)	From	To			Product of Debt Amount	Interest
(1)	(2)	(3)	(4)	(5)	(6)	'2' X '5' / 365 = (7)	'7' X '6' = (8)
1-Apr-20	4,87,62,44,939	1-Apr-20	22-May-20	52	9.30%	69,46,97,909	6,46,06,906
23-May-20	4,87,62,44,939	23-May-20	25-Jun-20	34	8.10%	45,42,25,556	3,67,92,270
26-Jun-20	4,82,78,87,939	26-Jun-20	25-Jul-20	30	8.10%	39,68,12,707	3,21,41,829
26-Jul-20	4,77,95,30,939	26-Jul-20	18-Aug-20	24	8.10%	31,42,70,528	2,54,55,913
19-Aug-20	4,68,28,16,939	19-Aug-20	2-Sep-20	15	8.10%	19,24,44,532	1,55,88,007
3-Sep-20	4,63,44,59,939	3-Sep-20	31-Mar-21	210	8.10%	2,66,64,01,609	21,59,78,530
						4,71,88,52,840	39,05,63,455

Appendix-4 to Enclosure - 2 to Form 13

Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Calculation of Weighted Average Rate of Interest for the Financial Year 2020-21

Allahabad Bank

Outstanding Balance		Interest Period		No. of Days	Rate	Interest Amount (Rs.)	
Date	Amount (Rs.)	From	To			Product of Debt Amount	Interest
(1)	(2)	(3)	(4)	(5)	(6)	'2' X '5' / 365 = (7)	'7' X '6' = (8)
1-Apr-20	3,25,17,60,050	1-Apr-20	22-May-20	52	9.30%	46,32,64,445	4,30,83,593
23-May-20	3,25,17,60,050	23-May-20	25-Jun-20	34	8.10%	30,29,03,676	2,45,35,198
26-Jun-20	3,21,95,22,050	26-Jun-20	25-Jul-20	30	8.10%	26,46,18,251	2,14,34,078
26-Jul-20	3,18,72,84,050	26-Jul-20	18-Aug-20	24	8.10%	20,95,74,842	1,69,75,562
19-Aug-20	3,12,28,08,050	19-Aug-20	2-Sep-20	15	8.10%	12,83,34,577	1,03,95,101
3-Sep-20	3,09,05,70,050	3-Sep-20	31-Mar-21	210	8.10%	1,77,81,36,193	14,40,29,032
						3,14,68,31,984	26,04,52,564



Appendix-5 to Enclosure - 2 to Form 13

Name of the Petitioner : JSW Hydro Energy Limited
 Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Calculation of Weighted Average Rate of Interest for the Financial Year 2020-21

Vijaya Bank

Outstanding Balance		Interest Period		No. of Days	Rate	Interest Amount (Rs.)	
Date	Amount (Rs.)	From	To			Product of Debt Amount	Interest
(1)	(2)	(3)	(4)	(5)	(6)	'2' X '5' / 365 = (7)	'7' X '6' = (8)
1-Apr-20	3,00,74,03,511	1-Apr-20	22-May-20	52	9.30%	42,84,52,007	3,98,46,037
23-May-20	3,00,74,03,511	23-May-20	25-Jun-20	34	8.10%	28,01,41,697	2,26,91,477
26-Jun-20	2,97,51,65,511	26-Jun-20	25-Jul-20	30	8.10%	24,45,34,152	1,98,07,266
26-Jul-20	2,94,29,27,511	26-Jul-20	18-Aug-20	24	8.10%	19,35,07,562	1,56,74,113
19-Aug-20	2,87,84,51,511	19-Aug-20	2-Sep-20	15	8.10%	11,82,92,528	95,81,695
3-Sep-20	2,84,62,13,511	3-Sep-20	31-Mar-21	210	8.10%	1,63,75,47,499	13,26,41,347
						2,90,24,75,445	24,02,41,935

Appendix-6 to Enclosure - 2 to Form 13

Name of the Petitioner : JSW Hydro Energy Limited
 Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Calculation of Weighted Average Rate of Interest for the Financial Year 2020-21

Punjab National Bank

Outstanding Balance		Interest Period		No. of Days	Rate	Interest Amount (Rs.)	
Date	Amount (Rs.)	From	To			Product of Debt Amount	Interest
(1)	(2)	(3)	(4)	(5)	(6)	'2' X '5' / 365 = (7)	'7' X '6' = (8)
1-Apr-20	2,49,04,86,749	1-Apr-20	22-May-20	52	9.30%	35,48,09,071	3,29,97,244
23-May-20	2,49,04,86,749	23-May-20	25-Jun-20	34	8.10%	23,19,90,546	1,87,91,234
26-Jun-20	2,46,48,09,749	26-Jun-20	25-Jul-20	30	8.10%	20,25,87,103	1,64,09,555
26-Jul-20	2,43,91,32,749	26-Jul-20	18-Aug-20	24	8.10%	16,03,81,331	1,29,90,888
19-Aug-20	2,38,77,78,749	19-Aug-20	2-Sep-20	15	8.10%	9,81,27,894	79,48,359
3-Sep-20	2,36,21,01,749	3-Sep-20	31-Mar-21	210	8.10%	1,35,90,17,445	11,00,80,413
						2,40,69,13,390	19,92,17,693



Name of the Petitioner : JSW Hydro Energy Limited

Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Calculation of Weighted Average Rate of Interest for the Financial Year 2020-21Axis Bank

Outstanding Balance		Interest Period		No. of Days	Rate	Interest Amount (Rs.)	
Date	Amount (Rs.)	From	To			Product of Debt Amount	Interest
(1)	(2)	(3)	(4)	(5)	(6)	'2' X '5' / 365 = (7)	'7' X '6' = (8)
1-Apr-20	1,94,57,07,367	1-Apr-20	22-May-20	52	9.30%	27,71,96,666	2,57,79,290
23-May-20	1,94,57,07,367	23-May-20	25-Jun-20	34	8.10%	18,12,43,974	1,46,80,762
26-Jun-20	1,92,63,48,367	26-Jun-20	25-Jul-20	30	8.10%	15,83,30,003	1,28,24,730
26-Jul-20	1,90,69,89,367	26-Jul-20	18-Aug-20	24	8.10%	12,53,91,082	1,01,56,678
19-Aug-20	1,86,82,71,367	19-Aug-20	2-Sep-20	15	8.10%	7,67,78,275	62,19,040
3-Sep-20	1,84,89,12,367	3-Sep-20	31-Mar-21	210	8.10%	1,06,37,57,800	8,61,64,382
						1,88,26,97,800	15,58,24,882



Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Calculation of Weighted Average Rate of Interest for the Financial Year 2021-22

SL. NO.	NAME OF LENDER	NATURE OF FACILITY	PRODUCT OF DEBT AMOUNT (Rs.)	INTEREST (Rs.)	WEIGHTED AVERAGE RATE OF INTEREST	REFERENCE APPENDIX
A1	RUPEE TERM LOAN:					
1	State Bank of India	RTL	3,66,68,04,829	30,80,11,606	8.400%	Appendix-1 to Enclosure -3 to Form 13
2	Syndicate Bank	RTL	59,73,95,753	4,83,89,056	8.100%	Appendix-2 to Enclosure -3 to Form 13
3	Central Bank of India	RTL	59,67,66,074	4,83,38,052	8.100%	Appendix-3 to Enclosure -3 to Form 13
4	Allahabad Bank	RTL	39,79,63,815	3,22,35,069	8.100%	Appendix-4 to Enclosure -3 to Form 13
5	Vijaya bank	RTL	36,64,98,726	2,96,86,397	8.100%	Appendix-5 to Enclosure -3 to Form 13
6	Punjab National Bank	RTL	30,41,61,047	2,46,37,045	8.100%	Appendix-6 to Enclosure -3 to Form 13
7	Axis Bank	RTL	23,80,79,127	1,92,84,409	8.100%	Appendix-7 to Enclosure -3 to Form 13
A2	FOREX TERM LOAN:					
8	Green Bonds (USD)		41,04,05,38,858	3,29,74,23,177	8.035%	Appendix-8 to Enclosure -3 to Form 13
	Total		47,20,82,08,229	3,80,80,04,810		
B	WEIGHTED AVERAGE RATE OF INTEREST ON RUPEE & FOREX TERM LOAN					
	Total Product of Debt Amount (Rs.)					
	Total interest (Rs.)					
	WEIGHTED AVERAGE RATE OF INTEREST ON RUPEE & FOREX TERM LOAN					
	47,20,82,08,229					
	3,80,80,04,810					
	8.0664%					

WEIGHTED AVERAGE RATE OF INTEREST ON RUPEE TERM LOAN ONLY 8.2784%



Appendix-1 to Enclosure - 3 to Form 13

Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Calculation of Weighted Average Rate of Interest for the Financial Year 2021-22

State Bank of India

Outstanding Balance		Interest Period		No. of Days	Rate	Interest Amount (Rs.)	
Date	Amount (Rs.)	From	To			Product of Debt Amount	Interest
(1)	(2)	(3)	(4)	(5)	(6)	'2' X '5' / 365 = (7)	'7' X '6' = (8)
1-Apr-21	28,47,62,50,271	1-Apr-21	17-May-21	47	8.40%	3,66,68,04,829	30,80,11,606
						3,66,68,04,829	30,80,11,606

Appendix-2 to Enclosure - 3 to Form 13

Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Calculation of Weighted Average Rate of Interest for the Financial Year 2021-22

Syndicate Bank

Outstanding Balance		Interest Period		No. of Days	Rate	Interest Amount (Rs.)	
Date	Amount (Rs.)	From	To			Product of Debt Amount	Interest
(1)	(2)	(3)	(4)	(5)	(6)	'2' X '5' / 365 = (7)	'7' X '6' = (8)
1-Apr-21	4,63,93,50,000	1-Apr-21	17-May-21	47	8.10%	59,73,95,753	4,83,89,056
						59,73,95,753	4,83,89,056

Appendix-3 to Enclosure - 3 to Form 13

Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Calculation of Weighted Average Rate of Interest for the Financial Year 2021-22

Central Bank of India

Outstanding Balance		Interest Period		No. of Days	Rate	Interest Amount (Rs.)	
Date	Amount (Rs.)	From	To			Product of Debt Amount	Interest
(1)	(2)	(3)	(4)	(5)	(6)	'2' X '5' / 365 = (7)	'7' X '6' = (8)
1-Apr-21	4,63,44,59,939	1-Apr-21	17-May-21	47	8.10%	59,67,66,074	4,83,38,052
						59,67,66,074	4,83,38,052



Appendix-4 to Enclosure - 3 to Form 13

Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Calculation of Weighted Average Rate of Interest for the Financial Year 2021-22Allahabad Bank

Outstanding Balance		Interest Period		No. of Days	Rate	Interest Amount (Rs.)	
Date	Amount (Rs.)	From	To			Product of Debt Amount	Interest
(1)	(2)	(3)	(4)	(5)	(6)	'2' X '5' / 365 = (7)	'7' X '6' = (8)
1-Apr-21	3,09,05,70,050	1-Apr-21	17-May-21	47	8.10%	39,79,63,815	3,22,35,069
						39,79,63,815	3,22,35,069

Appendix-5 to Enclosure - 3 to Form 13

Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Calculation of Weighted Average Rate of Interest for the Financial Year 2021-22Vijaya Bank

Outstanding Balance		Interest Period		No. of Days	Rate	Interest Amount (Rs.)	
Date	Amount (Rs.)	From	To			Product of Debt Amount	Interest
(1)	(2)	(3)	(4)	(5)	(6)	'2' X '5' / 365 = (7)	'7' X '6' = (8)
1-Apr-21	2,84,62,13,511	1-Apr-21	17-May-21	47	8.10%	36,64,98,726	2,96,86,397
						36,64,98,726	2,96,86,397

Appendix-6 to Enclosure - 3 to Form 13

Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Calculation of Weighted Average Rate of Interest for the Financial Year 2021-22Punjab National Bank

Outstanding Balance		Interest Period		No. of Days	Rate	Interest Amount (Rs.)	
Date	Amount (Rs.)	From	To			Product of Debt Amount	Interest
(1)	(2)	(3)	(4)	(5)	(6)	'2' X '5' / 365 = (7)	'7' X '6' = (8)
1-Apr-21	2,36,21,01,749	1-Apr-21	17-May-21	47	8.10%	30,41,61,047	2,46,37,045
						30,41,61,047	2,46,37,045



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Appendix-7 to Enclosure - 3 to Form 13

Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Calculation of Weighted Average Rate of Interest for the Financial Year 2021-22

Axis Bank

Outstanding Balance		Interest Period		No. of Days	Rate	Interest Amount (Rs.)	
Date	Amount (Rs.)	From	To			Product of Debt Amount	Interest
(1)	(2)	(3)	(4)	(5)	(6)	'2' X '5' / 365 = (7)	'7' X '6' = (8)
1-Apr-21	1.84.89,12,367	1-Apr-21	17-May-21	47	8.10%	23,80,79,127	1,92,84,409
						23,80,79,127	1,92,84,409

Appendix-8 to Enclosure - 3 to Form 13

Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Calculation of Weighted Average Rate of Interest for the Financial Year 2021-22

Green Bonds (USD)

Outstanding Balance		Interest Period		No. of Days	Rate	Interest Amount (Rs.)	
Date	Amount (Rs.)	From	To			Product of Debt Amount	Interest
(1)	(2)	(3)	(4)	(5)	(6)	'2' X '5' / 365 = (7)	'7' X '6' = (8)
18-May-21	47,83,13,75,000	18-May-21	17-Nov-21	184	8.035%	24,11,22,54,795	1,93,73,11,498
18-Nov-21	46,11,06,24,500	18-Nov-21	31-Mar-22	134	8.035%	16,92,82,84,063	1,36,01,11,679
						41,04,05,38,858	3,29,74,23,177

Note: Interest rate of 8.03% is arrived after grossing up TDS applicable @ 5.78% on Green Bonds interest of 4.125% + Hedging cost of 3.6565% is added to the interest rate to arrive at the final interest cost to the company.

Details for forex. rates	USD	Rate in INR	Amount INR	Loan share for KW (92.64%)
Loan availed / Op. Balance	70,70,00,000	73.0250	51,62,86,75,000	47,83,13,75,000
Repayment	2,47,45,000	75.0600	1,85,73,59,700	1,72,07,50,500
Cl. Balance	68,22,55,000	75.8071	51,71,97,73,011	47,91,57,72,733



Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Calculation of Weighted Average Rate of Interest for the Financial Year 2022-23

SL. NO.	NAME OF LENDER	NATURE OF FACILITY	PRODUCT OF DEBT AMOUNT (Rs.)	INTEREST (Rs.)	WEIGHTED AVERAGE RATE OF INTEREST	REFERENCE APPENDIX
A1	RUPEE TERM LOAN:					
A2	FOREX TERM LOAN:					
1	Green Bonds (USD)		45,24,18,47,354	3,63,49,79,466	8.035%	Appendix-1 to Enclosure -4 to Form 13
	Total		45,24,18,47,354	3,63,49,79,466		
B	WEIGHTED AVERAGE RATE OF INTEREST ON RUPEE & FOREX TERM LOAN					
	Total Product of Debt Amount (Rs.)					45,24,18,47,354
	Total interest (Rs.)					3,63,49,79,466
	WEIGHTED AVERAGE RATE OF INTEREST ON RUPEE & FOREX TERM LOAN					
						8.0346%



Appendix-1 to Enclosure - 4 to Form 13

Name of the Petitioner : JSW Hydro Energy Limited

Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Calculation of Weighted Average Rate of Interest for the Financial Year 2022-23Green Bonds (USD)

Outstanding Balance		Interest Period		No. of Days	Rate	Interest Amount (Rs.)	
Date	Amount (Rs.)	From	To			Product of Debt Amount	Interest
(1)	(2)	(3)	(4)	(5)	(6)	'2' X '5' / 365 = (7)	'7' X '6' = (8)
1-Apr-22	47,91,57,72,733	1-Apr-22	17-May-22	47	8.035%	6,16,99,76,215	49,57,29,908
18-May-22	45,63,37,59,283	18-May-22	17-Nov-22	184	8.035%	23,00,44,15,638	1,84,83,01,592
18-Nov-22	43,76,58,30,283	18-Nov-22	31-Mar-23	134	8.035%	16,06,74,55,501	1,29,09,47,966
						45,24,18,47,354	3,63,49,79,466

Note: Interest rate of 8.03% is arrived after grossing up TDS applicable @ 5.78% on Green Bonds interest of 4.125% + Hedging cost of 3.6565% is added to the interest rate to arrive at the final interest cost to the company.

Details for forex. rates	USD	Rate in INR	Amount INR	Loan share for KW (92.64%)
Op. Balance	68,22,55,000	75.8071	51,71,97,73,011	47,91,57,72,733
Repayment	3,18,15,000	77.4220	2,46,31,80,930	2,28,20,13,450
Repayment	2,47,45,000	81.4800	2,01,62,22,600	1,86,79,29,000
Cl. Balance	62,56,95,000	82.2169	51,44,27,03,246	47,65,90,81,508



Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Calculation of Weighted Average Rate of Interest for the Financial Year 2022-23

SL. NO.	NAME OF LENDER	NATURE OF FACILITY	PRODUCT OF DEBT AMOUNT (Rs.)	INTEREST (Rs.)	WEIGHTED AVERAGE RATE OF INTEREST	REFERENCE APPENDIX
A1		RUPEE TERM LOAN:				
A2 1		FOREX TERM LOAN: Green Bonds (USD)	44,96,06,86,068	3,61,23,89,418	8.035%	Appendix-1 to Enclosure -5 to Form 13
	Total		44,96,06,86,068	3,61,23,89,418		
B	WEIGHTED AVERAGE RATE OF INTEREST ON RUPEE & FOREX TERM LOAN					
	Total Product of Debt Amount (Rs.)					
	Total interest (Rs.)					
	WEIGHTED AVERAGE RATE OF INTEREST ON RUPEE & FOREX TERM LOAN					
	44,96,06,86,068					
	3,61,23,89,418					
	8.0346%					



Name of the Petitioner : JSW Hydro Energy Limited

Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Calculation of Weighted Average Rate of Interest for the Financial Year 2023-24Green Bonds (USD)

Outstanding Balance		Interest Period		No. of Days	Rate	Interest Amount (Rs.)	
Date	Amount (Rs.)	From	To			Product of Debt Amount	Interest
(1)	(2)	(3)	(4)	(5)	(6)	'2' X '5' / 365 = (7)	'7' X '6' = (8)
1-Apr-23	47,65,90,81,508	1-Apr-23	17-May-23	47	8.035%	6,13,69,22,824	49,30,74,217
18-May-23	45,23,67,37,583	18-May-23	17-Nov-23	184	8.035%	22,80,42,73,192	1,83,22,21,044
18-Nov-23	43,31,19,54,583	18-Nov-23	31-Mar-24	135	8.035%	16,01,94,90,051	1,28,70,94,157
						44,96,06,86,068	3,61,23,89,418

Note: Interest rate of 8.03% is arrived after grossing up TDS applicable @ 5.78% on Green Bonds interest of 4.125% + Hedging cost of 3.6565% is added to the interest rate to arrive at the final interest cost to the company.

Details for forex. rates	USD	Rate in INR	Amount INR	Loan share for KW (92.64%)
Op. Balance	62,56,95,000	82.2169	51,44,27,03,246	47,65,90,81,508
Repayment	3,18,15,000	82.1830	2,61,46,52,145	2,42,23,43,925
Repayment	2,47,45,000	83.9600	2,07,75,90,200	1,92,47,83,000
Cl. Balance	56,91,35,000	83.3739	47,45,10,04,577	43,96,09,73,123



Calculation of Interest on Normative Loan

Name of the Petitioner : JSW Hydro Energy Limited

Name of the Generating Station : Karcham Wangfoo Hydro-Electric Plant

Sl. No.	Particulars	2018-19 Existing	2019-20	2020-21	2021-22	2022-23	2023-24
1	2		3	4	5	6	7
	Amount of Capital Cost - Opening		6,60,653.40	6,61,139.84	6,62,904.81	6,65,279.25	6,65,589.76
1	Gross Normative loan - Opening	4,61,753.35	4,62,457.38	4,62,797.89	4,64,033.36	4,65,695.47	4,65,912.83
2	Cumulative repayment of Normative Loan upto previous year	2,27,353.16	2,61,552.44	2,95,790.37	3,30,086.61	3,64,490.08	3,98,963.10
3	Net Normative loan - Opening	2,34,400.19	2,00,904.94	1,67,007.52	1,33,946.75	1,01,205.39	66,949.73
4	Add: Increase due to addition during the year / period	704.03	219.74	1,235.01	1,794.85	124.61	490.29
5	Less: Decrease due to de-capitalisation during the year / period		150.33	-	134.83	33.26	78.89
6	Less: Decrease due to reversal during the year / period (repayment of loan equal to depreciation claimed)	34,199.28	34,237.93	34,296.25	34,403.47	34,473.02	34,496.28
7	Add: Increase due to discharges during the year / period		271.11	0.46	2.09	126.00	-
8	Net Normative loan - Closing	2,00,904.95	1,67,007.52	1,33,946.75	1,01,205.39	66,949.73	32,864.85
9	Average Normative loan	2,17,652.57	1,83,956.23	1,50,477.14	1,17,576.07	84,077.56	49,907.29
10	Weighted average Rate of Interest	9.0274%	9.2499%	8.3380%	8.0664%	8.0346%	8.0346%
11	Interest on loan	19,648.46	17,015.73	12,546.77	9,484.16	6,755.25	4,009.83



Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Calculation of Interest on Working Capital

Sl. No.	Particulars	2018-19 Existing	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8
1	O & M Expenses *	20,127.27	11,710.14	12,268.31	12,853.09	13,465.74	14,107.59
2	Capital Spares (Form 17A)		41.33	20.58	614.69	124.91	14.30
3	Security Expenses #	-	544.02	310.97	309.69	581.23	596.04
4	O & M expenses (for one month)	1,677.27	1,024.62	1,049.99	1,148.12	1,180.99	1,226.49
5	Maintenance Spares (15%)	3,019.09	1,844.32	1,889.98	2,066.62	2,125.78	2,207.69
6	Receivables (2 months/ 45 days)	19,823.00	14,289.48	13,744.14	12,219.98	13,228.99	13,052.36
7	Total Working Capital	24,519.36	17,158.43	16,684.11	15,434.72	16,535.77	16,486.54
8	Rate of Interest	13.50%	12.05%	11.25%	10.50%	10.50%	12.00%
9	Interest on Working Capital	3,310.11	2,067.59	1,876.96	1,620.65	1,736.26	1,978.39

* O & M expenses approved by the Hon'ble Commission in CERC (terms & conditions of Tariff) Regulations 2019, for the FY 2019-20 to 2023-24



Security expenses considered based on audited books of accounts

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Security Exp					
Security guards at Corporate office: Company payroll	83.06	70.13	72.57	83.44	76.35
Security guards at Plant locations: Company payroll	460.29	240.85	237.12	257.99	234.94
Security agency deployed at Plant: M/s SIS Ltd (wef May'22)	-	-	-	239.81	284.75
Outstanding liability of 4th Reserve battalion	0.66	-	-	-	-
Sub total	544.02	310.97	309.69	581.23	596.04
No. of security personnel	123	83	70	136	136



Non-Tariff Income

Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

(Amount in Rs Lakh)

S. No	Parameters	2019-20	2020-21	2021-22	2022-23	2023-24
1	Income from rent of land or buildings	-	-	-	-	-
2	Income from sale of scrap	1	-	18	120	23
3	Income from advertisements	-	-	-	-	-
4	Sale of carbon credits	-	-	-	-	-
	Total	1	-	18	120	23

Note: to be submitted at the time of true up



Incidental Expenditure during Construction

Name of the Petitioner : JSW Hydro Energy Limited

Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

(Amount in Rs Lakh)

S. No	Parameters	Upto Schedule COD	Up to actual / anticipated COD
A	Expenses:		
1	Employees' Benefits Expenses		
2	Finance Costs		
3	Water Charges		
	Communication Expenses		
4	Power Charges	NOT APPLICABLE, COD 13.9.2011	
	Depreciation		
5	Other Office and Administrative Expenses		
6	Others ...		
7	Other pre-operating expenses		
B	Total Expenses		
	Less: Income from sale of tenders		
	Income from guest house		
	Income recovered from contractors		
	Interest on Deposits		
C	Net Amount of IEDC		



Name of the Petitioner : JSW Hydro Energy Limited

Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Actual Cash Expenditure

(Rs. In lacs)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
	Q1 to Q4	Q1 to Q4	Q1 to Q4	Q1 to Q4	Q1 to Q4
Expenditure towards gross block					
Add: expenditure towards CWIP					
Add: capital advances, if any	NOT APPLICABLE, COD 13.09.2011				
Less: undischarged liabilities (included above)					
Payment to Contractors / Suppliers towards capital assets					
Cumulative payments					



Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Statement of Liability Flow

Party	Asset / Work	Year of actual capitalisation	Original Liability	Liability as on 31.03.2019	Discharges (Yearwise)						Reversal (Yearwise)			
					2019-20	2020-21	2021-22	2022-23	2023-24	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
a. For assets eligible for normal ROE														
Land	Project Work	2011-12	1,260.00	1,089.41	-	-	-	-	-	-	-	-	-	-
Environment & Ecology	Project Work	2011-12	7,356.53	1,732.52	0.30	0.66	2.99	-	-	-	-	-	-	-
LADA	Project Work	2011-12	6,779.30	1,107.92	386.99	-	-	180.00	-	-	-	-	-	-
Interest Payable	Project Work	2011-12	3,300.84	-	-	-	-	-	-	-	-	-	-	-
Expenses Payable	Project Work	2011-12	385.01	-	-	-	-	-	-	-	-	-	-	-
Finance Expenses Payable	Project Work	2011-12	211.61	-	-	-	-	-	-	-	-	-	-	-
Other Liabilities	Project Work	2011-12	31,386.24	-	-	-	-	-	-	-	-	-	-	-
Total			50,679.51	3,229.84	387.29	0.66	2.99	180.00						
b. For assets eligible for ROE at weighted average rate of interests on loan														
			-	-	-	-	-	-	-	-	-	-	-	-
Total														

NIL



Name of the Petitioner : JSW Hydro Energy Limited

Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Operation and Maintenance expenses (Commercial operation on or after 1.4.2019)

(Amount in Rs. Lakh)

In case of the hydro generating stations declared under commercial operation on or after 1.4.2019

Total capital expenditure up to cutoff date (a)	NOT APPLICABLE , COD 13.9.2011
R&R Expenditure (b)	
IDC & IEDC (c)	
Capital cost considered for O&M expense(d)= (a)-(b)-(c)	
First year annualize O&M expenses @ 3.50% of above (e) = 3.50% of (d)	
O&M expense for next year @ 4.77% of above (f) = 4.77% of (e)	
Additional O&M expenses due to 7th Pay Commission Wage Revision	
Additional O&M expenses due to Minimum Wage Revision	
Additional O&M expenses due to Goods and Services Tax (GST)	•

Note: Additional O&M expenses with supporting documents and computations to be provided for respective years of Tariff Period.



PART II
FORM-17A

Details of Capital Spares

Name of the Petitioner : JSW Hydro Energy Limited
 Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant
 Region : Northern District : Kinnaur State : Himachal Pradesh
 (Rs. In Lakh)

S.No./ Year of expense	Details of Capital Spares and Expenses		Claimed as a part of additional Capitalisation	Funded through compensatory allowance	Funded through Special allowance (If Applicable)	Claimed as a part of stores and spares	Justification
	Name of spare	Amount					
1 / 2019-20	LT panel with DG Synchronization & Load Sharing	41.33	-	-	-	41.33	Outdated, manually operated switchgear, site-fabricated enclosures & stunds, and inadequate cable management due to space constraints needed new & improved spares. The switch fuse units and switchgear were from the project's initial construction phase and no longer meet current safety and operational standards. The equipment layout also fails to comply with modern safety norms, with insufficient spacing between units. Consequently, to ensure compliance with current safety regulations, enhance operational efficiency and to mitigate potential risks, it is imperative to upgrade the LT panel system with DG synchronization and load-sharing capabilities. This upgrade is necessary to meet the growing load demands, improve safety, and
2 / 2020-21	Module interface voltage Rating +3.3 VAC	20.58	-	-	-	20.58	The data center network has undergone a comprehensive revamp, with the existing switches upgraded to the latest Cisco 450+ series L3 core switches. This upgrade significantly enhances the network's performance, scalability and availability, ensuring that the infrastructure can support to the entire plant connectivity. The new core switches provide advanced Layer 3 (L3) routing capabilities, supporting sophisticated routing protocols that improve routing efficiency and network performance. These improvements contribute to the overall efficiency of the data center, ensuring better management of data traffic and optimized performance in large-scale environments, thereby ensuring high availability and reliability of network services.
3 / 2021-22	Spares to Up-grade DG & Sub station Automation	24.32	-	-	-	24.32	The existing DG and sub-station infrastructure requires urgent upgradation due to significant shortcomings that compromise operational efficiency and safety. The switchgear enclosures and mounting stands are site-fabricated, outdated and designs that date back to the project's construction phase. These include manually operated switchgear and switch-fuse units, which are no longer in compliance with modern standards. Furthermore, the spacing between equipment does not align with current safety norms, posing potential risks. Upgrading the system is essential to address these deficiencies and ensure compliance with safety regulations and operational reliability.



S.No./ Year of expense	Details of Capital Spares and Expenses		Claimed as a part of additional Capitalisation	Funded through compensatory allowance	Funded through Special allowance (If Applicable)	Claimed as a part of stores and spares	Justification
	Name of spare	Amount					
4 / 2021-22	1.06MWp Solar Plant Rooftop and Groundmount						The Solar plant is installed at rooftops and spare bins of Karcham Wangtoo HEP. This installation has facilitated the developer to reduce the cost of electricity consumed in its offices and staff quarters, thereby reducing O&M Expenses. This has also resulted in lower auxiliary consumption of the plant.
	IV Module	248.74	-	-	248.74		
	String Inverters	40.53	-	-	40.53		
	Module Mounting structure	37.53	-	-	37.53		
	Cables	38.54	-	-	38.54		
	Transformer	18.22	-	-	18.22		
5 / 2021-22	RMU Panel (HD)	9.69	-	-	9.69		The SF6 Gas Multi-Analyzer is an essential diagnostic tool utilized in gas-insulated switchgear (GIS) systems to ensure compliance with operational and safety standards. Its use facilitates the precise determination of critical parameters, including the purity of the SF6 gas, dew point, and temperature, thereby verifying the gas's efficacy as an insulator and arc suppressant. This analytical process is vital for maintaining the integrity and reliability of the GIS equipment, mitigating risks of operational failure, and ensuring adherence to regulatory norms concerning environmental and technical performance standards.
	Other System spares	30.23	-	-	30.23		
	Module Cleaning System	2.36	-	-	2.36		
	GAS Analyzer Portable,	18.64	-	-	18.64		
	Electrochemical SF6 GS		-	-			
6 / 2021-22	Heavy Equipment self Loading Concrete Mixer;	35.34	-	-	35.34		The self loading concrete mixer is a multifunctional machine designed to streamline construction operations by integrating the processes of material loading, blending, and transportation. It is engineered to self-load essential concrete ingredients, including cement, sand, aggregate and water, thereby ensuring efficient mixing and consistent quality of the concrete. Furthermore, its capability to transport the prepared concrete directly to the required location enhances operational efficiency, reduces manual labor and ensures compliance with construction timelines and quality standards, making it an indispensable asset in construction projects.
9 / 2021-22	Generator set diesel engine 380 kva 1500 RPM	89.02	-	-	89.02		The sub-station at Kuppa Camp, initially established to deliver power to various complexes, required upgradation to address significant operational and regulatory deficiencies. This sub-station was designed based on the load requirements at the time of its inception, which are now inadequate to meet the current and projected demands. Secondly, the switchgears and DG sets in use are of an outdated design and manually operated, limiting operational efficiency and automation capabilities. Thirdly, the noise levels of the DG sets exceed the permissible standards prescribed by the Pollution Control Board (PCB), necessitating compliance measures. Additionally, the DG engine exhibits abnormal heating even below its designed load capacity due to aging, compromising its reliability and efficiency. These deficiencies underscore the imperative for a comprehensive modernization to ensure regulatory compliance, operational efficiency and alignment with contemporary standards.



S.No./ Year of expense	Details of Capital Spares and Expenses		Claimed as a part of additional Capitalisation	Funded through compensatory allowance	Funded through Special allowance (If Applicable)	Claimed as a part of stores and spares	Justification
	Name of spare	Amount					
12 / 2021-22	CCTV Camera	21.53	-	-	-	21.53	The installation and use of CCTV cameras are governed by the Information Technology (Reasonable Security Practices and Procedures and Sensitive Personal Data or Information) Rules, 2011, under the Information Technology Act, 2000. At KWH/EP, 80 CCTV cameras, along with supporting infrastructure such as network video recorders, switches, LIUs, racks & installation and commissioning, have been deployed to ensure comprehensive surveillance and operational oversight. This system aids in deterring theft, resolving incidents promptly, and addressing security concerns. Additionally, CCTV footage serves as critical evidence for investigations, helping to disprove false claims and enhancing the accountability and safety of the Plant.
7 / 2022-23	Laboratory: Instrument, Disturb Unit, K-155	13.28	-	-	-	13.28	As per the statutory requirements of the Ministry of Environment, Forest and Climate Change (MoEF&CC), the expansion of the Karcham Wangtoo Hydroelectric Power Plant (HEP) must comply with the procedural framework outlined in the Environmental Clearance (EC) regulations. The Expert Appraisal Committee (EAC), in its 13th meeting held on 16-17th June 2021, considered and accepted the proposal for capacity enhancement in two stages: from 1000 MW to 1045 MW in the first stage and from 1045 MW to 1091 MW in the second stage. The acceptance of this proposal was contingent upon the amendment/expansion of the EC originally granted on 9th November 2005, incorporating additional and specific conditions aimed at ensuring enhanced environmental safeguards. These conditions are mandatory to mitigate the environmental impact of the proposed expansion and to ensure sustainable compliance with the applicable environmental and regulatory standards.
8 / 2022-23	VCB HT Panel Draw out 33KV, 1250 A	23.39	-	-	-	23.39	The existing station infrastructure required upgradation to address several critical deficiencies that posed operational and safety challenges. Firstly, the switchgear enclosures were site-fabricated and mounted on site-fabricated stands, lacking standardization and durability. Secondly, the switchgear types in use were those originally installed during the project's construction, rendering them outdated in terms of technology and performance. Thirdly, the manually operated design of the switchgears failed to meet modern automation and efficiency standards, thereby impacting operational reliability. Lastly, the spacing between equipment did not conform to current safety norms, increasing the risk of hazards and non-compliance with regulatory safety standards. These shortcomings necessitated an urgent and comprehensive upgrade to align the station with contemporary operational, safety, and regulatory requirements.



S.No./ Year of expense	Details of Capital Spares and Expenses		Claimed as a part of additional Capitalisation	Funded through compensatory allowance	Funded through Special allowance (If Applicable	Claimed as a part of stores and spares	Justification
	Name of spare	Amount					
10 / 2022-23	Ventilation System	88.24	-	-	-	88.24	The absence of a ventilation system in the flushing GOG area created significant occupational health and safety hazards, particularly during maintenance activities. The accumulation of welding fumes posed a serious risk to worker health and safety, resulting in work disruptions and non-compliance with Environment, Health, and Safety (EHS) standards. This issue had been a long-standing concern, impacting both operational efficiency and employee welfare. Recognizing the criticality of the matter, ensuring alignment with EHS requirements, the risks associated with fume accumulation is now mitigated.
11 / 2023-24	Early Warning system	14.30	-	-	-	14.30	In accordance with the provisions of the Dam Safety Act, 2021, and the guidelines issued by the Central Electricity Authority (CEA), it is mandatory for hydroelectric projects to install an Early Warning System (EWS). This requirement is aimed at enhancing the safety and preparedness measures for dam infrastructure, ensuring timely detection and communication of potential risks. The implementation of the EWS is a critical step towards mitigating the impact of dam-related emergencies on downstream areas, safeguarding human lives, property and the environment. Compliance with this mandate is essential for aligning operational practices with statutory safety standards and protocols.
	Total	815.81				815.81	

Aforesaid expenditure has been capitalised in books of accounts of the Petitioner, during respective financial year..

2019-20	41.33
2020-21	20.58
2021-22	614.69
2022-23	124.91
2023-24	14.30
	<u>815.81</u>



Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Details of statutory charges , if applicable
(Amount in Rs. Lakh)

Particulars	Unit rate	No. of units	Amount claimed
1	2	3	4
Electricity duty	NOT APPLICABLE		
Water cess	NOT APPLICABLE		
.....	NOT APPLICABLE		



Name of the Petitioner : JSW Hydro Energy Limited
Name of the Generating Station : Karcham Wangtoo Hydro-Electric Plant

Summary of issue involved in the petition

1. Petitioner:	JSW Hydro Energy Limited					
2. Subject	Application for true up of capital cost & generation tariff for 2019-24 tariff period under Regulation 13 of the CERC (Terms and Conditions of Tariff) Regulations, 2019 AND determination of generation tariff for 2024-29 tariff period under Regulation 9(2) of the CERC (Terms and Conditions of Tariff) Regulations, 2024, in respect of Karcham Wangtoo Hydro Electric Project (KW HEP)					
3. Prayer	The Petitioner prays that this Hon'ble Commission may be pleased to:					
	a) true up the capital cost and tariff for sale of power from Karcham Wangtoo HEP for the FY 2019-20 to FY 2023-24					
	b) in addition to true up AFC, allow 50% gain applicable to the Company on account of refinancing of loans done in Sept'15, for the control period FY 2019-20 to FY 2023-24					
	c) allow recovery of energy charges amounting to Rs 48.33 crores in FY 2024-25 in six equal installments along with LPS if any, towards the shortfall in energy charges in terms of Regulation 65 (7) & (8) of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 and LPS on the late payment of these installments					
	d) determine the tariff for the 2024-29 tariff period					
	e) allow additional capex for tariff period 2024-29					
	f) allow additions / alterations / changes / modifications to the Present Petition as may be necessary at a future date					
	g) pass such further order or orders as this Hon'ble Commission may deem fit and proper in the circumstances of the case					
4. Respondents						
Name of Respondents:						
	a.	PTC India Ltd, 2nd Floor, NBCC Tower, 15 Bhikaji Cama Place, New Delhi -110066				
	b.	Haryana Power Generation Corporation Limited, Through Its CMD, Plot No. C-7, Sector - 6, Panchkula, Haryana -134109				
	c.	Uttar Pradesh Power Corporation Limited, Through Its CMD Shakti Bhawan, 14, Ashok Marg, Lucknow - 226 001, Uttar Pradesh				
	d.	Jaipur Vidyut Vitran Nigam Limited, Through Its CMD, Vidyut Bhawan, Janpath, Jaipur - 302005, Rajasthan				
	e.	Ajmer Vidyut Vitran Nigam Limited, Through Its CMD, Vidyut Bhawan, Panchsheel Nagar, Makarwali Road, Ajmer- 305004, Rajasthan				
	f.	Jodhpur Vidyut Vitran Nigam Limited, Through Its CMD, New Power House, Industrial Area Jodhpur-342003, Rajasthan				
	g.	Punjab State Power Corporation Limited, Through Its CMD, The Mall, Old Pseb Building, Patiala-147 001, Punjab				
	h.	The State of Himachal Pradesh, Through Principal Secretary (MPP & Power), Government of Himachal Pradesh, Shimla- 171002, H.P				
	i.	HPSEB Ltd. Vidyut Bhawan, Shimla - 171004				
5. Project Scope	IC	1045 MW		*		
	DE (Gross)	4131.06 Mus		@		
	FEHS	12%		\$		
	AUX	1.20%				
	NAPAF	90%				
Cost	Sanction Cost (Rs Lakh)	6,60,653	(Capital cost as on 31.3.2019, admitted vide true up order dated 17.3.2022)			
	Latest RCE	NA				
Commissioning	Unit/Station COD	13-09-2011				
Claim		2019-20	2020-21	2021-22	2022-23	2023-24
	AFC (Rs. Lakh)	1,19,136	1,14,811	1,01,746	1,09,128	1,06,977
	Capital cost (Rs. lakh)	6,61,140	6,62,905	6,65,279	6,65,590	6,66,177
	Initial spare	NA, project COD 13.9.2011				
	NAPAF	90%	90%	90%	90%	90%
	Design Energy (Mus) @	4131.06	4131.06	4131.06	4131.06	4131.06
	Any Specific	Share of gain in interest cost against the refinancing done in Sept'2015.				
		Capital spares claimed as a part of O&M Exp., required for safe and smooth operations of the power plant.				

* Installed capacity of the plant has been updated from 1000MW to 1091 MW, by CEA wef 29.4.2021 in two stages. For the year 2021 and 2022 plant has successfully operated at first stage of 1045 MW. Application for 2nd stage of 1091 MW is under process at CEA.

@ Corresponding to 1000 MW

\$ As per IA dt. 18.11.1999: 12% upto 12 years, 18% from 13th year onwards



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Shah Gupta & Co.

Chartered Accountants

Annexure T1

INDEPENDENT AUDITOR'S CERTIFICATE

To,
The Board of Directors of
JSW Hydro Energy Limited

Re: Certificate on agreed upon procedures for confirmation of certain financial information in the application made under Regulation 13 of the CERC (Terms and Conditions of Tariff) Regulations, 2019, in respect of Karcham Wangtoo Hydro Electric Project (KWHEP) for true up of capital cost and generation tariff for 2019-24 tariff period (the 'Statement').

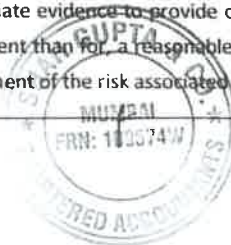
1. This Certificate is issued in accordance with the terms of our engagement with JSW Hydro Energy Limited (the 'Company' or 'JSWHEL') and having its registered office at Sholtu Colony, P.O Tapri, Dist-Kinnaur, Himachal Pradesh.
2. We, Shah Gupta & Co. Chartered Accountants, the Statutory Auditors of JSW Hydro Energy Limited have received a request from the Company that, it has to file an application for true up of capital cost and generation tariff for 2019-24 tariff period under Regulation 13 of CERC (Terms and Conditions of Tariff) Regulations, 2019 ('CERC Regulations 2019'), in respect of Karcham Wangtoo Hydro Electric Project ('KWHEP') a unit of the Company [the 'application']. Accordingly, we have to confirm that the financial information in the application is accurately extracted from the audited books of account and other records of Company for the financial years ended March 31, 2020, 2021, 2022, 2023 and 2024 produced to us for our examination.
3. Our engagement was undertaken in accordance with the Standard on Related Services (SRS) 4400 ("SRS 4400") "Engagements to Perform Agreed-upon Procedures regarding Financial Information", issued by the Institute of Chartered Accountants of India.

Management's responsibility for preparation of the Statement

4. The preparation of this Statement is the responsibility of the Management of the Company including the creation and maintenance of all accounting and other records supporting its contents. This responsibility includes the design, implementation and maintenance of internal control relevant to the preparation and presentation of the Statement and applying an appropriate basis of preparation; and making estimates that are reasonable in the circumstances.
5. The Board of Directors of the Company are responsible for the preparation of the application for true-up of capital cost and generation tariff for 2019-24 tariff period and its compliance with the relevant laws and regulations, including the applicable accounting standards read with the rules made thereunder. The Management is also responsible for ensuring that the Company complies with the requirements of the CERC (Terms and Conditions of Tariff) Regulations, 2019 and for providing all relevant information to the Central Electricity Regulatory Commission (CERC).

Auditor's responsibility

6. Our responsibility for the purpose of this certificate is perform agreed upon procedure on whether the financial information in the application have been accurately extracted from the audited financial statements, books of account of the unit and other records for the financial years ended March 31, 2020, 2021, 2022, 2023 and 2024 produced to us for our examination and the same is arithmetically accurate.
7. Nothing contained in this certificate, nor anything said or done in the course of, or in connection with the services that are subject to this certificate, will extend any duty of care that we may have in our capacity of the statutory auditors of any financial statements of the Company.
8. The engagement involves performing procedures to obtain sufficient appropriate evidence to provide conclusion on the Statement. The procedures performed vary in nature and timing from, and are less in extent than for, a reasonable assurance engagement. The procedures selected depend on the auditor's judgement, including the assessment of the risk associated with reporting criteria.



- 9. We have performed following procedures to obtain sufficient appropriate evidence supporting the figures mentioned in the statement and to ensure if the same are in accordance with requirements:
 - a. Obtained the copy of application for true-up of capital cost and generation tariff for 2019-24 tariff period of KWHEP as prepared by the management of the Company.
 - b. Obtained the copies of True up Tariff order for MYT 2014-2019 and determination of tariff for period 2019-2024 vide order in Petition No. 391/GT/2019 dated March 17, 2022
 - c. Obtained the audited financial statements of the Company as on and for the financial years ended March 31, 2020, March 31, 2021, March 31, 2022, March 31, 2023 and March 31, 2024.
 - d. Traced the amounts and details forming part of the application with underlying books of account and other relevant records and documents maintained by the Company and verified the arithmetical accuracy of the computation/calculation.
 - e. We have compared the amounts on the attached copy of the various forms of the application to the corresponding amounts appearing in the audited financial statements, accounting records, other financial records and any other relevant records and documents of the Company, necessary or required for verification of the relevant information.
 - f. Checked the arithmetic accuracy or computation of the percentages or amounts based on the computation methodology and formula provided to us by the management.
 - g. The agreed upon procedures and relevant data / information provided for the verification of the financial figures in the forms in relation to the application have been mentioned in the Annexure 1 - Details of the information provided and agreed upon procedures performed.
- 10. We conducted our examination of the statement in accordance with the Guidance Note on Reports or Certificates for Special Purposes issued by the Institute of Chartered Accountants of India which include the concept of test check and materiality. The Guidance Note requires that we comply with the ethical requirements of the Code of Ethics issued by the Institute of Chartered Accountants of India.
- 11. Our engagement was undertaken in accordance with the Standard on Related Services (SRS) 4400, "Engagements to Perform Agreed-Upon Procedures regarding Financial Information", issued by the Institute of Chartered Accountants of India. Although this standard is directed at engagements to perform agreed upon procedures regarding financial information, it provides useful guidance for engagements regarding non-financial information as well. As the above procedures do not constitute either an audit or a review made in accordance with the generally accepted auditing standards in India, we do not express any assurance.
- 12. Our scope of work did not involve performing any audit tests in the context of our examination. We have not performed an audit, the objective of which would be the expression of an opinion on the financial statements, specified elements, accounts or items thereof, for the purpose of this certificate. Accordingly, we do not express such opinion.
- 13. We have complied with the relevant applicable requirements of the Standard on Quality Control (SQC) 1, Quality Control for Firms that Perform Audits and Reviews of Historical Financial Information, and Other Assurance and Related Services Engagements.

Conclusion

- 14. Based on our procedures performed by us as described in paragraph 6 above, the information and explanations given to us we, read with *Other Matters para* below, confirm that the amounts forming part of the application being filed for true-up of capital cost and generation tariff for 2019-24 tariff period of KWHEP [refer forms including their enclosures] are accurately extracted from the sources mentioned in Annexure-1 and are in agreement with the books of account and other records of the Company as produced before us for our verification.



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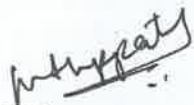
Other Matters

15. In the course of the verification, we were provided with both written and verbal information, including financial data. We have evaluated the information provided to us by the Company through broad inquiry, analysis and review in accordance with the auditing standards generally accepted in India. Verification includes examining, on a test check basis, evidence supporting the amounts, and disclosures. Also, we assume no responsibility for technical information furnished by the Company, which are believed to be reliable. Management is responsible for ensuring that the Company complies with the requirements of the CERC (Terms and Conditions of Tariff) Regulations, 2019 and for providing all relevant information to the CERC and our examination did not extend to any other parts and aspects of a legal or proprietary nature in the true-up petition and generation tariff including compliance with the CERC Regulations.

Restriction of use

16. This certificate is issued for the sole use of the Board of Directors of the Company, to whom it is addressed, for submission to CERC and should not be used for any other person or purpose or distributed to anyone or referred to in any document. Our examination relates to the matters specified in this certificate and does not extend to the Company as a whole. We make no representations regarding compliance with company law or any other statutory requirements. Accordingly, we do not accept or assume any liability or any duty of care or for any other purpose or to any other party to whom it is shown or into whose hands it may come. We have no responsibility to update this report for events and circumstances occurring after the date of this certificate.

For **SHAH GUPTA & CO.**
Chartered Accountants
Firm Registration No: 109574W



Parth P Patel
M. No.: 172670
UDIN: 25172670BMKVBI7270
Place: Mumbai
Date: January 9, 2025



Information received from Company

The following information has been provided by the Company and documents reviewed by us:

Sr. No.	Annexure name	Details in Annexure	Information/explanation received from the Company/Source of Information or Documents reviewed
1	FORM-1	Summary of Tariff (Annual Fixed Cost components only)	Arithmetic accuracy of the figures derived from various forms
2	FORM-1 (I)	Statement showing claimed capital cost- (A+B)	Arithmetic accuracy of the figures derived from Form 9E and Form 9B
3	FORM-1 (II)	Statement showing Return on Equity at Normal Rate	Arithmetic Accuracy of the figures derived from Form 1(I), Form 2, Form 9E and Form 9B
4	FORM-2	Details of COD, Type of Hydro Station, Normative Annual Plant Availability Factor (NAPAF) & Other normative parameters considered for tariff calculation	1. Arithmetic accuracy of the figures derived from Form 13 2. True up Tariff order for MYT 2014-2019 and determination of tariff for period 2019-2024 vide order in Petition No. 391/GT/2019 dated March 17, 2022 3. Income Tax Return for Effective Tax rates for respective Assessment years 4. SBI Base rates for respective years
5	FORM-4	Details of Foreign loans	Not Applicable
6	FORM-4A	Details of Foreign Equity	Not Applicable
7	FORM-5	Abstract of Admitted Capital Cost for the existing Projects	True up Tariff order for MYT 2014-2019 and determination of tariff for period 2019-2024 vide order in Petition No. 391/GT/2019 dated March 17, 2022
8	FORM-5A	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New projects	Not Applicable
9	FORM-5B	Break up of Capital Cost for New Hydro Power Generating Station	Not Applicable
10	FORM-5C	Break Up Of Capital Cost For Plant & Equipment (New Projects)	Not Applicable
11	FORM-5D	Break up of Construction / Supply / Service Packages	Not Applicable
12	FORM-5Ei	In case there is cost over run	Not Applicable
13	FORM-5Eii	In case there is time over run	Not Applicable
14	FORM-6	Financial Package upto COD	True up Tariff order for MYT 2014-2019 and determination of tariff for period 2019-2024 vide order in Petition No. 391/GT/2019 dated March 17, 2022
15	FORM-7	Details of Project Specific Loans	True up Tariff order for MYT 2014-2019 and determination of tariff for period 2019-2024 vide order in Petition No. 391/GT/2019 dated March 17, 2022
16	FORM-7A	Details of Project Specific Loans (Loans A)	True up Tariff order for MYT 2014-2019 and determination of tariff for period 2019-2024 vide order in Petition No. 391/GT/2019 dated March 17, 2022
17	FORM-7B	Details of Project Specific Loans (Loans B)	True up Tariff order for MYT 2014-2019 and determination of tariff for period 2019-2024 vide order in Petition No. 391/GT/2019 dated March 17, 2022
18	FORM-7C	Details of Project Specific Loans (Loan C- Re-financed)	True up Tariff order for MYT 2014-2019 and determination of tariff for period 2019-2024 vide order in Petition No. 391/GT/2019 dated March 17, 2022
19	FORM-7D	Details of Project Specific Loans (Loan D- Forex loans)	Sanction Letters for Green Bond Loan



Sr. No.	Annexure name	Details in Annexure	Information/explanation received from the Company/Source of Information or Documents reviewed
20	Enclosure-1 to Form 7D	Repayment Schedule (Loan D)	Sanction Letters for Green Bond Loan
21	FORM- 8	Details of allocation of corporate loans to various projects	Not Applicable
22	FORM-9A	Year wise Statement of Additional Capitalisation after COD (FY 2019-20)	<ol style="list-style-type: none"> 1. Audited Financial Statements of JSW Hydro Energy Limited - KWHEP for FY 2019-20 2. Fixed Asset Register for Karcham Wangtoo Hydro for FY 2019-20 3. True up Tariff order for MYT 2014-2019 and determination of tariff for period 2019-2024 vide order in Petition No. 391/GT/2019 dated March 17, 2022
23	FORM-9A	Year wise Statement of Additional Capitalisation after COD (FY 2020-21)	<ol style="list-style-type: none"> 1. Audited Financial Statements of JSW Hydro Energy Limited KWHEP for FY 2020-21 2. Fixed Asset Register AR02 for Karcham Wangtoo Hydro for FY 2020-21 3. True up Tariff order for MYT 2014-2019 and determination of tariff for period 2019-2024 vide order in Petition No. 391/GT/2019 dated March 17, 2022
24	FORM-9A	Year wise Statement of Additional Capitalisation after COD (FY 2021-22)	<ol style="list-style-type: none"> 1. Audited Financial Statements of JSW Hydro Energy Limited KWHEP for FY 2021-22 2. Fixed Asset Register for Karcham Wangtoo Hydro for FY 2021-22 3. True up Tariff order for MYT 2014-2019 and determination of tariff for period 2019-2024 vide order in Petition No. 391/GT/2019 dated March 17, 2022
25	FORM-9A	Year wise Statement of Additional Capitalisation after COD (FY 2022-23)	<ol style="list-style-type: none"> 1. Audited Financial Statements of JSW Hydro Energy Limited KWHEP for FY 2021-22 2. Fixed Asset Register for Karcham Wangtoo Hydro for FY 2021-22 3. True up Tariff order for MYT 2014-2019 and determination of tariff for period 2019-2024 vide order in Petition No. 391/GT/2019 dated March 17, 2022
26	FORM-9A	Year wise Statement of Additional Capitalisation after COD (FY 2023-24)	<ol style="list-style-type: none"> 1. Audited Financial Statements of JSW Hydro Energy Limited KWHEP for FY 2023-24 2. Fixed Asset Register AR02 for Karcham Wangtoo Hydro for FY 2023-24 3. True up Tariff order for MYT 2014-2019 and determination of tariff for period 2019-2024 vide order in Petition No. 391/GT/2019 dated March 17, 2022
27	FORM-9B	Statement of Additional Capitalisation during end of the Project	Not Applicable
28	FORM-9Bi	Details of Assets De-capitalized during the period	Fixed Asset Register for Karcham Wangtoo Hydro from FY 2019-20 to FY 2023-24
29	FORM-9C	Statement showing reconciliation of ACE claimed with the capital additions as per books	Arithmetic accuracy of the figures derived from Form 9E
30	FORM-9D	Statement showing items/assets/works claimed under Exclusions:	Not Applicable
31	FORM-9E	Statement of Capital cost	<ol style="list-style-type: none"> 1. Arithmetic accuracy of the figures derived from respective years Form 9A 2. True up Tariff order for MYT 2014-2019 and determination of tariff for period 2019-2024 vide order in Petition No. 391/GT/2019 dated March 17, 2022



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Sr. No.	Annexure name	Details in Annexure	Information/explanation received from the Company/Source of Information or Documents reviewed
32	FORM-9F	Statement of Capital Woks in Progress	Not Applicable
33	FORM-10	Financing of Additional Capitalisation	Not Applicable
34	FORM-11	Calculation of depreciation on original project cost	True up Tariff order for MYT 2014-2019 and determination of tariff for period 2019-2024 vide order in Petition No. 391/GT/2019 dated March 17, 2022
35	FORM-12	Statement of Depreciation	1. Arithmetic accuracy of the figures derived from Form 9E and Form 9B 2. True up Tariff order for MYT 2014-2019 and determination of tariff for period 2019-2024 vide order in Petition No. 391/GT/2019 dated March 17, 2022
36	FORM-13	Calculation of Weighted Average Rate of Interest on Actual Loans	1. Arithmetic accuracy of the workings 2. Audited Financial Statements of JSW Hydro Energy Limited KWHEP from FY 2019-20 to FY 2023-24 (for principal outstanding) 3. True up Tariff order for MYT 2014-2019 and determination of tariff for period 2019-2024 vide order in Petition No. 391/GT/2019 dated March 17, 2022 4. Interest rates as provided by respective banks
37	Enclosure-1 to Form 13 (Appendix-1 to 7) to Enclosure-1 to Form 13	Calculation of Weighted Average Rate of Interest for the Financial Year 2019-20	
38	Enclosure-2 to Form 13 (Appendix-1 to 7) to Enclosure-2 to Form 13	Calculation of Weighted Average Rate of Interest for the Financial Year 2020-21	
39	Enclosure-3 to Form 13 (Appendix-1 to 8) to Enclosure-3 to Form 13	Calculation of Weighted Average Rate of Interest for the Financial Year 2021-22	
40	Enclosure-4 to Form 13 (Appendix-1) to Enclosure-4 to Form 13	Calculation of Weighted Average Rate of Interest for the Financial Year 2022-23	
42	Enclosure-5 to Form 13 (Appendix-1) to Enclosure-5 to Form 13	Calculation of Weighted Average Rate of Interest for the Financial Year 2023-24	
44	FORM-13A	Calculation of Interest on Normative Loan	
46	FORM-13B	Calculation of Interest on Working Capital	1. Arithmetic accuracy of the figures derived from Form 17A and Form 2 2. Audited Financial Statements of JSW Hydro Energy Limited KWHEP from FY 2019-20 to FY 2023-24 3. True up Tariff order for MYT 2014-2019 and determination of tariff for period 2019-2024 vide order in Petition No. 391/GT/2019 dated March 17, 2022
47	FORM-13C	Non-Tariff Income	Audited Financial Statements of JSW Hydro Energy Limited KWHEP from FY 2019-20 to FY 2023-24



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Sr. No.	Annexure name	Details in Annexure	Information/explanation received from the Company/Source of Information or Documents reviewed
48	FORM- 13D	Incidental Expenditure during Construction	Not Applicable
49	FORM-14	Draw Down Schedule for Calculation of IDC & Financing Charges	Not Applicable
50	FORM-14A	Actual Cash Expenditure	Not Applicable
51	FORM- 16	Statement of Liability Flow	Arithmetic accuracy of the figures derived from Form 9A of respective years
52	FORM- 17	Operation and Maintenance expenses (Commercial operation on or after 1.4.2019)	Not Applicable
53	FORM- 17A	Details of capital spares for control period 2019-24	Fixed Asset Register for Karcham Wangtoo Hydro from FY 2019-20 to FY 2023-24
54	FORM- 18	Details of statutory charges, if applicable	Not Applicable
55	FORM- 19	Summary of issue involved in the petition	1. Arithmetic accuracy of the figures derived from Form 5, Form 1 and Form 1(i) 2. True up Tariff order for MYT 2014-2019 and determination of tariff for period 2019-2024 vide order in Petition No. 391/GT/2019 dated March 17, 2022



Annexure T2



सत्यमेव जयते
GOVERNMENT OF INDIA
MINISTRY OF CORPORATE AFFAIRS

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Office of the Registrar of Companies
Corporate Bhawan, Plot No.-4, IInd Floor Sec.-27B, Chandigarh, Chandigarh, India, 160019

Certificate of Incorporation pursuant to change of name
[Pursuant to rule 29 of the Companies (Incorporation) Rules, 2014]

Corporate Identification Number (CIN): U40101HP2014PLC000681

I hereby certify that the name of the company has been changed from HIMACHAL BASPA POWER COMPANY LIMITED to JSW HYDRO ENERGY LIMITED with effect from the date of this certificate and that the company is limited by shares.

Company was originally incorporated with the name HIMACHAL BASPA POWER COMPANY LIMITED.

Given under my hand at Chandigarh this Eleventh day of September two thousand eighteen.



MAHINDER SINGH PACHOURI

Registrar of Companies
RoC - Himachal Pradesh

Mailing Address as per record available in Registrar of Companies office:

JSW HYDRO ENERGY LIMITED

Karcham-Wangtoo H. E. Project, Sholtu Colony, P. O. Tapri, Sholtu, Kinnaur, Himachal Pradesh,
India, 172104



**CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI**

Petition No. 391/GT/2019

122

Coram:

Shri P.K. Pujari, Chairperson

Shri I.S. Jha, Member

Shri Arun Goyal, Member

Shri Pravas Kumar Singh, Member

Date of Order: 17th March, 2022

IN THE MATTER OF

Petition for revision of tariff for the 2014-19 tariff period after truing up exercise and determination of tariff for the period 2019-24 in respect of Karcham Wangtoo Hydroelectric Project (1000 MW)

AND

IN THE MATTER OF

JSW Hydro Energy Limited,
Registered Office: Juit Complex
P.O. Dumehar Bani
Kanda Ghat-173215, Solan District, Himachal Pradesh

.....Petitioner

Vs

1. PTC India Limited,
NBCC Tower,
15, Bhikaji Cama Place,
New Delhi-110066

2. Haryana Power Generation Corporation Limited,
Plot No. C-7, Sector-6, Panchkula
Haryana-134 109

3. Uttar Pradesh Power Corporation Limited,
Shakti Bhawan, 14, Ashok Marg,
Lucknow-226 001

4. Jaipur Vidyut Vitran Nigam Limited,
Vidyut Bhawan, Janpath
Jaipur-302 005

5. Ajmer Vidyut Vitran Nigam Limited,
Vidyut Bhawan, Panchsheel Nagar, Makarwali Road, Ajmer-305 004



6. Jodhpur Vidyut Vitran Nigam Limited,
New Power House, Industrial Area,
Jodhpur-342 003

7. Punjab State Power Corporation Limited,
The Mall, Old PSEB Building,
Patiala-147001

8. Government of Himachal Pradesh,
Shimla-171002 (HP)

9. Himachal Pradesh State Electricity Board Limited,
Vidyut Bhawan,
Shimla-171004

.....Respondents

Parties Present

Shri Aman Anand, Advocate, JSWHEL
Shri Anurag Aggarwal, JSWHEL
Shri Ravi Kishore, Advocate, PTC
Shri M.G. Ramachandran, Senior Advocate, HPPC
Shri Shubham Arya, Advocate, HPPC
Ms. Ranjitha Ramachandran, Advocate, PSPCL
Shri Rajiv Mishra, HPPC
Shri Manish Garg, UPPCL

ORDER

The Petitioner, JSW Hydro Energy Limited, a company incorporated under the Companies Act, 1956 owns, operates and maintains Karcham Wangtoo Hydroelectric Project (1000 MW) (in short 'the Project' or 'the generating station'), a run of the river power station with pondage, located in the district of Kinnaur in the State of Himachal Pradesh. The Petitioner has filed the present petition for truing-up of tariff for the 2014-19 tariff period in terms of Regulation 8(1) of the 2014 Tariff Regulations and for approval of tariff for the 2019-24 tariff period in accordance with the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 (in short, 'the 2019 Tariff Regulations') in respect of the generating station.



Background

2. The dates of commercial operation (COD) of the units of the generating station are as under:

COD of Unit-1	COD of Unit-2	COD of Unit-3	COD of Unit-4/ generating station
26.5.2011	23.6.2011	8.9.2011	13.9.2011

3. Initially, Jaypee Karcham Hydro Corporation Limited ('JKHCL') was implementing the Project. JKHCL got amalgamated with Jaiprakash Power Ventures Limited ('JPVL') vide scheme of amalgamation approved by the Hon'ble High Court of Himachal Pradesh vide its order dated 25.7.2011 in Petition No. 19 of 2011. JPVL entered into a Power Purchase Agreement (PPA) with the Respondent No.1, PTC for purchase of 704 MW capacity of power for a period of 35 years from COD for onward sale on long term basis. Based on this, PTC entered into Power Sale Agreements (PSA) with PSEB for 200 MW, with HPGCL for 200 MW, with UPPCL for 200 MW and with Discoms (distribution companies) of Rajasthan (AVVNL, JVVNL and JoVVNL) for the balance 104 MW of power. A second supplementary agreement was executed on 20.12.2007 to amend the definition of COD of the project as 18.11.2011.

4. JPVL filed Petition No. 434/GT/2014 for determination of tariff of the Project for the period 2014-19 based on the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2014 (hereinafter referred to as "the 2014 Tariff Regulations"). While so, pursuant to the sanction of a Scheme of Arrangement between JPVL and Himachal Baspa Power Company Limited ('HBPCL') by the Hon'ble High Court of Himachal Pradesh on 25.6.2015, HBPCL filed Interlocutory



Application (IA No. 29/2015) and submitted that with effect from 1.9.2015, all pending suits, appeals or other proceedings, by or against JPVL, are to be continued and prosecuted by HBPCL. Accordingly, the Commission by its order dated 9.3.2016 in Petition No. 29/RC/2015 substituted the name of original Petitioner, JPVL with HBPCL in Petition No.434/GT/2014. Thereafter, the name of HBPCL was changed to JSW Hydro Energy Limited (JSWHEL), the Petitioner herein, vide approval of the Registrar of Companies, Himachal Pradesh vide certificate dated 11.9.2018. Any reference to JKHCL or JPVL or HBPCL in the present petition or documents attached hereto may be read as reference to JSWHEL, the Petitioner herein.

5. The Commission vide its order dated 30.3.2017 in Petition No. 434/GT/2014 had determined the capital cost and annual fixed charges of the generating station for the 2014-19 tariff period as under:

Capital cost allowed

		<i>(Rs. in lakh)</i>				
		2014-15	2015-16	2016-17	2017-18	2018-19
	Opening capital cost allowed	6,36,074.26	6,44,741.33	6,49,074.07	6,51,658.91	6,51,658.91
	Closing Gross Block claimed as per form-9E	693759.36	693759.36	696866.60	696866.60	696866.60
Less:	CWIP	-	-	-	-	-
Less	IDC claimed on account of capitalisation of Com facilities	4571.87	4571.87	4571.87	4571.87	4571.87
	IDC claimed on account of ACE	1010.17	1010.17	1010.17	1010.17	1010.17
	Current assets and advances	2104.13	2104.13	2104.13	2104.13	2104.13
	Undischarged liabilities	6917.58	2584.84	-	-	-
	IDC & FC claimed	103497.07	103497.07	103497.07	103497.07	103497.07
	Syndication fees included in IEDC	2020.32	2020.32	2020.32	2020.32	2020.32
	Cost reduction due to additional	14034.00	14034.00	14034.00	14034.00	14034.00



	overload capacity					
Less:	Deduction with respect to Notes to form 5B					
	Note-5 to form 5B	21.00	21.00	21.00	21.00	21.00
	Note-5,7,8 to from-5B	1800.00	1800.00	4907.24	4907.24	4907.24
	Note-7 to form 5B	2502.00	2502.00	2502.00	2502.00	2502.00
	Note-8 to form 5B	1045.00	1045.00	1045.00	1045.00	1045.00
	Preliminary expenses (Note-9)	201.00	201.00	201.00	201.00	201.00
Add:	IDC allowed	92829.00	92829.00	92829.00	92829.00	92829.00
	Capital cost before adjustment of initial spares	6,46,864.22	6,51,196.96	6,53,781.80	6,53,781.80	6,53,781.80
Less:	Adjustment for initial spares	2122.89	2122.89	2122.89	2122.89	2122.89
	Closing capital cost allowed	644741.33	649074.07	651658.91	651658.91	651658.91

Annual Fixed Charges allowed

	(Rs. in lakh)				
	2014-15	2015-16	2016-17	2017-18	2018-19
Return on Equity	40107.46	40514.54	40731.15	40812.09	40812.09
Interest on Loan	43724.45	40031.92	36034.26	31829.12	27505.93
Depreciation	33167.48	33504.12	33683.25	33750.19	33750.19
Interest on Working Capital	3535.73	3523.80	3500.56	3470.80	3439.14
O & M Expenses	15253.44	16266.27	17346.35	18498.15	19726.42
Total	135788.55	133840.64	131295.57	128360.35	125233.78

TRUING UP OF TARIFF FOR THE 2014-19 TARIFF PERIOD

6. Regulation 8 of the 2014 Tariff Regulations provides as under:

“8. Truing up

(1)The Commission shall carry out truing up exercise along with the tariff petition filed for the next tariff period, with respect to the capital expenditure including additional capital expenditure incurred up to 31.3.2019, as admitted by the Commission after prudence check at the time of truing up Provided that the generating company or the transmission licensee, as the case may be, shall make an application for interim truing up of capital expenditure including additional capital expenditure in FY 2016-17.”

7. The capital cost and annual fixed charges claimed by the Petitioner are as under:



Capital cost claimed

	(Rs. in lakh)				
	2014-15	2015-16	2016-17	2017-18	2018-19
Opening Capital Cost as on April of the year	679891.61	686587.93	686590.16	690197.10	691318.52
Add: Addition during the year	777.86	0.00	0.00	0.00	0.00
Less: Decapitalisation during the year	0.00	0.00	0.00	0.00	0.00
Less: Reversal during the year	0.00	0.00	0.00	0.00	0.00
Add: Discharges during the year	5918.46	2.23	3606.94	1121.42	1005.76
Closing Capital Cost	686587.93	686590.16	690197.10	691318.52	692324.28

Annual Fixed Charges claimed

	(Rs. in lakh)				
	2014-15	2015-16	2016-17	2017-18	2018-19
Return on Equity	42789.94	43207.74	43321.30	43470.08	52640.00
Interest on Loan	46994.53	38969.84	31015.07	25640.83	20850.04
Depreciation	35395.42	35568.93	35662.42	35784.90	35840.00
Interest on Working Capital	3756.91	3647.40	3531.29	3480.19	3653.02
O & M Expenses	15848.82	16963.72	18090.14	19291.32	20572.26
Total	144785.63	138357.64	131620.22	127667.32	133555.32

8. The Petitioner has revised the allowed closing capital cost of Rs.636074.26 lakh to Rs.679891.61 lakh as on 31.3.2014 by claiming some of the items which were disallowed in order dated 30.3.2017 in Petition No.434/GT/2014 and some additional claim in the instant petition. Accordingly, the Petitioner has claimed Rs.679891.61 lakh as opening capital cost as on 1.4.2014. The details of the same, submitted by the Petitioner vide its affidavit dated 9.8.2021 is as under:

Sl. No.		(Rs. in lakh) As on 31.3.2014
1	Capital cost approved for the purpose of tariff as on 31.3.2014 in order dated 30.3.2017 in Petition No. 434/GT/2014	636074.26
A	Add: Items disallowed but claimed in this petition	
2	IDC claimed on account of capitalisation of Common facilities	4571.87
3	IDC claimed on account of Additional Capital Expenditure	1010.17
4	Current Assets and Advances	2104.13
5	Un-discharged liabilities	15584.65
6	Error of IDC in Form 5B, disallowed	5590.39
7	Finance Charges and Syndication fee	7098.41



8	Service tax	21.00
9	Entry tax	2502.00
10	Preliminary Expenses	201.00
11	Initial spares	2122.89
B	Add: Additional items claimed in true up petition 391/GT/2019	
12	IDC on excess equity	18099.00
13	Rectification of current assets as reconciled with balance sheet as on COD of unit 2	445.03
14	Increase in additional IDC due to re-calculation	51.46
15	Closing Capital cost considered in Form 9E as on 31.3.2014 in tariff forms for the period 2014-19	695476.26
16	Less: Amount of capital liabilities included above	15584.65
17	Closing capital cost as claimed in Form-1	679891.61

9. Reply to the Petition has been filed by the Respondent UPPCL vide affidavit dated 3.12.2019 and Respondent HPPC vide affidavit dated 9.9.2020. The Petition was heard on 13.4.2021 and the Commission after hearing the matter, directed the Petitioner vide ROP to submit certain additional information. In compliance, the Petitioner has filed the additional information vide affidavit dated 9.6.2021 and, thereafter, addendum to the said affidavit was also filed. The Respondent, PSPCL has filed its reply vide affidavit dated 6.5.2021. The Petitioner has filed its rejoinder to the replies of the Respondents vide separate affidavits dated 9.6.2021. Thereafter, the matter was heard on 16.7.2021 and the Commission, after hearing the parties, reserved its order in the petition, after directing the Petitioner to file certain additional information. In compliance to the same, the Petitioner has filed the additional information vide affidavit dated 9.8.2021. The Respondent PSPCL has filed its reply vide affidavit dated 17.8.2021 and the Respondent HPCC has filed its written submissions on 17.8.2021. Based on the submissions of the parties and the documents on record, we proceed for truing up the tariff for the 2014-19 tariff period in the subsequent paragraphs.



Time and Cost Overrun

10. As regards time and cost overrun, the Commission in its order dated 30.3.2017 in petition no.434/GT/2014 decided as under:

"Recommendation of DIA on Time and Cost Overrun

52. As regards time overrun, DIA in its report of August, 2012 on vetting of capital cost has recommended the following:

"Time Overrun

"According to the TEC accorded by the CEA in the year 2003, the Zero (Starting) Date had been taken as 1st January, 2004 by assuming that all the balance inputs / clearances (environmental clearance, forest clearance, financial closure, etc.) would be available within a period of six months from the date of issue of TEC. The project execution timeframe had been taken as 72 months with commissioning of all 4 units to be achieved by 31st December, 2009. However, the environment clearance was issued by the MoEF, Gol on 9th November, 2005 and the approval for diversion of forest land was issued by the MoEF, Gol on 17th November, 2005. The financial closure was thereafter achieved on 30th March, 2006.

However, the Starting Date for the Project had been taken by the Generating Company as 18th November, 2005. The project execution timeframe accordingly got revised to 18.11.2005 - 17.11.2011 which was communicated by the Generating Company to Govt. of H.P as well to CEA, Gol. The Govt. of H.P, thereupon, entered into the second Supplementary IA signed on 20.12.2007 with the Company wherein it was agreed that the Scheduled Commercial Operation Date (i.e. 18th November, 2011) shall be 144 months from the Effective Date of the initial IA which was 18.11.1999. The Generating Company had also taken up the issue of extension of TEC up to 31.3.2006 with CEA vide letter No. KW-101 dated 5.3.2005. The CEA, however, replied vide letter dated 18.11.2008 that with the enactment of the EA 2003, the fixation of tariff of all power projects is vested with the Regulatory Commissions. Therefore, FFP/Final Completion Cost of power projects is not to be approved by CEA. As such extending validity of TEC shall serve no purpose as the TEC remains valid in terms of Para 9 of CEA OM dated 31.3.2003."

53. As regards time overrun, the DIA in its report of May 2015 has observed that there is no impact on overall time frame of construction schedule of the project with respect to the change in overload capacity of the plant and hence, schedule of execution for existing project does not have any impact if it would have been 1000 MW with 10% overload capacity or with 20% overload capacity. It is also concluded that there is no impact of cost due to change in overload capacity of the project.

Cost Overrun

54. DIA in its report has examined the issue of cost overrun and has stated that the following issues/ reasons have impacted the completion cost of the project:

- i) Delayed start of works-
- ii) Change in design / scope of works
- iii) Regulatory requirements
- iv) Additional spare runners and other spares.
- v) Increase in Miscellaneous cost.



55. The above factors have been examined and the DIA in its report has recommended the following completion cost:

Capital Cost of the Project = TEC Cost + Increase in Cost
= (USD 117.44 million + RS. 5345.88 crores) +(USD 68.01 million + Rs. 704.40 crores)
= USD 185.45 million + Rs. 6050.28 crores
= Rs. 849.71 + Rs. 6050.28
= Rs. 6899.99 crores. Say Rs. 6900 Crores

56. The DIA has concluded that based on the various factors discussed in the report, the completion cost of Rs.6900.00 crore worked out by it is considered reasonable and the same has been recommended as the completion cost.

57. It is observed that as against the TEC completion cost of Rs.5909.59 crore, DIA has finally recommended completion cost of Rs.6759.66 crore. As such, there is significant variation between the completion cost vetted by DIA and the TEC approved capital cost. It is pertinent to mention that the Commission while determining/ revising the tariff of Central Government owned hydro generating stations of NHPC, SJVNL, THDC (after considering the report of DIA) has directed the Central Government owned hydro generating stations to seek revised cost estimates/completion cost of the project approved by the Central Government and place the same on record. In the process of approval of the revised cost estimates, the Central Government invariably consults and seeks recommendations from CEA and therefore, the capital cost of the hydro projects gets vetted by the CEA. The petitioner being a private company, its completion cost does not require the approval of the Central Government and therefore, CEA would not be involved to vet its capital cost. Accordingly, in absence of such recourse, Commission, for the present, has considered the DIA vetted cost, after carrying out the prudence check, as ceiling cost for the purpose of tariff. DIA report has considered certain un-discharged liabilities in the completion cost which have not been taken into account as the tariff has been based on the actual cash expenditure.

58. In this background, we proceed with the determination of completion cost based on DIA report and tariff of the generating station for the period 2014-19 based on Tariff Regulations 2014, as stated in subsequent paragraphs. The Commission is of the view that the expenditure may be vetted by the CEA before final truing up. Accordingly, we direct the petitioner to approach the CEA for vetting of the expenditure of the generating station on payment basis. CEA is requested to take expeditious action and vet the completion cost of the generating station within a period of 3 months. The same may be submitted along with the truing up petition by the petitioner.

Capital Cost

11. Regulation 9 of the 2014 Tariff Regulations provides as under

“9(1) The Capital cost as determined by the Commission after prudence check in accordance with this regulation shall form the basis of determination of tariff for existing and new projects;

(2) The Capital Cost of a new project shall include the following:

(a) the expenditure incurred or projected to be incurred up to the date of commercial operation of the project;

(b) Interest during construction and financing charges, on the loans



- (i) being equal to 70% of the funds deployed, in the event of the actual equity in excess of 30% of the funds deployed, by treating the excess equity as normative loan, or
- (ii) being equal to the actual amount of loan in the event of the actual equity less than 30% of the funds deployed;
- (c) Increase in cost in contract packages as approved by the Commission;
- (d) Interest during construction and incidental expenditure during construction as computed in accordance with Regulation 11 of these regulations;
- (e) capitalized Initial spares subject to the ceiling rates specified in Regulation 13 of these regulations;
- (f) expenditure on account of additional capitalization and de-capitalization determined in accordance with Regulation 14 of these regulations;
- (g) adjustment of revenue due to sale of infirm power in excess of fuel cost prior to the COD as specified under Regulation 18 of these regulations; and
- (h) adjustment of any revenue earned by the transmission licensee by using the assets before COD..."

12. Clause (1) of Regulation 9 of the 2014 Tariff Regulations provides that the capital cost as determined by the Commission after prudence check, in accordance with this Regulation, shall form the basis of determination of tariff for existing and new projects. It is pertinent to mention that the Commission in its order dated 30.3.2017 in Petition No. 434/GT/2014 had approved the completion cost of the generating station based on the vetting of DIA report, subject to vetting by CEA, as stated above. The Petitioner has submitted that it has approached CEA for vetting of capital cost of the generating station and CEA vide its letter dated 29.5.2017 addressed to the Commission has made the following comments:

"..... The matter has been considered in CEA and our comments are as follows:

1. *CEA, a statutory body constituted under the Electricity Act, 2003 is mandated to advice the appropriate Government and the appropriate Commission on all technical matters relating to generation, transmission and distribution of electricity.*
2. *No mandate has been extended to CEA to determine the completion cost of a generating station.*
3. *As such, CEA neither can be made a party for vetting of the completion cost of a generating station nor is responsible or provided with powers to advice CERC in such matters.*

It is therefore submitted that the completion cost of the said project cannot be determined by CEA, as CEA have no mechanism to examine/vet fait-accomplis expenditure."



13. In the light of the aforesaid comments of CEA, the Petitioner has submitted the following:

"DIA (Energy Infratech Pvt. Ltd.) is an accredited agency of the Commission itself which has carried out the vetting of the Capital Cost of the Karcham Wangtoo HEP duly considering all aspects related to the Capital Cost and has made a detailed report which is self-explanatory.

Commission itself has carried out detailed analysis of the Capital Cost vetted by DIA, contained in para 59 to 65 of the order dated 30.03.2017.

Commission in para 62 of the Order dated 30.03.2017 has cross checked the Capital Cost of the Karcham Wangtoo HEP with other similar hydro project i.e. Nathpa Jhakri of SJVNL in addition to the Capital Cost vetted by DIA and found the Capital cost of Karcham Wangtoo HEP as reasonable. The finding of the Commission in para 62 is given below:

"62. It is noticed that for the downstream project of Naptha Jhakri of SJVNL which achieved COD on 18.5.2004, the completion cost is Rs.5.71 crore / MW as per RCE-IV submitted to MOP, GOI. Accordingly, for this generating station, the completion cost of Rs.6.76 crore / MW considering the time gap of seven and half years appear reasonable. Based on this, we are inclined to accept the recommendations of the DIA for the completion cost of Rs. 6759.66 crore."

In view of the aforesaid facts and circumstances, the Petitioner respectfully submits that the Commission may be pleased to do away with the requirement of vetting of Capital Cost by CEA as directed vide Order dated 30.03.2017"

14. The Commission vide ROP of the hearing dated 16.7.2021 directed the Petitioner to furnish, amongst others, the following:

"(i)The status of the completion cost submitted for approval to CEA, after approval of the same by the State Government of Himachal Pradesh, as per TEC dated 31.3.2003"

15. In response, the Petitioner has submitted that the issue has been deliberated/ considered in paragraph 52 of the order dated 30.3.2017 in Petition No.434/GT/2014.

16. As regards the capital cost of the Project, it is noticed that the Commission, after prudence check of the recommendations of the Designated Independent Agency (DIA) (M/s Energy Infratech Pvt. Ltd) had allowed the completion cost of the Project. Considering the fact that CEA has declined to vet capital cost of the



generating station, we consider the capital cost of the generating station in the following paragraphs, in terms of its revised claim in paragraph 8 above.

IDC claimed on account of capitalisation of Common facilities

17. The Petitioner has claimed IDC amounting to Rs.4571.87 lakh on account of capitalization of common facilities. In this regard, the Commission vide order dated 30.3.2017 in Petition No.434/GT/2014 had observed the following:

88. As regards the additional IDC of Rs. 45.72 crore for the period from COD of Unit-1 (26.5.2011) to COD of the Unit-IV / generating station (12.9.2011), we are of the view that apportioning of capital expenditure equally between the units, benefits the beneficiaries by way of reduced tariff during the period starting from the COD of first unit to COD of the last unit and the additional IDC which accrues to the generator on this account trades off the reduced tariff it has received till COD of the last unit. However, in the present case the beneficiaries have not availed the benefit of reduced tariff during the period starting from the COD of first unit to COD of the last unit as the generator was selling the power on short term basis.

89. Further, Regulation 4(2) of the 2009 Tariff Regulations provides as under:

*“4(2). For the purpose of determination of tariff, the capital cost of a project may be broken up into stages, blocks, units, transmission lines and sub-stations, forming part of the project, if required:
Provided that where break-up of the capital cost of the project for different stages or units or blocks and for transmission lines or sub-stations is not available and in case of on-going projects, the common facilities shall be apportioned on the basis of the installed capacity of the units, line length and number of bays”.*

90. The petitioner has submitted that it has capitalized common facilities in the Books of Account at the time of capitalization of Unit-1 as per the Accounting Practice and accordingly capitalized the IDC in the Books of Account. In terms of the above regulation, all common facilities shall be apportioned on the basis of the installed capacity of the units, only where the break-up of the capital cost for different units is not available. However, in the present case, the unit-wise cost break up is available and hence, capacity wise allocation has not been undertaken.

91. In this background, we disallow the additional IDC of Rs. 45.72 crore claimed by the petitioner for the period from COD of Unit-1 (26.05.2011) to COD of the Unit-4 / generating station (12.9.2011).”

18. The Petitioner has submitted that though the Commission in its order dated 30.3.2017 has rightly observed that the sale of power to the beneficiaries under long term from 26.5.2011 to 12.9.2011 could not be made, it has escaped the attention of the Commission that the revenue earned from sale of power under short term (infir



power) has been adjusted in tariff during said period, to the benefit of the procurers. It has also stated that though sale of power started from 1.5.2014, but with effect from 1.4.2018, 100% power is being sold under long term arrangements. The Petitioner has further submitted that additional IDC from COD of Unit-1 (26.5.2011) to COD of Unit-4 (13.9.2011) amounting to Rs.45.72 crore was claimed in capital cost since the Petitioner had capitalized all common facilities in books of accounts, at the time of capitalization of Unit-1 as per accounting standards. The Petitioner has stated that due to difference of method of capitalization/ apportionment of common facilities in the books of account (which is as per accounting standard/ Company law) and the Tariff Regulations, IDC during COD of Unit-1 to COD of the last unit of the project has to be different. Due to capitalization of all common facilities at the time of capitalization of Unit-1, the capital cost in books of account is lower as compared to the capital cost calculated with apportionment of common facilities, on the basis of installed capacity, as per the tariff regulations. The Petitioner has illustrated as below:

Illustration:
Case 1 - As per Books of Account:

Cost as on 31.03.18	COD of unit 1 on 01.04.18	COD of unit 1 on 01.05.18	COD of unit 1 on 01.06.18	COD of unit 1 on 01.07.18
Individual unit cost	1000.00	1000.00	1000.00	1000.00
Common facilities	1000.00	-	-	-
Total	2000.00	1000.00	1000.00	1000.00
IDC @ 12% in FY 18-19	-	10.00	20.00	30.00
Cost	2000.00	1010.00	1020.00	1030.00

Total Cost is Rs. 5060

Case - 2 As per Tariff Regulations:

Cost as on 31.03.18	COD of unit 1 on 01.04.18	COD of unit 1 on 01.05.18	COD of unit 1 on 01.06.18	COD of unit 1 on 01.07.18
Individual unit cost	1000.00	1000.00	1000.00	1000.00
Common facilities	250.00	250.00	250.00	250.00
Total	1250.00	1250.00	1250.00	1250.00
IDC @ 12% in FY 18-19	-	12.50	25.00	37.50
Cost (Rs in crore)	1250.00	1262.50	1275.00	1287.50

Total Cost is Rs. 5075.00



19. The Petitioner has submitted that from the above illustration, the Commission may observe that there is difference in IDC during COD of Unit-1 to COD of Unit-4 in both scenarios, due to apportionment of common facilities. IDC in case-1 is Rs.60 as against IDC of Rs.75 in case-2. Also, the cash outflow in both cases are same, but in case-1, Rs.60 has been added to capital cost and Rs.15 will be debited to profit and loss account, as expenditure, and in case-2, Rs.75, will be added to the capital cost.

20. The Petitioner has submitted that in books of account, total cost of common facilities has been capitalized/ apportioned along with capitalization/ COD of Unit-1 which was to be apportioned 1/4th of cost in terms of the 2014 Tariff Regulations (as COD of Unit-1 of 250 MW was declared out of the total 1000 MW capacity). Part of IDC, which was to be added in the capital cost as per the 2014 Tariff Regulations, was debited to Profit & Loss Account, to comply with the Accounting Standard/ Company Law. It has stated that the calculations enclosed in Form-9E of Petition No. 434/GT/2014 and interest of Rs.45.72 crore was claimed in the capital cost, but disallowed by the Commission. Accordingly, the Petitioner has prayed that IDC of Rs.45.72 crore may be allowed.

21. We have examined the matter. It is noticed that IDC, based on the unit-wise apportionment of the accrued IDC was allowed in order dated 30.3.2017 in Petition No.434/GT/2014, in terms of Regulation 4(2) of the 2009 Tariff Regulations, which provides as under:

"4(2). For the purpose of determination of tariff, the capital cost of a project may be broken up into stages, blocks, units, transmission lines and sub-stations, forming part of the project, if required:

Provided that where break-up of the capital cost of the project for different stages or units or blocks and for transmission lines or sub-stations is not available and in case of on-going projects, the common facilities shall be apportioned on the basis of the installed capacity of the units, line length and number of bays".



22. The observations of the Commission in the said order dated 30.3.2017, is as under:

"90. The petitioner has submitted that it has capitalized common facilities in the Books of Account at the time of capitalization of Unit-1 as per the Accounting Practice and accordingly capitalized the IDC in the Books of Account. In terms of the above regulation, all common facilities shall be apportioned on the basis of the installed capacity of the units, only where the break-up of the capital cost for different units is not available. However, in the present case, the unit-wise cost break up is available and hence, capacity wise allocation has not been undertaken."

23. In view of the above-quoted decision in Petition No.434/GT/2014, the additional IDC claimed by the Petitioner is not allowed.

IDC claimed on account of Additional Capital Expenditure

24. The Petitioner had claimed IDC for Rs.1010.17 lakh on additional capital expenditure in Petition No.434/GT/2014 and the Commission in its order dated 30.3.2017, decided as under:

"92. The petitioner has claimed Rs. 10.10 crore towards IDC on additional capitalization from COD of unit -IV (13.9.2011) to 31.3.2014. However, the petitioner has not furnished any justification towards the claim for additional IDC on additional capital expenditure. It is also observed that the additional capital expenditure claimed by the petitioner during the period from 13.09.2011 to 31.03.2014 is mainly on account of discharge of the outstanding liabilities. In this regard, it is noticed from Form 9E of the petition that there has been no addition in gross block from CWIP during the said period, and addition in gross block by way of direct purchases is as stated under:

	(Rs. In lakh)		
	13-09-2011 to 31-03-2012	01-04-2012 to 31-03-2013	01-04-2013 to 31-03-2014
Addition in Gross Block Amount during the period (transfer from CWIP)	-	-	-
Addition in Gross Block Amount during the period (Direct purchases)	(-79.16)	(-1247.45)	(-857.81)
Amount of capital liabilities in above	-	-	1576.67

93. Accordingly, the addition in gross block by way of direct purchases is only in 2013-14 which is (on cash basis) Rs. 281.14 lakh only. It is evident from the above discussion that there has been no further fund infusion/ utilization/ transfer from CWIP after COD, whereas, IDC has been duly allowed on the entire debt infusion by the petitioner till COD. Accordingly, the claim of the petitioner is not justifiable and hence not allowed.



25. The Petitioner has submitted that it has incurred capital cost, on cash basis, after COD (as in enclosure 2 of Form 9E of the Petition No. 434/GT/2014) as under:

(Rs. in crore)

Sr. No.	Period	Amount	Equity 30%	Debt 70%	Interest @ 12.2%
1	14.9.2011 to 31.3.2012	250.67	75.20	175.46	5.91
2	1.4.2012 to 31.3.2013	38.19	11.46	26.73	1.63
3	1.4.2013 to 31.3.2014	60.39	18.11	42.27	2.55

26. The Petitioner has submitted that it has claimed interest on 70% of the expenditure i.e. notional loan for payment. It has stated that interest on loan for the said period has been calculated at the prevailing ROI on average balance. According to the Petitioner, 30% of cash flow is added to equity and 70% is treated as loan in terms of the Tariff Regulations, and IDC on the same is added to the capital cost. The Petitioner, in support of the same has relied upon the judgment dated 3.10.2019 in Appeal No.231/2017 (Powerlink v CERC & ors) and prayed that IDC on additional capital expenditure may be allowed.

27. We have examined the matter. As regards IDC on normative loan, APTEL vide its judgment dated 3.10.2019 held as under:

"8(ix) The Central Commission should have taken into consideration the aspect that whatever be the types of funds it is never free of cost. There is always a cost of funding. The argument that no actual loan for additional capital expenditure was taken and therefore it is not admissible for any normative IDC is wrong. It is the commercial decision of the Appellant whether to borrow the money from the market for the purpose of additional capitalization or use its internal accruals. In either case, the capitalization deserves to be given the Interest During Construction. For the simple reasons that if the internal accruals were not to be used as additional capital than it would have been invested in the market in any interest earning instrument. Additional capitalization is therefore entitled to be compensated in terms of normative IDC. The Central Commission should have considered this aspect that no funds are free funds."

28. In our view, the aforesaid judgment which mandates allowance of IDC on any fund infusion, irrespective of the source of fund, i.e. loan or equity, as relied upon by the Petitioner, in support of its claim for IDC on additional capital expenditure from



COD of last unit till the cut-off date of the generating station, is not applicable to the present case. In order dated 30.3.2017 in Petition No.434/GT/2014, IDC was denied on the basis that there is no fund infusion towards additional capitalization as claimed by the Petitioner. The Petitioner has considered discharge of 'liabilities as on COD' as cash flow for calculation of IDC, claimed on account of additional capital expenditure, whereas, there has been no further fund infusion/ utilization/ transfer from CWIP to COD and IDC has been duly allowed on the entire debt infusion by the Petitioner till COD, as observed in the said order dated 30.3.2017. In view of this, IDC on account of additional capital expenditure for Rs.10.10 crore is not allowed.

Current Assets and Advances

29. The Petitioner had claimed Current Assets and Advances amounting to Rs.2104.13 lakh. The Commission vide its order dated 30.3.2017 in Petition No.434/GT/2014, had observed as follows:

"70. The same have been considered for deduction from the capital cost claimed by the petitioner for arriving at the capital cost for tariff calculation. However, the petitioner is directed to submit the audited certificate in support of such submission with respect to current assets and advances".

30. In compliance of the aforesaid direction, the Petitioner has furnished Auditor certificate in support of current assets and advances for Rs.2104.13 lakh towards implementation of the Project, as on 31.3.2014.

31. It is evident from the auditor's certificate furnished by the Petitioner that the balance of advances is Rs.2104.13 lakh as on 31.3.2014. However, the reason for including 'advances' as part of capital expenditure has not been mentioned in the said certificate, nor has any clarification been furnished by the Petitioner. As such, the current assets and advances amounting to Rs.2104.13 lakh shall not form part of



the capital expenditure and in turn part of the capital cost allowed for the purpose of tariff. It is also pertinent to mention that the Petitioner has adjusted the 'current assets and advances' amounting to Rs.2104.13 lakh from the capital cost as on 31.3.2019, to arrive at the capital cost as on 1.4.2019, as the same was disallowed in order dated 30.3.2017 in Petition No.434/GT/2014. In view of this, the said amount is not allowed for inclusion in the capital cost for the purpose of tariff.

Error of IDC in Form 5B (Disallowed)

32. The Commission vide its order dated 30.3.2017 in Petition No.434/GT/2014 had allowed IDC for Rs.92829.00 lakh, considering the submissions in Form 5B, as under:

"81. The petitioner vide affidavit dated 27.10.2014 has submitted loan agreements and the bank wise details of the amount drawn, rate of interest applied etc. Based on this, the total interest from the 1st loan drawl till COD of each unit/ generating station has been calculated as Rs. 108399.12 lakh. However, the petitioner has not furnished the basis/ methodology of allocation of IDC to each of the units. In absence of this information, the IDC for tariff purpose has been allowed based on the amount of IDC as on 13.9.2011 claimed by the petitioner in Form 5B is Rs. 92829.00 lakh. Accordingly, IDC has been restricted to Rs. 92829.00 lakh as on 13-09.2011 for the purpose of tariff.

82. The capital cost allowed along with the IDC as above is subject to revision at the time of truing up exercise based on the balance sheet as on COD of each unit and basis of IDC allocation, to be furnished by the petitioner. The petitioner is also directed to furnish the reconciliation of the debt position as per Form-14 with the books of accounts for each year at the time of truing -up in terms of the Regulation 8 of the 2014 Tariff Regulations."

33. The Petitioner has submitted that while calculating the capital cost, the interest earned on deposits has been deducted twice, first from IDC and again from IEDC. The same is visible in the audited balance sheet as on 12.9.2011 i.e. total IDC and IEDC as on 12.09.2011 was Rs.1404.14 crore (IDC Rs.984.19 crore + FC Rs.50.77 crore + IEDC Rs.430.45 crore – interest earned Rs.55.89 crore). The same amount has been mentioned in Form-14 of the tariff filing forms earlier submitted to



Commission. Accordingly, the Petitioner has prayed that the revised Form 5B (enclosed in tariff filing forms submitted in the present petition) with correct presentation of IDC & FC may be considered and the correct IDC of Rs.98419.39 lakh may be allowed in the capital cost.

34. We have examined the matter. The Petitioner has submitted that the total of IDC and IEDC was Rs.1404.14 crore as on 12.9.2011, as verified from the balance sheet as on 12.9.2011. However, the same differs from the total amount (IDC Rs.984.19 crore + FC Rs.50.77 crore + IEDC Rs.430.45 crore – interest earned Rs.55.89 crore) submitted by the Petitioner for Rs.1409.52 crore, which could be verified from the balance sheet as on 31.3.2012. It is, therefore, evident from the submissions that while calculating capital cost, the interest earned on deposits has been inadvertently deducted twice by the Petitioner, first from IDC and then from IEDC. The Petitioner has revised Form 5B and has claimed the IDC amount of Rs.98419.39 lakh. However, as per consistent methodology adopted by the Commission, based on the information furnished by the Petitioner, IDC has been worked out as Rs.96488.62 lakh and is allowed.

Financing Charges and Syndication Fees

35. The Commission in its order dated 30.3.2017 in Petition No.434/GT/2014 while rejecting the prayer of the Petitioner, had granted liberty to the Petitioner as under:

“Financing Charges & Syndication fees

83. In compliance with the direction of the Commission to furnish reconciliation of the IDC & FC amounts claimed in Form 14 (Rs. 105517.39 lakh) and form 9E (Rs. 103497.07 lakh), the petitioner vide affidavit dated 24.12.2014 has submitted that the total amount of FC as per Form 14 includes syndication fees of Rs. 2020.32 lakh which has been included in IEDC in Form 9E. Accordingly, the break of IDC & FC claimed is as under:



		<i>Break up</i>		<i>(Rs. in lakh)</i>
		<i>IDC</i>	<i>Financing Charges</i>	<i>Total IDC & FC</i>
1	<i>As per Form 14</i>	98419.39	7098.00	105517.39
2	<i>As per Form 9E</i>	98419.39	5077.68	103497.07
3	<i>Difference (1-2)</i>		2020.32	2020.32

84. The petitioner has submitted that the difference in the amounts furnished in the two forms is on account of syndication fees of Rs. 2020.32 lakh, which has been included as IEDC in Form 9E and as Financing charges in Form 14. However, the petitioner has not furnished any supporting document, break up details in justification of the financial charges and syndication fees claimed (considered as IEDC in Form 9E). Similar issue was considered in Petition no.77/GT/2013 (determination of tariff of GMR- Kamalanga project for 2009-14), and the Commission by order dated 12.11.2015 had decided as under:

“69. The petitioner has not furnished detailed calculations and breakup of the financial charges claimed, along with the supporting documents to substantiate the unit-wise allocation of the financing charges. In the absence of the same, financing charges have not been allowed as of now, as a conservative measure. However, the petitioner is granted liberty to submit the details of expenditure incurred towards the financing charges along with detailed breakup/ calculations, duly certified by Auditor, along with all supporting bank documents, including the basis of unit-wise allocation of the financing charges, at the time of revision of tariff based on truing-up exercise in terms of Regulation 6(1) of the 2009 Tariff Regulations.”

“85. In line with the above decision, the claim of the petitioner with respect to Financing charges and Syndication fees has not been allowed. However, the petitioner is granted liberty to submit the details of expenditure incurred towards the financing charges/ syndication fees, detailed breakup/ calculations, duly certified by Auditor, along with all supporting bank documents, including the basis of unit-wise allocation of the financing charges, at the time of truing up of the tariff in terms of the Regulation 8 of the 2014 Tariff Regulations.”

36. In compliance to the aforesaid direction, the Petitioner has furnished the Auditor's certificate in support of the Financing charges/ Syndication fees along with a detailed break-up/ calculation. In addition, the Petitioner has submitted that the basis of unit-wise allocation of financing charges has been explained in Enclosure-1 to Form 9E as furnished in Petition No. 434/GT/2014.

37. The matter has been considered. The Petitioner has furnished the Auditor's certificate in support of the financing charges claimed. The Petitioner has also furnished the schedule of balance sheets, as documentary evidence, in support of



the same vide affidavit dated 26.10.2019 in the original petition. In addition to the above, the Petitioner has also submitted vouchers, general ledgers, bank statements, loan documents, bank certificates etc. in its rejoinder to the reply of the Respondent HPPC vide affidavit dated 4.5.2021. Accordingly, on prudence check, the financial charges amounting to Rs.5077.68 lakh and syndication fees amounting to Rs.2020.32 lakh are allowed.

Service Tax and Entry Tax

38. The Commission vide its order dated 30.3.2017 in Petition No.434/GT/2014 had observed as under:

"101. As regards the submission of the petitioner in Note-5, an amount of Rs 30.64 crore has already been included in the capital cost as on COD. In respect to the amount of Rs 21.00 lakh claimed as capitalization during the year 2013-14 as service tax, the petitioner has not clarified as to whether this amount pertains to undischarged liability included in the gross block value or is an amount accrued in the year 2013-14 and if so, on what account it has been accrued or paid.

Similarly, as regards the claim for additional capital expenditure of Rs. 4097.98 lakh during the period from 2014-17, the petitioner has submitted that the same is required to be paid. In the absence of proper justification, the claim of the petitioner is not allowed. Accordingly, the amount of Rs 21.00 lakh has been deducted from the gross block as on 31.3.2014 and Rs 4097.24 lakh from the gross block during the period from 2014-17 from the respective years as indicated in Form- 9A.

102. As regards the submission of the petitioner in Note-7, it is noticed that the petitioner has submitted that the entry tax amounting to Rs 17.87 crore (16.13 + 1.74) has been paid upto COD but has not been included in the capital expenditure. However, the reasons for not including the said amount in capital expenditure upto COD though paid, and claimed as additional capital expenditure has not been clarified by the petitioner. The petitioner has also submitted in Form-9A that the said amount has been considered as cash flow but it is not clear as to year in which the same has been considered. As regards the amount of Rs 7.15 crore and Rs 7.78 crore capitalized in 2013-14 and is required to be paid, no clarification has been submitted by the petitioner. Accordingly, the entire amount of entry tax amounting to Rs 32.80 crore has not been allowed on account of absence of information like the exact year of accrual/ payment, the reasons for not including the same in capital expenditure upto COD (stated to have been paid upto COD), the activities related to which the entry tax has been accrued after the period of COD.

Accordingly, these amounts have been deducted from the closing gross block (Form-9E) of the respective years (post COD) to arrive at the capital cost for the purpose of tariff. As the year of claiming capitalization of Rs 17.87 crore is not evident from Form- 9 A, the same has been deducted from the gross block as on 31.3.2012".



39. The Petitioner, in the present petition, has submitted as under:

(i) An amount of Rs.2101977 was paid as 'service tax' to the construction contractor M/s Jaiprakash Associates Limited (JAL) for RA bills up to 31.3.2013 and has been capitalized in books in 2013-14. The said amount was paid within the original scope of work of project though it had accrued and capitalized after COD and same is not a revenue expenditure. It is also clarified that it was not included in the un-discharged liability. The Commission may allow Rs.0.21 crore in the capital cost.

(ii) Additional capital expenditure towards Service tax for Rs.4097.98 lakh payable against RA bills of M/s Jaiprakash Associates Limited was demanded by the Service tax department vide show cause notice dated 20.10.2011. Accordingly, provision for said amount was kept in completion cost and not capitalized and formed part of un-discharged liability. JAL had filed appeal with the Commissioner (Appeals) against the demand of service tax, which was allowed in favour of JAL. Later, the Revenue Department filed appeal before CESTAT and the matter is pending.

(iii) The same amount is included in the un-discharged liability in the 2019-24 tariff period also, but no tariff is being claimed against the same. The Petitioner shall include this 'service tax' in the capital cost, if it is paid by the Petitioner, based on the orders of the competent authority.

(iv) Entry tax was levied as per Himachal Pradesh Tax on entry of goods as per Local Area Act, 2010 effective from 7.4.2010. The Petitioner had challenged the applicability of entry tax in Hon'ble Himachal Pradesh High Court and later in the Hon'ble Supreme Court. The Petitioner had paid 1/3rd entry tax in cash and 2/3rd in the form of pledged FDRs with Sales Tax department.

(v) The Hon'ble Supreme Court on 11th November, 2016 upheld the constitutional validity of the State legislations with regard to levy of entry tax on goods coming into its territory. By a 7:2 majority verdict, the Hon'ble Supreme



Court ruled that the tax legislation by the State does not require the consent of the President under Article 304B of the Constitution.

(vi) A Division Bench of the Hon'ble Supreme Court on 21.3.2017 in the case of State of UP & Ors v Indian Oil Corporation Ltd (in CA No. 997-998/2004) decided that the matter pertaining to entry tax is required to be examined by the respective High Courts, in view of the reference answered by the nine judges of the Hon'ble Supreme Court.

(vii) Based on directions in order dated 22.9.2010 of the Hon'ble High Court of Himachal Pradesh, an amount of Rs.327995358/- has been paid by the Petitioner towards 'Entry Tax' incurred up to 31.12.2011 against the project works of the generating station to the Himachal Pradesh Sales Tax department in the form of 1/3rd cash payment and 2/3rd bank FDRs pledged. The year-wise details of 'entry tax' payments and FDR pledged (as per order dated 22.9.2010 of Hon'ble High Court of Himachal Pradesh) are as under:

<i>(in Rupees)</i>				
Sr. No.	Entry tax assessment period	Cash payment (1/3 rd of the assessed amount)	FDR pledged (2/3 rd of the assessed amount)	Total entry tax amount
1	08.04.2010 to 30.09.2010	9,86,35,996	-	9,86,35,996
2	01.10.2010 to 28.02.2011	2,69,99,240	5,39,98,479	8,09,97,719
3	01.03.2011 to 31.03.2011	3,00,23,477	6,00,46,953	9,00,70,430
4	01.04.2011 to 30.06.2011	56,13,577	1,12,27,155	1,68,40,732
5	01.07.2011 to 30.09.2011	1,02,67,686	2,05,35,370	3,08,03,056
6	01.10.2011 to 31.12.2011	35,49,142	70,98,283	1,06,47,425
	Total	175089118	152906240	327995358

(viii) The payments against the 'entry tax' assessment period was made in different years and classified in books as advances to the Sales tax department and considered as cash outflow for the purposes of computation of tariff. The Commission may please consider that the Petitioner has already paid the said amounts which directly impacted its cash flow. It is also clarified that the activities on which entry tax has been levied are completely related to the construction of dam and tunnels of the generating station.

(ix) The Petitioner, in its rejoinder to the reply of Respondent PSPCL has submitted that the matter of entry tax was sub-judice before the Hon'ble High



Court of Himachal Pradesh and Petitioner shall approach the Commission after final decision in this regard by the Hon'ble High Court.

(x) However, as per amnesty scheme launched by the Government of HP, the Petitioner has settled all the dues/ payments of 'entry tax' liabilities till the year 2017-18. The Writ appeals filed by the Petitioner has been withdrawn to avail the amnesty scheme. Out of Rs.32.80 crore already spent and forming part of the capital cost, Rs.17.51 crore was earlier paid to the State Government and the balance amount of Rs.15.29 crore has been paid under the amnesty scheme.

40. The matter has been examined. With respect to Rs.21.02 lakh claimed by the Petitioner for capitalization towards Service tax in 2013-14, the Petitioner has submitted that the same has been paid as 'service tax' to the construction contractor M/s Jaiprakash Associates Limited for RA bills up to 31.3.2013 and has been capitalized in books in 2013-14. It has submitted that said amount was paid under the original scope of work of project, though the same had accrued and was capitalized after COD and is not a revenue expenditure. The Petitioner has also clarified that the said amount was not included in un-discharged liability. In view of this, the same is considered for calculation of capital cost as on 1.4.2014 for the purpose of tariff.

41. As regards the Service tax of Rs.4097.98 lakh, demanded by the Service tax department, the Petitioner has submitted that the same has been included in the un-discharged liability for the period from 2019-20 to 2023-24, but no tariff has been claimed against the same. We notice that Petitioner has claimed the said amount as additional capitalization in 2019-20. In our view, the inclusion of the said amount of Service tax in the capital cost, is permitted, only if it has been paid, based on the



orders of Competent Authority. Since the appeal filed by the Revenue Department before CESTAT is pending, the same cannot be treated as un-discharged liabilities. Moreover, as the said amount of Rs.4097.98 lakh has not been paid by the Petitioner, the claim for the same as additional capitalization in 2019-20 has not been allowed.

42. As regards 'entry tax' for Rs.32.80 crore pertaining to the period prior to COD, it is observed from the submissions of the Petitioner that it had availed the amnesty scheme launched by the Government of HP and has therefore paid a total amount of Rs.3280 lakh. The Petitioner has claimed Rs.2502 lakh, out of the said Rs.3280 lakh up to 31.3.2014 and the remaining amount of Rs.777.86 lakh as additional capitalization in 2014-15. However, the Petitioner vide its rejoinder to the reply of the Respondent PSPCL dated 4.5.2021, has stated that it has paid Rs.1750.89 lakh before COD and Rs.1529.06 lakh in 2020-21 under the 'amnesty scheme'. Considering the above submissions, the total amount of Rs.3280 lakh (i.e. Rs.1750.89 lakh as on COD and Rs.1529.06 lakh in 2020-21) has been allowed. The amount paid in 2020-21 has however been accounted for, while determining tariff for the 2019-24 period.

Preliminary Expenses

43. The Commission vide its order dated 30.3.2017 in Petition No.434/GT/2014 had observed as under:

"105. The petitioner in Note-9 in Form 5B of the petition has submitted as under:

"The Company has incurred an amount of Rs. 2.01 Crore towards Preliminary Expenses which are not included in the capitalization as per Accounting Practices. However, the same has been considered in Cash Out Flow in Form 9E."

106. Though the petitioner has submitted that the claims have not been capitalized in the books of account, as per accounting practices, it is observed that the petitioner has not furnished any details and explanation as regards the said claims such as



break- up of the expenses, reasons/ accounting practices on account of which such expenses have not been considered for capitalization. Accordingly, in the absence of detailed justification, the petitioner's claim for Rs 2.01 crore has not been allowed. The petitioner is however, granted liberty to approach the Commission at the time of truing up for 2014-19 subject to submission of details along with proper justification of the said claims."

44. As regards the deduction of Rs.2.01 crore on account of preliminary expenses, the Petitioner has submitted that the said expenses pertain to issue of share capital and increase in share capital, exclusively for the Petitioner, which was incorporated for the construction of the project i.e. Jaypee Karcham Hydro Corporation Ltd. (JKHCL) and it had no other business, except power generation. It has also submitted that as per the accounting practices, the preliminary expenses, though incurred till 2005-06, are charged in the Profit & Loss statement for the year ending 31.3.2010. The details of the same is below:

	Date of payment	Amount (Rs.)
ROC fee paid for share capital of Rs.100 crore (Form 5 & Form 23)	30.6.2003	2605500
Miscellaneous Expenses	30.6.2003	94180
ROC filing fee towards increase in authorized share capital (Form 5 & Form 23)	8.2.2005	2500500
ROC filing fee towards increase in authorized share capital from Rs.100 crore to Rs.2000 crore (DD issued to ROC Jalandhar with Form 5)	19.4.2005	14894000
ROC filing fee at ROC Jalandhar (Form 23)	19.4.2005	500
Total		20094680

45. The Petitioner has submitted that the aforesaid preliminary expenses have been incurred exclusively for M/s JKHCL, which is predecessor of the Petitioner (JPVL/ HBPL) and without incurring such expenses, necessary for the business of generation of electricity the project could not come into existence. The Petitioner has stated that the change in ownership occurred with transfer of all the assets & liabilities and the consideration paid for acquisition included the said 'preliminary



expenses'. Accordingly, the Petitioner has prayed that the Commission may allow the amount of Rs.2.01 crore incurred on account of 'Preliminary Expenses'.

46. The matter has been considered. The Petitioner has submitted that the claims have not been capitalized in the books of account, as per accounting practices, which were incurred till 2005-06, but charged in Profit & Loss statement for the year ending 31.3.2010. The balance sheet of JKHCL, as on 31.3.2010 stipulates the following:

"The profit and Loss account has been prepared for the purpose of writing off the Preliminary expenditure in accordance with the opinion of Expert Advisory Committee of Institute of Chartered Accountants of India dated 15th December 2009. Therefore, Preliminary expenses being of earlier year, have been charged to Profit and Loss account as a prior period item. Had the same not been charged, the loss would have been lower by Rs.2,00,94,680 and debit balance in Profit and Loss account would have been lower by Rs.2,00,94,680"

47. In view of the above, the claim of the Petitioner for Rs.200.95 lakh towards preliminary expenses is allowed.

Additional Claims

IDC on excess equity

48. The Petitioner has submitted that during the construction period of the project, the equity deployed was more than the equity mentioned as per the debt-equity ratio specified under the Tariff Regulations. It has, therefore, submitted that the extra equity deployed during the construction period is to be treated as normative loan and interest on the said normative loan is to be allowed in the capital cost. The Petitioner has further submitted that the present claim was inadvertently left out in the tariff petition (Petition No. 434/GT/2014) and the same is claimed in present petition. The details of the cumulative expenditure incurred and the source of finance from equity & loans/ excess equity to be treated as normative loan is as under:



(Rs. in crore)

Year	Expenditure including cash & bank balance	Equity	Loan	Normative Equity (30% of expenditure)	Excess equity to be treated as normative loan	Interest on Excess equity to be treated as normative IDC *
2006	600.00	600.00	-	180.00	420.00	43.05
2007	998.38	750.00	248.38	299.51	450.49	46.18
2008	1332.82	750.00	582.83	399.85	350.15	35.89
2009	2834.74	925.00	1909.75	850.42	74.58	9.14
2010	4201.27	1325.00	2626.28	1260.38	64.62	7.92
2011	6334.19	2145.00	4189.19	1900.26	244.74	28.76
2012 (up to 12.9.11)	6578.68	2145.00	4433.68	1973.60	171.40	10.05
Total						180.99

* @ SBI PLR of 1st April

49. The Petitioner has revised the calculation of IDC on excess equity in rejoinder to reply of UPPCL vide affidavit dated 4.5.2021 to Rs.175.45 crore and has further revised the same to Rs.205.00 crore in its additional submission vide affidavit dated 9.8.2021 and prayed for allowing the same.

50. The matter has been examined. Petition No.252/GT/2013 filed by the Petitioner for fixation of provisional tariff of the generating station for the period from 26.5.2011 to 31.3.2014 was disposed of by the Commission vide order dated 9.10.2014 with liberty to the Petitioner to file fresh petition for determination of tariff in respect of this generating station for the 2014-19 tariff period. Accordingly, in Petition No. 434/GT/2014 filed by the Petitioner for the 2014-19 tariff period, the Commission vide its order dated 30.3.2017 determined the capital cost as on COD of the generating station and for the 2014-19 tariff period. It is pertinent to mention that, in the said petition, the Petitioner had not claimed any normative IDC. Also, no additional submissions/ forms with regard to normative IDC were submitted nor any oral submissions were made by the Petitioner in this connection. Accordingly, no IDC



was considered/ allowed by the Commission in its order dated 30.3.2017 in Petition No.434/GT/2014. In this background, the claim of the Petitioner for normative IDC, in the present petition, cannot be considered, as the same is for trueing up of the expenditure already incurred as against the projected expenditure allowed earlier. In our considered view, new issues/ claims (i.e. claims prior to COD) which were not raised earlier, by the Petitioner, cannot be considered in the present petition. Accordingly, we are not inclined to allow the IDC on excess equity, as claimed by the Petitioner.

Rectification of current assets as reconciled with balance sheet as on COD of Unit-2

51. The Petitioner has claimed an amount of Rs.445.03 lakh on account of rectification of current assets, as reconciled, with the balance sheet, as on COD of Unit 2. Since the 'current assets and advances' shall not form part of the capital cost allowed for the purpose of tariff (as discussed earlier), the rectification for the same also shall not form the part of the capital cost.

Increase in additional IDC due to re-calculation

52. The Petitioner has claimed Rs.51.46 lakh on account of additional IDC due to re-calculation. However, the Petitioner has not furnished any supporting document or explanation in this regard. Thus, in line with decision of not allowing IDC on additional capital expenditure (as in paragraph 28 above), the increase in additional IDC due to recalculation of Rs.51.46 lakh is disallowed.

Initial spares

53. As regards the admissibility of initial spares, the Commission vide its order dated 30.3.2017 has observed as under:

"107. The cutoff date of the generating station is 31.3.2014. As regards the cost of initial spares to be included in capital cost, the petitioner has claimed initial spares



amounting to Rs 116.64 crore based on the actual expenditure till COD, in addition to the cost of additional runners with associated spares for Rs 89.95 crore. Thus the petitioner has claimed total cost of spares Rs 206.59 crore.

108. The respondent no. 7 has submitted that while the petitioner has claimed the actual spares, the DIA has recommended cost of spares for Rs 158.55 crore in accordance with Regulation 8 of the 2009 Tariff Regulations. This cannot be allowed in view of the specific provision of the Regulation 47 of the 2014 Tariff Regulations. It has further submitted that in terms of the schedule-E of the PPA entered into by the petitioner and PTC, it was agreed to limit the initial spares to 1.5% of the original capital cost as on the cut-off date. The respondent has stated that though the 2014 Tariff Regulations provide for 4%, only 1.5% of the initial spares may be allowed by the Commission in terms of the contractual agreement entered into by the parties.

109. While the admissibility of Rs 89.95 crore towards additional runner and associated spares has been decided, we discuss the ceiling limit of the spares allowable in terms of the 2009 Tariff Regulations. Sub-clause (iii) of Regulation 8 of the 2009 Tariff Regulations provides that initial spares shall be capitalized as percentage of the original project cost subject to ceiling norm of 1.5% for hydro-generating stations including pump storage hydroelectric generating station. Accordingly, considering the capital cost of Rs 638197.15 lakh (prior to adjustment of capital spares) as on the cut-off date of the generating station, the cost of spares (without the cost of 3 additional runner as spares) works out to Rs 9541.11 lakh. Accordingly, the cost of initial spares allowable in terms of the Regulation 8(iii) of the 2009 Tariff Regulations is summarized as under:

		(Rs. in lakh)
1	capital cost on 31.3.2014 before adjustment of initial spares	638197.15
2	Cost of initial spares included in above by petitioner	11664.00
3	Cost of initial spares allowed as per Regulation 8 of the 2009 Tariff Regulations	$1.5 \times (638197.15 - 11664) / 98.5 = 9541.11$
4	Deduction on claimed initial spares	$11664 - 9541.11 = 2122.89$

54. The Petitioner, in the present petition, has submitted as under:

“(a) In Form 5B & 5C to the MYT, Petitioner had claimed total spares as under:

Normal Spares	Rs. 116.64 lakh
Additional Spares (Runners)	Rs. 89.99 lakh

The Petitioner has categorically specified additional runners (under water spares) as additional spares of Rs. 89.99 crore, which were required to combat the high silt content in Satluj river. Apart from under water spares, many over water spares were also procured for the very same reason. These over water additional spares had been clubbed under “normal spares” heading of Rs. 116.64 crore.

All these additional spares had been procured by the Petitioner for bonafide use for smooth operations of Karcham Wangtoo HEP so that downtime of the Karcham Wangtoo can be minimized.

b) Hon’ble Commission has already increased Normative Annual Plant Availability Factor (NAPAF) of Karcham Wangtoo HEP from 85% allowable as per provisions of



Regulation 37 (1) (c) of the 2014 Tariff Regulations to 90% vide para 140 of its Order dated 30.03.2017 which is causing hardship to the Petitioner.

In view of bonafide requirement of the initial spares for smooth operation of Karcham Wangtoo HEP and increase in the NAPAF from 85% to 90% explained as above, Petitioner respectfully submits amount of Rs. 2122.89 Lakh deducted on account of additional spares may please be allowed.

However, if the Hon'ble Commission is still firm on the methodology followed in para 109 of the MYT order dt. 30.3.2017, it may kindly consider the trued up capital cost for the calculation of allowable initial spares."

55. With regard to the submission of the Petitioner for reconsideration of the initial spares disallowed by the Commission in order dated 30.3.2017 in Petition No.434/GT/2014, we notice that the Commission, based on the submissions of the Petitioner therein, had allowed the capitalization of initial spares. The Petitioner in the present petition has, however, not furnished any fresh grounds /justification, in support of its claim. Accordingly, the amount of Rs.2122.89 lakh towards initial spares which was disallowed in order dated 30.3.2017 has not been reconsidered in this order.

56. With regard to the request of the Petitioner to reconsider the trued-up capital cost for allowing initial spares, we notice that the capital cost, as on the cut-off date (31.3.2014) of the generating station has been revised from Rs.638197.15 lakh to Rs.650927.61 lakh (prior to adjustment of capital spares). Accordingly, the amount of initial spares is revised in this order. The allowable cost of initial spares in terms of the Regulation 8(iii) of the 2009 Tariff Regulations works out to as Rs. 9734.98 lakh as detailed below:

<i>(Rs. in lakh)</i>		
1	Capital cost on 31.3.2014 before adjustment of initial spares	650927.61
2	Cost of initial spares included in above by Petitioner	11664.00
3	Cost of initial spares allowable as per Regulation 8 (iii) of the 2009 Tariff Regulations.	1.5*(650927.61-11664)/98.5 = 9734.98



57. In view of above, the amount of initial spares allowed in this order, over and above, the cost of initial spares allowed in order dated 30.3.2017 in Petition No. 434/GT/2014 works out as Rs.193.86 lakh [Rs.9734.98 lakh-Rs.9541.11(as allowed in order dated 30.3.2017)] and the same is allowed.

Deduction in capital cost for overload capacity

58. CEA while granting TEC during the year 2003 had approved the installed capacity of 1000 MW. The Petitioner in Petition No. 434/GT/2014 had claimed tariff based on 10% overload capacity i.e. 1091 MW against the CEA approved installed capacity i.e. 1000 MW. The Petitioner has approached CEA for approval of enhancement of capacity. However, CEA has recommended that the installed capacity of the project has to be maintained as 1000 MW. Accordingly, the Commission in order dated 30.3.2017 had determined the tariff of the generating station, based on the installed capacity of 1000 MW, as recommended by CEA and has made a deduction in the capital cost of Rs.140.34 crore corresponding to extra 10% overload capacity built in by the Petitioner over and above requirement of 10% as per IEGC. Relevant para of the same is as under:

“61. Cost reduction corresponding to extra 10% overload capacity built by the petitioner over and above requirement of 10% as per IEGC:

a) xx

xxx.

g) We are also in agreement with the recommendations of DIA as regards no cost reduction in SCADA, Static Excitation System, Governing System, LT AC & DC Power Distribution System and Mechanical & Electrical Auxiliary System for the technical reasons (Digital equipment of standard designs and use of available margins) as mentioned in the recommendation, which are not repeated here for the sake of brevity. Based on the above discussions, the cost reduction of Rs.140.34 crore towards differential overload capacity of 10% as recommended by DIA is acceptable.

59. The Petitioner in the instant petition has submitted that it has approached CEA vide its letters dated 16.4.2018 and 29.6.2018 for uprating of installed capacity of the



Project from 1000 MW (presently) to 1091 MW. The Petitioner has also submitted that it shall approach the Commission with an appropriate petition for enhancement of installed capacity and for consequential relief, including that of allowance of Rs.140.34 crore disallowed on account of reduction of installed capacity, after a final decision by CEA in the matter. Also, the Petitioner vide its affidavit dated 9.8.2021 has submitted that with regard to uprating of installed capacity, CEA vide letter dated 29.4.2021, has accorded conditional approval for uprating the capacity of the Project in 2 stages i.e.1045 MW (for 2 monsoon seasons) and 1091 MW. Relevant extract of the CEA letter is extracted under:

“..... Based on various reports and recommendations of the expert groups/ committees and the facts on record, the Authority has agreed to uprate the capacity of Karcham Wangtoo HE Project from existing 1000 MW to 1091 MW in two stages i.e. 1045 MW (with 10% continuous overload) in the first stage and then to 1091 MW (with 10% continuous overload) in the second stage. It was, however, decided by the Authority that after initial uprating to 1045 MW (with 10% continuous overload) in the first stage, the performance of the project and various operating parameters would be observed for at least two monsoon seasons. After this, CEA may concur for further uprating of the capacity to 1091 MW with 10% continuous overload capacity on submission of satisfactory report by the Developer”

60. The Respondent UPPCL has submitted that since the matter is under consideration of CEA, the same has no bearing on the determination of tariff for the 2014-19 tariff period and in event the installed capacity is increased from 1000 MW to 1091 MW, it shall translate into a capital cost of Rs.1.54 crores/MW. The Respondent has also submitted that since it is one of the beneficiaries of the project since inception, it may be given first right of refusal to purchase additional energy at such competitive rates. The Respondent HPPC has submitted that the Commission in its order dated 30.3.2017 in Petition No. 434/GT/2014 had decided that there has to be cost reduction in terms of the additional overload capacity of 10% capacity, which has not been challenged by the Petitioner. Accordingly, the Respondent has



submitted that the said issue may not be considered at the stage of truing up of tariff. The Respondent PSPCL has pointed out to the letter dated 8.7.2021 from Respondent PTC with regard to uprating of capacity of the Project from 1000 MW to 1091 MW, wherein, the Petitioner has informed PTC that it will directly sell the additional 45 MW + 10% overload capacity in short-term market. The letter also states that the Petitioner shall be scheduling power from its project for 1045 MW plus overload capacity, which shall include the capacity sold under short term market. The relevant portion of the said letter is extracted below:

“Subsequently, JSW Hydro Energy on 07.07.2021 has informed to PTC that they will sell (directly) the additional 45 MW + its 10% overload in the short term market and shall be scheduling the power from the project for 1045 MW + overload (incl. 45 MW + overload to be sold under short term directly by them)”

61. The Respondent PSPCL has submitted that it is liable to pay capacity charges only against the contracted capacity of 1000 MW, as per PSA dated 1.9.2006 and it may not be burdened with the capacity charges for the uprated capacity which the Petitioner intends to directly sell under short-term market. The Respondent has submitted that since the uprating was conditionally approved by CEA on 29.4.2021, the annual fixed charges for Rs.140.34 crore corresponding to the uprated capacity may be considered only after April, 2021.

62. In view of the above submissions and considering the fact that the uprating of the installed capacity of the generating station from 1000 MW to 1091 MW, is subject to the actual performance of the generating station for at least two seasons, the capital cost of Rs.140.34 crore, corresponding to additional 10% overload capacity, as deducted vide order dated 30.3.2017 in Petition No.434/GT/2014 has not been reconsidered. However, the Petitioner is directed to submit the final



approval of CEA with regard to the revised capacity at the time of truing-up of tariff for the 2019-24 tariff period

Capital Cost as on 31.3.2014

63. Accordingly, based on the above discussion, the capital cost as on 31.3.2014 (as worked out below) has been considered as the capital cost as on 1.4.2014:

	<i>(Rs. in lakh)</i> As on 31.3.2014
Capital cost approved as on 31.3.2017 by order dated 30.3.2017 in Petition No. 434/GT/2014	636074.26
Less: IDC allowed by order dated 30.3.2017 in Petition No. 434/GT/2014	92829.00
Capital cost excluding IDC	543245.26
Add: IDC allowed	96488.62
Financing charges including Syndication fees allowed	7098.00
Add: Items allowed in addition to already allowed in order dated 30.3.2017 in Petition No.434/GT/2014	
Service Tax	21.00
Entry Tax	1750.89
Preliminary Expenses	200.95
Initial spares allowed over an above the amount of Rs.9541.11 lakh allowed in order dated 30.3.2017	193.86
Closing Capital cost as on 31.3.2014 (considered as on 1.4.2014)	648998.59

Discharge of Liabilities

64. The Petitioner has submitted that liabilities for Rs.15584.65 lakh as on 1.4.2014 has been discharged and claimed as under:

<i>(Rs. in lakh)</i>				
2014-15	2015-16	2016-17	2017-18	2018-19
5918.46	2.23	3606.94	1121.42	1005.76

65. Accordingly, the liabilities discharged for 2014-19 is considered for the purpose of tariff. The balance discharged liabilities for Rs.3929.84 lakh as on 31.3.2019 will be considered during the 2019-24 tariff period.



Additional Capital Expenditure

66. The Petitioner has not claimed any additional capital expenditure, except for additional capitalization towards Entry tax amounting to Rs.777.86 lakh in 2014-15, that has been dealt with in paragraph 42 of this order.

Capital Cost for the 2014-19 tariff period

67. Based on the above discussions, the capital cost considered for the purpose of tariff for the 2014-19 tariff period is as under:

	(Rs. in lakh)				
	2014-15	2015-16	2016-17	2017-18	2018-19
Opening Capital Cost	648998.59	654917.05	654919.28	658526.22	659647.64
Additional Capital Expenditure	0.00	0.00	0.00	0.00	0.00
Discharge of Liabilities	5918.46	2.23	3606.94	1121.42	1005.76
Closing Capital Cost	654917.05	654919.28	658526.22	659647.64	660653.40

Debt-Equity Ratio

68. Regulation 19 of the 2014 Tariff Regulations provides as under:

"19. Debt-Equity Ratio: (1) For a project declared under commercial operation on or after 1.4.2014, the debt-equity ratio would be considered as 70:30 as on COD. If the equity actually deployed is more than 30% of the capital cost, equity in excess of 30% shall be treated as normative loan: Provided that:

i. where equity actually deployed is less than 30% of the capital cost, actual equity shall be considered for determination of tariff:

ii. the equity invested in foreign currency shall be designated in Indian rupees on the date of each investment:

iii. any grant obtained for the execution of the project shall not be considered as a part of capital structure for the purpose of debt: equity ratio.

69. The Commission vide order dated 30.3.2017 in Petition No.434/GT/2014, had determined the annual fixed charges of the generating station, on the basis of debt-equity ratio of 70:30, as on COD. Accordingly, in terms of Regulation 19 of the 2014 Tariff Regulations, the debt-equity ratio of 70:30 has been considered on the admitted additional capital expenditure, after adjustment of un-discharged liabilities as under:



(Rs. in lakh)

Asset	As on 1.4.2014		Net Additional Capitalization		As on 31.3.2019	
	Amount	%	Amount	%	Amount	%
Debt	454299.0	70.00%	8158.37	70.00%	462457.38	70.00%
Equity	194699.5	30.00%	3496.44	30.00%	198196.02	30.00%
Total	648998.5	100.00%	11654.81	100.00%	660653.40	100.00%

Return on Equity

70. The Petitioner has furnished the Tax Audit Reports for the assessment years 2015-16 to 2019-20 (FY 2014-15 to 2018-19) as supporting documents for the tax rate applied for grossing up of the rate of Return on Equity (ROE). The Petitioner has also furnished revised Form-2 for correct tax rate vide affidavit dated 9.8.2021. From the tax audit reports furnished by the Petitioner, the following tax rates have been considered for the purpose of grossing up of rate of ROE for the 2014-19 tariff period:

(Rs. in lakh)

	2014-15	2015-16	2016-17	2017-18	2018-19
Tax payable	196871394	334985110	359257858	596288720	145179019
Total Income	939249515	1569634470	1683368901	2794020693	673722060
Tax Rate	20.961%	21.342%	21.342%	21.342%	21.549%

71. The base rate has been grossed up in terms of Regulation 24 and Regulation 25 of 2014 Tariff Regulations and ROE has been worked out and allowed as under:

(Rs. in lakh)

		2014-15	2015-16	2016-17	2017-18	2018-19
A	Gross Notional Equity	194699.58	196475.12	196475.78	197557.87	197894.29
B	Addition due to additional capitalization	1775.54	0.67	1082.08	336.43	301.73
C	Closing Equity (A+B)	196475.12	196475.78	197557.87	197894.29	198196.02
D	Average Equity [(A+C)/2]	195587.35	196475.45	197016.83	197726.08	198045.16
E	Return on Equity (Base Rate)	16.500%	16.500%	16.500%	16.500%	16.500%
F	Tax rate for the year	20.961%	21.342%	21.342%	21.342%	21.549%
G	Rate of Return on Equity [E/(1-F)]	20.876%	20.977%	20.977%	20.977%	21.032%



	2014-15	2015-16	2016-17	2017-18	2018-19
H Return on Equity (D*G)	40830.81	41214.66	41328.22	41477.00	41652.86

Interest on loan

72. The Petitioner has submitted that in order to reduce the rate of interest on loan, it has undertaken re-financing of loan in terms of Regulation 26(7) of 2014 Tariff Regulations. It has further submitted that in terms of the said regulation, the benefit of re-financing is to be shared between the generating company and beneficiaries in the ratio of 1:2. The Petitioner has also stated that the refinancing charges are to be passed on to beneficiaries on actual basis. The Petitioner has furnished detailed calculation of the benefit in Annexure-T13 of the petition and has clarified that the share of the Petitioner due to refinancing, shall be recovered, over and above the annual fixed charges through separate bills, after approval of same. In view of the submissions of the Petitioner, the benefit of re-financing of loan shall be shared between the generating company and beneficiaries in the ratio of 1:2 as per Regulation 26(7) of 2014 Tariff Regulations. In case of any dispute, the parties are at liberty to make an application in accordance with Regulation 26(9) of the 2014 Tariff Regulations.

73. Interest on loan has been worked out as under:

- i. The opening gross normative loan as on 1.4.2014 has been arrived at in accordance with Regulation 26 of the 2014 Tariff Regulations.
- ii. The weighted average rate of interest has been worked out on the basis of the actual loan portfolio of respective year applicable to the project.
- iii. The repayment for the years of the 2014-19 tariff period has been considered equal to the depreciation allowed for that year.
- iv. Interest on loan has been calculated on the normative average loan of the year by applying the weighted average rate of interest.



74. Accordingly, Interest on loan has been computed as under:

	(Rs. in lakh)				
	2014-15	2015-16	2016-17	2017-18	2018-19
Gross Normative loan (A)	454299.01	458441.94	458443.50	460968.35	461753.35
Cumulative Repayment (B)	91484.21	125259.06	159187.28	193208.98	227353.16
Net loan-Opening (C)=(A-B)	362814.81	333182.88	299256.22	267759.38	234400.19
Repayment during the year (D=Depreciation)	33774.85	33928.22	34021.70	34144.18	34199.28
Cumulative repayment adjustment due to de-capitalization (E)	0.00	0.00	0.00	0.00	0.00
Net Repayment (F)=(D-E)	33774.85	33928.22	34021.70	34144.18	34199.28
Addition due to additional capitalization (G)	4142.92	1.56	2524.86	785.00	704.03
Net loan-Closing (H)=(C+G-F)	333182.88	299256.22	267759.38	234400.19	200904.95
Average loan (I)=[(C+H)/2]	347998.84	316219.55	283507.80	251079.79	217652.57
Weighted Average Rate of Interest (J)	12.7845%	11.6518%	10.3349%	9.6383%	9.0274%
Interest on loan (K)=(I*J)	44489.93	36845.42	29300.32	24199.80	19648.46

Depreciation

75. The Commission in its order dated 30.3.2017 in Petition No. 434/GT/2014 had considered depreciable value as under:

“126. In the present case, out of the 1000 MW capacity, 704 MW capacity (i.e. 70.4%) has been tied up under long-term PPA on cost plus basis. This implies that the depreciable value is to be limited up to 70.40%. Accordingly, the depreciable value has been considered as 70.40% of the gross block value (excluding free hold land)”

76. In this regard, the Petitioner has submitted that the Commission had approved the tariff of the generating station at 100% capacity, on the basis of 1000 MW (presently) capacity in terms of Regulation 6(5) of 2014 Tariff Regulations. The Petitioner has, however, submitted that it is recovering the capacity charges and energy charges from the beneficiaries, in proportion to capacity tied up in long term PPA i.e. 70.4% and is not recovering 100% tariff as approved by the Commission in order dated 30.3.2017. The Petitioner has further submitted that 100% capacity of



the project has been tied up under long term PPA with PTC, with effect from 23.12.2017.

77. We have examined the matter. The first proviso to Regulation 27(3) of the 2014 Tariff Regulations provides as under:

'(3) The salvage value of the asset shall be considered as 10% and depreciation shall be allowed up to maximum of 90% of the capital cost of the asset:

Provided that in case of hydro generating station, the salvage value shall be as provided in the agreement signed by the developers with the State Government for development of the Plant:

Provided further that the capital cost of the assets of the hydro generating station for the purpose of computation of depreciated value shall correspond to the percentage of sale of electricity under long-term power purchase agreement at regulated tariff:

Provided also that any depreciation disallowed on account of lower availability of the generating station or generating unit or transmission system as the case may be, shall not be allowed to be recovered at a later stage during the useful life and the extended life.'

78. We have considered the submission of the Petitioner. The Commission vide its order dated 11.10.2021 in Petition No.12/RP/2020 in Petition No.249/GT/2016 (pertaining to tariff of Teesta III HEP) had observed the following:

"12. As noticed in paragraph 112 of the impugned order dated 9.1.2020, the Review Petitioner had submitted that the Implementation Agreement dated 18.7.2005 provides that upon completion of the 35-year period (unless extended further), the Project is to be transferred 'free of cost' to the Government of Sikkim. It has been further mentioned that the depreciable value (in Form-12) has been considered as per the proviso to Regulation 27(3) of the 2014 Tariff Regulations.....Accordingly, in terms of the proviso to Regulation 27(3) of the 2014 Tariff Regulations, we hold that the depreciable value of 100% (instead of 90% considered in the impugned order), based on the Implementation Agreement dated 18.7.2005 with the Government of Sikkim, shall be considered for the purpose of tariff."

79. It is noticed that the Implementation Agreement dated 18.11.1999 entered into by the Government of HP and the Petitioner provides that *"the salvage value shall be as reflected in the annual accounts of the company as per Companies Act."* In this regard, Part- C of Schedule II of the Companies Act 2013, states as under:



“... the residual value of an asset is often insignificant but it should generally be not more than 5% of the original cost of the asset.”

80. As per first proviso to Regulation 27(3) of the 2014 Tariff Regulations and in line with our decision in order dated 11.10.2021 in Review Petition No.12/RP/2020 in Petition No.249/GT/2016, the depreciable value has been considered at 95%. Due to revision in capital cost, cumulative depreciation and cumulative repayment have been revised to Rs.91484.21 lakh as on 1.4.2014, based on the 2009 Tariff Regulations, which has been considered for the purpose of tariff. The weighted average rate of depreciation (Annexure - I) , calculated in terms of the Regulation 27 of the 2014 Tariff Regulations, has been considered for calculation of depreciation as under:

	(Rs. in lakh)				
	2014-15	2015-16	2016-17	2017-18	2018-19
Opening Capital cost (A)	648998.59	654917.05	654919.28	658526.22	659647.64
Additional capital expenditure (B)	5918.46	2.23	3606.94	1121.42	1005.76
Closing Capital cost (C)=(A+B)	654917.05	654919.28	658526.22	659647.64	660653.40
Average Capital cost (D)=[(A+C)/2]	651957.82	654918.17	656722.75	659086.93	660150.52
Rate of Depreciation (E)	5.181%	5.181%	5.181%	5.181%	5.181%
Value of freehold land (F)	2200.02	2200.02	2200.02	2200.02	2200.02
Depreciable Value (G)= [95% of (D-F)]	617269.91	620082.24	621796.59	624042.57	625052.98
Remaining Depreciable value (H) = (G-cumulative dep. at 'J' at the end of previous year)	525785.71	494823.18	462609.32	430833.59	397699.82
Depreciation (I) = (D*E)	33774.85	33928.22	34021.70	34144.18	34199.28
Cumulative Depreciation at the end of the year (J)*	125259.06	159187.28	193208.98	227353.16	261552.44

*Cumulative depreciation as on 31.3.2014 is Rs.91484.21 lakh

Operation & Maintenance expenses

81. Sub-clause (c) of clause (3) of Regulation 29 of the 2014 Tariff Regulations provides as under:



"In case of the hydro generating stations, which have not been in commercial operation for a period of three years as on 1.4.2014, operation and maintenance expenses shall be fixed at 2% of the original project cost (excluding cost of rehabilitation and resettlement works) for the first year of commercial operation. Further, in such case, operation and maintenance expenses in first year of commercial operation shall be escalated @6.04% per annum up to the year 2013- 14 and then averaged to arrive at the O&M expenses at 2013-14 price level. It shall be thereafter escalated @ 6.64%per annum to arrive at operation and maintenance expenses in respective year of the tariff period."

82. Regulation 3(43) of the 2014 Tariff Regulations defines 'original project cost' as under:

"Original Project Cost" means the capital expenditure incurred by the generating company or the transmission licensee, as the case may be, within the original scope of the project up to the cut-off date as admitted by the Commission"

83. The Commission in its order dated 30.3.2017 in Petition No.434/GT/2014, had allowed O&M expenses based on the original project cost i.e. approved capital cost as on cut-off date (31.3.2014) of Rs.636074.26 lakh as under:

(Rs in lakh)				
2014-15	2015-16	2016-17	2017-18	2018-19
15253.44	16266.27	17346.35	18498.15	19726.42

84. However, considering the revision of the capital cost as on the cut-off date i.e. 31.3.2014, as stated in paragraph 63 above, the O&M expenses of the generating station stands revised as under:

(Rs. in lakh)	
Original project cost i.e. approved capital cost as on cut-off date (a)	648998.59
Certified R&R cost as per Form-13B (b)	43.30
Capital cost for the purpose of O&M calculation (c)=(a)-(b)	648955.29
O&M expenditure for the first year of plant operation i. e. 2011-12 @ 2% of above	12979.11

85. Accordingly, in terms of Regulation 29(3)(c) of the 2014 Tariff Regulations, the O&M expenses allowed are as under:

(Rs. in lakh)				
2014-15	2015-16	2016-17	2017-18	2018-19
15563.40	16596.80	17698.83	18874.04	20127.27



Interest on Working Capital

86. Sub-section (c) of clause (1) of Regulation 28 of the 2014 Tariff Regulations provides as under:

"28. Interest on Working Capital:

*(1) The working capital shall cover
xxx*

(c) Hydro generating station including pumped storage hydroelectric generating station and transmission system including communication system:

(i) Receivables equivalent to two months of fixed cost;

(ii) Maintenance spares @ 15% of operation and maintenance expenses specified in regulation 29; and

(iii) Operation and maintenance expenses for one month."

87. Clause (3) of Regulation 28 of the 2014 Tariff Regulations provides as under:

"(3) Rate of interest on working capital shall be on normative basis and shall be considered as the bank rate as on 1.4.2014 or as on 1st April of the year during the tariff period 2014-15 to 2018-19 in which the generating station or a unit thereof or the transmission system including communication system or element thereof, as the case may be, is declared under commercial operation, whichever is later".

Working capital for Maintenance Spares

88. Working capital for Maintenance spares have been worked out on the basis of 15% of the O&M expenses as under:

(Rs. in lakh)

2014-15	2015-16	2016-17	2017-18	2018-19
2334.51	2489.52	2654.82	2831.11	3019.09

Working capital for Receivables

89. Working capital for Receivables has been worked out on the basis of two months of fixed cost as under:

(Rs. in lakh)

2014-15	2015-16	2016-17	2017-18	2018-19
23043.35	22013.28	20955.94	20339.22	19823.00

Working capital for O&M Expenses (1 month)

90. Working capital for O&M Expenses has been worked out on the basis of one month of O&M Expenses as under:



(Rs. in lakh)

2014-15	2015-16	2016-17	2017-18	2018-19
1296.95	1383.07	1474.90	1572.84	1677.27

91. In terms of clause (3) of Regulation 28 of the 2014 Tariff Regulations, the bank rate of 13.50% as on 1.4.2014 for the 2014-19 tariff period has been considered. Accordingly, Interest on working capital has been worked out as per the methodology provided in Regulation 28 of the 2014 Tariff Regulations and allowed as under:

(Rs. in lakh)

	2014-15	2015-16	2016-17	2017-18	2018-19
Working Capital towards O & M expenses	1296.95	1383.07	1474.90	1572.84	1677.27
Working Capital towards Maintenance Spares	2334.51	2489.52	2654.82	2831.11	3019.09
Working Capital towards Receivables	23043.35	22013.28	20955.94	20339.22	19823.00
Total Working Capital	26674.81	25,885.87	25,085.67	24,743.17	24,519.36
Rate of Interest	13.50%	13.50%	13.50%	13.50%	13.50%
Total Interest on working capital	3601.10	3494.59	3386.57	3340.33	3310.11

Normative Annual Plant Availability Factor (NAPAF)

92. NAPAF of 90% as allowed in order dated 30.3.2017 in Petition No.434/GT/2014 is considered in this order.

Design Energy

93. Design Energy of 4131.06 MU corresponding to the installed capacity of 1000 MW as approved by CEA and allowed by order dated 30.03.2017 in Petition No.434/GT/2014 is considered in this order.

Annual Fixed Charges

94. Accordingly, the total annual fixed charges approved for the generating station for the 2014-19 tariff period (after truing-up) are summarized as under:



(Rs. in lakh)

	2014-15	2015-16	2016-17	2017-18	2018-19
Depreciation	33774.85	33928.22	34021.70	34144.18	34199.28
Interest on Loan	44489.93	36845.42	29300.32	24199.80	19648.46
Return on Equity	40830.81	41214.66	41328.22	41477.00	41652.86
O&M Expenses	15563.40	16596.80	17698.83	18874.04	20127.27
Interest on Working Capital	3601.10	3494.59	3386.57	3340.33	3310.11
Total	138260.09	132079.69	125735.64	122035.34	118937.98

95. The difference between the annual fixed charges already recovered by the Petitioner in terms of the order dated 30.3.2017 in Petition No.434/GT/2014 and the annual fixed charges determined by this order shall be adjusted in terms of Regulation 8(3) of the 2014 Tariff Regulations.

DETERMINATION OF TARIFF OF THE GENERATING STATION FOR THE 2019-24 TARIFF PERIOD

96. The Petitioner has filed the present petition also for determination of tariff of the generating station for the period from 1.4.2019 to 31.3.2024 in terms of the provisions of the 2019 Tariff Regulations. The capital cost and the annual fixed charges claimed by the Petitioner for the 2019-24 tariff period are as under:

Capital cost claimed

(Rs. in lakh)

	2019-20	2020-21	2021-22	2022-23	2023-24
Opening Capital Cost	690220.15	697483.93	701045.39	702193.08	702304.65
Add: Addition during the year/period	2085.00	1392.00	1197.00	441.00	185.00
Less: Decapitalisation during the year/period	297.72	381.86	49.31	329.44	62.34
Add: Discharges during the year/period	5476.50	2551.32	0.00	0.00	0.00
Closing Capital Cost	697483.93	701045.39	702193.08	702304.65	702427.30

Note-Capital Cost above with Revised Form 9(A) and Form 9(B)(i) vide affidavit dated 9.8.2021

Annual Fixed Charges claimed

(Rs. in lakh)

	2019-20	2020-21	2021-22	2022-23	2023-24
Depreciation	35952.91	36250.91	36384.06	36426.49	36442.70
Interest on Loan	18197.26	15228.26	12033.12	8716.38	5364.15
Return on Equity	52850.33	53273.24	53419.10	53494.04	53522.13
Interest on Working	2119.42	2221.55	2203.08	2181.56	2154.98



Capital					
O & M & Security Expenses	11710.14	14714.58	15299.36	15912.01	16553.86
Total	120830.05	121688.54	119338.72	116730.48	114037.82

Note- Annual Fixed Charges above have been claimed in original petition vide affidavit dated 25.10.2019, however the petitioner has not submitted Revised Annual Fixed Charges with revised Form 9(A) and Form 9(B)(i) vide affidavit dated 9.8.2021

Capital Cost

97. Clause (1) of Regulation 19 of the 2019 Tariff Regulations provides that the capital cost as determined by the Commission, after prudence check, in accordance with this Regulation shall form the basis of determination of tariff for existing and new projects. However, capital cost for an existing project is governed as per clause (3) of Regulation 19 of the 2019 Tariff Regulations, which is as under:

"The Capital cost of an existing project shall include the following:

(a) Capital cost admitted by the Commission prior to 1.4.2019 duly trued up by excluding liability, if any, as on 1.4.2019;

(b) Additional capitalization and de-capitalization for the respective year of tariff as determined in accordance with these regulations;

(c) Capital expenditure on account of renovation and modernization as admitted by this Commission in accordance with these regulations;

(d) Capital expenditure on account of ash disposal and utilization including handling and transportation facility;

(e) Capital expenditure incurred towards railway infrastructure and its augmentation for transportation of coal up to the receiving end of generating station but does not include the transportation cost and any other appurtenant cost paid to the railway; and

(f) Capital cost incurred or projected to be incurred by a thermal generating station, on account of implementation of the norms under Perform, Achieve and Trade (PAT) scheme of Government of India shall be considered by the Commission subject to sharing of benefits accrued under the PAT scheme with the beneficiaries...."

98. The Petitioner vide Form-1(I) has claimed capital cost for the 2019-24 tariff period. Subsequently, the Petitioner has revised Form 9(A) and Form 9(B)(i) vide affidavit dated 9.8.2021, as under:



(Rs. in lakh)

	2019-20	2020-21	2021-22	2022-23	2023-24
Opening Capital Cost	690220.15	697483.93	701045.39	702193.08	702304.65
Add: Addition during the year/period	2085.00	1392.00	1197.00	441.00	185.00
Less: Decapitalisation during the year/period	297.72	381.86	49.31	329.44	62.34
Add: Discharges during the year/period	5476.50	2551.32	0.00	0.00	0.00
Closing Capital Cost	697483.93	701045.39	702193.08	702304.65	702427.30

99. It is noticed that though the Petitioner in the petition has claimed closing capital cost of Rs.692324.28 lakh as on 31.3.2019, it has claimed the opening capital cost of Rs.690220.15 lakh as on 1.4.2019. The Petitioner has submitted that the difference of Rs.2104.13 lakh is towards 'current assets and advances' from 31.3.2014 onwards. The Commission, while truing-up the tariff of this generating station for the 2014-19 tariff period, has, in this order, allowed the closing capital cost of Rs.660653.40 lakh as on 31.3.2019. Accordingly, in terms of Regulation 19 of the 2019 Tariff Regulations, the capital cost of Rs.660653.40 lakh as on 31.3.2019, has been considered as the opening capital cost as on 1.4.2019, for the purpose of determination of tariff for the 2019-24 tariff period.

Discharge of Liabilities

100. The discharge of liabilities for Rs.3929.84 lakh as on 1.4.2019 claimed by the Petitioner, as under, is allowed for the purpose of tariff:

(Rs. in lakh)				
2019-20	2020-21	2021-22	2022-23	2023-24
1378.52	2551.32	-	-	-

Additional Capital Expenditure

101. Regulation 24 of the 2019 Tariff Regulations provides as under:

“(1) The additional capital expenditure in respect of a new project or an existing project incurred or projected to be incurred, on the following counts within the original scope of work, after the date of commercial operation and upto the cut-off date may be admitted by the Commission, subject to prudence check:

- (a) Undischarged liabilities recognized to be payable at a future date;
- (b) Works deferred for execution;



- (c) Procurement of initial capital spares within the original scope of work, in accordance with the provisions of Regulation 23 of these regulations;
- (d) Liabilities to meet award of arbitration or for compliance of the directions or order of any statutory authority or order or decree of any court of law;
- (e) Change in law or compliance of any existing law; and
- (f) Force Majeure events:

Provided that in case of any replacement of the assets, the additional capitalization shall be worked out after adjusting the gross fixed assets and cumulative depreciation of the assets replaced on account of de-capitalization.

- (2) The generating company or the transmission licensee, as the case may be shall submit the details of works asset wise/work wise included in the original scope of work along with estimates of expenditure, liabilities recognized to be payable at a future date and the works deferred for execution."

102. Regulation 25 of the 2019 Tariff Regulations provides as under:

"25. Additional Capitalization within the original scope and after the cut-off date:

- (1) *The additional capital expenditure incurred or projected to be incurred in respect of an existing project or a new project on the following counts within the original scope of work and after the cut-off date may be admitted by the Commission, subject to prudence check:*

- (a) *Liabilities to meet award of arbitration or for compliance of the directions or order of any statutory authority, or order or decree of any court of law;*

- (b) *Change in law or compliance of any existing law;*

- (c) *Deferred works relating to ash pond or ash handling system in the original scope of work;*

- (d) *Liability for works executed prior to the cut-off date;*

- (e) *Force Majeure events;*

- (f) *Liability for works admitted by the Commission after the cut-off date to the extent of discharge of such liabilities by actual payments; and*

- (g) *Raising of ash dyke as a part of ash disposal system.*

- (2) *In case of replacement of assets deployed under the original scope of the existing project after cut-off date, the additional capitalization may be admitted by the Commission, after making necessary adjustments in the gross fixed assets and the cumulative depreciation, subject to prudence check on the following grounds:*

- (a) *The useful life of the assets is not commensurate with the useful life of the project and such assets have been fully depreciated in accordance with the provisions of these regulations;*

- (b) *The replacement of the asset or equipment is necessary on account of change in law or Force Majeure conditions*

- (c) *The replacement of such asset or equipment is necessary on account of obsolescence of technology; and*

- (d) *The replacement of such asset or equipment has otherwise been allowed by the Commission.*



103. Regulation 26 of the 2019 Tariff Regulations provides as under:

"26. Additional Capitalization beyond the original scope

(1) The capital expenditure, in respect of existing generating station or the transmission system including communication system, incurred or projected to be incurred on the following counts beyond the original scope, may be admitted by the Commission, subject to prudence check:

(a) Liabilities to meet award of arbitration or for compliance of order or directions of any statutory authority, or order or decree of any court of law;

(b) Change in law or compliance of any existing law;

(c) Force Majeure events;

(d) Need for higher security and safety of the plant as advised or directed by appropriate Indian Government Instrumentality or statutory authorities responsible for national or internal security;

(e) Deferred works relating to ash pond or ash handling system in additional to the original scope of work, on case to case basis:

Provided also that if any expenditure has been claimed under Renovation and Modernization (R&M) or repairs and maintenance under O&M expenses, the same shall not be claimed under this Regulation;

(f) Usage of water from sewage treatment plant in thermal generating station.

(2) In case of de-capitalisation of assets of a generating company or the transmission licensee, as the case may be, the original cost of such asset as on the date of de-capitalisation shall be deducted from the value of gross fixed asset and corresponding loan as well as equity shall be deducted from outstanding loan and the equity respectively in the year such de-capitalization takes place with corresponding adjustments in cumulative depreciation and cumulative repayment of loan, duly taking into consideration the year in which it was capitalized."

104. The Petitioner, in this petition, has claimed additional capital expenditure, on projection basis. The Commission vide ROPs of hearing dated 13.4.2021, and 16.7.2021, had directed the Petitioner to submit the details of additional capital expenditure claimed for the 2019-24 tariff period in the format specified under the 2019 Tariff Regulations i.e. Form 9A for projected additions during the period and Form 9Bi for projected deletions during the period. In response, the Petitioner vide affidavits dated 4.5.2021 and 9.8.2021 has furnished the said details as per the requisite format. The details of additional capital expenditure claimed by the Petitioner vide affidavit dated 9.8.2021 for the 2019-24 tariff period are as under:



(Rs. in lakh)

Sl. No.	Regulations	2019-20	2020-21	2021-22	2022-23	2023-24	Total
Additions as per Form 9(A)							
1	24 (1)(a) & (b)	5476.50	2551.32	0.00	0.00	0.00	8027.82
2	25(2)(a)	1997.00	1317.00	662.00	406.00	50.00	4432.00
3	25(2)(c)	80.00	50.00	35.00	35.00	35.00	235.00
4	26 (1) (d)	8.00	0.00	0.00	0.00	0.00	8.00
5	76 & 77	0.00	25.00	500.00	0.00	100.00	625.00
Total Additions		7561.50	3943.32	1197.00	441.00	185.00	13327.82
De-capitalization (as per Form 9(B)(i))							
6	25	297.72	381.86	49.31	329.44	62.34	1120.67
Net Additional Capital Expenditure claimed		7263.78	3561.47	1147.69	111.56	122.66	12207.15

Claims under Regulation 24(1)(a) & 24(1)(b) of the 2019 Tariff Regulations

105. The Petitioner has claimed total additional capitalization for Rs.8027.82 lakh for the 2019-24 tariff period, under Regulation 24 of the 2019 Tariff Regulations. The Petitioner has claimed discharge of liabilities for assets/ works under the heads namely, Land, Environment & Ecology, LADA and Service Tax. It is pertinent to mention that discharge of liabilities, amounting to Rs.1378.52 lakh in 2019-20 and Rs.2551.32 lakh in 2020-21 claimed as additional capitalization has been allowed under paragraph 100 above. However, the additional capitalization of Rs.4097.98 lakh towards 'Service Tax' has not been allowed as stated in paragraph 41 above.

Claims under Regulation 25(2)(a) & (c) and Regulation 26(1)(d) of the 2019 Tariff Regulations

106. The additional capital expenditure claimed in terms of Regulation 25(2)(a) and Regulation 25(2)(c) of the 2019 Tariff Regulations are examined below:



(Rs. in lakh)

Sr. No.	Description of assets/ work	Projected Additional Capital Expenditure					Justification furnished by the Petitioner	Remarks for Admissibility / Non-admissibility	Amount Allowed
		2019-20	2020-21	2021-22	2022-23	2023-24			
Regulation 25(2)(a) of the 2019 Tariff Regulations									
1	Supervision Vehicles	8.00	124.00	50.00	0.00	0.00	Existing vehicles are very old and are prone to frequent breakdown. Further, as the Power Station is located at remote hilly location, the healthiness of the vehicles is important from the point of road safety. In view of this, procurement of 'new vehicles' is proposed are necessary due to obsolescence of the old vehicles.	As the additional capital expenditure claimed is (from sl. no. 1 to 5) are towards replacement of the asset/work, the additional capital expenditure claimed is allowed under Regulation 25(2)(a) of the 2019 Tariff Regulations. The Petitioner has also claimed de-capitalisation of replaced assets which has been considered under 'De-capitalization'.	182.00
2	Machinery & Equipment	9.00	66.00	0.00	56.00	50.00	Existing equipment are very old being left over equipment since construction time. Due to this, some are prone to		181.00
	a. Welding machine								
	b. Fork Lift								
	c. JCB, Loader,								



	d. Crane							
3	Material Shifting equipment i.e. Truck, Tipper etc.	0.00	27.00	12.00	0.00	0.00	frequent breakdowns failures and are very expensive to operate. Further, being very old, spare parts are not readily available. The Power Station is located at a very remote hilly area and such heavy equipment are not locally available on hire basis. In view of this, procurement of new equipment may be allowed.	39.00
4	Guide Vanes	280.00	300.00	0.00	350.00	0.00	The Power Station experiences heavy silt during monsoon period and underwater parts get heavily eroded. Every year, the guide vanes are repaired by welding followed by HVOC coating. However, after few years of such repair, the guide vanes become distorted due to heavy welding and	930.00



							cannot be installed. Hence, it is proposed to replace old and distorted guide vanes in a phased manner.		
5	Kilba Township	1500.00	0.00	0.00	0.00	0.00	The O&M staff staying at Kilba Colony are residing in old temporary tin sheds which are in use from the construction stage. The project is located at a very high altitude and experiences snow fall. Due to this, such accommodation is not conducive for employee health. In view of this, the old accommodation is being replaced in a phased manner.	The Petitioner has submitted that these expenditures (sl. No. 5 and 6) are claimed for replacement of assets deployed within original scope of the project and pertain to temporary structures which are being replaced by permanent structures for staff of the employees who are living in nearby area on rent/temporary arrangements. The Petitioner has also claimed decapitalization of the old assets.	1500.00
6	Sholtu Township	200.00	800.00	600.00	0.00	0.00	Since construction stage of the project, most of the offices of various departments are being operated from shelter/temporary structure at scattered locations. Therefore,	With regard to claim of the	1600.00



						<p>construction of permanent centralized office has been taken up for the efficient operation of Power Station.</p>	<p>Petitioner, it is clear from Form 5B of the petition that the Petitioner, out of Rs.57.82 crore (revised capital cost as vetted by DIA) has incurred Rs.23.30 crore as on COD of the generating station under the head 'Buildings'. As such, the claim of the Petitioner is well within the balance available under this head. However, the Petitioner is directed to submit the complete details of the expenditure under this head including details of un-discharged liabilities in this regard, till date. As the additional capital expenditure are towards replacement of the assets/ works of original scope, the</p>	
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								additional capital expenditure claimed are allowed under Regulation 25(2)(a) of the 2019 Tariff Regulations. The de-capitalisation of old replaced assets are considered under 'De-capitalization' allowed.	
Total amount claimed		4432.00							
Total amount allowed		4432.00							

Regulation 25(2)(c) of the 2019 Tariff Regulations									
7	XLPE Cable temperature monitoring system	80.00	0.00	0.00	0.00	0.00	XLPE Cable temperature monitoring system was supplied along with the XLPE Cables. At present, the system is not working and the model has become obsolete. Due to this, the XLPE Cable temperature is not being monitored. In view of this, the system needs to be replaced.	The additional capital expenditure claimed by the Petitioner (sl.no. 7 to 10) are for replacement of assets deployed within the original scope of project due to obsolescence of assets. The Petitioner has furnished the relevant documents for the same. Accordingly, on prudence check, the	80.00
8	Vibration Monitoring System (For all 4 units)	0.00	25.00	25.00	25.00	25.00	The Vibration Monitoring System was supplied		100.00



							<p>along with the Generating Units. At present, the system is prone to frequent malfunctioning/ breakdown. The particular model had become obsolete and OEM support for this model has been withdrawn. Due to this, spare availability is not possible. As proper functioning of the vibration monitoring system is essential for safe operation of the Generating Units, these need to be replaced.</p>	<p>additional capital expenditure are allowed under Regulation 25(2)(c) of the 2019 Tariff Regulations. The replacement and decapitalization of old asset is considered under 'De-capitalization.</p>	
9	Human Machine Interface (HMI) up-gradation for excitation system for three units	0.00	0.00	10.00	10.00	10.00	<p>Excitation Systems were purchased with the main Generating Units and are very old. At present, Human Machine Interface (HMI) of the Excitation Systems have become obsolete and OEM support like spares have been withdrawn. In</p>		30.00



							case of any future breakdown, it may not be possible to operate the Excitation System through HMI. Hence, to retain the present functionality and efficiency level, HMI needs upgradation.	
10	Partial Discharge measurement system	-	25.00	-	-	-	The Partial Discharge measurement of GIS equipment system was supplied along with the GIS. At present, the system is partly functioning and proper monitoring is not being done. The particular model had become obsolete and OEM support for this model has been withdrawn. Due to this, spare availability is not possible. As proper functioning of PD monitoring system is essential for safe operation of the GIS,	25.00



							these need to be replaced.			
Total amount claimed		235.00								
Total amount allowed		235.00								
Regulation 26(1)(d) of the 2019 Tariff Regulations										
11	Beam Detector	8.00	0.00	0.00	0.00	0.00	The Power Station being underground have a very high threat perception of fire hazard. Beam Detectors are required for fire detection. Based on the recommendation of the Insurance Audit (copy enclosed), this system was installed in addition to existing fire detection system. This expenditure is necessary for safety and security of the plant, under Regulation 26 (1)(d) of the 2019 Tariff Regulations.	Considering the fact that the additional capital expenditure claimed is on account of higher safety and security of the generating station, the claim is allowed under Regulation 26(1)(d) of the 2019 Tariff Regulations.	8.00	
Total amount claimed		8.00								
Total amount allowed		8.00								

107. In addition to the above, the Petitioner has claimed additional capital expenditure for certain items under Regulation 76 (Power to relax) and Regulation 77 (power to remove difficulties) and the same are examined below:



Regulation 76 and Regulation 77 of the 2019 Tariff Regulations									
12	HVOC Coating Plant	0.00	0.00	500.00	0.00	0.00	The Power Station experiences heavy silt during monsoon period and underwater parts get heavily eroded. The damaged components are repaired by welding and HVOC coating. For HVOC Coating, all components are sent to external vendors. It is proposed to develop a HVOC Coating plant at the Power Station in line with the facilities developed at Nathpa Jhakhri Power Station.	It is noted that considering the same reasons as stated here, the Commission in order dated 30.3.2017 in petition no. 434/GT/2014 has allowed capitalization of additional spares. As additional spares had already been allowed, the claim of the Petitioner is not allowed .	0.00
13	Turbine Guide Bearing pad	0.00	0.00	0.00	0.00	100.00	At present, there is only one set of TGB pads available. The procurement lead time for this item is very long. As the Power Station has 4	The claim of the expenditure is for procurement of spares. Since the same is in the nature of O&M expenses,	0.00



							Units, it is prudent to have another set available to ensure unit availability	the expenditure is not allowed.		
14	Transit Mixer (Self Loading type)	0.00	25.00	0.00	0.00	0.00	Transit Mixer (Self Loading Type) to be purchased for various Civil Construction/ Repairing related activities as existing one Transit Mixer is very old and also is not self-loading type.	As the expenditure claimed is for repair and maintenance works, the same is not allowed.	0.00	
Total amount claimed		625.00								
Total amount allowed		0.00								
Grand Total amount claimed		2085.00	1392.00	1197.00	441.00	185.00				
Grand Total additions allowed		4675.00								

De-capitalization

108. As regards de-capitalization, Regulation 26(2) of the 2019 Tariff Regulations provides as under:

“(2) In case of de-capitalization of assets of a generating company or the transmission licensee, as the case may be, the original cost of such asset as on the date of de-capitalization shall be deducted from the value of gross fixed asset and corresponding loan as well as equity shall be deducted from outstanding loan and the equity respectively in the year such de-capitalization takes place with corresponding adjustments in cumulative depreciation and cumulative repayment of loan, duly taking into consideration the year in which it was capitalized”

109. The Petitioner vide affidavit dated 9.8.2021 has claimed the following de-capitalization (as per Form 9Bi) for assets such as vehicles, guide vanes, DG



welding machine, vibration monitoring system, partial discharge measurement system, Building at Sholtu & Kilba, fork lift, JCB excavator, trucks, human machine interface (HMI) upgradation for excitation system, Firefighting tender, Tank mounted air compressor, Mobile crane, etc. as under:

(Rs. in lakh)

2019-20	2020-21	2021-22	2022-23	2023-24	Total
297.72	381.86	49.31	329.44	62.34	1120.67

110. The Petitioner has submitted that the aforesaid decapitalized assets form part of the original scope of work of the Project and, presently, additional capital expenditure is proposed against the de-capitalization. As the decapitalization is in respect of the above-mentioned assets, which are not in use, claim of the Petitioner is allowed.

111. Also, on perusal of Form 9(B)(i), it is noticed that there is variation in the gross value of the old assets furnished by the Petitioner for assets such as Bolero camper, trucks, etc., in different years. The Petitioner is directed to furnish clarification for the same at the time of truing-up of tariff of the generating station. The net additional capital expenditure allowed is summarized as under:

(Rs. in lakh)

Regulations	2019-20	2020-21	2021-22	2022-23	2023-24
Additions allowed in Additional Capital Expenditure (A)					
24 (1)(a) Discharge of Liabilities	1378.52	2551.32	0.00	0.00	0.00
24 (1)(b)	0.00	0.00	0.00	0.00	0.00
25(2)(a)	1997.00	1317.00	662.00	406.00	50.00
25(2)(c)	80.00	50.00	35.00	35.00	35.00
26 (1) (d)	8.00	0.00	0.00	0.00	0.00
76 & 77	0.00	0.00	0.00	0.00	0.00
Entry Tax		1529.06			
Total (A)	3463.52	5447.38	697.00	441.00	85.00
De-capitalization considered (B)	297.72	381.86	49.31	329.44	62.34
Net Additional Capital Expenditure allowed (C)=(A-B)	3165.80	5065.52	647.69	111.56	22.66



Capital Cost for the 2019-24 tariff period

112. Accordingly, the capital cost considered for the purpose of tariff for the 2019-24 tariff period is as under:

	(Rs. in lakh)				
	2019-20	2020-21	2021-22	2022-23	2023-24
Opening capital cost	660653.40	663819.20	668884.72	669532.41	669643.97
Net Additional capital expenditure	3165.80	5065.52	647.69	111.56	22.66
Closing capital cost	663819.20	668884.72	669532.41	669643.97	669666.63
Average capital cost	662236.30	666351.96	669208.57	669588.19	669655.30

Debt-Equity Ratio

113. Regulation 18 of the 2019 Tariff Regulations provides as under:

“18. Debt-Equity Ratio: (1) For new projects, the debt-equity ratio of 70:30 as on date of commercial operation shall be considered. If the equity actually deployed is more than 30% of the capital cost, equity in excess of 30% shall be treated as normative loan: Provided that:

- i. where equity actually deployed is less than 30% of the capital cost, actual equity shall be considered for determination of tariff:
- ii. the equity invested in foreign currency shall be designated in Indian rupees on the date of each investment:
- iii. any grant obtained for the execution of the project shall not be considered as a part of capital structure for the purpose of debt: equity ratio.”

114. The Petitioner has stated that the funding of additional capital expenditure has been made through internal resources and others. Accordingly, in terms of Regulation 18 of the 2019 Tariff Regulations, the debt equity ratio of 70:30 has been considered on the admitted additional capital expenditure, after adjustment of the un-discharged liability for the purpose of tariff.

Asset	As on 1.4.2019		Net Additional Capitalization during 2019-24		As on 31.3.2024	
	Amount	%	Amount	%	Amount	%
Debt	462457.38	70.00%	6309.26	70.00%	468766.64	70.00%
Equity	198196.02	30.00%	2703.97	30.00%	200899.99	30.00%
Total	660653.40	100.00%	9013.23	100.00%	669666.63	100.00%



Return on Equity (ROE)

115. For grossing up of ROE during the 2019-24 tariff period, MAT rate of 17.472% for the year 2019-20 has been allowed, subject to truing up. Further, in terms of Regulation 30(2) of the 2019 Tariff Regulations, additional capital expenditure as allowed above for the purpose of calculating ROE, has been bifurcated under the heads 'additional capital expenditure with-in the original scope of work' and 'additional capital expenditure beyond the original scope of work', as under:

(Rs. in lakh)

	2019-20	2020-21	2021-22	2022-23	2023-24
Additional capital expenditure allowed in paragraph 111 above	3165.80	5065.52	647.69	111.56	22.66
Equity portion considered in above @ 30% (b)	949.74	1519.66	194.31	33.47	6.80
additional capital expenditure with-in the original scope of work in (b) (i)	947.34	1519.66	194.31	33.47	6.80
additional capital expenditure beyond the original scope of work excluding the additional capitalization due to change in law in (b) (ii)	2.40	0.00	0.00	0.00	0.00

116. Based on above, ROE with respect to additional capital expenditure with-in the original scope of work, is calculated and allowed as under:

(Rs. in lakh)

	2019-20	2020-21	2021-22	2022-23	2023-24
Gross Notional Equity (A)	198196.02	199143.36	200663.02	200857.32	200890.79
Addition due to additional capitalization (B)	947.34	1519.66	194.31	33.47	6.80
Closing Notional Equity(C)=(A+B)	199143.36	200663.02	200857.32	200890.79	200897.59
Average Equity (D)=[(A+C)/2]	198669.69	199903.19	200760.17	200874.06	200894.19
Return on Equity (Base Rate) (E)	16.500%	16.500%	16.500%	16.500%	16.500%
Tax rate for the year (F)	17.472%	17.472%	17.472%	17.472%	17.472%
Rate of Return on Equity (G)=[(E)/(1-F)]	19.993%	19.993%	19.993%	19.993%	19.993%
Return on Equity (H)=(D*G)	39720.03	39966.64	40137.98	40160.75	40164.78



117. As regards ROE for the 2019-24 tariff period, in respect of additional capitalization after cut-off date and beyond the original scope, excluding additional capitalization due to change in law, the same is computed at the weighted average rate of interest on loan portfolio of the generating station. This is subject to revision, if any, at the time of truing-up of tariff. Accordingly, ROE has been worked out and allowed as under:

	<i>(Rs. in lakh)</i>				
	2019-20	2020-21	2021-22	2022-23	2023-24
Opening Notional equity (A)	0.00	2.40	2.40	2.40	2.40
Addition due to Additional Capitalization (after cut of date) (B)	2.40	0.00	0.00	0.00	0.00
Closing Equity (C)= (A+B)	2.40	2.40	2.40	2.40	2.40
Average Equity (D) = [(A+C)/2]	1.20	2.40	2.40	2.40	2.40
Weighted average rate of interest on actual loan portfolio (E)	9.256%	9.256%	9.256%	9.256%	9.256%
Return on Equity (F)=(D*E)	0.11	0.22	0.22	0.22	0.22

Interest on loan

118. Interest on loan has been worked out as under:

- a) The gross normative loan amounting to Rs.462457.38 lakh has been considered as on 1.4.2019;
- b) Cumulative repayment amounting to Rs.261552.44 lakh as on 31.3.2019 as considered in this order in truing up for the 2014-19 tariff period has been considered as on 1.4.2019;
- c) The repayment for the year of the 2019-24 tariff period has been considered equal to the depreciation allowed for that year;
- d) Interest on loan has been calculated on the normative average loan of the year by applying the weighted average rate of interest as claimed by the Petitioner. This is subject to true-up.

119. Accordingly, Interest on loan has been worked out as under:

(Rs. in lakh)

	2019-20	2020-21	2021-22	2022-23	2023-24
Gross Normative loan (A)	462457.38	464673.44	468219.31	468672.69	468750.78
Cumulative Repayment up to previous year (B)	261552.44	295727.14	330059.25	364700.93	399192.74
Net loan-Opening (C)=(A-B)	200904.95	168946.30	138160.05	103971.76	69558.04
Repayment during the year (D)	34307.33	34520.55	34668.53	34688.20	34691.68
Less: Cumulative repayment adjustment on a/c of de-capitalization (E)	132.63	188.43	26.86	196.39	40.39
Net Repayment (F)=(D-E)	34174.70	34332.12	34641.67	34491.81	34651.29
Addition due to additional capitalization (G)	2216.06	3545.87	453.38	78.09	15.86
Net loan-Closing (H)=(C+G-F)	168946.30	138160.05	103971.76	69558.04	34922.61
Average loan (I)=[(C+H)/2]	184925.63	153553.18	121065.91	86764.90	52240.33
Weighted Average Rate of Interest on loan (J)	9.2564%	9.2564%	9.2564%	9.2564%	9.2564%
Interest on loan (K)=(I*J)	17117.37	14213.42	11206.29	8031.26	4835.55

Depreciation

120. Accordingly, the cumulative depreciation amounting to Rs.261552.44 lakh, as on 31.3.2019 as above, is considered for the purpose of tariff. Depreciation has been calculated by applying the weighted average rate of depreciation (WAROD), calculated in terms of the Regulation 33 of the 2019 Tariff Regulations (Annexure – II), subject to truing up. Accordingly, depreciation has been worked out and allowed as follows:



(Rs. in lakh)

	2019-20	2020-21	2021-22	2022-23	2023-24
Opening Gross block (A)	660653.40	663819.20	668884.72	669532.41	669643.97
Net Additional capital expenditure during 2019-24 (B)	3165.80	5065.52	647.69	111.56	22.66
Closing gross block (C)=(A+B)	663819.20	668884.72	669532.41	669643.97	669666.63
Average gross block (D)=[(A+C)/2]	662236.30	666351.96	669208.57	669588.19	669655.30
Value of Freehold land	2200.02	2200.02	2200.02	2200.02	2200.02
Depreciable Value (E) = [95% of (D-Freehold land)]	627034.47	630944.34	633658.12	634018.76	634082.52
Remaining Depreciable Value at the beginning of the year (F)=[(E) - (Cumulative Depreciation at 'K' at the end of previous year)]	365482.03	335217.21	303598.87	269317.84	234889.78
Rate of Depreciation (G)	5.181%	5.181%	5.181%	5.181%	5.181%
Depreciation (H)=(D*G)	34307.33	34520.55	34668.53	34688.20	34691.68
Cumulative Depreciation at the end of the year (I)=[(H)+(Cumulative Depreciation at 'K' at the end of previous year)]	295859.77	330247.68	364727.79	399389.13	433884.41
Less: Depreciation adjustment on account of de-capitalization (J)	132.63	188.43	26.86	196.39	40.39
Cumulative Depreciation at the end of the year (K)*	295727.14	330059.25	364700.93	399192.74	433844.03

*Cumulative depreciation as on 31.3.2019 is Rs.261552.44 lakh

Operation & Maintenance Expenses

121. Regulation 35(2)(a) of the 2019 Tariff Regulations provides as under:

“(2) Hydro Generating Station: (a) Following operations and maintenance expense norms shall be applicable for hydro generating stations which have been operational for three or more years as on 1.4.2019:

Particulars	FY 2019-20	FY 2022-21	FY 2021-22	FY 2022-23	FY 2023-24
Karcham Wangtoo	11710.14	12268.31	12853.09	13465.74	14107.59

Note: The impact in respect of revision of minimum wag, pay revision and GST, if any, will be considered at the time of determination of tariff.

(c) In case of hydro generating stations which have not completed a period of three years as on 1.4.2019, operation and maintenance expenses for 2019-20 shall be worked out by applying escalation rate of 4.77% on the applicable operation and maintenance expenses as on 31.3.2019. The operation and maintenance expenses for subsequent years of the tariff period shall be worked out by applying escalation rate of 4.77% per annum.

(c) The Security Expenses and Capital Spares for hydro generating stations shall be allowed separately after prudence check.



Provided further that the generating station shall submit the assessment of the security requirement and estimated expenses, the details of year-wise actual capital spares consumed at the time of truing up with appropriate justification."

122. The Petitioner has claimed O&M expenses in terms of Regulation 35(2) of the 2019 Tariff Regulations. In addition, the Petitioner has claimed Security Expenses as additional O&M expenses in terms of Regulation 35(2)(d) of the 2019 Tariff Regulations. Accordingly, the total O&M expenses claimed by the Petitioner are as under:

	<i>(Rs. in lakh)</i>				
	2019-20	2020-21	2021-22	2022-23	2023-24
O & M Expenses claimed as per Regulation 35(2)(a) of the 2019 Tariff Regulations (A)	11710.14	12268.31	12853.09	13465.74	14107.59
Security Expenses (B)	0.00	2446.27	2446.27	2446.27	2446.27
Total O&M expenses claimed for the period (C)=(A)+(B)	11710.14	14714.58	15299.36	15912.01	16553.86

123. The Respondents UPPCL, MPPMCL, BRPL and TPDDL have submitted that the O&M expenses claimed by the Petitioner are exorbitant and unreasonable and the same would result in additional burden to end consumers. These Respondents have also submitted that the Petitioner may be directed to furnish the detailed information for prudence check, as required under Regulation 35(2)(d) of the 2019 Tariff Regulations. As regards Corporate Expenses, the Respondents have submitted that the said expenses may not be allowed and the Petitioner may be directed to submit detailed information and justification in support of such claims. The Respondent, MPPMCL has submitted that the Commission may direct the Petitioner to file appropriate application with regard to pay revision, at the time of truing up, and the Commission may examine the same on a case to case basis. In response, the Petitioner has submitted that the impact of pay/ wage revision has not



been claimed under O&M expenses and the petition for the same will be filed only after finalization of pay revision by the Government/ Appropriate Authorities.

124. The O&M expenses claimed by the Petitioner are in accordance with Regulation 35(2)(a) of the 2019 Tariff Regulations and hence allowed.

Security Expenses

125. The Petitioner has claimed Security expenses for Rs.2446.27 lakh for each year of the period 2019-24 in terms of Regulation 35(2)(c) of the 2019 Tariff Regulations, based on the letter dated 12.12.2018 of CISF indicating the projected security expenses for the 2019-24 tariff period. It is noticed that the actual security expenses for the period 2016-17 as provided by the Petitioner while framing the 2019 Tariff Regulations, was Rs.138.86 lakh. However, the projected claim of the Petitioner in this petition, is on the higher side, the reason for which shall be furnished by the Petitioner at the time of truing-up of tariff for the 2019-24 tariff period, the reason for which shall be furnished by the Petitioner at the time of truing up of tariff. However, based on the letter of CISF dated 12.12.2018, the security expenses as claimed by the Petitioner are allowed on projection basis. The Petitioner is, however, directed to submit details of the actual security expenses incurred in terms of Regulation 35(2)(c) of the 2019 Tariff Regulations, at the time of truing-up of tariff.

126. Accordingly, the total O&M expenses, including security expenses claimed by the Petitioner, as in the table under paragraph 122 above is allowed.



Interest on working capital

127. Sub-section (c) of clause (1) of Regulation 34 of the 2019 Tariff Regulations provides as under:

"34. Interest on Working Capital: (1) The working capital shall cover:

(c) For Hydro generating station (Including Pumped Storage Hydro Generating Station) and transmission system:

(i) Receivables equivalent to 45 days of annual fixed cost;

(ii) Maintenance spares @ 15% of operation and maintenance expense including security expenses; and

(iii) Operation and maintenance expenses including security expenses for one month"

128. Clause (3) of Regulation 34 of the 2019 Tariff Regulations provides as under:

"34(3) Rate of interest on working capital shall be on normative basis and shall be considered as the bank rate as on 1.4.2014 or as on 1st April of the year during the tariff period 2019-24 in which the generating station or a unit thereof or the transmission system including communication system or element thereof, as the case may be, is declared under commercial operation, whichever is later.

Provided that in case of truing-up, the rate of interest on working capital shall be considered at bank rate as on 1st April of each of the financial year during the tariff period 2019-24."

Working capital for Receivables

129. Working capital for Receivables has been worked out and allowed on the basis of 45 days of fixed cost as under:

(Rs. in lakh)

2019-20	2020-21	2021-22	2022-23	2023-24
12877.37	12977.46	12701.20	12388.32	12038.82

Working capital for Maintenance Spares

130. Working capital for Maintenance spares has been worked out on the basis of 15% of annual O&M expenses and allowed as under:

(Rs. in lakh)

2019-20	2020-21	2021-22	2022-23	2023-24
1756.52	2207.19	2294.90	2386.80	2483.08



Working capital for O&M expenses

131. Working capital for O&M expenses has been worked out on the basis of one month of O&M expenses, including security expenses, and allowed as under:

<i>(Rs. in lakh)</i>				
2019-20	2020-21	2021-22	2022-23	2023-24
975.85	1226.22	1274.95	1326.00	1379.49

Rate of Interest of working Capital

132. In accordance with Regulation 34(3) of the 2019 Tariff Regulations, the rate of interest on working capital considered on projection basis, for the 2019-24 tariff period is 12.05% (i.e. 1-year SBI MCLR of 8.55% as on 1.4.2019 + 350 basis points). As the tariff of the generating station for the 2019-24 tariff period is being determined during the year 2021-22, the SBI MCLR as on 1.4.2020 (7.75%) and as on 1.4.2021(7.00%) is also available which is lower than 8.55% as on 01.04.2019. Since the rate of interest on working capital is subject to revision at the time of truing-up of tariff, based on the bank rate as on 1st April of each financial year, we find it prudent to allow the rate of interest as on 1.4.2020 and 1.4.2021, for the subsequent financial years. Accordingly, the rate of interest for the year 2019-20 is 12.05%, 2020-21 is 11.25% (i.e., 1-year SBI MCLR of 7.75% as on 1.4.2020 + 350 basis points) and for the subsequent years the rate of interest of 10.50% (i.e., 1-year SBI MCLR of 7.00% as on 1.4.2021 + 350 basis points) has been considered.

133. Accordingly, Interest on working capital is allowed as under:

<i>(Rs. in lakh)</i>					
	2019-20	2020-21	2021-22	2022-23	2023-24
Working Capital towards O & M expenses	975.85	1226.22	1274.95	1326.00	1379.49
Working Capital towards Maintenance Spares	1756.52	2207.19	2294.90	2386.80	2483.08
Working Capital towards Receivables	12877.37	12977.46	12701.20	12388.32	12038.82



	2019-20	2020-21	2021-22	2022-23	2023-24
Total Working Capital	15609.74	16410.86	16271.05	16101.13	15901.39
Rate of Interest	12.05%	11.25%	10.50%	10.50%	10.50%
Total Interest on Working capital	1880.97	1846.22	1708.46	1690.62	1669.65

Annual Fixed Charges

134. Based on the above, the annual fixed charges approved for the 2019-24 tariff period in respect of the generating station is summarized below:

	<i>(Rs. in lakh)</i>				
	2019-20	2020-21	2021-22	2022-23	2023-24
Depreciation	34307.33	34520.55	34668.53	34688.20	34691.68
Interest on Loan	17117.37	14213.42	11206.29	8031.26	4835.55
Return on Equity	39720.14	39966.87	40138.20	40160.97	40165.00
O&M Expenses	11710.14	14714.58	15299.36	15912.01	16553.86
Interest on Working Capital	1880.97	1846.22	1708.46	1690.62	1669.65
Total	104735.95	105261.64	103020.84	100483.06	97915.73

Normative Annual Plant Availability Factor (NAPAF)

135. The Petitioner has claimed NAPAF of 90%. It is observed that there is no specific provision for NAPAF under the 2019 Tariff Regulations for this generating station. It is noticed that the actual PAF for the period 2012-17 as provided by the Petitioner while framing of Tariff Regulations, 2019 was 96.69%. Further, the maximum NAPAF allowed for pondage type of hydro generating in terms Regulation 50(A)(1) of the 2019 Tariff Regulations is 90%. In view of above, NAPAF of 90% as claimed by the Petitioner is allowed for the purpose of tariff for the period 2019-24 period.

136. The Petitioner has also submitted that the ramp up/ ramp down period may be reviewed or in alternate, allow power generation in the ramping period to be considered for PAFM calculation based on the following background:

'27. Ramp up & Ramp down of the units:



The Hon'ble Commission vide its MYT order dated 30.3.2017 has prescribed NAPFM for the KWHEP at 90% as against claimed 85%. The availability of plant (PAFM) is dependent upon the availability of water and machine both. To achieve NAPFM hydro plants are required to plan its generation in accordance with the peak hours notified by Regional load dispatch centres (NRLDC in case of KWHEP) in accordance with Regulation 44(2) of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations 2019.

Sometime the peak hours notified by the RLDC are broken into 2 parts. In both the situations, single block/ dual blocks of peak hours, hydro generators are advised by RLDCs to ramp up / ramp down the units at a specific ramp rate of 15 minutes i.e. minimum interval of 15 minutes between the units to sync with the Grid. Generating station having multiple units mandatorily have to wait for the units to synchronise with the Grid.

It can be observed from the studies of CEA that compared to coal, hydro is a major contributor due to its ability of quick start-stop and quick ramping. (Ref. "Flexible Operation of Thermal Power Plant for Integration of Renewable Generation" of January 2019)

It is submitted that the water being essential part to achieve NAPFM, is utilised to give such ramp up/ ramp down by the hydro generators. Said water quantum can be switched in to the peak hours to meet the Grid requirement of peaking. It is also submitted that the units at KWHEP are capable to sync with the Grid at a faster pace against 15 minutes' time period prescribed by the RLDC. This will definitely help the Grid and Nation to meet its peaking requirement of energy.'

137. The submissions of the Petitioner above are in the nature of a prayer to amend the Regulations notified by the Commission with regard to Peak hour tariff. Since the same is beyond the scope of the present petition, the request of the Petitioner has not been considered in this order.

Auxiliary Energy Consumption

138. Regulation 50(C) of the 2019 Tariff Regulations provides as follows:

Type of Station	Auxiliary Energy Consumption	
	Installed Capacity above 200 MW	Installed Capacity up to 200 MW
Surface		
Rotating Excitation	0.7%	0.7%
Static	1.0%	1.2%
Underground		
Rotating Excitation	0.9%	0.9%
Static	1.2%	1.3%

139. The generating station is underground with static excitation system with installed capacity of 1000 MW. The Petitioner has claimed Auxiliary Energy



Consumption (AEC) of 1.2% for the generating station in terms of the 2019 Tariff Regulations and the same is allowed.

Design Energy

140. As regards Design Energy (DE) of the generating station, the Commission in its order dated 30.3.2017 in Petition No.434/GT/2014 decided as under:

“Analysis and Decision

29. We have examined the submissions of the parties. The petitioner has submitted that in response to CEA letter dated 23.9.2013 it had made a request to CEA vide letter dated 5.10.2013 to consider the deemed installed capacity of the project as 1091 MW. However, CEA has recommended that the installed capacity of the project has to be maintained as 1000 MW as accorded in TEC without giving any reason on the request of the petitioner. The petitioner has further submitted that it had assigned the task to IIT Roorkee for reconfirmation/ reassessment of safety/ adequacy of various components of the project for generation of 1200 MW capacity and IIT Roorkee in its report of June 2015 has recommended that the electro mechanical equipments provided at the generating station are capable and safe to operate the plant at 4x 300 MW i.e. 1200 MW capacity continuously. While the respondent, UPPCL has maintained that the installed capacity should be considered as 1000 MW in terms of the recommendations of the CEA as contained in the TEC, the other respondents have submitted that the capacity of the project if increased to 1200 MW, should be subject to restriction in capital cost and no additional burden on account of the increased capacity shall be passed on to the consumers.

30. Section 8 of the Electricity Act, 2003 (EA, 2003), provides as under:

(1) Notwithstanding anything contained in section 7, any generating company intending to set-up a hydro-generating station shall prepare and submit to the Authority for its concurrence, a scheme estimated to involve a capital expenditure exceeding such sum, as may be fixed by the Central Government, from time to time, by notification.

(2) The Authority shall, before concurring in any scheme submitted to it under sub-section (1) have particular regard to, whether or not in its opinion, -

(a) the proposed river-works will prejudice the prospects for the best ultimate development of the river or its tributaries for power generation, consistent with the requirements of drinking water, irrigation, navigation, flood-control, or other public purposes, and for this purpose the Authority shall satisfy itself, after consultation with the State Government, the Central Government, or such other agencies as it may deem appropriate, that an adequate study has been made of the optimum location of dams and other river works;

(b) the proposed scheme meets the norms regarding dam design and safety.

31. It is observed that CEA while granting TEC during the year 2003 had approved the Design Energy of the project as 4559.77 MU for the installed capacity of 1000 MW (4x



250 MW). The petitioner has submitted that the project being grid connected, shall be capable of generating upto 110% of rated/ installed capacity on a continuous basis as per the CEA (Technical Standards for Connectivity to the Grid) Regulations, 2007. According to the petitioner, if only 10% continuous overload capacity is considered for the project, the deemed rated/ installed capacity of each generating unit would work out to 272.75 MW. Based on this, the petitioner has considered the deemed rated/ installed capacity of the project as 1091 MW (4x 272.75 MW) with 10% overload on 1091 MW as specified under the above said regulation, which works out to 1200 MW. In support of this contention, the petitioner has submitted that the word 'regulate' does not mean to 'restrict' and is intended to promote the objective of the EA, 2003 and thus for optimizing the generation during the few days of monsoon season, it was considered prudent to provide the higher overload capacity, without compromising the safety and security of the plant.

32. The submissions of the petitioner, cannot, in our view, be accepted. From the plain reading of Section 8 of the EA 2003 (as quoted above), it is evident that prior to the concurrence of any scheme with respect to hydro-generating stations, the CEA shall have particular regard as to whether the proposed scheme meets the norm regarding the dam design and safety. Moreover, Section 73(n) of the EA 2003 vests the CEA with the functions and duties to advise the Appropriate Govt. and the Appropriate Commission on all technical matters relating to generation, transmission and distribution of electricity. In our view, CEA had decided the capacity of the project as 1000 MW as per TEC during the year 2003, which does not mention any specific overload provision in the generating units. CEA, being a statutory body and mandated to advise the Commission on all technical matters, involved in deciding the Installed capacity and Design Energy of the project, we are inclined to consider the recommendations of the CEA for installed capacity of 1000 MW (4x250 MW). Accordingly, the prayer of the petitioner for consideration of installed capacity as 1091 MW is rejected. Accordingly, we proceed to determine the tariff of the generating station based on the installed capacity of 1000 MW and the design energy of 4131.06 MU as recommended by CEA. The prayer of the petitioner is disposed of as under:

(a) The capacity of the generating station shall be 1000 MW (4 x 250MW) as accorded by CEA in TEC.

(b) Overload Capacity of generating station shall be 10% as per provisions of CEA Regulations and IEGC. NLDC/NRLDC shall ensure that the scheduling of the station shall be based on the installed capacity of 1000 MW with overload capacity of 10%.

(c) The revised Design Energy of the generating station shall be 4131.06 MU corresponding to the installed capacity of 1000 MW as against 4559.77 MU originally envisaged at the time of TEC.

The Saleable Design Energy of the project shall be calculated after deduction of the Auxiliary Energy Consumption as specified under the 2014 Tariff Regulations, i.e. 1.2% & 12% free power to Govt. of H.P as claimed by the petitioner for the period 2014-19. Accordingly, Saleable Design Energy of generating station shall be 3591.71 MUs as detailed below:

	Million Units (MUs)
Revised Design Energy	4131.06
Less: Auxiliary Energy Consumption @ 1.2%	49.57
Net Design Energy	4081.49
Free Power to GoH.P @ 12% of Net Design Energy	489.78



Saleable Design Energy	3591.71
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(d) NLDC/NRLDC shall ensure that the scheduling of the station shall be based on the installed capacity of 1000 MW with overload capacity of 10%. For the purpose of keeping the velocities in HRT and TRT within safe region as envisaged by CEA while approving TEC, the petitioner shall not be allowed to overload the machines beyond 1100 MW in any case. Further, availability declaration above 1100 MW, even when actual water inflow is more than required for generation of 1100 MW, shall not be allowed and considered for the calculation of Plant Availability Factor (PAF) and secondary energy benefits.

33. It is noticed that in terms of the IA dated 18.11.1999 entered into between the petitioner and the Govt. of H.P, free power to the Govt. of H.P shall be 18% for the next 28 years from the expiry of the period of first 12 years. It is pertinent to mention that in terms of the 2014 Tariff Regulations, free energy to home state is limited to 13% or actual, whichever is less. However, the respondents in their respective PPAs have agreed to the enhanced free power to home state after 12 years. In this background and considering the fact that this issue of enhanced free power to home state after 12 years is not relevant for the purpose of determination of tariff of the generating station for the period 2014-19, the same has not been considered. However, the parties are at liberty to claim the relief and the same will be considered at an appropriate time as per the prevailing tariff regulations.

34. The petitioner has submitted that it may be required to supply additional free power towards LADF as insisted by Govt. of H.P. The petitioner has also stated that the same has not been considered for determination of tariff for the present but shall be duly considered as and when necessary. We are of the view that in case the petitioner is required to supply additional free power towards LADF, it may approach the Commission by an appropriate application for relief on this count."

141. The Petitioner in the present petition has submitted as under:

(1) An Implementation Agreement (IA) was executed with Government of Himachal Pradesh (GoHP) for implementation of Karcham Wangtoo HEP on 18.11.1999. Article 5 of the Implementation Agreement (IA) deals with obligations of the Company. The relevant Clause of the Article-5 is reproduced below:

"5.1. Government Supply

(a) The Company shall supply to the Government or its Agent, during the Agreement period, at the Interconnection Point without any cost or charges to the Government, the quantum of electrical energy generated as specified below (Government Supply):-

i)	Commencing from the date of synchronization of the first Unit and for the first twelve (12) years from Commercial Operation Date (COD) of the Project	Twelve (12) percent of Net Generation
----	---	---------------------------------------



ii)	For the next twenty eight (28) years after expiry of the period specified in (i) above	Eighteen (18) percent of Net Generation
-----	--	---

(2) Power Purchase Agreement (PPA) was executed on 21.3.2006 and a supplementary PPA was executed on 1.12.2017 with PTC. The definition of Free Power given in the PPA is reproduced below:

"Free Power means the quantum of power (in kW or multiples thereof) supplied free of cost by the Company at or before the Delivery Point to the Project State Government. This shall be equal to 12% (twelve percent) of net generation (gross generation at generator terminals less Auxiliary Consumption), for the first 12 (twelve) Tariff Years from the COD and 18% (eighteen percent) of such net generation from the start of the 13th (thirteenth) Tariff Year till the end of the term of this Agreement".

(3) PTC India Limited had entered into four PSAs with the States of Haryana, Uttar Pradesh, Rajasthan and Punjab respectively. The definition of free power given in PSAs with all four States is similar to the definition given in the PPA.

(4) The issue of free power is in respect of the period starting after 12 years from COD of the project (i.e. after 13.9.2023). It is relevant for next tariff cycle of 2019-24 and has no bearing on truing up exercise for 2014-19.

(5) In respect of the observations in paragraph 33 of the order dated 30.3.2017, this Commission may appreciate that the IA was executed in 1999 and PPA and PSAs were executed in 2006. It was the first time that Ministry of Power, Government of India issued notification on 31.3.2008, wherein, it was provided that free power up to 13% including 1% free contribution towards Local Area Development Fund will be considered in the determination of tariff for hydro power projects, which was incorporated in the 2009 Tariff Regulations. Prior to this, there was no such restriction regarding the quantum of free power to be supplied to the home State and it was a matter of agreement between the Developer and the host State.

(6) Since the Petitioner has agreed in IA for 18% free power after 13.9.2023, the tariff working based on 13% shall result into severe loss of 5% in tariff and for the balance life of the project. If the entire basis of the Project is changed in this manner midway, the legitimate expectations of the petitioner would be defeated. The loss in tariff of 5% shall have to be borne by the Petitioner from ROE only, resulting in a situation where the Petitioner will not be recovering ROE of 16.5% as per the Tariff Regulations.



(7) In view of the aforesaid facts and circumstances, it is submitted that the Commission may exercise its power under Regulations 54 and 55 of the 2014 Tariff Regulations and allow free power as stipulated in the IA as well as in the PPA and PSAs.

142. The Petitioner, in support of its prayer above, has relied upon the judgments of the Hon'ble Supreme Court in UPPCL v NTPC (2009 (6) SCC 235), UPPCL v NTPC (2014 (1) SCC 371), the judgment of the Hon'ble Appellate Tribunal for Electricity (APTEL) in RPGGL v CERC & ors (Appeal No. 130/2009 dated 25.3.2011) and the Commission's order dated 9.1.2020 in Petition No. 249/GT/2016 (TUL v PTC & ors).

143. The Respondent HPCC vide its reply has objected to the prayer of the Petitioner and has submitted the following:

- (a) The Commission vide its order dated 30.3.2017 in Petition No. 434/GT/2014 had decided that 'free energy' to home state is limited to 13% or actuals, whichever is less, in terms of the 2014 Tariff Regulations. The determination of tariff of the Petitioner is in terms of the 2019 Tariff Regulations notified by the Commission for the 2019-24 tariff period and would be applicable to the Petitioner's claims in respect of free energy.
- (b) Under Regulation 55 Note 3, the 2019 Tariff Regulations provide for free energy of 13% or actual, whichever is less.
- (c) The Tariff Regulations notified by the Commission are binding and there is a rationale and reason for the Commission to consistently provide for ceiling for 'Free Energy' to 13%.
- (d) It is incorrect to contend that there were no provisions related to free energy prior to 2009, as the 2004 Tariff Regulations applicable for the 2004-09 tariff period, provided for saleable energy for hydro projects as under:

"(xxv) 'Saleable Primary Energy' means the quantum of primary energy available for sale (ex-bus) after allowing for 12% free energy to the home state;"
- (e) The Petitioner knowingly entered into an agreement for more than 12% free power, which has now gone up to 13%. Even otherwise, Regulations



of this Commission override existing contracts as laid down by the Hon'ble Supreme Court in PTC India v CERC & ors (2010 4 SCC 603) which is to be followed.

- (f) The Tariff Regulations apply to all projects and even those which are commissioned prior to the coming into force of the said Regulations. Therefore, merely because the Petitioner entered into an agreement prior to such Regulations would not change or nullify the applicability of such Regulations to its project.
- (g) The reference to PPAs/PSAs and free power definition does not mean that the beneficiaries have agreed to pay for such power. It was the Petitioner's choice to enter into the agreement with the Government of Himachal Pradesh. In any case, the licensees cannot agree to any relaxed norms in favour of the generating company and contrary to interests of the consumers.
- (h) The generating company in terms of Regulation 65 of the 2019 Tariff Regulations can agree to improved norms. The prayer of the Petitioner seeking relief with regard to free power under the 2014 Tariff Regulations cannot be made applicable for the period after 13.9.2023, for which the said relief is sought for by the Petitioner.
- (i) In any case, the Petitioner cannot expect the consumers to bear the burden of its agreement and this is not a case fit for power to relax or remove difficulty.
- (j) APTEL vide its judgment dated 18.5.2017 in Appeal No. 325/2016 (DSL Hydrowatt Pvt Ltd v GERC had rejected the claim of DSL for free power more than 13% based on the Tariff Policy and Hydropower policy and the regulations therein. It is, therefore, not acceptable to the Petitioner to claim higher free power on the basis of PPA/PSA executed by the parties.

144. We have examined the matter. In terms of the Implementation Agreement dated 18.11.1999 entered into between the Petitioner and the Government of Himachal Pradesh, free power equal to 12% of net generation, is to be supplied by the Petitioner to the Government of HP for the first 12 years from COD of the Project and at 18% of the net generation for the next 28 years, after expiry of the period of 12 years, as above. PPA/ Supplementary PPA executed by the Respondents with



PTC defines the term 'free power', which is same as the aforesaid provision in the IA. It is, therefore, evident that the issue of 'free power' is significant and relevant for the 2019-24 tariff period (i.e. from 30.9.2023).

145. The main contention of the Petitioner is that since the quantum of free power to be supplied to the home State was based on the agreement between the parties, which were executed prior to coming into force of the Tariff Regulations notified by the Commission, the same may be considered by the Commission in exercise of the power to relax/ power to remove difficulties. The Respondent HPPC has submitted that in terms of the judgment of the Hon'ble Supreme Court in PTC v CERC & ors, Tariff Regulations override existing contracts. Note 3 under Regulation 55 of the 2019 Tariff Regulations provides as under:

Note 3: FEHS = Free energy for home State, in percent and shall be taken as 13% or actual whichever is less.

146. The Constitution Bench of the Hon'ble Supreme Court in PTC India Ltd Vs CERC & ors (2010 4 SCC 603) has laid down the principle of law, whereby any provision of an agreement, if it falls within the domain of the Regulations of subordinate legislation, has to be aligned with the Regulations. The relevant portion of the judgment is quoted below:

"58. One must understand the reason why a regulation has been made in the matter of capping the trading margin under Section 178 of the Act. Instead of fixing a trading margin (including capping) on a case to case basis, the Central Commission thought it fit to make a regulation which has a general application to the entire trading activity which has been recognized, for the first time, under the 2003 Act. Further, it is important to bear in mind that making of a regulation under Section 178 became necessary because a regulation made under Section 178 has the effect of interfering and overriding the existing contractual relationship between the regulated entities. A regulation under Section 178 is in the nature of a subordinate Legislation. Such subordinate Legislation can even override the existing contracts including Power Purchase Agreements which have got to be aligned with the regulations under Section 178 and which could not have been done across the board by an Order of the Central Commission under Section 79(1)(j)."



147. Thus, the provisions of the PPA/PSAs executed by the Petitioner in respect of free power to the home State is inconsistent and shall accordingly stand overridden by Note 3 under Regulation 55 of the 2019 Tariff Regulations. We, therefore, find no reason to exercise the power to relax and grant relief, as prayed for by the Petitioner. Accordingly, the free energy to home state is to be considered as 13% in this case.

148. As stated earlier, the installed capacity of the generating station is considered as 1000 MW. Accordingly, DE of 4131.06 MU corresponding to the installed capacity of 1000 MW, as approved by CEA and considered by the Commission in order dated 30.3.2017 in Petition No. 434/GT/2014 is allowed in this order. The month-wise design energy is as under:

Month	Number of Days	Energy (MU)
JUNE	10	158.28
	10	228.00
	10	228.00
JULY	10	228.00
	10	228.00
	11	250.80
AUGUST	10	228.00
	10	228.00
	11	250.80
SEPTEMBER	10	203.70
	10	172.14
	10	103.23
OCTOBER	10	65.10
	10	45.55
	11	39.72
NOVEMBER	10	33.66
	10	38.26
	10	59.66
DECEMBER	10	54.58
	10	51.23
	11	51.82
JANUARY	10	43.70
	10	41.07
	11	42.02
FEBRUARY	10	37.49
	10	36.71



	8	29.75
MARCH	10	39.94
	10	45.26
	11	53.07
APRIL	10	57.81
	10	62.47
	10	117.34
MAY	10	159.74
	10	167.33
	11	250.83
Total Energy		4131.06

Application Fee and the Publication expenses

149. The Petitioner shall be entitled for reimbursement of the filing fees and publication expenses in connection with the present petition, directly from the beneficiaries on pro-rata basis in accordance with Regulation 70(1) of the 2019 Tariff Regulations.

150. The annual fixed charges determined as above are subject to truing-up in terms of Regulation 13 of the 2019 Tariff Regulations.

151. Annexure-I and Annexure-II form part of this order.

152. Petition No. 391/GT2019 is disposed of in terms of the above.

Sd/-
(Pravas Kumar Singh)
Member

Sd/-
(Arun Goyal)
Member

Sd/-
(I.S.Jha)
Member

Sd/-
(P.K.Pujari)
Chairperson



Annexure-I

Weighted average rate of depreciation for the 2014-19 tariff period

		Depreciation Rates as per CERC's Depreciation Rate Schedule	Gross Block as on 31.3.2014	Depreciation Amount	Gross Block as on 31.3.2015	Depreciation Amount	Gross Block as on 31.3.2016	Depreciation Amount	Gross Block as on 31.3.2017	Depreciation Amount	Gross Block as on 31.3.2018	Depreciation Amount
A	Land under full ownership		2,488.44	-	2,488.44	-	2,488.44	-	2,488.44	-	2,488.44	-
	Land under reservoir (0.5913 hect.)	3.34%	288.42	9.63	288.42	9.63	288.42	9.63	288.42	9.63	288.42	9.63
	Land other than under reservoir (4.5103 hect.)	0.00%	2,200.02		2,200.02		2,200.02		2,200.02		2,200.02	
B	Land under lease											
(a)	for investment in the land	3.34%	1,278.86	42.71	1,278.86	42.71	1,278.86	42.71	1,278.86	42.71	1,278.86	42.71
C	Assets purchased new											
(a)	Plant and Machinery in generating stations											
(i)	Hydro electric	5.28%	151,251.94	7,986.10	151,251.94	7,986.10	151,251.94	7,986.10	151,251.94	7,986.10	151,251.94	7,986.10
(b)	Hydraulic works forming part of the Hydro											
(i)	Dams, Spillways, Weirs, Canals, Reinforced concrete flumes and syphons	5.28%	88,808.86	4,689.11	88,808.86	4,689.11	88,808.86	4,689.11	88,808.86	4,689.11	88,808.86	4,689.11



(ii)	Reinforced concrete pipelines and surge tanks, steel pipelines, sluice gates, steel surge tanks, hydraulic control valves and hydraulic works	5.28%	361,632.25	19,094.18	361,632.25	19,094.18	361,632.25	19,094.18	361,632.25	19,094.18
(c)	Building & Civil Engineering works									
(i)	Containing hydro-electric generating plant	3.34%	25,657.49	856.96	25,657.49	856.96	25,657.49	856.96	25,657.49	856.96
(ii)	Others	3.34%	3,217.87	107.48	3,217.87	107.48	3,217.87	107.48	3,217.87	107.48
(d)	Transformers, Kiosk, substation equipment & other fixed apparatus (including plant)									
(i)	Transformers including foundations having rating of 100 KVA and over	5.28%	7,307.32	385.83	7,307.32	385.83	7,307.32	385.83	7,307.32	385.83
(e)	Switchgear including cable connections	5.28%	38,047.87	2,008.93	38,047.87	2,008.93	38,047.87	2,008.93	38,047.87	2,008.93
(f)	Lightning arrester									
(i)	Station Type	5.28%	373.39	19.71	373.39	19.71	373.39	19.71	373.39	19.71
(g)	Batteries	5.28%	465.91	24.60	465.91	24.60	465.91	24.60	465.91	24.60
(h)	Communication equipment									
(i)	Radio and high frequency carrier system	6.33%	2,014.11	127.49	2,014.11	127.49	2,014.11	127.49	2,014.11	127.49
(i)	Self-propelled vehicles	9.50%	71.17	6.76	71.17	6.76	71.17	6.76	71.17	6.76
(j)	Air Conditioning Plants									



Annexure-II

Weighted average rate of depreciation for the 2019-24 tariff period

		Depreciation Rates as per CERC's Depreciation Rate Schedule	Gross Block as on 31.3.2019	Depreciation Amount
A	Land under full ownership		2,488.44	-
	Land under reservoir (0.5913 hect.)	3.34%	288.42	9.63
	Land other than under reservoir (4.5103 hect.)	0.00%	2,200.02	
B	Land under lease			
(a)	for investment in the land	3.34%	1,278.86	42.71
C	Assets purchased new			
(a)	Plant and Machinery in generating stations			
(i)	Hydro electric	5.28%	151,251.94	7,986.10
(b)	Hydraulic works forming part of the Hydro			
(i)	Dams, Spillways, Weirs, Canals, Reinforced concrete flumes and syphons	5.28%	88,808.86	4,689.11
(ii)	Reinforced concrete pipelines and surge tanks, steel pipelines, sluice gates, steel surge tanks, hydraulic control valves and hydraulic works	5.28%	361,632.25	19,094.18
(c)	Building & Civil Engineering works of a			
(i)	Containing hydro-electric generating plant	3.34%	25,657.49	856.96
(ii)	Others	3.34%	3,217.87	107.48
(d)	Transformers, Kiosk, substation equipment & other fixed apparatus (including plant)			
(i)	Transformers including foundations having rating of 100 KVA and over	5.28%	7,307.32	385.83



A

(e)	Switchgear including cable connections	5.28%	38,047.87	2,008.93
(f)	Lightning arrester			
(i)	Station Type	5.28%	373.39	19.71
(g)	Batteries	5.28%	465.91	24.60
(h)	Communication equipment			
(i)	Radio and high frequency carrier system	6.33%	2,014.11	127.49
(i)	Self-propelled vehicles	9.50%	71.17	6.76
(j)	Air Conditioning Plants			
(i)	Static	5.28%	924.89	48.83
(k)(i)	Office furniture and furnishing	6.33%	16.96	1.07
(k)(ii)	Office Equipment	6.33%	214.55	13.58
	TOTAL		683,771.87	35,422.99
	Weighted Average Depreciation Rate (%)			5.1805%



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**CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI**

Petition No. 391/GT/2019

Coram:

**Shri P.K. Pujari, Chairperson
Shri I.S. Jha, Member
Shri Arun Goyal, Member
Shri Pravas Kumar Singh, Member**

Date of Order: 14th April, 2022

In the matter of:

Corrigendum to the order dated 17.3.2022 in Petition No. 391/GT/2019.

In the matter of

Petition for revision of tariff for the 2014-19 tariff period after truing up exercise and determination of tariff for the period 2019-24 in respect of Karcham Wangtoo Hydroelectric Project (1000 MW)

And

In the matter of:

JSW Hydro Energy Limited,
Registered Office: Juit Complex
P.O. Dumehar Bani
Kanda Ghat-173215, Solan District,
Himachal Pradesh

.....Petitioner

Vs

1. PTC India Limited,
NBCC Tower,
15, Bhikaji Cama Place,
New Delhi-110066
2. Haryana Power Generation Corporation Limited,
Plot No. C-7, Sector-6, Panchkula,
Haryana-134 109
3. Uttar Pradesh Power Corporation Limited,
Shakti Bhawan, 14, Ashok Marg,
Lucknow-226 001
4. Jaipur Vidyut Vitran Nigam Limited,
Vidyut Bhawan, Janpath,
Jaipur-302 005
5. Ajmer Vidyut Vitran Nigam Limited,
Vidyut Bhawan, Panchsheel Nagar, Makarwali Road,
Ajmer-305 004



6. Jodhpur Vidyut Vitran Nigam Limited,
New Power House, Industrial Area,
Jodhpur-342 003

7. Punjab State Power Corporation Limited,
The Mall, Old PSEB Building,
Patiala-147001

8. Government of Himachal Pradesh,
Shimla-171002 (HP)

9. Himachal Pradesh State Electricity Board Limited,
Vidyut Bhawan,
Shimla-171004

.....Respondents

CORRIGENDUM ORDER

The Commission vide its order dated 17.3.2022 in Petition No.391/GT/2019 had revised the tariff of Karcham Wangtoo Hydroelectric Project (1000 MW) ('the generating station') for the 2014-19 tariff period after truing up exercise and also approved the tariff of the generating station for the 2019-24 tariff period.

2. It has been brought to our notice that certain inadvertent errors have crept in the said order dated 17.3.2022 and the same are rectified as under:

(a) In page 45, paragraph 95, 4th line - "Regulation 8(3)" shall be read as "Regulation 8(13)".

(b) In page 67, paragraph 123 stands deleted as the same is not relevant as MPPMCL, BRPL and TPDDL are not Respondents and the submissions as recorded were not made by any of the Respondents.

(c) In page 68, paragraph 125, 7th line - the word "sgall" shall be read as "shall".

(d) In page 68, paragraph 125, 9th line - the part of sentence starting from "*the reason for which shall be furnished by the Petitioner at the time of truing up of tariff*" stands deleted.

(d) In page 79, paragraph 144, 9th line - "30.9.2023" shall be read as "13.9.2023".

3. Except for the above, all other terms contained in order dated 17.3.2022 in Petition No.391/GT/2019 shall remain unchanged.

Sd/-
(P. K. Singh)
Member

Sd/-
(Arun Goyal)
Member

Sd/-
(I S. Jha)
Member

Sd/-
(P. K. Pujari)
Chairperson





Annexure 74

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Re: Constitution of a team to visit Karcham Wangtoo HEP (1045 MW) of JSW in Himachal Pradesh

From Sumit Goel <sumit.goelcea@gov.in>

Date Tue 05/11/2024 17:23

To Bhopal Singh <memberdr-cwc@nic.in>; Rakesh Goyal <goyal.rakesh@nic.in>; HPA Division <hpaone-cea@gov.in>; Ravi Pradhan <cehpa-cea@gov.in>

Cc Sharvan Kumar <krsharvan@nic.in>; Balwan Kumar <balwan72@nic.in>; Gyan Kumar <gyan.kumar@jsw.in>; Anurag Agarwal <agarwal.anurag@jsw.in>

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Some people who received this message don't often get email from sumit.goelcea@gov.in.

[Learn why this is important](#)

Sir,

Reference is invited to the trailing mail. In this regard, team is proposed to visit the project site from 15th November, 2024 to 18th November, 2024.

Regards

Vaibhav Kumar

Assistant Director-II

HPP&I, CEA

----- On Thu, 19 Sep 2024 10:58:39 +0530 **CEA HPPI <cea-hppi@gov.in>** wrote ---

Sir,

Reference is invited to the trailing mail. In this regard, team is proposed to visit the project site from 03rd October, 2024 to 06th October, 2024.

Regards

Vaibhav Kumar

Assistant Director-II

HPP&I, CEA



From: "CEA HPPI" <cea-hppi@gov.in>

To: "Bhopal Singh" <memberdr-cwc@nic.in>, "Rakesh Goyal" <goyal.rakesh@nic.in>,

"HPA DIVISION" <hpaone-cea@gov.in>, "Chief Engineer HPA" <cehpa-cea@gov.in>
Cc: "GHANSHYAM PRASAD" <chair@nic.in>, "Member Hydro" <member.he@cea.nic.in>,
"Sharvan Kumar" <krsharvan@nic.in>, "Balwan Kumar" <balwan72@nic.in>
Sent: Friday, August 2, 2024 12:50:23 PM
Subject: Constitution of a team to visit Karcham Wangtoo HEP (1045 MW) of JSW in Himachal Pradesh

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Sir,

As per decision of the Authority Meeting held on October 11, 2023 under the Chairmanship of Chairperson (CEA), a site visit of Karcham Wangtoo HEP is to be carried out in the monsoon season to inspect that all the monitoring parameters are in order.

Accordingly, a team comprising of following officers of CEA and CWC, led by Director (HPP&I), CEA to verify the operating parameters provided by developer from time to time, at the site is constituted:

1. Director (HPP&I), CEA.
2. One officer at DD/AD level from HPP&I, CEA.
3. One officer at DD/AD level from HPA, CEA.
4. Two officers at DD/AD level from CWC.

The team is proposed to visit the project site from 21st August, 2024 to 23rd August, 2024.

In this regard, it is requested to kindly nominate officers from CWC/HPA.

भवदीय,
Vaibhav Kumar
Assistant Director-II
एच पी पी एंड आई विभाग / HPP&I Division
केंद्रीय विद्युत प्राधिकरण / Central Electricity Authority





सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

जल परियोजना आयोजन एवं अन्वेषण प्रभाग

Hydro Project Planning & Investigation Division

No.CEA/HPPI/8/2021/111

Date: 29.04.2021

To,

Sh. Gyan Bhadra Kumar
Whole Time Director- Head Hydro
JSW Hydro Energy Limited
Bandra Kurla Complex, Bandra (East)
Mumbai-450001

Sub: Minutes of the Authority meeting held on 30.03.2021 to discuss "Proposal for Uprating the capacity of Karcham-Wangtoo HEP from 1000 MW to 1091 MW with 10% continuous overload" - regarding.

Sir,

Reference is invited to JSW letter No. HBPC/L/KWHEP/18 dated 16.04.2018 regarding Uprating of Karcham-Wangtoo HEP by enhancing capacity from 1000 MW to 1091 MW. In this connection, it is to inform that the Authority meeting to discuss "Proposal for Uprating the capacity of Karcham-Wangtoo HEP from 1000 MW to 1091 MW with 10% continuous overload" was held under the chairmanship of Chairperson, CEA through Video Conferencing on 30.03.2021 wherein detailed deliberations were made in the Authority meeting in light of the recommendations of the Expert Committee constituted by MOWR. Based on various reports and recommendations of the expert groups/ committees and the facts on record, the Authority has agreed to uprate the capacity of Karcham Wangtoo HE Project from existing 1000 MW to 1091 MW in two stages i.e. 1045 MW (with 10% continuous overload) in the first stage and then to 1091 MW (with 10% continuous overload) in the second stage. It was, however, decided by the Authority that after initial uprating to 1045 MW (with 10% continuous overload) in the first stage, the performance of the project and various operating parameters would be observed for at least two monsoon seasons. After this, CEA may concur for further uprating of the capacity to 1091 MW with 10% continuous overload capacity on submission of satisfactory report by the Developer.



The design energy generation from the project corresponding to generation at output in two stages have been indicated by the developer as under:

Stage	Installed Capacity (MW)	Design Energy (MU)
I	1045 MW with 10% overload	4176 MU
II	1091 MW with 10% overload	4234 MU

As directed by the Authority, there should be regular reporting by JSW Hydro Energy Ltd. on monthly and annual basis to CEA and State Govt. as per the specified format, which would be forwarded separately. In addition, if required; CEA may direct further inspections of HRT/ TRT etc. and turbine underwater parts by an independent team to inspect their condition.

Yours faithfully


(V K Mishra)

Secretary, CEA

Copy forwarded for information and necessary action to:

1. Joint Secretary (Hydro) Ministry of Power- with reference to MoP letter No. 15-18/8/2019-H-II dated 27.05.2020 and letter dated 18.05.2020.
2. Chief Engineer (HPI), CEA
3. Chief Engineer (HPA/ PDM), CEA
4. SA to Chairperson CEA
5. SA to Member (Hydro)



GOVERNMENT OF INDIA
CENTRAL ELECTRICITY AUTHORITY
SEWA BHAWAN : R.K. PURAM
NEW DELHI - 110066

File No.2/HP/19/96-PAC/1409-1436

Dated: 31 March, 2003.

OFFICE MEMORANDUM

Subject: 4x250 MW (1000 MW) Karcham Wangtoo Hydro-Electric Project in Himachal Pradesh by M/s Jaypee Karcham Hydro Corporation Limited (M/s JKHCL) at an Estimated Completed Cost of US \$ 117.44 Million + Rs. 5345.88 Crores including IDC & FC of Rs.1549.99 Crores at Foreign Exchange Rate of 1 US \$ = Rs. 48.00 - Issue of Techno-Economic Clearance.

With reference to letter No.JIL/205, dated 15.12.2000 from M/s Jayprakash Industries Limited (M/s JIL) (subsequently new Company JKHCL incorporated on 27.04.02 for execution of the project), submitting generation scheme under section 29 of the Electricity (Supply) Act, 1948 and in accordance with the Government of H.P. letter No.MPP-F(2)15/93-IV, dated 19.02.2003 under Section 18-A of E(S) Act, 1948, it is stated that the proposal for establishment of 4x250 MW (1000 MW) Karcham Wantoo Hydro-Electric Project in Kinnaur District in Himachal Pradesh proposed by M/s JKHCL, as specified in the Detailed Project Report and other documents, papers, notes etc. submitted to CEA and various clarifications made in SPAC Meeting held on 23.1.03 and specified in the Agenda note circulated vide CEA letter No.3/106/260th/2003-PAC/988-1012(H), dated 11.03.03 has been considered in the 260th Meeting of CEA held on 12.03.03 at Sewa Bhawan, R.K. Puram, New Delhi-110066. Subsequently, documents submitted by M/s JKHCL vide their various letters, latest being dated 31.03.2003 in pursuance to decisions taken in the above meetings, have also been considered.

2. In exercise of the powers vested with the Authority as per the GOI direction contained in the Gazette Notification vide F.No.2(ii)/76-EL II, dated 23.11.1977 issued under Section 4(B) of E(S) Act, 1948, the Central Electricity Authority accords techno-economic clearance to the aforesaid scheme at an Estimated Completed Cost of US \$ 117.44 Million + Rs.5345.88 Crores including IDC & FC of Rs.1549.99 Crores at Foreign Exchange Rate of 1 US \$ = Rs.48.00, with the stipulations that:

- i) The completed cost of the scheme shall not exceed the above cost except on account of:-
 - a. Variation in Foreign Exchange Rate in respect of US \$ only
 - b. Change in rates of Indian taxes and duties such as custom duty, excise duty, sales tax, works tax & service tax and additional taxes and duties levied, if any, subsequent to issue of techno-economic clearance
 - c. Change in Indian Law resulting in change in cost



Handwritten notes at the bottom of the page, including dates like 11/3/2003 and other illegible text.

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- ii) Interest During Construction and the Financing Charges shall be as per actuals but not exceeding the amount as indicated at Annex-I.
 - iii) No foreign exchange protection shall be allowed in ROE or repayment of loan / interest.
 - iv) The abstract of the Completed Capital Cost approved by CEA is furnished at Annex-I, Summary of Financial Package, as submitted by M/s JKHCL and considered by CEA, is at Annex-II and the Salient Features of the Scheme are set-forth at Annex-III
 - v) The following conditions/circumstances shall not be a re-opener of completed cost/ techno-economic clearance:
 - a) Non-acquisition of land.
 - b) Non-finalisation of Power Purchase Agreement.

3. This techno-economic clearance is subject to the fulfillment of the following conditions:

- i) M/s JKHCL shall take into account the suggestions of CWC regarding Hydrology & Civil Design aspects at the time of detailed design (Annex-IV) and report thereon shall be submitted to CEA / CWC.
- ii) M/s JKHCL would take into account the observations of CEA on design of electro-mechanical works (Annex-V).
- iii) M/s JKHCL shall ensure that all the surveys and investigations, proposed in DPR and in the comments by GSI / CWC and agreed upon by the project authorities are carried out before detailed design. Various suggestions of GSI are summarised at Annex-VI. The report of additional investigations conducted shall be submitted to CEA / CWC / GSI.
- iv) In case geological surprises in underground works are met, M/s JKHCL shall systematically maintain a record of geological surprises, those are encountered. At the same time, M/s JKHCL shall request Govt. of Himachal Pradesh to constitute an expert committee of representatives from Govt. of H.P., HPSEB, Geological Survey of India, CWC and CEA. Once a committee is constituted, M/s JKHCL shall submit their proposal for the enhanced cost to the expert committee, which in turn, shall examine and recommend the cost thereof subject to a ceiling of 10% of the cost of respective underground works.
- v) Government of Himachal Pradesh shall comply with the following:-
 - a) The exact quantity of the losses due to evaporation of the Karcham Reservoir shall be furnished to CEA/CWC.

G.S.



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- b) Government of Himachal Pradesh shall prepare a perspective plan bringing out the consumptive uses through hydro electric projects and irrigation projects in Satluj river basin so as to have an overall idea about the likely consumptive use by Himachal Pradesh in the basin.
- vi) M/s JKHCL shall obtain the environmental clearance of the project from MOE&F and various stipulations made by the Ministry of Environment & Forests while according environment and forest clearances shall be complied with by the Project Authorities.
- vii) A provision of Rs.54.464 crores has been considered in the cost estimates under the head "Environment & Ecology". This may need to be reviewed as per the conditions contained in the clearance letter of the project from MOEF
- viii) M/s JKHCL shall submit the compliance report in respect of the equipment and facilities for E&M works procured / created in accordance with the Cost Estimates of E&M works considered in TEC
- ix) The promoter has indicated only IFIs / Nationalised Banks as source(s) of loan; with whom he shall negotiate to achieve an interest rate lower than 15% p.a., in view of the declining interest rate(s) regime. However, ceiling of IDC indicated in the TEC letter is based upon 15% p.a. interest rate, which shall be changed pro-rata on account of such lower interest rate
- x) 50% of the promoters equity shall be deployed upfront
- xi) Actual number and size of tranches of the public equity shall not exceed the assumed number of four tranches of equal amount. The proceeds of the public equity issue in trench shall be first deployed
- xii) The public equity issue and expenses shall be governed by MOF Notification / SEBI guidelines applicable.
- xiii) The Insurance premium of Rs 15 Crores has been considered for civil construction works which shall be adjusted as per the actuals
- xiv) The final financial package shall not be inferior to the tentative financial package as contained in the TEC letter
- xv) Approval of the Competent Government for the Final Financial Package shall be made available before submission to the Authority for its approval
- xvi) The project shall be executed with the Final Financial Package approved by the Authority



- xvii) The promoter shall negotiate with IFIs to achieve lower interest rate for Operation period – when construction risks are deemed to have been addressed
- xviii) Tariff shall be decided by Central Electricity Regulatory Commission
- xix) Letters of comfort to avail power from the project shall be obtained & furnished to CEA
- xx) The moratorium period (of 1 year for loan) beyond Commercial Operation Date (COD) shall not be applicable for computation of tariff

The commercial operation dates of the units shall be as under (the zero date of the project shall be January, 2004) :-

COD of Unit -1	August, 2009 (68 months)
COD of Unit -2	October, 2009 (70 months)
COD of Unit -3	November, 2009 (71 months)
COD of Unit -4	December, 2009 (72 months)

5. (a) Monthly Progress Report of the project shall be submitted to Hydro-Monitoring Division of CEA. Three (3) copies of the semi-annual progress reports on physical progress of the scheme and expenditure actually incurred, duly certified by statutory auditors shall be submitted to the Authority till the COD of the plant. The project promoters/project authorities shall give free accessibility to the CEA officers and staff to have on the spot assessment of various aspects of the project.

(b) Final Financial Package and issues related to that shall be submitted to Secretary, CEA.

6. Monthly status of the project from the period of TEC to Financial closure/ Investment decision shall be furnished to Secretary, CEA as per the proforma enclosed at Annex-VII.

7. The completion cost of the scheme shall be submitted to Authority duly recommended by Himachal Pradesh Government for approval as soon as possible after the COD of the plant but not later than three (3) months from the COD of the Plant. Authority shall be intimated the COD duly certified by the State Government / SEB within two weeks of its occurrence

8. The concurrence of the CEA to the scheme under Section 31 of the Electricity (Supply) Act, 1948 shall be considered by the Authority on submission of Firm Financial Package (FFP) and tying-up of balance inputs/ clearances by the company within a period of six months from the date of issue of TEC.


GS



In case the time gap between the Techno-Economic Clearance of the scheme by CEA and actual start of work on the project by the generating company is three years or more, a fresh Techno-Economic Clearance of CEA shall be obtained by the generating company before start of actual work.

10. The Authority reserves the right to revoke the Techno-Economic Clearance, if the conditions stipulated in this Office Memorandum are not complied with to the satisfaction of the Authority.

Encls: Annex. I, II, III, IV, V, VI & VII.


(GURDIAL SINGH)
SECRETARY, CEA

1. Chairman-cum-Managing Director, M/s Jaypee Karcham Hydro Corporation Limited (JKHCL), JA House, 63, Basant Lok, Vasant Vihar, New Delhi-110057.
2. Chief Secretary, Government of Himachal Pradesh, Shimla.
3. Commissioner-cum-Secretary, Government of Himachal Pradesh, Department of Power, Shimla-171002.
4. Chairman, Himachal Pradesh State Electricity Board, Shimla-171004.
5. Chairman, Central Electricity Regulatory Commission, 5th Floor, Core-3, Scope Complex, 7, Institutional Area, Lodhi Road, New Delhi-110003.
6. CMD, Power Grid Corporation of India Limited, Hemkunt Chambers, 10th Floor, 89, Nehru Place, New Delhi-110049.
7. Secretary, Ministry of Power, Government of India, Shram Shakti Bhawan, New Delhi-1.
8. Secretary, Ministry of Environment & Forests, Government of India, Parvathan Bhawan, Lodhi Road, New Delhi-110003.
9. Joint Secretary (IPC)/ (Hydro), Ministry of Power, Shram Shakti Bhawan, New Delhi-1
10. Adviser (Energy), Planning Commission, Yojana Bhawan, New Delhi-110001
11. Shri S. Chopra, Director, Geological Survey of India, Room No.203/204, C-II, Pushpa Bhawan, Madangir Road, New Delhi-110062
12. Chairman, CWC, Sewa Bhawan, R.K. Puram, New Delhi-110066



13. Member (D&R), CWC, Sewa Bhawan, R.K. Puram, New Delhi-110066.
14. Member (Hydro), CEA, Sewa Bhawan, R.K. Puram, New Delhi-110066.
15. Member (Planning), CEA, Sewa Bhawan, R.K. Puram, New Delhi-110066.
16. Member (Thermal), CEA, Sewa Bhawan, R.K. Puram, New Delhi-110066.
17. Member (Grid Operation), CEA, Sewa Bhawan, R.K. Puram, New Delhi-110066.
18. Member (Economic & Commercial), CEA, Sewa Bhawan, R.K. Puram, New Delhi-110066.
19. Member (Power Systems), CEA, Sewa Bhawan, R.K. Puram, New Delhi-110066.
20. Chief Engineer (HPA), CEA, Sewa Bhawan, R.K. Puram, New Delhi-110066.
21. Chief Engineer (SP&PA), CEA, Sewa Bhawan, R.K. Puram, New Delhi-110066.
22. Chief Engineer (F&CA), CEA, Sewa Bhawan, R.K. Puram, New Delhi-110066.
23. Chief Engineer (TCD), CEA, Sewa Bhawan, R.K. Puram, New Delhi-110066.
24. Chief Engineer (Legal), CEA, Sewa Bhawan, R.K. Puram, New Delhi-110066.
25. Chief Engineer (HM), CEA, Sewa Bhawan, R.K. Puram, New Delhi-110066.
26. Chief Engineer (IRP), CEA, Sewa Bhawan, R.K. Puram, New Delhi-110066.
27. Chief Engineer (LD&T), CEA, Sewa Bhawan, R.K. Puram, New Delhi-110066.
28. Chief Engineer (PAO), CWC, Sewa Bhawan, R.K. Puram, New Delhi-110066.



Annex-I

KARCHAM WANGTOO H.E. PROJECT (4X250 MW) IN HIMACHAL PRADESH BY
M/s JAYPEE KARCHAM HYDRO CORP. Ltd. (M/s JKHCL)

ABSTRACT OF COST

(1 x US \$ = Rs.48.00)

	COMPLETION COST		
	Domestic Component Rs. Crores	Foreign Component M US \$	Total Equ. Cost Rs. Crs.
I. CIVIL WORKS	3278.39	-	3278.39
II. a) E&M WORKS	228.52	117.44	792.23
b) TAXES & DUTIES	156.87	-	156.87
c) FREIGHT & INSURANCE	46.54	-	46.54
d) ERECTION & COMMISSIONING	70.57	-	70.57
SUB TOTAL E&M WORKS	502.50	117.44	1066.21
III. TOTAL COST WITHOUT IDC & FC	3780.89	117.44	4344.60
IV. IDC	1456.50	-	1456.50
V. FC	93.49	-	93.49
VI. INSURANCE PREMIUM ON CIVIL CONSTRUCTION WORKS	15.00	-	15.00
VII. TOTAL COST WITH IDC & FC	5345.88	117.44	5909.59



Annexure-II

Karcham Wangtoo HEP(4x250 MW) in Himachal Pradesh by M/s Jaypee Karcham Hydro Corp. Ltd. (M/s JKHL)

I. Tentative Financial package

Debt Equity Ratio = 70:30

Exchange Rate 1 US \$ = Rs. 48.00

Description	Foreign component		Domestic component (Rs.crs)	Total (Rs.crs)
	US\$ (Million)	Equv.INR (Rs.crs)		
A. Equity				
i) Promoter	-	-	904.17	904.17
ii) Public	-	-	868.71	868.71
Sub Total(Equity)	-	-	1772.88	1772.88
B. Debt				
i). IFI/Banks(Rupee loan)	-	-	3344.86	3344.86
ii) Rupee tied loan	117.44@	563.71@	-	563.71
iii) IDC on Rupee tied loan	-	-	228.14@	228.14
Sub total (Debt)	117.14	563.71	3573.00	4136.71
Total (Debt + Equity)	117.44	563.71	5345.88	5909.59

@Variation in the amount shall be allowed based on FE rate prevailing on the date of drawl and consequent change in IDC and FC for this portion, which shall be denominated only in Rupees.

II. Terms of Loan

Sl. No.	Description	Package I	Package II	Package III
1	Source of debt	IFI/Banks	Rupee tied loan for imports	IDC on Rupee tied loan
	Currency	INR	INR	INR
2	Amount	Rs 3344.86 Crores	Rs 563.71 crores	Rs 228.14 crores
3	Interest rate	15 % p.a.	15 % p.a.	15% p.a.
4	Repayment period	10 years	10 years	10 years
5	Moratorium period	One year after completion	One year after completion	One year after completion
6	Financing charges	1% of loan amount	1% of loan amount	1% of loan amount



**KARCHAM WANGTOO HYDROELECTRIC PROJECT (4X250 MW) -
HIMACHAL PRADESH**

SALIENT FEATURES

LOCATION

State	HIMACHAL PRADESH
District	Kinnaur
River	Satluj

HYDROLOGY

Catchment area at dam site	48755 Sq.km
Snow catchment	38760 Sq.km
Maximum observed average 10 daily discharge	1870.48 cumec
Design flood	5660 cumec
Average run off in 90% availability year	9413 MCM
Average run off in 50% mean year	12148 MCM
Discharge for 90% availability	80.8 cumec
Discharge for 50% availability	176.0 cumec

RIVER DIVERSION WORKS

Diversion Tunnel	
Dia	10.5 m
Length	456 m
Coffer Dams	
Type	Rock fill with impervious core
Upstream	20.5 m high
Downstream	8.5 m high

DIVERSION DAM

Type	Concrete Gravity
Top of dam	EL 1813.00 m
Height from deepest foundation level	98 m
Total length at top	177.8 m
No. of blocks	12
Minimum river bed level at dam axis	El 1770.00 m ✓
Deepest foundation level	El 1715.00 m
Maximum pond level	El 1810.00 m
Minimum pond level	El 1799.00 m



Annex III
P 2/5

Live storage capacity

544.97 Ha-m

MAIN SPILLWAY (SLUICES)

No. of bays	6
Size of each sluice	9 m (W) x 9.0 m (H)
Crest elevation	1782.00 m
Size of each gate	9 m (W) x 9.25 m (H)
Type of gates	Radial gates (top sealing type)
Maximum flood level	1808 m
Discharge capacity of sluices	8260 cumec

INTAKE

Number of intake bays	Four
Size of each bay at trash-racks	18 m (W) x 7.5 m (H)
Crest level	1786.00 m
Minimum water level U/s	1799.00 m
Discharge through each intake bay	130.25 cumec
Number of intake gates	Four
Size of each gate	6.00 M (W) X 5.25 M (H)
Size of intake tunnels	6.0 m modified Horse Shoe shaped

SEDIMENTATION CHAMBERS

Number of Sedimentation Chambers	Four
Particle size to be excluded	0.2 mm and above
Size of each chamber	505 m x 16.0 m x 28 m
Design discharge	521.25 cumec
Flushing discharge	104.25 cumec

LINK TUNNELS

Size	Four individual link tunnels of 6.0 m dia
Length of each tunnel	Outer link tunnels - 125.5 m
Gates at start of link tunnels	Inner link tunnels - 65.5 m
Size	4 nos.
	6.0 m (W) x 6.0 m (H)

FLUSHING CONDUITS

Number	4
Size	2.75 m dia circular
Lengths	300 m, 330 m, 370m and 405 m



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Annex III
P3/5

HEADRACE TUNNEL

Size & type	10.48 m dia circular
Length	17.2 km
Velocity through tunnel	4.83 m/sec
Design discharge	417 cumecs
Slope	1:150
Adits	

	Chainage from intake axis (m)	Length (m)
Inlet Adit	900	225
Intermediate adit 1	3104	470
Intermediate adit 2	5092	450
Intermediate adit 3	7385	250
Intermediate adit 4	11860	100
Intermediate adit 5	14310	600
Surge shaft adit	17750	140

SURGE SHAFT

Type	Restricted orifice
Diameter	16 m upto EL 1755.00 m and 27 m from EL 1755.00 m to EL 1852.00 m
Bottom elevation	EL 1667.950 m
Top elevation	EL 1852.00 m
Maximum upsurge	1848.880 m
Minimum upsurge	1717.103 m

PRESSURE SHAFTS

No. and type	4 nos. steel lined
Diameter	4.75 m
Length of each penstock	290.50 m

VALVE CHAMBER

Location	Downstream of surge shaft
Size of chamber	95 m x 10 m x 22 m (LxBxH)
Type of valves	Butterfly valves
Diameter of each valve	4750 mm



Annex III
P9/5

**POWER STATION COMPLEX
POWER HOUSE/TRANSFORMER CAVITY**

Type	Underground
Installed Capacity	1000 MW (4x250 MW)
Size of machine hall	143 m (L) x 21 m (W) x 49 m (H)
Size of transformer hall	143 m (L) x 15.5 m (B) x 25 m (H)
Average gross head	298.73 m
Net head at 417 cumec tunnel discharge	275.93 m
Length of cable tunnel	528.71 m

ELECTRO-MECHANICAL EQUIPMENT

TURBINES

No. and type	4 (four) nos., Francis turbines
Rating	255 MW/347,000 MHP
Maximum/Minimum Head	303.50/258.20 m
Design head	275.93 m
Design discharge	104.25 cumecs
Speed	214.30 rpm

MAIN INLET VALVES

No. and Type	4 Nos., Spherical type
Diameter	3200 mm

PENSTOCK BUTTERFLY VALVE

No. and Type	4 Nos., Butterfly type
Diameter	4000 mm

GENERATORS

No. and Type	4 nos., semi-umbrella, vertical synchronous generators
Rated output	277.70 MVA
Rated voltage	15.75 kv
Speed	214.30 rpm

GENERATOR-TRANSFORMERS

Number	13 (Thirteen), including one spare
Rating	4 banks of three single phase transformers, 93 MVA, 15.75/400/√3 kV

PS



Annex-III
P 5/5

11/13

420 kV GAS INSULATED SWITCHGEAR

Type	Indoor/Outdoor G.I.S.
Rating	420 kV, 4000/2000 A (bus bar/feeder ratings), 40 kA
No. of bays	Symm. S.C. current for one second 11 (eleven) comprising generator-transformer and Bus-coupler bays (located underground) and 6 Nos. Feeder bays outdoor type

COLLECTION GALLERY CUM D/s SURGE CHAMBER

Size	220 m (L) x 16 m (W) x 42.5 m (H)
Maximum surge level	1523.065 m
Minimum surge level	1497.812 m

TAIL RACE TUNNEL

Size & Type	10.48 m dia circular shape
Length	909 m
Invert level of tail race tunnel at outfall	1505.00 m
Normal tail water level	1508.00 m
Maximum tail water level	1516.25 m

POWER GENERATION

Installed Capacity	1000 MW
Annual generation-90% dependable year	4559.77 GWH
Plant load factor-90% dependable year	52.05 %



Karcham Wangtoo H.E. Project (4x250 = 1000 MW) – Himachal Pradesh
by M/s JKHCIL

Observations of CWC on water availability and design flood

Hydrological Aspects

The cause of flood occurred in August, 2000 in Sutluj basin as well as its magnitude are yet to be re-assessed, it can not be used for estimating the design flood at Karcham dam site. At this stage a design flood of 5660 Cumecs, which was recommended for Nathpa Jhakri H.E. Project, under construction about 40 Km downstream of Karcham Dam Site on the same river may be used tentatively for planning of the project. The design flood may, however, be reviewed after collecting sufficient site specific hydro meteorological data as well as assessment of the flood occurred in August, 2000 before taking up of construction design.

Gates Design

A separate and suitable air vent be provided downstream of intake gate at the time of detailed design.

Concrete Masonary Dam Design Aspects

1. The NOF and OF sections should have a suitable downstream profile in order that a most economical and stable section is obtained. Foundation gallery near the upstream face should be provided as per IS 12966-1922 in order to reduce the uplift pressure.
2. Seismic design parameters should be got studied by the National committee of Seismic Design Parameters.
3. Reservoir rim stability should be got studied by a reputed geological organisation like GSI, etc.
4. Consolidation Grouting as proposed in the DPR i.e. 15 m deep @ 3 m c/c may be retained in the DPR although this aspect should be finalised on the basis of actual geological strata encountered during excavation. Similarly, the exact depth and spacing of curtain grouting should be ascertained on the basis of actual geological strata.
5. Spillway & Energy Dissipation should be finalised on the basis of model testing to be conducted before construction stage.
6. Additional samples should be tested to estimate the Uniaxial Compressive Stress properly. Permeability of the rock should also be tested.



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Annex -V. ^{4.6}

Karchasa Wangtoo, U. Z. Project (4x250 = 1000 MW) - Himachal Pradesh
by M/s JKPCCL

Observations of CEA on Design of Electro-Mechanical Works

- i) The detailed system studies and optimum value of S.C.R. etc. will be got conducted by M/s Jaiprakash Industries Limited vide their letter No. JIJ205 dated 13th March, 2002 at the time of order of equipment.
- ii) In view of equipment parameters like Short Circuit ratio, line charging capacity, generator voltage etc. to be optimized at the time of detailed designs, no increase in cost will be admissible subsequently.
- iii) Any reduction, if any in cost of equipment will be to project account.

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PROFORMA

Monthly status of progress in respect of Power Generation Schemes already accorded TEC by CEA and which are yet to achieve financial closure/ investment sanction.

- | | | |
|-----|---|--|
| 1. | Name of the Project | Karcham Wangtoo Hydro-Electric Power Project (4x250 MW) in Himachal Pradesh. |
| 2. | Name of Power Company | M/s Jaypee Karcham Hydro Corporation Limited (JKHCL), JA House, 63, Basant Lok, Vasant Vihar, New Delhi - 110 057. |
| 3. | Date of TEC | 31.3.2003 |
| 4. | Status of Power Purchase Agreement | |
| 5. | Status of tie-up of Finances | |
| 6. | Status of EPC Contract | |
| 7. | Status of O&M Contract | |
| 8. | Status of Firm Financial Package
(to be submitted by 30.9. 2003) | |
| 9. | Date of Financial Closure | |
| 10. | Expected COD | |
| 11. | Status of Site Activities
(Land acquisition, R&R activities,
site development works etc.) | |
| 12. | Status of Compliance of the conditions
imposed at the time of issue of TEC | |
| 13. | Reasons/ constraints for delays in achieving
the financial closure | |



List of additional capitalization during control period 2019-24

Year of Capitalization	Asset description	Date of Capitalization	Amount (INR)
2019-20	Bolero Camper	17-07-2019	7,49,849.00
	Beam Detector	30-10-2019	8,37,800.00
	TIG Welding Machine (Wangtoo Power House)	19-11-2019	3,75,052.00
	ARC Welding Machine (Wangtoo Power House)	24-12-2019	1,61,259.00
	TIG Welding Machine (Wangtoo Power House)	06-01-2020	3,75,052.00
	Diesel engine operated welding machine, model sile	24-01-2020	7,05,876.00
	ARC Welding Machine (Wangtoo Power House)	06-03-2020	1,61,259.00
	Guide Vanes	13-02-2020	2,80,24,999.91
	Total		3,13,91,146.91
2020-21	Quick response vehicle (QRV) safety deptt	16-09-2020	17,18,198.68
	Bolero ZLX B6	26-11-2020	9,34,979.00
	Bolero ZLX	26-11-2020	9,41,979.00
	Construction of D Type Accomdations	30-03-2021	1,99,34,781.49
	Total		2,35,29,938.17
2021-22	Constrction of New Township At Kilba	31-05-2021	15,55,90,068.43
2021-22	Monitoring Temp;-190 TO 700 DEG C;24 VDC (k.W.)	22-07-2021	60,00,000.28
2021-22	Bolero Camper BS-VI	30-08-2021	17,98,108.00
2021-22	Bolero ZLX B6 (O), BS-VI	30-08-2021	10,17,788.00
2021-22	Bolero ZLX B6 (O), BS-VI	30-08-2021	10,17,788.00
2021-22	Truck Tata Ultra EX 1918 BS-6	13-09-2021	23,00,000.00
2021-22	Excavator cum loader JCB 3dx super 4x4	24-11-2021	32,29,999.84
2021-22	Fork Lift 5TON (VOLTAS)	20-12-2021	17,52,300.00
2021-22	Construction auditorium at sholtu	31-03-2022	82,76,409.24
2021-22	Construction of Residential Buildg Block-B KUPPA	31-03-2022	2,66,29,756.97
2021-22	Construction of Block-A Guest House at Kuppa	31-03-2022	3,10,11,376.29
2021-22	Construction of Block-C Bachelor Accomodtn kuppa	31-03-2022	1,77,83,783.55
	Total		25,64,07,378.60
2022-23	Bus,passenger vehicle,LP410/36 bs-6,1,3	31-05-2022	20,84,100.00
2022-23	Truck bolero pickup BS-6;mahindra rise	31-05-2022	9,06,082.00
2022-23	Bolero Cameper 4WD PS	31-05-2022	9,37,662.40
2022-23	BOLERO CAMPER 4WD PS	31-05-2022	9,40,582.00
2022-23	Mahendra bolero car neo N10	23-06-2022	11,21,049.34
2022-23	Mahendra bolero car neo N10	23-06-2022	11,21,049.34
2022-23	Mahendra bolero car neo N10	23-06-2022	11,21,049.34
2022-23	Mahendra bolero car neo N10	23-06-2022	11,21,049.34
2022-23	Car innova crysta BS-6,wht,ZX MNL	01-09-2022	26,61,541.00
2022-23	Car,passenger vehicle;bolero BS-6 (O)	22-12-2022	9,64,259.00
2022-23	Car,passenger vehicle;bolero BS-6 (O)	22-12-2022	11,05,368.00
2022-23	Car,passenger vehicle;bolero BS-6 (O)	22-12-2022	11,05,368.00
2022-23	Car,passenger vehicle;bolero BS-6 (O)	22-12-2022	11,05,368.00
2022-23	Automobile,trk,wht,LPT 710 BS-6,DSL	27-12-2022	15,07,754.94
	Total		1,78,02,282.70
2023-24	Construction of Block- H at Kuppa	30-06-2023	1,56,24,391.41
2023-24	Construction of Block- 'E' at Kuppa	30-06-2023	1,48,03,551.00
2023-24	Construction of Block- 'D' at Kuppa	30-06-2023	1,48,03,551.00
2023-24	PCB,SCR FIR CRD;K7000-009,VG PWR AB	30-06-2023	28,08,400.00
2023-24	Car Bolero Camper 4WD PS	30-11-2023	10,36,901.66
2023-24	Car Bolero Camper 4WD PS	30-11-2023	10,36,901.69
2023-24	WLD MCHN.ARC,IGBT INVERTOR,415V,29.7KW,H	31-12-2023	97,350.00
2023-24	Upgradation of Monitoring system	31-03-2024	1,49,74,188.20
2023-24	Vehicles	31-03-2024	24,48,955.00
2023-24	Passanger Vehicle-Scorpio-N	31-03-2024	24,08,269.02
	Total		7,00,42,458.98
	Grand Total		39,91,73,205.36



List of De-capitalization during control period 2019-24

Sr. No.	Name of the Asset	Nature of de-capitalization (whether claimed under exclusion or as additional capital expenditure)	Original Value of the Asset Capitalised	Year Put to use	Depreciation recovered till date of de- capitalization *
1	2	3	4	5	6
2019-20	Guide vanes	Assets decapitalised against replacment of assets	2,11,76,091	2010	1,55,29,134
2019-20	DG Welding Machine		3,00,000	1997	2,93,207
			2,14,76,091		1,58,22,341
2021-22	Bolero Camper (HP26A-0530)		1,42,302	2002	1,40,320
2021-22	XLPE Cable temprature monitoring system.		81,53,705	2010	59,79,384
2021-22	Bolero ZLX (HP51A-9099)		4,16,018	2005	4,15,233
2021-22	Bolero ZLX (HP26A- 0444)		4,16,018	2006	4,15,253
2021-22	Bolero ZLX (HP26A- 0670)		4,28,158	2007	4,27,014
2021-22	Bolero ZLX (HP26A- 2032)		4,60,963	2007	4,59,695
2021-22	Buidling at Sholtu & Kilba		59,02,536	2008	51,15,531
2021-22	Maruti Baleno (HP26A-0450)		6,84,000	2006	6,83,234
2021-22	JCB excavator		9,66,160	2001	9,44,423
2021-22	Truck - Tata 1613 (HP26A- 0880)		1,66,083	2001	1,65,626
2021-22	Bolero Camper (HP26A-0294)		1,90,539	2005	1,90,015
2021-22	Bolero Camper (HP26A-0295)		1,90,539	2005	1,90,015
			1,81,17,021		1,51,25,743
2022-23	Fork lift 5ton		4,50,000	2008	4,27,500
2022-23	Fork lift 3ton		4,50,000	2008	4,27,500
2022-23	Truck -Tata (407)		1,33,886	1997	1,30,874
2022-23	Truck -Tata (407)		1,33,886	1999	1,30,874
2022-23	Toyota Innova (HP26A-2113)		10,87,000	2007	10,85,296
			22,54,772		22,02,044
2023-24	Bolero ZLX (HP26A- 0672)		4,16,018	2007	4,14,841
2023-24	Bolero ZLX (HP26A- 0668)		4,16,018	2007	4,14,874
2023-24	Bolero ZLX (HP26A- 0665)		4,16,018	2007	4,14,879
2023-24	Bolero ZLX (HP26A- 0667)		4,16,078	2007	4,14,934
2023-24	Bolero ZLX (HP26A- 0669)		4,16,078	2007	4,14,934
2023-24	Bolero ZLX (HP26A- 0673)		4,16,078	2007	4,14,901
2023-24	Human Machine Interface (HMI) upgradation for excitation system		8,66,897	2010	6,35,724
			8,66,897	2010	6,35,724
		8,66,897	2010	6,35,724	
2023-24	Vibration monitoring system	21,67,242	2010	15,89,311	
		21,67,242	2010	15,89,311	
		21,67,242	2010	15,89,311	
		21,67,242	2010	15,89,311	
		1,37,65,947		1,07,53,779	
	Total for control period 2019-24		5,56,13,831		4,39,03,907



Sr. No.	Description of assets / work	Cost approved in principle vide order dt 17.3.2022 (Rs. Lakh)							Actual incurred (Rs Lakh)					Balance available
		2019-20	2020-21	2021-22	2022-23	2023-24	Total	2019-20	2020-21	2021-22	2022-23	2023-24	Total	
		80	-	-	-	-	80	80			60			
2	Vibration monitoring system(For all 4 units)	-	25	25	25	25	100					150	150	-50
3	Human Machine Interface (HMI) upgradation for excitation system for three units	-	-	10	10	10	30							30
4	Partial Discharge measurement system	-	25	-	-	-	25							25
5	Beam Detector	8	-	-	-	-	8	8						-0
6	Guide Vanes	280	300	-	350	-	930	280					280	650
7	Supervision Vehicles	8	124	50	-	-	182	7	36	38	154	97	333	-151
8	Machinery & Equipments (i.e Fork Lift, JCB, Loader, welding machine, Crane etc)	9	66	-	56	50	181	18		50	24	1	93	88
9	Material Shifting equipments i.e. Truck, Tipper etc.	-	27	12	-	-	39			23				16
10	Kilba Township	1500	-	-	-	-	1500			1,556			1,556	-56
11	Sholtu Township	200	800	600	-	-	1600		199	837		452	1,489	111
	Total	2085	1367	697	441	85	4675	314	235	2,564	178	700	3,992	683
	Grand Total						4675			3992				



JSW Hydro Energy Ltd. [Karcham Wangtoo HEP]

Details of Gross generation, Auxilliary consumption and saleable generation for FY 2019-20

	Design Gross energy	Normative Aux Cons. @ 1.2%	Normative Free Power @ 12%	Saleable design energy (A)	Actual gross generation	Actual Aux Consumption	Actual Aux Consumption	Saleable scheduled generation (B) (net of free power @12%) on the basis of actual aux. consumption	Aux consumption (on design energy) with actual rate	Saleable design energy (C) (net of free power @12%) on the basis of actual Aux. consumption	{Saleable Scheduled generation - [(Saleable Scheduled Generation x (100- normative AEC in %)/(100- actual AEC in %)]}	50% of Gain in Aux Cons. @ Rs. 1.20 / kWh to be passed to Beneficiaries		
												Actual Aux Consumption	%	Mus
2019-20														
April	237.62	2.85	28.17	206.60	291.29	2.08	0.71	254.51	1.70	207.75	1.25	1.25	0.07	
May	577.90	6.93	68.52	502.45	424.73	2.76	0.65	371.33	3.76	505.62	2.05	2.05	0.12	
June	614.28	7.37	72.83	534.08	752.98	5.24	0.70	658.02	4.27	537.18	3.34	3.34	0.20	
July	706.80	8.48	83.80	614.52	823.04	5.29	0.64	719.62	4.54	618.46	4.03	4.03	0.24	
August	706.80	8.48	83.80	614.52	789.42	5.71	0.72	689.67	5.11	617.89	3.31	3.31	0.20	
September	479.07	5.75	56.80	416.52	655.80	4.40	0.67	573.23	3.22	419.06	3.05	3.05	0.18	
October	150.37	1.80	17.83	130.74	263.87	1.88	0.71	230.55	1.07	131.47	1.14	1.14	0.07	
November	131.58	1.58	15.60	114.40	172.72	1.39	0.81	150.76	1.06	114.92	0.60	0.60	0.04	
December	157.63	1.89	18.69	137.05	132.41	1.18	0.89	115.48	1.41	137.54	0.36	0.36	0.02	
January	126.79	1.52	15.03	110.24	115.77	1.12	0.97	100.89	1.23	110.53	0.23	0.23	0.01	
February	103.95	1.25	12.32	90.38	102.43	1.03	1.01	89.23	1.05	90.58	0.17	0.17	0.01	
March	138.27	1.66	16.39	120.22	122.06	1.09	0.89	106.45	1.24	120.64	0.33	0.33	0.02	
Total	4,131.06	49.57	489.78	3,591.71	4,646.52	33.18	0.71	4,059.74	29.65	3,611.63	19.87	19.87	1.19	

Saleable scheduled generation

4,059.74

Saleable design energy on the basis of normative auxiliary consumption

3,591.71

Saleable design energy on the basis of actual auxiliary consumption

3,611.63

Conditions as per second proviso to Regulation 8 (6) of CERC (Terms & Condition of Tariff) Regulations, 2014

i. Saleable schedule generation is more than saleable design energy on the basis of normative aux. energy consumption, AND

Saleable schedule generation is less than or equal to saleable design energy on the basis of actual aux. energy consumption

ii. Saleable schedule generation is more than saleable design energy on the basis of actual aux. energy consumption

Condition applies

NO

YES

Sharing of gain to beneficiaries:

Year	HPPC	HPPC	UPPCL	RUVNL	PSPCL	Total
	376 MW	376 MW	200 MW	104 MW	200 MW	880 MW
2019-20	42.727%	42.727%	22.727%	11.818%	22.727%	100.000%
Gain for auxiliary consumption (Rs. Crore)	0.51	0.51	0.27	0.14	0.27	1.19

Annexure 'TS'

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Original

JSW Hydro Energy Limited
 (Formerly Himachal Baspa Power Company Ltd)
 Sholtu Colony,
 PO Tapri, Dist. Kinnaur
 Himachal Pradesh - 172104
 Phone: 9816507000, 9805002039
 Fax No. : 01786-261258
 CIN: U40101HP2014PLC000681
 PAN: AADCH3821L
 GSTIN : 02AADCH3821L1ZU

Credit Note

To:		Debit Note no.	JSWHEL/AUX/FY 2020-21/01
PTC India Limited 2nd Floor, NBCC Tower 15 Bhikaji Cama Place New Delhi - 110 066 Fax: 91 11 41659142 PAN: AABCP7947F GSTIN: 07AABCP7947F1Z8		Date	15/06/2020
		Customer Ref.	HPPC
		Source	Karcham Wangtoo HEP
		PPA/LOI ref.	Power Purchase Agreement dated 21.03.2006 read with Settlement Agreement dated 05.08.2013 entered into between PTC & JSW Hydro Energy Ltd. (formerly HBPC & JPVL) and CERC (Terms and Conditions of Tariff) Regulations, 2019
Sl. No.	Particulars		Amount (In Rupees)
1	Sharing of gain on account of aux consumption ((Regulation of (60) of CERC tariff regulation,2019))		5,094,652
Total Invoice Amount			5,094,652
Amount (in Words)	Fifty Lakh Ninety Four Thousand Six Hundred Fifty Two Only		
Payment Account Details:			
Company Name:	JSW Hydro Energy Limited	Bank Name:	State Bank of India
Branch:	CAG Branch, Neville House, Bellard Estate, Mumbai		
Account Number:	35276747811	IFSC Code:	SBIN0016376

For JSW Hydro Energy Limited

Authorized Signatory



Enclosure: Working sheet attached



JINDAL Part of O.P. Jindal Group

Corp Office: JSW Centre
 Bandra Kurla Complex,
 Bandra (East),
 Mumbai - 400 051
 Phone: +91 22 4286 1000
 Fax : +91 22 4286 3000



Original

JSW Hydro Energy Limited
 (Formerly Himachal Baspa Power Company Ltd)
 Sholtu Colony,
 PO Tapri, Dist. Kinnaur
 Himachal Pradesh - 172104
 Phone: 9816507000, 9805002039
 Fax No. : 01786-261258
 CIN: U40101HP2014PLC000681
 PAN: AADCH3821L
 GSTIN : 02AADCH3821L1ZU

Credit Note

To:		Debit Note no.	JSWHEL/AUX/FY 2020-21/02
PTC India Limited 2nd Floor, NBCC Tower 15 Bhikaji Cama Place New Delhi - 110 066 Fax: 91 11 41659142 PAN: AABCP7947F GSTIN: 07AABCP7947F1Z8	Date	15/06/2020	
	Customer Ref.	UPPCL	
	Source	Karcham Wangtoo HEP	
	PPA/LOI ref.	Power Purchase Agreement dated 21.03.2006 read with Settlement Agreement dated 05.08.2013 entered into between PTC & JSW Hydro Energy Ltd. (formerly HBPC & JPVL) and CERC (Terms and Conditions of Tariff) Regulations, 2019	
Sl. No.	Particulars		Amount (In Rupees)
1	Sharing of gain on account of aux consumption ((Regulation of (60) of CERC tarfff regulation,2019))		2,709,921
Total Invoice Amount			2,709,921
Amount (In Words)	Twenty Seven Lakh Nine Thousand Nine Hundred Twenty One Only		
Payment Account Details:			
Company Name:	JSW Hydro Energy Limited	Bank Name:	State Bank of India
Branch:	CAG Branch, Neville House, Bellard Estate, Mumbai		
Account Number:	35276747811	IFSC Code:	SBIN0016376

For JSW Hydro Energy Limited

Authorized Signatory



Enclosure:

Working sheet attached



Part of O.P. Jindal Group



Corp Office: JSW Centre
 Bandra Kurla Complex,
 Bandra (East),
 Mumbai - 400 051
 Phone: +91 22 4286 1000
 Fax : +91 22 4286 3000



Original

JSW Hydro Energy Limited
 (Formerly Himachal Baspa Power Company Ltd)
 Sholtu Colony,
 PO Tapri, Dist. Kinnaur
 Himachal Pradesh - 172104
 Phone: 9816507000, 9805002039
 Fax No. : 01786-261258
 CIN: U40101HP2014PLC000681
 PAN: AADCH3821L
 GSTIN : 02AADCH3821L1ZU

Credit Note

To:		Debit Note no.	JSWHEL/AUX/FY 2020-21/03
PTC India Limited 2nd Floor, NBCC Tower 15 Bhikaji Cama Place New Delhi - 110 066 Fax: 91 11 41659142 PAN: AABCP7947F GSTIN: 07AABCP7947F1Z8	Date	15/06/2020	
	Customer Ref.	RDPPC	
	Source	Karcham Wangtoo HEP	
	PPA/LOI ref.	Power Purchase Agreement dated 21.03.2006 read with Settlement Agreement dated 05.08.2013 entered into between PTC & JSW Hydro Energy Ltd. (formerly HBPL & JPVL) and CERC (Terms and Conditions of Tariff) Regulations, 2019	
SI. No.	Particulars		Amount (In Rupees)
1	Sharing of gain on account of aux consumption ((Regulation of (60) of CERC tariff regulation,2019))		1,409,159
Total Invoice Amount			1,409,159
Amount (In Words)	Fourteen Lakh Nine Thousand One Hundred Fifty Nine Only		
Payment Account Details:			
Company Name:	JSW Hydro Energy Limited	Bank Name:	State Bank of India
Branch:	CAG Branch, Neville House, Bellard Estate, Mumbai		
Account Number:	35276747811	IFSC Code:	SBIN0016376

For JSW Hydro Energy Limited

Authorized Signatory

Enclosure: Working sheet attached



Part of O.P. Jindal Group



Corp Office: JSW Centre
 Bandra Kurla Complex,
 Bandra (East),
 Mumbai - 400 051
 Phone: +91 22 4286 1000
 Fax : +91 22 4286 3000



Original

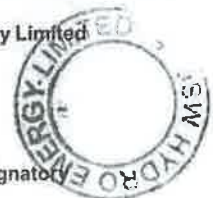
JSW Hydro Energy Limited
 (Formerly Himachal Baspa Power Company Ltd)
 Sholtu Colony,
 PO Tapri, Dist. Kinnaur
 Himachal Pradesh - 172104
 Phone: 9816507000 , 9805002039
 Fax No. : 01786-261258
 CIN: U40101HP2014PLC000681
 PAN: AADCH3821L
 GSTIN : 02AADCH3821L1ZU

Credit Note

To:		Debit Note no.	JSWHEL/AUX/FY 2020-21/04
PTC India Limited 2nd Floor, NBCC Tower 15 Bhikaji Cama Place New Delhi - 110 066 Fax: 91 11 41659142 PAN: AABCP7947F GSTIN: 07AABCP7947F1Z8	Date	15/06/2020	
	Customer Ref.	PSPCL	
	Source	Karcham Wangtoo HEP	
	PPA/LOI ref.	Power Purchase Agreement dated 21.03.2006 read with Settlement Agreement dated 05.08.2013 entered into between PTC & JSW Hydro Energy Ltd. (formerly HBPC & JPV) and CERC (Terms and Conditions of Tariff) Regulations, 2019	
Sl. No.	Particulars		Amount (In Rupees)
1	Sharing of gain on account of aux consumption ((Regulation of (60) of CERC tariff regulation,2019))		2,709,921
Total Invoice Amount			2,709,921
Amount (In Words)	Twenty Seven Lakh Nine Thousand Nine Hundred Twenty One Only		
Payment Account Details:			
Company Name:	JSW Hydro Energy Limited	Bank Name:	State Bank of India
Branch:	CAG Branch, Neville House, Bellard Estate, Mumbai		
Account Number:	35276747811	IFSC Code:	SBIN0016376

For JSW Hydro Energy Limited

Authorized Signatory



Enclosure:

Working sheet attached



JINDAL Part of O.P. Jindal Group



Corp Office: JSW Centre
 Bandra Kurla Complex,
 Bandra (East),
 Mumbai - 400 051
 Phone: +91 22 4286 1000
 Fax : +91 22 4286 3000

JSW Hydro Energy Ltd. (Karcham Wangtoo HEP)

Details of Gross generation, Auxilliary consumption and saleable generation for FY 2020-21

	Design Gross energy	Normative Aux Cons. @ 1.2%	Normative Free Power @ 12%	Saleable design energy (A)	Actual gross generation	Actual Aux Consumption	Actual Aux Consumption	Saleable scheduled generation (B) (net of free power @12%) on the basis of actual aux. consumption	Aux consumption (on design energy) with actual rate	Saleable design energy (C) (net of free power @12%) on the basis of actual Aux. consumption	{Saleable Scheduled generation - [(Saleable Scheduled Generation x (100- normative AEC in %)/(100- actual AEC in %))]}	50% of Gain in Aux Cons. @ Rs. 1.20 / kWh to be passed to Beneficiaries	
2020-21	Mus				%			Mus					Rs. Lakh
April	237.62	2.85	28.17	206.60	170.86	1.16	0.68	149.33	1.62	207.83	0.78	4.69	
May	577.90	6.93	68.52	502.45	394.16	2.50	0.63	344.66	3.67	505.72	1.96	11.77	
June	614.28	7.37	72.83	534.08	711.69	4.45	0.63	622.37	3.84	537.61	3.60	21.58	
July	706.80	8.48	83.80	614.52	821.40	5.34	0.65	718.13	4.60	618.41	3.97	23.85	
August	706.80	8.48	83.80	614.52	804.06	5.33	0.66	702.89	4.68	618.32	3.80	22.83	
September	479.07	5.75	56.80	416.52	615.16	4.05	0.66	537.77	3.15	419.12	2.93	17.59	
October	150.37	1.80	17.83	130.74	259.67	1.79	0.69	226.94	1.03	131.51	1.17	7.02	
November	131.58	1.58	15.60	114.40	153.67	1.07	0.70	134.29	0.92	115.06	0.68	4.08	
December	157.63	1.89	18.69	137.05	122.50	0.87	0.71	107.04	1.12	137.82	0.53	3.17	
January	126.79	1.52	15.03	110.24	107.29	0.79	0.74	93.72	0.93	110.82	0.44	2.63	
February	103.95	1.25	12.32	90.38	91.10	0.70	0.77	79.54	0.80	90.82	0.34	2.05	
March	138.27	1.66	16.39	120.22	109.86	0.64	0.58	96.11	0.81	121.07	0.60	3.58	
Total	4,131.06	49.57	489.78	3,591.71	4,361.4202	28.70	0.66	3,812.80	27.17	3,614.11	20.80	124.83	

Saleable scheduled generation

3,812.80

Saleable design energy on the basis of normative auxiliary consumption

3,591.71

Saleable design energy on the basis of actual auxiliary consumption

3,614.11

Conditions as per second proviso to Regulation 8 (6) of CERC (Terms & Condition of Tariff) Regulations, 2014

- Saleable schedule generation is **more** than saleable design energy on the basis of normative aux. energy consumption, **AND**
Saleable schedule generation is **less** than or equal to saleable design energy on the basis of actual aux. energy consumption
- Saleable schedule generation is **more** than saleable design energy on the basis of actual aux. energy consumption

Condition applies

NO

YES



Sharing of gain to beneficiaries:

Year	HPPC	UPPCL	RUVNL	PSPCL	Total
2020-21	376 MW	200 MW	104 MW	200 MW	880 MW
Gain for auxiliary consumption (Rs. Lakh)	42.727%	22.727%	11.818%	22.727%	100.000%
	53.33512	28.36974	14.75227	28.36974	124.82687



Original

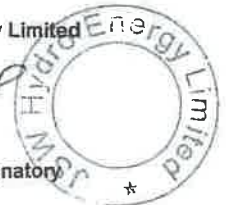
JSW Hydro Energy Limited
 (Formerly Himachal Baspa Power Company Ltd)
 Sholtu Colony,
 PO Tapri, Dist. Kinnaur
 Himachal Pradesh - 172104
 Phone: 9816507000, 9805002039
 Fax No. : 01786-261258
 CIN: U40101HP2014PLC000681
 PAN: AADCH3821L
 GSTIN : 02AADCH3821L1ZU

Credit Note

To:		Debit Note no.	JSWHEL/AUX/FY 2021-22/03	
PTC India Limited 2nd Floor, NBCC Tower 15 Bhikaji Cama Place New Delhi - 110 066 Fax: 91 11 41659142 PAN: AABCP7947F GSTIN: 07AABCP7947F1Z8		Date	16/06/2021	
		Customer Ref.	RDPPC	
		Source	Karcham Wangtoo HEP	
		PPA/LOI ref.	Power Purchase Agreement dated 21.03.2006 read with Settlement Agreement dated 05.08.2013 entered into between PTC & JSW Hydro Energy Ltd. (formerly HBPCL & JPVL) and CERC (Terms and Conditions of Tariff) Regulations, 2019	
Sl. No.	Particulars		Amount (In Rupees)	
1	Sharing of gain on account of aux consumption ((Regulation of (60) of CERC tariff regulation,2019))		14,75,227	
Total Invoice Amount				14,75,227
Amount (in Words)		Fourteen Lakh Seventy Five Thousand Two Hundred Twenty Seven Only		
Payment Account Details:				
Company Name:	JSW Hydro Energy Limited	Bank Name:	State Bank of India	
Branch:	CAG Branch, Neville House, Bellard Estate, Mumbai			
Account Number:	35276747811	IFSC Code:	SBIN0016376	

For JSW Hydro Energy Limited

Authorized Signatory



Enclosure:

Working sheet attached



Part of O.P. Jindal Group



Corp Office: JSW Centre
 Bandra Kuria Complex,
 Bandra (East),
 Mumbai - 400 051
 Phone: +91 22 4286 1000
 Fax : +91 22 4286 3000



Original

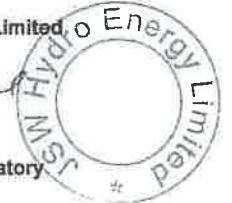
JSW Hydro Energy Limited
 (Formerly Himachal Baspa Power Company Ltd)
 Sholtu Colony,
 PO Tapri, Dist. Kinnaur
 Himachal Pradesh - 172104
 Phone: 9816507000 , 9805002039
 Fax No. : 01786-261258
 CIN: U40101HP2014PLC000681
 PAN: AADCH3821L
 GSTIN : 02AADCH3821L1ZU

Credit Note

To:		Debit Note no.	JSWHEL/AUX/FY 2021-22/01
PTC India Limited 2nd Floor, NBCC Tower 15 Bhikaji Cama Place New Delhi - 110 066 Fax: 91 11 41659142 PAN: AABCP7947F GSTIN: 07AABCP7947F1Z8		Date	16/06/2021
		Customer Ref.	HPPC
		Source	Karcham Wangtoo HEP
		PPA/LOI ref.	Power Purchase Agreement dated 21.03.2006 read with Settlement Agreement dated 05.08.2013 entered into between PTC & JSW Hydro Energy Ltd. (formerly HBPC & JPVL) and CERC (Terms and Conditions of Tariff Regulations, 2019)
SI. No.	Particulars		Amount (In Rupees)
1	Sharing of gain on account of aux consumption ((Regulation of (60) of CERC tariff regulation,2019))		53,33,512
Total Invoice Amount			53,33,512
Amount (in Words)		Fifty Three Lakh Thirty Three Thousand Five Hundred Twelve Only	
Payment Account Details:			
Company Name:	JSW Hydro Energy Limited	Bank Name:	State Bank of India
Branch:	CAG Branch, Neville House, Bellard Estate, Mumbai		
Account Number:	35276747811	IFSC Code:	SBIN0016376

For JSW Hydro Energy Limited

[Signature]
 Authorized Signatory



Enclosure: Working sheet attached





Original

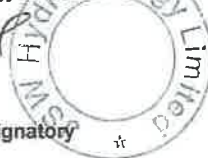
JSW Hydro Energy Limited
 (Formerly Himachal Baspa Power Company Ltd)
 Sholtu Colony,
 PO Tapri, Dist. Kinnaur
 Himachal Pradesh - 172104
 Phone: 9816507000, 9805002039
 Fax No. : 01786-261258
 CIN: U40101HP2014PLC000681
 PAN: AADCH3821L
 GSTIN : 02AADCH3821L1ZU

Credit Note

To:		Debit Note no.	JSWHEL/AUX/FY 2020-21/04
PTC India Limited 2nd Floor, NBCC Tower 15 Bhikaji Cama Place New Delhi - 110 066 Fax: 91 11 41659142 PAN: AABCP7947F GSTIN: 07AABCP7947F1Z8	Date	16/06/2021	
	Customer Ref.	PSPCL	
	Source	Karcham Wangtoo HEP	
	PPA/LOI ref.	Power Purchase Agreement dated 21.03.2006 read with Settlement Agreement dated 05.08.2013 entered into between PTC & JSW Hydro Energy Ltd. (formerly HBPC & JPVL) and CERC (Terms and Conditions of Tariff) Regulations, 2019	
SI. No.	Particulars		Amount (In Rupees)
1	Sharing of gain on account of aux consumption ((Regulation of (60) of CERC tariff regulation,2019))		28,36,974
Total Invoice Amount			28,36,974
Amount (in Words)	Twenty Eight Lakh Thirty Six Thousand Nine Hundred Seventy Four Only		
Payment Account Details:			
Company Name:	JSW Hydro Energy Limited	Bank Name:	State Bank of India
Branch:	CAG Branch, Neville House, Bellard Estate, Mumbai		
Account Number:	35276747811	IFSC Code:	SBIN0016376

For JSW Hydro Energy Limited

[Signature]
 Authorized Signatory



Enclosure: Working sheet attached



Part of O.P. Jindal Group



Corp Office: JSW Centre
 Bandra Kurla Complex,
 Bandra (East),
 Mumbai - 400 051
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Original

JSW Hydro Energy Limited
 (Formerly Himachal Baspa Power Company Ltd)
 Sholtu Colony,
 PO Tapri, Dist. Kinnaur
 Himachal Pradesh - 172104
 Phone: 9816507000, 9805002039
 Fax No. : 01786-261258
 CIN: U40101HP2014PLC000681
 PAN: AADCH3821L
 GSTIN : 02AADCH3821L1ZU

Credit Note

To:		Debit Note no.	JSWHEL/AUX/FY 2021-22/02
PTC India Limited 2nd Floor, NBCC Tower 15 Bhikaji Cama Place New Delhi - 110 066 Fax: 91 11 41659142 PAN: AABCP7947F GSTIN: 07AABCP7947F1Z8	Date	16/06/2021	
	Customer Ref.	UPPCL	
	Source	Karcham Wangtoo HEP	
	PPA/LOI ref.	Power Purchase Agreement dated 21.03.2006 read with Settlement Agreement dated 05.08.2013 entered into between PTC & JSW Hydro Energy Ltd. (formerly HBPC & JPVL) and CERC (Terms and Conditions of Tariff) Regulations, 2019	
SI. No.	Particulars		Amount (In Rupees)
1	Sharing of gain on account of aux consumption ((Regulation of (60) of CERC tariff regulation,2019))		28,36,974
Total Invoice Amount			28,36,974
Amount (in Words)	Twenty Eight Lakh Thirty Six Thousand Nine Hundred Seventy Four Only		
Payment Account Details:			
Company Name:	JSW Hydro Energy Limited	Bank Name:	State Bank of India
Branch:	CAG Branch, Neville House, Bellard Estate, Mumbai		
Account Number:	35276747811	IFSC Code:	SBIN0016376

For JSW Hydro Energy Limited

[Signature]
 Authorized Signatory

Enclosure: Working sheet attached



Part of O.P. Jindal Group



Corp Office: JSW Centre
 Bandra Kurla Complex,
 Bandra (East),
 Mumbai - 400 051
 Phone: +91 22 4286 1000
 Fax : +91 22 4286 3000

JSW Hydro Energy Ltd. (Karcham Wangtoo HEP)

Details of Gross generation, Auxiliary consumption and saleable generation for FY 2021-22

2021-22	Design Gross energy	Normative Aux Cons. @ 1.2%	Normative Free Power @ 12%	Saleable design energy (A)	Actual gross generation	Actual Aux Consumption	Saleable scheduled generation (B) (net of free power @12%) For 1045 MW from 11.7.21	Aux consumption (on design energy) with actual rate	Saleable design energy (C) (net of free power @12%) on the basis of actual Aux. consumption	{Saleable Scheduled generation - [(Saleable Scheduled Generation x (100- normative AEC in %)/(100- actual AEC in %)]} Pro-rata to 1000MW	50% of Gain in Aux Cons. @ Rs. 1.20 / kWh to be passed to Beneficiaries
April	237.62	2.85	28.17	206.60	127.09	1.1369	110.84	2.13	207.32	0.34	2.05
May	577.90	6.93	68.52	502.45	291.48	2.0177	254.73	4.00	505.38	1.30	7.81
June	614.28	7.37	72.83	534.08	656.26	4.3731	573.66	4.09	537.36	3.08	18.49
July	706.80	8.48	83.80	614.52	850.65	5.7010	743.56	4.74	618.26	3.80	22.77
August	706.80	8.48	83.80	614.52	821.69	5.5756	718.18	4.80	618.21	3.61	21.65
September	479.07	5.75	56.80	416.52	552.35	3.7836	482.74	3.28	418.99	2.40	14.37
October	150.37	1.80	17.83	130.74	301.05	2.1725	263.01	1.09	131.46	1.21	7.28
November	131.58	1.58	15.60	114.40	169.20	1.3276	147.73	1.03	114.95	0.59	3.55
December	157.63	1.89	18.69	137.05	130.84	1.1427	114.14	1.38	137.56	0.36	2.16
January	126.79	1.52	15.03	110.24	112.44	1.0776	98.00	1.22	110.54	0.23	1.37
February	103.95	1.25	12.32	90.38	90.55	0.9004	78.89	1.03	90.59	0.16	0.94
March	138.27	1.66	16.39	120.22	139.86	1.2758	121.95	1.26	120.62	0.34	2.03
Total	4,131.06	49.57	489.78	3,591.71	4,243.46	30.4846	3,707.42	30.04	3,611.24	17.41	104.48

A. Saleable design energy on the basis of normative auxiliary consumption **3,591.71**

B. Saleable scheduled generation **3,707.42**

C. Saleable design energy on the basis of actual auxiliary consumption **3,611.24**

Conditions as per First proviso to Regulation 60 (2) of CERC (Terms & Condition of Tariff) Regulations, 2019

i. Saleable schedule generation (B) is more than saleable design energy on the basis of normative aux. energy consumption (A), AND

Saleable schedule generation (B) is less than or equal to saleable design energy on the basis of actual aux. energy consumption (C)

ii. Saleable schedule generation (B) is more than saleable design energy on the basis of actual aux. energy consumption (C)



Sharing of gain to beneficiaries:

Year	HPPC	UPPCL	RUVNL	PSPCL	Total
2021-22	376 MW	200 MW	104 MW	200 MW	880 MW
	42.727%	22.727%	11.818%	22.727%	100.000%
Gain for auxiliary consumption (Rs. Lakh)	44.64213	23.74582	12.34782	23.74582	104.48159

Original



JSW Hydro Energy Limited
 (Formerly Himachal Baspa Power Company Ltd)
 Sholtu Colony,
 PO Tapri, Dist. Kinnaur
 Himachal Pradesh - 172104
 Phone: 9816507000 , 9805002039
 Fax No. : 01786-261258
 CIN: U40101HP2014PLC000681
 PAN: AADCH3821L
 GSTIN : 02AADCH3821L1ZU

Credit Note

To:		Debit Note no.	JSWHEL/AUX/FY 2022-23/01
PTC India Limited 2nd Floor, NBCC Tower 15 Bhikaji Cama Place New Delhi - 110 066 Fax: 91 11 41659142 PAN: AABCP7947F GSTIN: 07AABCP7947F1Z8	Date	7-May-22	
	Customer Ref.	HPPC	
	Source	Karcham Wangtoo HEP	
	PPA/LOI ref.	Power Purchase Agreement dated 21.03.2006 read with Settlement Agreement dated 05.08.2013 entered into between PTC & JSW Hydro Energy Ltd. (formerly HBPC & JPVL) and CERC (Terms and Conditions of Tariff Regulations, 2019)	
SI. No.	Particulars		Amount (In Rupees)
1	Sharing of gain on account of auxilliary consumption (In terms of Regulation 60 of CERC tariff regulation,2019)		44,64,213
Total Invoice Amount			44,64,213
Amount (in Words)	Forty Four Lakh Sixty Four Thousand Two Hundred Thirteen Only		
Payment Account Details:			
Bank Name:	IDBI Bank Ltd.		
Branch:	4th Floor, Videocon Tower, New Delhi-110055		
Account Number:	0127103000019354	IFSC Code:	IBKL0000127

For JSW Hydro Energy Limited

[Signature]
 Authorized Signatory



Enclosure: Working sheet attached



Corp Office: JSW Centre
 Bandra Kurla Complex,
 Bandra (East),
 Mumbai - 400 051
 Phone: +91 22 4286 1000
 Fax : +91 22 4286 3000



Original





JSW Hydro Energy Limited
(Formerly Himachal Baspa Power Company Ltd)
 Sholtu Colony,
 PO Tapri, Dist. Kinnaur
 Himachal Pradesh - 172104
 Phone: 9816507000 , 9805002039
 Fax No. : 01786-261258
 CIN: U40101HP2014PLC000681
 PAN: AADCH3821L
 GSTIN : 02AADCH3821L1ZU

Credit Note

To:		Debit Note no.	JSWHEL/AUX/FY 2022-23/02	
PTC India Limited 2nd Floor, NBCC Tower 15 Bhikaji Cama Place New Delhi - 110 066 Fax: 91 11 41659142 PAN: AABCP7947F GSTIN: 07AABCP7947F1Z8		Date	7-May-22	
		Customer Ref.	UPPCL	
		Source	Karcham Wangtoo HEP	
		PPA/LOI ref.	Power Purchase Agreement dated 21.03.2006 read with Settlement Agreement dated 05.08.2013 entered into between PTC & JSW Hydro Energy Ltd. (formerly HBPC & JPVL) and CERC (Terms and Conditions of Tariff) Regulations, 2019	
SI. No.	Particulars		Amount	(In Rupees)
1	Sharing of gain on account of auxilliary consumption (In terms of Regulation 60 of CERC tariff regulation,2019)		23,74,582	
Total Invoice Amount			23,74,582	
Amount (in Words)	Twenty Three Lakh Seventy Four Thousand Five Hundred Eighty Two Only			
Payment Account Details:				
Bank Name:	IDBI Bank Ltd.			
Branch:	4th Floor, Videocon Tower, New Delhi-110055			
Account Number:	0127103000019354	IFSC Code:	IBKL0000127	

For JSW Hydro Energy Limited


 Authorized Signatory 

Enclosure:

Working sheet attached





Original

246

JSW Hydro Energy Limited
(Formerly Himachal Baspa Power Company Ltd)
Sholtu Colony,
PO Tapri, Dist. Kinnaur
Himachal Pradesh - 172104
Phone: 9816507000 , 9805002039
Fax No. : 01786-261258
CIN: U40101HP2014PLC000681
PAN: AADCH3821L
GSTIN : 02AADCH3821L1ZU

Credit Note

To:		Debit Note no.	JSWHEL/AUX/FY 2022-23/03
PTC India Limited 2nd Floor, NBCC Tower 15 Bhikaji Cama Place New Delhi - 110 066 Fax: 91 11 41659142 PAN: AABCP7947F GSTIN: 07AABCP7947F1Z8	Date	7-May-22	
	Customer Ref.	RDPPC	
	Source	Karcham Wangtoo HEP	
	PPA/LOI ref.	Power Purchase Agreement dated 21.03.2006 read with Settlement Agreement dated 05.08.2013 entered into between PTC & JSW Hydro Energy Ltd. (formerly HBPC & JPVL) and CERC (Terms and Conditions of Tariff) Regulations, 2019	
SI. No.	Particulars		Amount (In Rupees)
1	Sharing of gain on account of auxilliary consumption (In terms of Regulation 60 of CERC tariff regulation,2019)		12,34,782
Total Invoice Amount			12,34,782
Amount (in Words)	Twelve Lakh Thirty Four Thousand Seven Hundred Eighty Two Only		
Payment Account Details:			
Bank Name:	IDBI Bank Ltd.		
Branch:	4th Floor, Videocon Tower, New Delhi-110055		
Account Number:	0127103000019354	IFSC Code:	IBKL0000127

For JSW Hydro Energy Limited


Authorized Signatory



Enclosure:

Working sheet attached

Corp Office: JSW Centre
Bandra Kurla Complex,
Bandra (East),
Mumbai - 400 051
Phone: +91 22 4286 1000
Fax : +91 22 4286 3000



Part of O.P. Jindal Group

Original



JSW Hydro Energy Limited
(Formerly Himachal Baspa Power Company Ltd)
 Sholtu Colony,
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 Himachal Pradesh - 172104
 Phone: 9816507000 , 9805002039
 Fax No. : 01786-261258
 CIN: U40101HP2014PLC000681
 PAN: AADCH3821L
 GSTIN : 02AADCH3821L1ZU

Credit Note

To:		Debit Note no.	JSWHEL/AUX/FY 2022-23/04	
PTC India Limited 2nd Floor, NBCC Tower 15 Bhikaji Cama Place New Delhi - 110 066 Fax: 91 11 41659142 PAN: AABCP7947F GSTIN: 07AABCP7947F1Z8		Date	7-May-22	
		Customer Ref.	PSPCL	
		Source	Karcham Wangtoo HEP	
		PPA/LOI ref.	Power Purchase Agreement dated 21.03.2006 read with Settlement Agreement dated 05.08.2013 entered into between PTC & JSW Hydro Energy Ltd. (formerly HBPC & JPVL) and CERC (Terms and Conditions of Tariff Regulations, 2019)	
SI. No.	Particulars		Amount (In Rupees)	
1	Sharing of gain on account of auxilliary consumption (In terms of Regulation 60 of CERC tariff regulation,2019)		23,74,582	
Total Invoice Amount			23,74,582	
Amount (in Words)	Twenty Three Lakh Seventy Four Thousand Five Hundred Eighty Two Only			
Payment Account Details:				
Bank Name:	IDBI Bank Ltd.			
Branch:	4th Floor, Videocon Tower, New Delhi-110055			
Account Number:	0127103000019354	IFSC Code:	IBKL0000127	

For JSW Hydro Energy Limited

(Signature)
 Authorized Signatory



Enclosure:

Working sheet attached



Part of O.P. Jindal Group

Corp Office: JSW Centre
 Bandra Kurla Complex,
 Bandra (East),
 Mumbai - 400 051
 Phone: +91 22 4286 1000
 Fax : +91 22 4286 3000

JSW Hydro Energy Ltd. (Karcham Wangtoo HEP)

Details of Gross generation, Auxiliary consumption and saleable generation for FY 2022-23

	Design Gross energy	Normative Aux Cons. @ 1.2%	Normative Free Power @ 12%	Saleable design energy (A)	Actual gross generation	Actual Aux Consumption	Actual Aux Consumption %	Saleable scheduled generation (B) (net of free power @12%) For 1045 MW from 11.7.21	Aux consumption (on design energy) with actual rate	Saleable design energy (C) (net of free power @12%) on the basis of actual Aux. consumption	{Saleable Scheduled generation - [(Saleable Scheduled Generation x (100- normative AEC in %)/(100- actual AEC in %))]} Pro-rata to 1000MW	50% of Gain in Aux Cons. @ Rs. 1.20 / kWh to be passed to Beneficiaries
												Rs. Lakh
2022-23				Mus			%			Mus		Rs. Lakh
April	237.62	2.85	28.17	206.60	222.07	1.57	0.71	194.04	1.68	207.77	0.92	5.53
May	577.90	6.93	68.52	502.45	410.87	2.73	0.67	359.16	3.84	505.54	1.85	11.10
June	614.28	7.37	72.83	534.08	541.52	3.51	0.65	473.45	3.99	537.46	2.51	15.07
July	706.80	8.48	83.80	614.52	835.80	5.40	0.65	730.75	4.57	618.43	3.90	23.37
August	706.80	8.48	83.80	614.52	790.69	4.97	0.63	691.43	4.44	618.56	3.81	22.83
September	479.07	5.75	56.80	416.52	609.15	3.83	0.63	532.69	3.01	419.26	2.93	17.60
October	150.37	1.80	17.83	130.74	271.26	1.83	0.68	237.09	1.02	131.52	1.20	7.18
November	131.58	1.58	15.60	114.40	160.99	0.94	0.58	140.84	0.77	115.21	0.84	5.01
December	157.63	1.89	18.69	137.05	122.54	0.87	0.71	107.07	1.12	137.82	0.51	3.04
January	126.79	1.52	15.03	110.24	106.13	0.73	0.69	92.74	0.88	110.88	0.45	2.72
February	103.95	1.25	12.32	90.38	97.17	0.63	0.65	84.95	0.67	90.95	0.45	2.71
March	138.27	1.66	16.39	120.22	116.66	0.77	0.66	101.98	0.92	120.96	0.53	3.17
Total	4,131.06	49.57	489.78	3,591.71	4,284.84	27.80	0.65	3,746.19	26.90	3,614.38	19.89	119.33

A. Saleable design energy on the basis of normative auxiliary consumption **3,591.71**

B. Saleable scheduled generation **3,746.19**

C. Saleable design energy on the basis of actual auxiliary consumption **3,614.38**

Conditions as per First proviso to Regulation 60 (2) of CERC (Terms & Condition of Tariff) Regulations, 2019

i. Saleable schedule generation (B) is more than saleable design energy on the basis of normative aux. energy consumption (A), AND

Saleable schedule generation (B) is less than or equal to saleable design energy on the basis of actual aux. energy consumption (C)

ii. Saleable schedule generation (B) is more than saleable design energy on the basis of actual aux. energy consumption (C)



Condition applies

NO

YES

Sharing of gain to beneficiaries:

Year	HPPC	UPPCL	RUVNL	PSPCL	Total
2022-23	376 MW	200 MW	104 MW	200 MW	880 MW
Gain for auxiliary consumption (Rs. Lakh)	42.727%	22.727%	11.818%	22.727%	100.000%
	50.98843	27.12151	14.10318	27.12151	119.33463



Original

JSW Hydro Energy Limited
 (Formerly Himachal Baspa Power Company Ltd)
 Sholtu Colony,
 PO Tapri, Dist. Kinnaur
 Himachal Pradesh - 172104
 Phone: 9816507000, 9805002039
 Fax No. : 01786-261258
 CIN: U40101HP2014PLC000681
 PAN: AADCH3821L
 GSTIN : 02AADCH3821L1ZU

Credit Note

To:		Debit Note no.	JSWHEL/AUX/FY 2024-25/03
PTC India Limited 2nd Floor, NBCC Tower 15 Bhikaji Cama Place New Delhi - 110 066 Fax: 91 11 41659142 PAN: AABCP7947F GSTIN: 07AABCP7947F1Z8	Date	24-May-24	
	Customer Ref.	RDPPC	
	Source	Karcham Wangtoo HEP	
	PPA/LOI ref.	Power Purchase Agreement dated 21.03.2006 read with Settlement Agreement dated 05.08.2013 entered into between PTC & JSW Hydro Energy Ltd. (formerly HBPC & JPVL) and CERC (Terms and Conditions of Tariff) Regulations, 2019	
Sl. No.	Particulars		Amount (In Rupees)
1	Sharing of gain on account of auxilliary consumption (In terms of Regulation 60 of CERC tariff regulation,2019)		14,10,318
Total Invoice Amount			14,10,318
Amount (in Words)	Fourteen Lakh Ten Thousand Three Hundred Eighteen Only		
Payment Account Details:			
Bank Name:	IDBI Bank Ltd.		
Branch:	4th Floor, Videocon Tower, New Delhi-110055		
Account Number:	0127103000019354	IFSC Code:	IBKL0000127

For JSW Hydro Energy Limited

Authorized Signatory

Enclosure:

Working sheet attached



Part of O.P. Jindal Group

Corp Office: JSW Centre
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 Bandra (East),
 Mumbai - 400 051
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 Fax : +91 22 4286 3000




Original

JSW Hydro Energy Limited
(Formerly Himachal Baspa Power Company Ltd)
 Sholtu Colony,
 PO Tapri, Dist. Kinnaur
 Himachal Pradesh - 172104
 Phone: 9816507000 , 9805002039
 Fax No. : 01786-261258
 CIN: U40101HP2014PLC000681
 PAN: AADCH3821L
 GSTIN : 02AADCH3821L1ZU

Credit Note

To:		Debit Note no.	JSWHEL/AUX/FY 2024-25/04
PTC India Limited 2nd Floor, NBCC Tower 15 Bhikaji Cama Place New Delhi - 110 066 Fax: 91 11 41659142 PAN: AABCP7947F GSTIN: 07AABCP7947F1Z8		Date	24-May-24
		Customer Ref.	PSPCL
		Source	Karcham Wangtoo HEP
		PPA/LOI ref.	Power Purchase Agreement dated 21.03.2006 read with Settlement Agreement dated 05.08.2013 entered into between PTC & JSW Hydro Energy Ltd. (formerly HBPC & JPV) and CERC (Terms and Conditions of Tariff) Regulations, 2019
SI. No.	Particulars		Amount (In Rupees)
1	Sharing of gain on account of auxilliary consumption (In terms of Regulation 60 of CERC tariff regulation,2019)		27,12,151
Total Invoice Amount			27,12,151
Amount (in Words)		Twenty Seven Lakh Twelve Thousand One Hundred Fifty One Only	
Payment Account Details:			
Bank Name:	IDBI Bank Ltd.		
Branch:	4th Floor, Videocon Tower, New Delhi-110055		
Account Number:	0127103000019354	IFSC Code:	IBKL0000127

For JSW Hydro Energy Limited

 Authorized Signatory

Enclosure: Working sheet attached



Corp Office: JSW Centre
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JSW Hydro Energy Limited
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 Sholtu Colony,
 PO Tapri, Dist. Kinnaur
 Himachal Pradesh - 172104
 Phone: 9816507000, 9805002039
 Fax No. : 01786-261258
 CIN: U40101HP2014PLC000681
 PAN: AADCH3821L
 GSTIN : 02AADCH3821L1ZU

Credit Note

To:		Debit Note no.	JSWHEL/AUX/FY 2024-25/02
PTC India Limited 2nd Floor, NBCC Tower 15 Bhikaji Cama Place New Delhi - 110 066 Fax: 91 11 41659142 PAN: AABCP7947F GSTIN: 07AABCP7947F1Z8	Date	24-May-24	
	Customer Ref.	UPPCL	
	Source	Karcham Wangtoo HEP	
	PPA/LOI ref.	Power Purchase Agreement dated 21.03.2006 read with Settlement Agreement dated 05.08.2013 entered into between PTC & JSW Hydro Energy Ltd. (formerly HBPC & JPVL) and CERC (Terms and Conditions of Tariff) Regulations, 2019	
SI. No.	Particulars		Amount (In Rupees)
1	Sharing of gain on account of auxilliary consumption (In terms of Regulation 60 of CERC tariff regulation,2019)		27,12,151
Total Invoice Amount			27,12,151
Amount (in Words)	Twenty Seven Lakh Twelve Thousand One Hundred Fifty One Only		
Payment Account Details:			
Bank Name:	IDBI Bank Ltd.		
Branch:	4th Floor, Videocon Tower, New Delhi-110055		
Account Number:	0127103000019354	IFSC Code:	IBKL0000127

For JSW Hydro Energy Limited

Authorized Signatory

Enclosure:

Working sheet attached



Part of O.P. Jindal Group

Corp Office: JSW Centre
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Original



JSW Hydro Energy Limited
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 PO Tapri, Dist. Kinnaur
 Himachal Pradesh - 172104
 Phone: 9816507000 , 9805002039
 Fax No. : 01786-261258
 CIN: U40101HP2014PLC000681
 PAN: AADCH3821L
 GSTIN : 02AADCH3821L1ZU

Credit Note

To:	Debit Note no.	JSWHEL/AUX/FY 2024-25/01
PTC India Limited 2nd Floor, NBCC Tower 15 Bhikaji Cama Place New Delhi - 110 066 Fax: 91 11 41659142 PAN: AABCP7947F GSTIN: 07AABCP7947F1Z8	Date	24-May-24
	Customer Ref.	HPPC
	Source	Karcham Wangtoo HEP
	PPA/LOI ref.	Power Purchase Agreement dated 21.03.2006 read with Settlement Agreement dated 05.08.2013 entered into between PTC & JSW Hydro Energy Ltd. (formerly HBPC & JPV) and CERC (Terms and Conditions of Tariff) Regulations, 2019

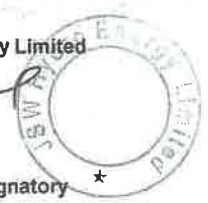
Sl. No.	Particulars	Amount (In Rupees)
1	Sharing of gain on account of auxilliary consumption (In terms of Regulation 60 of CERC tariff regulation,2019)	27,12,151
Total Invoice Amount		27,12,151
Amount (in Words)		Twenty Seven Lakh Twelve Thousand One Hundred Fifty One Only

Payment Account Details:

Bank Name:	IDBI Bank Ltd.
Branch:	4th Floor, Videocon Tower, New Delhi-110055
Account Number:	0127103000019354
IFSC Code:	IBKL0000127

For JSW Hydro Energy Limited

[Signature]
 Authorized Signatory



Enclosure: Working sheet attached






Original

JSW Hydro Energy Limited
 (Formerly Himachal Baspa Power Company Ltd)
 Sholtu Colony,
 PO Tapri, Dist. Kinnaur
 Himachal Pradesh - 172104
 Phone: 9816507000 , 9805002039
 Fax No. : 01786-261258
 CIN: U40101HP2014PLC000681
 PAN: AADCH3821L
 GSTIN : 02AADCH3821L1ZU

Credit Note

To:		Debit Note no.	JSWHEL/AUX/FY 2024-25/05
PTC India Limited 2nd Floor, NBCC Tower 15 Bhikaji Cama Place New Delhi - 110 066 Fax: 91 11 41659142 PAN: AABCP7947F GSTIN: 07AABCP7947F1Z8	Date	24-May-24	
	Customer Ref.	HPPC	
	Source	Karcham Wangtoo HEP	
	PPA/LOI ref.	Power Purchase Agreement dated 21.03.2006 read with Settlement Agreement dated 05.08.2013 entered into between PTC & JSW Hydro Energy Ltd. (formerly HBPL & JPVL) and CERC (Terms and Conditions of Tariff) Regulations, 2019	
SI. No.	Particulars		Amount (In Rupees)
1	Sharing of gain on account of auxilliary consumption (In terms of Regulation 60 of CERC tariff regulation,2019)		23,86,693
Total Invoice Amount			23,86,693
Amount (in Words)	Twenty Three Lakh Eighty Six Thousand Six Hundred Ninety Three Only		
Payment Account Details:			
Bank Name:	IDBI Bank Ltd.		
Branch:	4th Floor, Videocon Tower, New Delhi-110055		
Account Number:	0127103000019354	IFSC Code:	IBKL0000127

For JSW Hydro Energy Limited


 Authorized Signatory



Enclosure: Working sheet attached

JSW Hydro Energy Ltd. (Karcham Wangtoo HEP)

Details of Gross generation, Auxiliary consumption and saleable generation for FY 2023-24

2023-24	Design Gross energy	Normative Aux Cons. @ 1.2%	Normative Free Power @ 12% (as per CERC Tariff Regulations)	Saleable design energy (A)	Actual gross generation	Actual Aux Consumption	Saleable scheduled generation (B) (net of free power @12%) For 1045 MW from 11.7.21	Aux consumption (on design energy) with actual rate	Saleable design energy (C) (net of free power @12%) on the basis of actual Aux. consumption	{Saleable Scheduled generation - [(Saleable Scheduled Generation x (100- normative AEC in %)/(100- actual AEC in %))]} Pro-rata to 1000MW	50% of Gain in Aux Cons. @ Rs. 1.20 / kWh to be passed to Beneficiaries
April	237.62	2.85	28.17	206.60	124.28	0.8894	108.58	1.70	207.75	0.51	3.04
May	577.90	6.93	68.52	502.45	210.38	1.4324	183.87	3.93	505.45	0.92	5.52
June	614.28	7.37	72.83	534.08	543.92	3.5397	475.54	4.00	537.45	2.52	15.09
July	706.80	8.48	83.80	614.52	753.32	4.7681	658.72	4.47	618.53	3.60	21.58
August	706.80	8.48	83.80	614.52	829.09	5.2063	725.01	4.44	618.56	3.99	23.96
September	479.07	5.75	56.80	416.52	548.06	3.4848	479.22	3.05	419.23	2.60	15.62
October	150.37	1.80	17.83	130.74	226.27	1.5464	197.76	1.03	131.51	0.98	5.91
November	131.58	1.58	15.60	114.40	147.22	1.0800	128.60	0.97	115.01	0.58	3.47
December	157.63	1.89	18.69	137.05	112.85	0.7571	98.64	1.06	137.88	0.50	3.02
January	126.79	1.52	15.03	110.24	95.07	0.5573	83.17	0.74	111.01	0.49	2.95
February	103.95	1.25	12.32	90.38	85.38	0.4542	74.73	0.55	91.07	0.48	2.88
March	138.27	1.66	16.39	120.22	110.57	0.6551	96.72	0.82	121.06	0.57	3.39
Total	4,131.06	49.57	489.78	3,591.71	3,786.39	24.3709	3,310.58	26.76	3,614.52	17.74	106.44

A. Saleable design energy on the basis of normative auxiliary consumption **3,591.71**

B. Saleable scheduled generation **3,310.58** (Actual saleable energy is short of design saleable energy)

C. Saleable design energy on the basis of actual auxiliary consumption **3,614.52**

Conditions as per First proviso to Regulation 60 (2) of CERC (Terms & Condition of Tariff) Regulations, 2019

i. Saleable schedule generation (B) is **more** than saleable design energy on the basis of normative aux. energy consumption (A), **AND**

Saleable schedule generation (B) is **less** than or equal to saleable design energy on the basis of actual aux. energy consumption (C)

ii. Saleable schedule generation (B) is **more** than saleable design energy on the basis of actual aux. energy consumption (C)



Condition applies

NO

NO

Sharing of gain to beneficiaries:

Year	HPPC	UPPCL	RUVNL	PSPCL	Total
2023-24	376 MW	200 MW	104 MW	200 MW	880 MW
Gain for auxiliary consumption (Rs. Lakh)	42.727%	22.727%	11.818%	22.727%	100.000%
	Nil				

No gain/ loss to be shared for FY 2023-24, since the conditions for sharing of gain is not fulfilled as per Tariff Regulations, 2019

Qty in Million Units

Shortfall in Design energy occurred in FY	2018-19		CERC order working
	As per Design	Petition working	
Design Energy/ Actual generation	4131.06	3968.69	3968.69
Add: Qty that could have generated in place of units' outages			1.61
Maximum possible generation at generator terminal			3970.3
Auxiliary Energy consumption (AEC)	1.20%	Actual 0.667%	Actual 0.667%
	-49.57	-26.47	-26.48
Saleable energy at Ex-bus	4,081.49	3,942.22	3,943.82
DSM/ UI on account of grid requirement		-35.97	-35.97
Saleable scheduled energy	4,081.49	3,906.25	3,907.85
Free power to GoHP @12% of saleable energy (FEHS)			
Net Saleable scheduled energy	-489.78	-468.75	-468.94
	3,591.71	3,437.50	3,438.91
Shortfall with respect to saleable design energy		154.21	152.80

As per Design (1000MW)	2023-24		
	Actuals for 1045MW	Actuals for 1000MW	1000MW (Basis CERC order 4.2.20)
4131.06	3,786.17	3,691.94	3,691.94
			2.89
			3,694.83
1.20%	Actual 0.644%	Actual 0.644%	Actual 0.644%
-49.57	-24.37	-23.78	-23.79
4,081.49	3,761.80	3,668.17	3,671.04
	-14.50		Note 1
4,081.49	3,747.30	3,668.17	3,671.04
			Note 5
-489.78	-501.25	-440.18	-440.52
3,591.71	3,246.05	3,227.99	3,230.51
		363.72	361.20

= 3591.71 - 3230.51

Note

- 1: DSM energy is not excluded from the total generation, in view of the Reg 65(7) of CERC Tariff Regulation 2024. It was earlier excluded in calculations made for FY 2018-29, in terms of prevailing Tariff Regulation 2019.
- 2: Prorata energy loss due to unit tripping / outages is added back to the gross generation corresponding to 1000MW (3.02/1045*1000=2.89 Mus)
3. Working of shortfall is done based on the grounds considered in petition no. 184/MP/2019 & CERC Tariff Regulations 2024.
4. Installed capacity has been increased for KWHEP, wef 11.7.2021 from 1000MW to 1045 MW. However Design energy has not been revised for 1045 MW.
5. Free power: As per Expl. III to Reg. 76 of CERC tariff Regulations 2024



Annexure 6

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Details in respect of water flow during the year 2023-24

Date	Design inflow (Cumecs)	Mandatory down-stream release (Cumecs)	Design inflow available for generation (Cumecs)	Design Energy 95% availability in 90% dependable year (MUs)	Plant actual load/capacity (MW)	Actual inflow available (Cumecs)	Mandatory down-stream release (Cumecs)	Actual inflow available for generation (Cumecs)	Spillage (Cumecs)	Maximum possible generation based on actual inflow (0.40*0.024 available (MUs)	Actual generation at GT (MUs) (45MW power is sold in exchanges, after fulfilling LTAs)	Aux	Ex Bus generation (MUs)	Energy (shortfall)/ Excess (MUs)	Shortfall beyond control of power station (MUs)	Reasons 1	Shortfall within control of power station (MUs)	Reasons 2
1	2	3	4	5	6	7	8	9	10	11=Actual inflow for 1045MW Gen./0.40*0.024	12a (Cores To 1000 MW) Note 3	12b (Cores To 45 MW)	12c (Cores To 1045 MW)	14=12a-5 (Cores To 1000 MW)	15= 11-5	16	17=14-15	18
01-04-2023	104.10	7.38	96.72	5.78	1000	67.17	7.54	59.06		3.83	3.61			-2.17	-2.24			
02-04-2023	104.10	7.38	96.72	5.78	1000	68.26	7.55	63.79		3.83	3.85			-1.93	-1.95			
03-04-2023	104.10	7.38	96.72	5.78	1000	67.05	7.53	59.28		3.56	3.47			-2.31	-2.22			
04-04-2023	104.10	7.38	96.72	5.78	1000	68.38	7.53	60.90		3.65	3.61			-2.17	-2.13			
05-04-2023	104.10	7.38	96.72	5.78	1000	66.62	7.54	58.74		3.52	3.47			-2.31	-2.26			
06-04-2023	104.10	7.38	96.72	5.78	1000	67.79	7.55	60.29		3.62	3.54			-2.24	-2.16			
07-04-2023	104.10	7.38	96.72	5.78	1000	64.42	7.54	59.99		3.60	3.54			-2.24	-2.18			
08-04-2023	104.10	7.38	96.72	5.78	1000	65.83	7.55	60.02		3.60	3.53			-2.25	-2.18			
09-04-2023	104.10	7.38	96.72	5.78	1000	65.97	7.53	59.60		3.58	3.48			-2.30	-2.21			
10-04-2023	104.10	7.38	96.72	5.78	1000	69.10	7.54	59.46		3.57	3.45			-2.33	-2.21			
11-04-2023	111.90	7.38	104.52	6.25	1000	66.93	7.55	59.96		3.60	3.52			-2.72	-2.65			
12-04-2023	111.90	7.38	104.52	6.25	1000	71.71	7.54	61.56		3.69	3.62			-2.63	-2.55			
13-04-2023	111.90	7.38	104.52	6.25	1000	72.87	7.54	60.78		3.65	3.58			-2.67	-2.60			
14-04-2023	111.90	7.38	104.52	6.25	1000	76.05	7.53	67.14		4.03	3.97			-2.28	-2.22			
15-04-2023	111.90	7.38	104.52	6.25	1000	82.23	7.55	75.49		4.53	4.48			-1.77	-1.72			
16-04-2023	111.90	7.38	104.52	6.25	1000	85.36	7.56	78.13		4.69	4.63			-1.61	-1.56			
17-04-2023	111.90	7.38	104.52	6.25	1000	86.57	7.56	80.05		4.80	4.75			-1.50	-1.44			
18-04-2023	111.90	7.38	104.52	6.25	1000	92.29	7.55	81.61		4.90	4.86			-1.39	-1.35			
19-04-2023	111.90	7.38	104.52	6.25	1000	94.87	7.55	90.4		5.42	5.40			-0.85	-0.82			
20-04-2023	111.90	7.38	104.52	6.25	1000	96.65	7.55	108.36		6.50	6.46			0.22	0.25			
21-04-2023	203.70	7.38	196.32	11.73	1000	93.90	7.54	82.78		4.97	4.88			-6.85	-6.77			
22-04-2023	203.70	7.38	196.32	11.73	1000	84.74	7.53	80.20		4.81	4.86			-6.88	-6.92			
23-04-2023	203.70	7.38	196.32	11.73	1000	79.41	7.52	75.73		4.54	4.40			-7.34	-7.19			
24-04-2023	203.70	7.38	196.32	11.73	1000	78.72	7.51	69.89		4.19	4.12			-7.61	-7.54			
25-04-2023	203.70	7.38	196.32	11.73	1000	76.78	7.54	68.76		4.23	4.17			-7.66	-7.61			
26-04-2023	203.70	7.38	196.32	11.73	1000	79.69	7.55	71.15		4.27	4.19			-7.54	-7.47			
27-04-2023	203.70	7.38	196.32	11.73	1000	80.45	7.53	72.01		4.32	4.23			-7.51	-7.41			
28-04-2023	203.70	7.38	196.32	11.73	1000	78.47	7.53	71.60		4.30	4.25			-7.49	-7.44			
29-04-2023	203.70	7.38	196.32	11.73	1000	79.16	7.53	69.16		4.15	4.10			-7.63	-7.58			
30-04-2023	203.70	7.38	196.32	11.73	1000	80.06	7.53	73.53		4.41	4.36			-7.37	-7.32			
01-05-2023	274.60	7.38	267.22	15.97	1000	84.93	7.53	72.93		4.38	4.36			-11.61	-11.60			
02-05-2023	274.60	7.38	267.22	15.97	1000	84.92	7.54	81.58		4.89	4.89			-11.08	-11.08			
03-05-2023	274.60	7.38	267.22	15.97	1000	85.15	7.53	73.42		4.41	4.39			-11.57	-11.64			
04-05-2023	274.60	7.38	267.22	15.97	1000	83.41	7.54	76.83		4.61	4.60			-11.37	-11.36			
05-05-2023	274.60	7.38	267.22	15.97	1000	82.05	7.54	75.8		4.55	4.52			-11.45	-11.42			
06-05-2023	274.60	7.38	267.22	15.97	1000	81.10	7.54	74.69		4.48	4.46			-11.52	-11.49			
07-05-2023	274.60	7.38	267.22	15.97	1000	81.05	7.53	74.13		4.43	4.43			-11.54	-11.52			
08-05-2023	274.60	7.38	267.22	15.97	1000	79.32	7.52	72.19		4.33	4.32			-11.66	-11.64			
09-05-2023	274.60	7.38	267.22	15.97	1000	80.66	7.53	70.59		4.24	4.20			-11.78	-11.74			
10-05-2023	274.60	7.38	267.22	15.97	1000	76.62	7.53	70.65		4.24	4.21			-11.76	-11.73			
11-05-2023	287.30	7.38	279.92	16.73	1000	77.45	7.55	70.08		4.20	4.18			-12.55	-12.55			
12-05-2023	287.30	7.38	279.92	16.73	1000	81.05	7.55	70.78		4.25	4.26			-12.48	-12.48			
13-05-2023	287.30	7.38	279.92	16.73	1000	94.82	7.54	88.00		5.28	5.29			-11.44	-11.45			
14-05-2023	287.30	7.38	279.92	16.73	1000	100.03	7.53	89.30		5.36	5.37			-11.36	-11.37			
15-05-2023	287.30	7.38	279.92	16.73	1000	96.98	7.55	91.33		5.48	5.50			-11.23	-11.25			
16-05-2023	287.30	7.38	279.92	16.73	1000	100.37	7.54	92.27		5.54	5.54			-11.19	-11.19			
17-05-2023	287.30	7.38	279.92	16.73	1000	115.06	7.54	105.85		6.35	6.39			-10.34	-10.34			
18-05-2023	287.30	7.38	279.92	16.73	1000	124.27	7.56	116.01		6.96	7.00			-9.73	-9.77			
19-05-2023	287.30	7.38	279.92	16.73	1000	126.51	7.55	115.92		6.96	6.98			-9.75	-9.78			
20-05-2023	287.30	7.38	279.92	16.73	1000	136.42	7.54	127.96		7.68	7.73			-9.00	-9.05			
21-05-2023	655.30	7.38	279.92	22.80	1000	145.78	7.52	142.93		8.58	8.67			-14.13	-14.22			



Date	Design inflow (Cumecs)	Mandatory down-stream release (Cumecs)	Design inflow available for generation (Cumecs)	Design Energy 95% availability in 90% dependable year (Mus)	Plant actual load/capacity (MW)	Actual inflow available (Cumecs)	Mandatory down-stream release (Cumecs)	Actual inflow available for generation (Cumecs)	Spillage (Cumecs)	Maximum possible generation based on actual inflow (Mus)	Actual generation at GT (Mus)	Aux	Ex Bus generation (Mus)	Energy (shortfall)/ Excess (Mus)	Shortfall beyond control of power station (Mus)	Reasons 1	Shortfall within control of power station (Mus)	Reasons 2		
	2	3	4	5	6	7	8	9	10	11 = Actual inflow for 1045MW Gen./0.40*0.024	12a (Corres. To 1000 MW)	12b (Corres. To 45 MW)	12c (Corres. To 1045 MW)		13 = Total Actual Gen. - Actual Aux. Cons.	14 = 12a-5 (Corres. To 1000 MW)	15 = 11-5	16	17 = 14-15	18
11-07-2023	690.50	7.38	440.00	22.80	1045	1017.77	7.55	232.16	778.06	13.93	13.08	0.53	13.61	-22.80	-22.80	of 311 hours for all 4 units	-22.80			
12-07-2023	690.50	7.38	440.00	22.80	1045	1017.77	7.55	173.95	581.83	10.44	10.26	0.09	10.26	-9.72	-9.72		-9.72			
13-07-2023	690.50	7.38	440.00	22.80	1045	763.33	7.55	446.61	248.98	26.80	25.70	0.59	26.29	-12.54	-12.54		3.40		Unit 1 shutdown for 2 hrs	
14-07-2023	690.50	7.38	440.00	22.80	1045	703.14	7.55							2.90	2.90					
15-07-2023	690.50	7.38	440.00	22.80	1045	787.11	7.55	459.80	319.76	27.59	26.15	1.17	27.32	3.35	3.35		3.35			
16-07-2023	690.50	7.38	440.00	22.80	1045	1022.16	7.55	459.80	554.81	27.59	25.96	1.17	27.13	3.16	3.16		3.16			
17-07-2023	690.50	7.38	440.00	22.80	1045	1165.24	7.55	459.80	697.89	27.59	26.20	1.17	27.37	3.40	3.40		3.40			
18-07-2023	690.50	7.38	440.00	22.80	1045	1115.09	7.55	459.80	647.74	27.59	26.15	1.17	27.32	3.35	3.35		3.35			
19-07-2023	690.50	7.38	440.00	22.80	1045	1128.34	7.55	459.80	660.99	27.59	26.16	1.17	27.33	3.36	3.36		3.36			
20-07-2023	690.50	7.38	440.00	22.80	1045	1124.52	7.55	459.80	657.17	27.59	26.08	1.17	27.25	3.28	3.28		3.28			
21-07-2023	712.80	7.38	440.00	22.80	1045	1133.94	7.55	459.80	666.59	27.59	26.23	1.17	27.40	3.43	3.43		3.43			
22-07-2023	712.80	7.38	440.00	22.80	1045	1119.89	7.55	459.80	652.54	27.59	26.15	1.17	27.32	3.35	3.35		3.35			
23-07-2023	712.80	7.38	440.00	22.80	1045	955.84	7.55	459.80	488.49	27.59	26.14	1.17	27.31	3.34	3.34		3.34			
24-07-2023	712.80	7.38	440.00	22.80	1045	891.40	7.55	459.80	424.05	27.59	26.21	1.17	27.38	3.41	3.41		3.41			
25-07-2023	712.80	7.38	440.00	22.80	1045	868.80	7.55	459.80	401.45	25.06	26.16	1.17	27.33	3.36	3.36		3.36			
26-07-2023	712.80	7.38	440.00	22.80	1045	810.35	7.55	459.80	343.00	27.59	26.07	1.17	27.24	3.27	3.27		3.27		Unit 3 shutdown for 1 hrs	
27-07-2023	712.80	7.38	440.00	22.80	1045	771.84	7.55	459.80	304.49	27.59	25.90	1.17	27.07	3.10	3.10		3.10		Unit 3 shutdown for 1 hrs	
28-07-2023	712.80	7.38	440.00	22.80	1045	896.54	7.55	459.80	429.19	27.59	25.93	1.17	27.10	3.13	3.13		3.13		Unit 3 shutdown for 1 hrs	
29-07-2023	712.80	7.38	440.00	22.80	1045	912.42	7.55	459.80	445.07	27.59	26.05	1.17	27.23	3.25	3.25		3.25			
30-07-2023	712.80	7.38	440.00	22.80	1045	886.90	7.55	459.80	419.55	27.59	25.92	1.17	27.09	3.12	3.12		3.12			
31-07-2023	712.80	7.38	440.00	22.80	1045	818.87	7.55	459.80	351.52	27.59	26.13	1.17	27.31	3.33	3.33		3.33			
01-08-2023	684.80	7.38	440.00	22.80	1045	803.46	7.55	459.80	336.11	27.59	26.16	1.17	27.33	3.36	3.36		3.36			
02-08-2023	684.80	7.38	440.00	22.80	1045	807.23	7.55	459.80	339.88	27.59	26.18	1.17	27.35	3.38	3.38		3.38			
03-08-2023	684.80	7.38	440.00	22.80	1045	807.61	7.55	459.80	340.26	27.59	26.29	1.17	27.46	3.49	3.49		3.49			
04-08-2023	684.80	7.38	440.00	22.80	1045	817.55	7.55	459.80	350.20	27.59	26.22	1.17	27.39	3.42	3.42		3.42			
05-08-2023	684.80	7.38	440.00	22.80	1045	880.55	7.55	459.80	313.20	27.59	26.28	1.17	27.45	3.48	3.48		3.48			
06-08-2023	684.80	7.38	440.00	22.80	1045	804.58	7.55	459.80	337.23	27.59	26.96	0.41	27.37	4.16	4.16		4.16			
07-08-2023	684.80	7.38	440.00	22.80	1045	795.32	7.55	459.80	327.97	27.59	26.61	0.76	27.37	3.81	3.81		3.81			
08-08-2023	684.80	7.38	440.00	22.80	1045	764.31	7.55	459.80	296.96	27.59	26.27	1.17	27.44	3.47	3.47		3.47			
09-08-2023	684.80	7.38	440.00	22.80	1045	759.36	7.55	459.80	292.01	27.59	26.96	0.55	27.51	4.16	4.16		4.16			
10-08-2023	684.80	7.38	440.00	22.80	1045	753.91	7.55	459.80	286.56	27.59	26.60	0.85	27.44	3.80	3.80		3.80			
11-08-2023	703.90	7.38	440.00	22.80	1045	741.25	7.55	459.80	273.90	27.59	26.18	1.09	27.27	3.38	3.38		3.38			
12-08-2023	703.90	7.38	440.00	22.80	1045	722.26	7.55	459.80	254.91	27.59	26.71	0.38	27.09	3.91	3.91		4.13		Unit 3 shutdown for 1 hrs	
13-08-2023	703.90	7.38	440.00	22.80	1045	761.89	7.55	459.80	294.54	27.59	25.66	1.76	27.42	2.86	2.86		2.86			
14-08-2023	703.90	7.38	440.00	22.80	1045	794.48	7.55	459.80	327.13	27.59	25.72	1.68	27.41	2.92	2.92		2.92			
15-08-2023	703.90	7.38	440.00	22.80	1045	734.43	7.55	459.80	267.08	27.59	25.22	2.24	27.29	2.42	2.42		2.42			
16-08-2023	703.90	7.38	440.00	22.80	1045	684.39	7.55	459.80	217.04	27.59	26.80	0.50	27.30	4.00	4.00		4.00			
17-08-2023	703.90	7.38	440.00	22.80	1045	653.57	7.55	459.80	186.22	27.59	26.89	0.33	27.22	4.09	4.09		4.09			
18-08-2023	703.90	7.38	440.00	22.80	1045	640.14	7.55	459.80	172.79	27.59	26.99		26.99	4.19	4.19		4.19		Unit 1 & 2 shutdown 17 & 6 min respectively	
19-08-2023	703.90	7.38	440.00	22.80	1045	595.17	7.55	459.80	127.82	27.59	26.10	1.17	27.28	3.30	3.30		3.30			
20-08-2023	703.90	7.38	440.00	22.80	1045	608.16	7.55	459.80	140.81	27.59	26.22	1.17	27.40	3.42	3.42		3.42			
21-08-2023	703.90	7.38	440.00	22.80	1045	653.84	7.55	459.80	186.49	27.59	26.37	1.17	27.55	3.57	3.57		3.57			
22-08-2023	703.90	7.38	440.00	22.80	1045	697.24	7.55	459.80	229.89	27.59	25.93	1.41	27.34	3.13	3.13		3.13			
23-08-2023	703.90	7.38	440.00	22.80	1045	661.61	7.55	459.80	194.26	27.59	25.57	1.17	26.74	2.77	2.77		2.77			
24-08-2023	703.90	7.38	440.00	22.80	1045	582.38	7.55	459.80	115.03	27.59	26.19	1.17	27.37	3.39	3.39		3.39			

Date	Design inflow (Cumecs)	Mandatory down-stream release (Cumecs)	Design inflow available for generation (Cumecs)	Design Energy 95% availability in 90% dependable year (Mus)	Plant actual load/capacity (MW)	Actual inflow available (Cumecs)	Mandatory down-stream release (Cumecs)	Actual inflow for generation (Cumecs)	Spillage (Cumecs)	Maximum possible generation based on actual inflow available (Mus)	Actual generation at GT (Mus) (45MW power is sold in exchanges, after fulfilling LTAs)	Aux	Ex Bus generation (Mus)	Energy (shortfall)/ Excess (Mus)	Shortfall beyond control of power station (Mus)	Reasons 1	Shortfall within control of power station (Mus)	Reasons 2		
1	2	3	4	5	6	7	8	9	10	11 = Actual inflow for 1045MW Gen. /0.40*0.024	12a (Corres. To 1000 MW)	12b (Corres. To 45 MW)	12c (Corres. To 1045 MW)	13 = Total Actual Gen. Actual Aux. Cons.	14 = 12a-5 (Corres. To 1000 MW)	15 = 11-5	16	17 = 14-15	18	
25-08-2023	518.20	7.38	440.00	22.80	1045	533.78	7.55	459.80	66.43	27.59	26.50	0.94	27.44	27.26	3.70	3.70				
26-08-2023	518.20	7.38	440.00	22.80	1045	469.22	7.55	459.80		27.59	23.04	1.17	26.21	26.04	2.24	2.24				
27-08-2023	518.20	7.38	440.00	22.80	1045	438.46	7.71	431.12		25.87	23.93	1.30	25.23	25.09	1.13	1.36		-0.23	Unit 4 shutdown for 2 hrs	
28-08-2023	518.20	7.38	440.00	22.80	1045	422.19	7.56	418.29		25.10	23.14	1.39	24.54	24.38	0.34	0.51		-0.17	Unit 4 shutdown for 1 hrs	
29-08-2023	518.20	7.38	440.00	22.80	1045	402.71	7.55	402.59		24.16	22.40	1.17	23.58	23.44	-0.40	-0.31		-0.09	Unit 1 & 2	
30-08-2023	518.20	7.38	440.00	22.80	1045	384.53	7.56	374.99		22.50	22.46		22.46	22.31	-0.34	-0.30		-0.04	Managing reservoir levels for peak hours generation	
31-08-2023	518.20	7.38	440.00	22.80	1045	404.30	7.51	394.84		23.69	23.51	0.07	23.59	23.44	0.71	0.89		-0.18		
01-09-2023	348.20	7.38	340.82	20.37	1000	439.16	7.58	428.46		25.71	23.08	0.32	25.40	25.25	4.71	4.71				
02-09-2023	348.20	7.38	340.82	20.37	1000	465.93	7.85	449.80		27.59	23.70	0.93	26.62	26.42	5.33	5.33				
03-09-2023	348.20	7.38	340.82	20.37	1000	456.95	7.54	459.84		26.99	25.95	0.89	26.84	26.67	5.58	5.58				
04-09-2023	348.20	7.38	340.82	20.37	1000	422.15	7.52	415.52		24.93	24.29	0.29	24.58	24.44	3.92	3.92				
05-09-2023	348.20	7.38	340.82	20.37	1000	389.56	7.53	387.72		23.26	23.18	0.14	23.03	23.03	2.81	2.81				
06-09-2023	348.20	7.38	340.82	20.37	1000	348.75	7.53	343.31		20.60	20.50	0.12	20.38	20.38	0.13	0.13		0.08	Managing reservoir levels for peak hours generation	
07-09-2023	348.20	7.38	340.82	20.37	1000	328.19	7.50	319.93		19.20	19.28	0.12	19.28	19.16	-1.09	-1.17		0.15	Managing reservoir levels for peak hours generation	
08-09-2023	348.20	7.38	340.82	20.37	1000	319.56	7.50	303.69		18.22	18.37	0.09	18.37	18.29	-2.00	-2.15		-0.11	Unit 2 shutdown for 1 hrs	
09-09-2023	348.20	7.38	340.82	20.37	1000	325.65	7.48	321.21		19.27	19.56	0.12	19.56	19.44	-0.81	-1.10		0.29		
10-09-2023	348.20	7.38	340.82	20.37	1000	329.81	7.49	321.66		19.30	19.48	0.13	19.48	19.35	-0.90	-0.79		-0.11		
11-09-2023	295.40	7.38	288.02	17.21	1000	340.20	7.49	328.69		19.72	19.81	0.12	19.81	19.69	2.59	2.59				
12-09-2023	295.40	7.38	288.02	17.21	1000	361.70	7.52	352.43		21.15	21.18	0.13	21.18	21.05	3.96	3.96				
13-09-2023	295.40	7.38	288.02	17.21	1000	379.69	7.51	377.19		22.63	22.58	0.14	22.58	22.43	5.36	5.36				
14-09-2023	295.40	7.38	288.02	17.21	1000	393.53	7.51	390.34		23.42	21.86	1.58	23.44	23.30	4.65	4.65				
15-09-2023	295.40	7.38	288.02	17.21	1000	388.50	7.50	377.95		22.68	21.21	1.52	22.73	22.59	4.00	4.00				
16-09-2023	295.40	7.38	288.02	17.21	1000	356.87	7.56	353.22		21.19	19.68	1.49	21.17	21.04	2.47	2.47				
17-09-2023	295.40	7.38	288.02	17.21	1000	316.98	7.56	203.35	106.07	12.20	6.33	0.47	6.80	6.77	-10.89	-10.89				
18-09-2023	295.40	7.38	288.02	17.21	1000	322.30	7.62	309.66		18.58	17.36	1.28	18.64	18.52	0.15	0.15				
19-09-2023	295.40	7.38	288.02	17.21	1000	295.07	7.49	293.12		17.59	16.70	1.22	17.91	17.80	-0.52	-0.52				
20-09-2023	295.40	7.38	288.02	17.21	1000	277.56	7.51	271.78		16.31	15.47	1.23	16.70	16.58	-1.74	-1.74				
21-09-2023	180.10	7.38	172.72	10.32	1000	275.40	7.51	262.89		15.77	15.01	1.13	16.14	16.03	4.69	4.69				
22-09-2023	180.10	7.38	172.72	10.32	1000	267.24	7.55	254.33		15.26	14.63	1.03	15.66	15.56	4.31	4.31				
23-09-2023	180.10	7.38	172.72	10.32	1000	251.19	7.50	256.20		15.37	14.67	1.06	15.74	15.60	4.35	4.35				
24-09-2023	180.10	7.38	172.72	10.32	1000	238.13	7.52	223.09		13.39	12.55	1.05	13.60	13.52	2.23	2.23				
25-09-2023	180.10	7.38	172.72	10.32	1000	219.52	7.52	218.45		13.11	12.47	0.88	13.35	13.27	2.15	2.15				
26-09-2023	180.10	7.38	172.72	10.32	1000	209.95	7.51	210.80		12.65	12.03	0.88	12.91	12.82	1.71	1.71				
27-09-2023	180.10	7.38	172.72	10.32	1000	204.27	7.51	192.08		11.52	10.94	0.83	11.77	11.68	0.61	0.61				
28-09-2023	180.10	7.38	172.72	10.32	1000	197.58	7.52	184.99		11.10	10.60	0.72	11.52	11.24	0.27	0.27				
29-09-2023	180.10	7.38	172.72	10.32	1000	191.29	7.53	189.54		11.37	10.84	0.76	11.60	11.54	0.51	0.51				
30-09-2023	180.10	7.38	172.72	10.32	1000	184.08	7.52	183.61		11.02	11.17	0.76	11.17	11.09	0.85	0.85				
01-10-2023	16.30	7.38	108.92	6.51	1000	167.77	7.51	160.04		9.60	9.70	0.06	9.70	9.64	3.19	3.19		Note 4	Unit 1 shutdown for 1 hrs	
02-10-2023	16.30	7.38	108.92	6.51	1000	160.49	7.51	155.24		9.31	9.36	0.07	9.36	9.29	2.84	2.84				
03-10-2023	16.30	7.38	108.92	6.51	1000	161.42	7.52	149.24		8.95	9.06	0.06	9.06	9.00	2.55	2.55				

Date	Design inflow (Cumecs)	Mandatory stream release (Cumecs)	Design inflow available for generation (Cumecs)	Design Energy availability in 95% dependability year (Mus)	Plant actual load/capacity (MW)	Actual inflow available (Cumecs)	Mandatory stream release (Cumecs)	Actual inflow available for generation (Cumecs)	Spillage (Cumecs)	Maximum possible generation based on actual inflow available (Mus)	Actual generation at GT (Mus)	Aux	Ex Bus generation (Mus)	Energy (shortfall)/ Excess (Mus)	Shortfall beyond control of power station (Mus)	Reasons 1	Shortfall within control of power station (Mus)	Reasons 2	
	2	3	4	5	6	7	8	9	10	11 = Actual inflow for 1045MW Gen./0.40*0.024	12a (Cores To 1000 MW) Note 3	12b (Cores To 1045 MW) Note 3	12c (Cores To 1045 MW)	13 = Total Actual Gen. - Actual Aux. 1000 MW	14 = 12a-5 (Cores To 1000 MW)	15 = 11-5	16	17 = 14-15	18
01-10-2023	116.30	7.38	108.92	6.51	1000	152.02	7.52	146.97		8.82	8.97		0.06	8.91	2.46	2.46		Note 4	Unit 1 shutdown for 12 Min
05-10-2023	116.30	7.38	108.92	6.51	1000	151.45	7.53	136.75		8.21	8.24		0.05	8.19	1.73	1.73			
06-10-2023	116.30	7.38	108.92	6.51	1000	154.13	7.53	132.23		7.93	8.05		0.06	8.00	1.54	1.54			
07-10-2023	116.30	7.38	108.92	6.51	1000	155.16	7.56	152.24		9.00	9.21		0.07	9.15	2.70	2.70			
08-10-2023	116.30	7.38	108.92	6.51	1000	149.56	7.56	150.00		8.71	8.68		0.06	8.95	2.50	2.50			
09-10-2023	116.30	7.38	108.92	6.51	1000	148.92	7.55	145.16		8.15	8.12		0.07	8.68	2.17	2.17			
10-10-2023	116.30	7.38	108.92	6.51	1000	147.28	7.57	135.84		8.21	8.19		0.05	8.07	1.61	1.61			
11-10-2023	83.60	7.38	76.22	4.56	1000	140.57	7.56	136.80		8.21	8.19		0.06	8.13	3.63	3.63			
12-10-2023	83.60	7.38	76.22	4.56	1000	136.89	7.55	127.42		7.65	7.66		0.05	7.66	3.11	3.11			
13-10-2023	83.60	7.38	76.22	4.56	1000	133.10	7.53	124.33		7.46	7.48		0.05	7.43	2.92	2.92			
14-10-2023	83.60	7.38	76.22	4.56	1000	132.29	7.56	115.74		6.94	6.97		0.05	6.92	2.42	2.42			
15-10-2023	83.60	7.38	76.22	4.56	1000	128.30	7.54	118.96		7.14	7.16		0.05	7.12	2.61	2.61			
16-10-2023	83.60	7.38	76.22	4.56	1000	126.42	7.56	116.01		6.96	7.00		0.04	6.95	2.44	2.44			
17-10-2023	83.60	7.38	76.22	4.56	1000	120.96	7.55	113.83		7.10	7.13		0.05	7.08	2.57	2.57			
18-10-2023	83.60	7.38	76.22	4.56	1000	118.58	7.58	113.09		6.83	6.88		0.04	6.84	2.33	2.33			
19-10-2023	83.60	7.38	76.22	4.56	1000	116.74	7.58	108.11		6.49	6.53		0.04	6.49	1.98	1.98			
20-10-2023	83.60	7.38	76.22	4.56	1000	110.77	7.58	103.62		6.22	6.25		0.04	6.21	2.64	2.64			
21-10-2023	67.80	7.38	60.42	3.61	1000	110.88	7.55	104.42		6.27	6.31		0.04	6.27	2.70	2.70			
22-10-2023	67.80	7.38	60.42	3.61	1000	110.36	7.58	101.78		6.11	6.14		0.04	6.10	2.53	2.53			
23-10-2023	67.80	7.38	60.42	3.61	1000	110.83	7.59	102.53		6.15	6.17		0.04	6.12	2.56	2.56			
24-10-2023	67.80	7.38	60.42	3.61	1000	106.68	7.58	102.04		6.12	6.17		0.04	6.13	2.56	2.56		Note 4	Unit 3 shutdown for 26 Min
25-10-2023	67.80	7.38	60.42	3.61	1000	107.10	7.56	101.77		6.11	6.13		0.04	6.10	2.52	2.52			
26-10-2023	67.80	7.38	60.42	3.61	1000	106.48	7.55	96.19		5.77	5.77		0.04	5.73	2.16	2.16			
27-10-2023	67.80	7.38	60.42	3.61	1000	105.35	7.56	96.89		5.81	5.84		0.05	5.79	2.22	2.22			
28-10-2023	67.80	7.38	60.42	3.61	1000	104.06	7.56	94.89		5.69	5.72		0.05	5.72	2.11	2.11			
29-10-2023	67.80	7.38	60.42	3.61	1000	104.71	7.56	94.92		5.70	5.72		0.05	5.67	2.11	2.11			
30-10-2023	67.80	7.38	60.42	3.61	1000	103.52	7.56	96.57		5.79	5.83		0.05	5.78	2.22	2.22			
01-11-2023	63.70	7.38	56.32	3.37	1000	100.90	7.56	96.57		5.82	5.82		0.04	5.78	2.45	2.45			
02-11-2023	63.70	7.38	56.32	3.37	1000	100.83	7.59	96.94		5.82	5.83		0.05	5.79	2.47	2.47			
03-11-2023	63.70	7.38	56.32	3.37	1000	100.17	7.58	93.63		5.62	5.63		0.05	5.59	2.26	2.26			
04-11-2023	63.70	7.38	56.32	3.37	1000	99.75	7.56	92.14		5.53	5.53		0.04	5.48	2.16	2.16			
05-11-2023	63.70	7.38	56.32	3.37	1000	98.14	7.57	85.65		5.14	5.18		0.04	5.14	1.81	1.81			
06-11-2023	63.70	7.38	56.32	3.37	1000	96.64	7.58	85.60		5.14	5.17		0.04	5.13	1.81	1.81			
07-11-2023	63.70	7.38	56.32	3.37	1000	96.42	7.56	87.19		5.23	5.27		0.04	5.23	1.91	1.91			
08-11-2023	63.70	7.38	56.32	3.37	1000	96.02	7.56	87.14		5.23	5.26		0.04	5.23	1.90	1.90			
09-11-2023	63.70	7.38	56.32	3.37	1000	94.09	7.56	88.66		5.32	5.41		0.04	5.37	2.05	2.05			
10-11-2023	63.70	7.38	56.32	3.37	1000	93.69	7.55	86.34		5.18	5.27		0.04	5.18	1.90	1.90			
11-11-2023	71.40	7.38	64.02	3.83	1000	94.89	7.54	84.71		5.08	5.16		0.04	5.12	1.33	1.33			
12-11-2023	71.40	7.38	64.02	3.83	1000	93.33	7.55	85.83		5.15	5.24		0.04	5.21	1.42	1.42			
13-11-2023	71.40	7.38	64.02	3.83	1000	92.39	7.57	85.63		5.14	5.23		0.04	5.19	1.41	1.41			
14-11-2023	71.40	7.38	64.02	3.83	1000	91.49	7.56	86.83		5.21	5.20		0.03	5.17	1.38	1.38			
15-11-2023	71.40	7.38	64.02	3.83	1000	88.89	7.56	88.89		5.33	5.01		0.04	4.97	1.19	1.19			
16-11-2023	71.40	7.38	64.02	3.83	1000	88.00	7.51	81.67		4.90	4.89		0.04	4.85	1.06	1.06			
17-11-2023	71.40	7.38	64.02	3.83	1000	86.99	7.54	81.16		4.87	4.82		0.03	4.79	1.00	1.00			
18-11-2023	71.40	7.38	64.02	3.83	1000	85.43	7.55	78.36		4.70	4.62		0.03	4.59	0.79	0.79			
19-11-2023	71.40	7.38	64.02	3.83	1000	87.51	7.56	77.59		4.66	4.57		0.03	4.53	0.74	0.74			
20-11-2023	71.40	7.38	64.02	3.83	1000	84.40	7.55	73.72		4.42	4.41		0.03	4.38	0.59	0.59			
21-11-2023	107.20	7.38	99.82	5.97	1000	83.18	7.54	75.83		4.55	4.51		0.03	4.47	-1.46	-1.42			
22-11-2023	107.20	7.38	99.82	5.97	1000	83.85	7.54	80.29		4.82	4.76		0.03	4.73	-1.21	-1.21		Note 4	Unit 4 shutdown for 15 Min



Date	Design inflow (Cumecs)	Mandatory down-stream release (Cumecs)	Design inflow available for generation (Cumecs)	Design Energy availability in 90% dependable year (Mus)	Plant actual load/capacity (MW)	Actual inflow available (Cumecs)	Mandatory down-stream release (Cumecs)	Actual inflow available for generation (Cumecs)	Spillage (Cumecs)	Maximum possible generation based on actual inflow (Mus)	Actual generation at GT (Mus) after fulfilling LTAs	Aux	Ex Bus generation (Mus)	Energy (shortfall)/ Excess (Mus)	Shortfall beyond control of power station (Mus)	Reasons_1	Shortfall within control of power station (Mus)	Reasons_2	
	2	3	4	5	6	7	8	9	10	11 = Actual inflow for 1045MW Gen./0.40*0.024	12a (Cones. To 1000 MW)	12b (Cones. To 1045 MW) Note_3	12c (Cones. To 1045 MW)	13 = Total Actual Gen. Actual Aux	14 = 12a-5 (Cores To 1000 MW)	15 = 11-5	16	17 = 14-15	18
23-11-2023	107.2	7.38	99.82	5.97	1000	81.20	7.55	78.01	10	4.68	4.64	12c	4.60	-1.33	-1.29	Less inflow against design inflow	-0.04		
24-11-2023	107.2	7.38	99.82	5.97	1000	83.13	7.55	75.71		4.54	4.44		4.41	-1.53	-1.42		-0.10		
25-11-2023	107.2	7.38	99.82	5.97	1000	80.35	7.53	73.71		4.42	4.31		4.28	-1.65	-1.54		-0.11		
26-11-2023	107.2	7.38	99.82	5.97	1000	79.90	7.53	74.11		4.45	4.33		4.30	-1.64	-1.52		-0.12		
27-11-2023	107.2	7.38	99.82	5.97	1000	83.22	7.55	72.76		4.37	4.26		4.23	-1.71	-1.60		-0.11		
28-11-2023	107.2	7.38	99.82	5.97	1000	80.48	7.56	69.94		4.23	4.09		4.06	-1.88	-1.77		-0.11		
29-11-2023	107.2	7.38	99.82	5.97	1000	83.67	7.55	70.48		4.23	4.12		4.09	-1.85	-1.74		-0.11		
30-11-2023	107.2	7.38	99.82	5.97	1000	80.61	7.54	72.20		4.33	4.23		4.23	-1.74	-1.63		-0.11		
01-12-2023	98.7	7.38	91.32	5.46	1000	80.45	7.54	76.34		4.58	4.46		4.43	-1.00	-0.88		-0.12		
02-12-2023	98.7	7.38	91.32	5.46	1000	79.29	7.54	72.41		4.34	4.21		4.18	-1.25	-1.11		-0.13		
03-12-2023	98.7	7.38	91.32	5.46	1000	76.11	7.54	71.93		4.32	4.25		4.22	-1.21	-1.14		-0.13		
04-12-2023	98.7	7.38	91.32	5.46	1000	73.13	7.54	69.96		4.20	4.13		4.10	-1.33	-1.26		-0.17		
05-12-2023	98.7	7.38	91.32	5.46	1000	74.75	7.56	71.27		4.06	3.89		3.87	-1.57	-1.40		-0.10		
06-12-2023	98.7	7.38	91.32	5.46	1000	74.45	7.56	67.69		3.75	3.62		3.59	-1.84	-1.71		-0.13		
07-12-2023	98.7	7.38	91.32	5.46	1000	74.57	7.54	62.47		3.61	3.46		3.43	-2.00	-1.85		-0.16		
08-12-2023	98.7	7.38	91.32	5.46	1000	73.30	7.55	60.22		3.52	3.37		3.36	-2.08	-1.94		-0.15		
09-12-2023	98.7	7.38	91.32	5.46	1000	71.05	7.56	58.71		3.70	3.53		3.51	-1.93	-1.76		-0.16	Managing reservoir levels for peak hours generation	
10-12-2023	98.7	7.38	91.32	5.46	1000	70.90	7.53	61.61		3.67	3.53		3.50	-1.59	-1.46		-0.14		
11-12-2023	93.1	7.38	85.72	5.12	1000	69.82	7.54	61.11		3.61	3.54		3.51	-1.59	-1.51		-0.07		
12-12-2023	93.1	7.38	85.72	5.12	1000	70.83	7.54	60.14		3.74	3.60		3.58	-1.52	-1.38		-0.14		
13-12-2023	93.1	7.38	85.72	5.12	1000	69.59	7.52	62.37		3.82	3.67		3.65	-1.45	-1.31		-0.14		
14-12-2023	93.1	7.38	85.72	5.12	1000	68.46	7.54	63.61		3.76	3.67		3.64	-1.46	-1.36		-0.09		
15-12-2023	93.1	7.38	85.72	5.12	1000	71.01	7.54	59.26		3.56	3.46		3.44	-1.66	-1.57		-0.09		
16-12-2023	93.1	7.38	85.72	5.12	1000	69.90	7.53	62.05		3.72	3.63		3.60	-1.50	-1.40		-0.10		
17-12-2023	93.1	7.38	85.72	5.12	1000	69.35	7.54	62.17		3.73	3.63		3.60	-1.50	-1.39		-0.10		
18-12-2023	93.1	7.38	85.72	5.12	1000	69.35	7.54	61.79		3.71	3.61		3.59	-1.51	-1.42		-0.10		
19-12-2023	93.1	7.38	85.72	5.12	1000	66.53	7.54	60.82		3.65	3.57		3.55	-1.55	-1.47		-0.08		
20-12-2023	93.1	7.38	85.72	5.12	1000	65.31	7.53	60.82		3.64	3.54		3.52	-1.17	-1.07		-0.10		
21-12-2023	86.2	7.38	78.82	4.71	1000	65.31	7.55	60.60		3.64	3.54		3.52	-1.17	-1.07		-0.10		
22-12-2023	86.2	7.38	78.82	4.71	1000	65.81	7.54	58.41		3.50	3.38		3.35	-1.33	-1.21		-0.13		
23-12-2023	86.2	7.38	78.82	4.71	1000	65.99	7.55	56.83		3.41	3.35		3.33	-1.36	-1.30		-0.06		
24-12-2023	86.2	7.38	78.82	4.71	1000	67.70	7.56	56.06		3.36	3.29		3.27	-1.42	-1.35		-0.07		
25-12-2023	86.2	7.38	78.82	4.71	1000	68.30	7.53	57.64		3.46	3.39		3.37	-1.32	-1.25		-0.07		
26-12-2023	86.2	7.38	78.82	4.71	1000	66.97	7.52	57.36		3.44	3.38		3.36	-1.33	-1.27		-0.06		
27-12-2023	86.2	7.38	78.82	4.71	1000	66.28	7.55	60.20		3.61	3.57		3.55	-1.14	-1.10		-0.04		
28-12-2023	86.2	7.38	78.82	4.71	1000	65.58	7.55	61.15		3.67	3.62		3.60	-1.09	-1.04		-0.05		
29-12-2023	86.2	7.38	78.82	4.71	1000	65.48	7.55	59.02		3.54	3.47		3.45	-1.24	-1.24		-0.05	Note 4	
																			Unit 2 shutdown for 15 Min
30-12-2023	86.2	7.38	78.82	4.71	1000	64.92	7.54	58.90		3.53	3.48		3.46	-1.23	-1.18		-0.05		
31-12-2023	86.2	7.38	78.82	4.71	1000	64.41	7.54	56.83		3.41	3.37		3.35	-1.34	-1.30		-0.04		
01-01-2024	80.5	7.38	73.12	4.37	1000	63.74	7.55	56.05		3.36	3.32		3.30	-1.05	-1.01		-0.04		
02-01-2024	80.5	7.38	73.12	4.37	1000	63.79	7.55	58.56		3.51	3.45		3.43	-0.92	-0.86		-0.06		
03-01-2024	80.5	7.38	73.12	4.37	1000	63.38	7.55	57.96		3.48	3.39		3.37	-0.98	-0.89		-0.09	Managing reservoir levels for peak hours generation	
04-01-2024	80.5	7.38	73.12	4.37	1000	63.96	7.56	56.07		3.36	3.25		3.22	-1.12	-1.01		-0.11		
05-01-2024	80.5	7.38	73.12	4.37	1000	62.37	7.55	54.72		3.28	3.19		3.17	-1.18	-1.09		-0.09		
06-01-2024	80.5	7.38	73.12	4.37	1000	62.16	7.55	54.61		3.28	3.17		3.16	-1.20	-1.09		-0.10		
07-01-2024	80.5	7.38	73.12	4.37	1000	60.04	7.53	54.54		3.27	3.17		3.15	-1.20	-1.10		-0.10		
08-01-2024	80.5	7.38	73.12	4.37	1000	62.53	7.55	53.56		3.21	3.11		3.09	-1.26	-1.16		-0.10		
09-01-2024	80.5	7.38	73.12	4.37	1000	61.20	7.57	51.35		3.08	2.98		2.97	-1.39	-1.39		-0.10	Note 4	
																			Unit 1 shutdown for 16 Min
10-01-2024	80.5	7.38	73.12	4.37	1000	59.59	7.54	51.01		3.06	2.96		2.95	-1.41	-1.31		-0.10		
11-01-2024	76.1	7.38	68.72	4.11	1000	61.18	7.55	50.97		3.06	2.96		2.94	-1.15	-1.05		-0.10		
12-01-2024	76.1	7.38	68.72	4.11	1000	60.38	7.55	52.31		3.14	3.04		3.02	-1.07	-0.97		-0.10		
13-01-2024	76.1	7.38	68.72	4.11	1000	59.97	7.56	52.88		3.17	3.08		3.06	-1.02	-0.93		-0.09		



Date	Design inflow (Cumecs)	Mandatory down-stream release (Cumecs)	Design inflow available for generation (Cumecs)	Design Energy 95% availability in 90% dependable year (Mus)	Plant actual load/ capacity (MW)	Actual inflow available (Cumecs)	Mandatory down-stream release (Cumecs)	Actual inflow available for generation (Cumecs)	Spillage (Cumecs)	Maximum possible generation based on actual inflow available (Mus)	Actual generation at GT (Mus)	Aux	Ex Bus generation (Mus)	Energy (shortfall)/ Excess (Mus)	Shortfall beyond control of power station (Mus)	Reasons 1	Reasons 2		
1	2	3	4	5	6	7	8	9	10	11 = Actual inflow for 1045MW Gen./0.40*0.024	12a (Comes To 1000 MW)	12b (Comes To 45 MW) Note 3	12c (Comes To 1045 MW)	13 = Total Actual Gen. - Actual Aux. Cons.	14 = 12a-5 (Cores To 1000 MW)	15 = 11-5	16	17 = 14-15	18
14-01-2024	76.10	7.38	68.72	4.11	1000	60.53	7.57	51.92	10	3.12	3.02	12c	3.00	-1.08	-0.09				
15-01-2024	76.10	7.38	68.72	4.11	1000	59.93	7.56	52.33		3.14	3.05		3.03	-1.06	-0.09				
16-01-2024	76.10	7.38	68.72	4.11	1000	59.80	7.55	52.82		3.17	3.07		3.05	-1.04	-0.10				
17-01-2024	76.10	7.38	68.72	4.11	1000	61.34	7.57	52.82		3.12	3.02		3.00	-1.08	-0.10				
18-01-2024	76.10	7.38	68.72	4.11	1000	60.15	7.57	52.06		3.19	3.09		3.07	-1.02	-0.09				
19-01-2024	76.10	7.38	68.72	4.11	1000	58.97	7.56	53.09		3.11	3.02		3.00	-1.09	-0.09				
20-01-2024	76.10	7.38	68.72	4.11	1000	58.97	7.56	53.09		3.10	3.01		2.99	-1.09	-0.09				
21-01-2024	71.30	7.38	63.92	3.82	1000	58.73	7.56	51.74		3.10	3.01		2.99	-1.09	-0.09				
22-01-2024	71.30	7.38	63.92	3.82	1000	58.89	7.55	52.81		3.17	3.06		3.05	-0.76	-0.09				
23-01-2024	71.30	7.38	63.92	3.82	1000	59.71	7.55	54.06		3.24	3.08		3.07	-0.74	-0.10				
24-01-2024	71.30	7.38	63.92	3.82	1000	57.38	7.54	53.25		3.20	3.10		3.08	-0.72	-0.10				
25-01-2024	71.30	7.38	63.92	3.82	1000	58.04	7.55	51.89		3.11	3.01		3.00	-0.81	-0.10				
26-01-2024	71.30	7.38	63.92	3.82	1000	57.55	7.54	49.69		2.98	2.85		2.83	-0.97	-0.14				
27-01-2024	71.30	7.38	63.92	3.82	1000	59.17	7.52	51.42		3.09	2.93		2.92	-0.89	-0.15				
28-01-2024	71.30	7.38	63.92	3.82	1000	59.16	7.52	49.94		3.00	2.85		2.83	-0.97	-0.15				
29-01-2024	71.30	7.38	63.92	3.82	1000	58.07	7.53	51.49		3.09	2.94		2.93	-0.88	-0.15				
30-01-2024	71.30	7.38	63.92	3.82	1000	58.07	7.53	51.49		3.09	2.94		2.93	-0.88	-0.15				
31-01-2024	71.30	7.38	63.92	3.82	1000	59.02	7.54	50.86		3.05	2.88		2.88	-0.93	-0.16				
01-02-2024	70.10	7.38	62.72	3.75	1000	59.62	7.54	53.35		3.20	3.07		3.05	-0.68	-0.16				
02-02-2024	70.10	7.38	62.72	3.75	1000	58.36	7.54	53.61		3.22	3.06		3.05	-0.69	-0.13				
																	Less inflow against design inflow	Note 4	Unit 2 shutdown for 16 Min
03-02-2024	70.10	7.38	62.72	3.75	1000	58.69	7.54	54.45		3.27	3.13		3.12	-0.62	-0.13				
04-02-2024	70.10	7.38	62.72	3.75	1000	58.36	7.54	49.70		2.98	2.84		2.83	-0.91	-0.14				
05-02-2024	70.10	7.38	62.72	3.75	1000	59.79	7.54	50.06		3.00	2.91		2.90	-0.84	-0.09				
06-02-2024	70.10	7.38	62.72	3.75	1000	58.07	7.55	50.12		3.01	2.91		2.90	-0.84	-0.09				
07-02-2024	70.10	7.38	62.72	3.75	1000	56.98	7.53	50.29		3.02	2.91		2.90	-0.83	-0.10				
08-02-2024	70.10	7.38	62.72	3.75	1000	56.39	7.55	50.49		3.03	2.92		2.91	-0.83	-0.11				
09-02-2024	70.10	7.38	62.72	3.75	1000	57.11	7.53	50.34		3.02	2.90		2.89	-0.85	-0.12				
10-02-2024	70.10	7.38	62.72	3.75	1000	56.83	7.55	50.79		3.05	2.89		2.87	-0.86	-0.16				
11-02-2024	68.80	7.38	61.42	3.67	1000	57.85	7.55	47.81		2.87	2.73		2.72	-0.94	-0.16				
12-02-2024	68.80	7.38	61.42	3.67	1000	57.19	7.54	47.95		2.88	2.72		2.70	-0.95	-0.16				
13-02-2024	68.80	7.38	61.42	3.67	1000	57.75	7.55	47.57		2.85	2.71		2.69	-0.96	-0.15				
14-02-2024	68.80	7.38	61.42	3.67	1000	58.26	7.52	52.11		2.83	2.97		2.95	-0.70	-0.16				
15-02-2024	68.80	7.38	61.42	3.67	1000	56.82	7.55	51.16		3.07	2.95		2.93	-0.72	-0.16				
16-02-2024	68.80	7.38	61.42	3.67	1000	58.28	7.56	46.42		2.79	2.76		2.75	-0.91	-0.12				
17-02-2024	68.80	7.38	61.42	3.67	1000	56.38	7.55	51.38		3.08	3.08		3.07	-0.59	-0.09				
18-02-2024	68.80	7.38	61.42	3.67	1000	58.06	7.57	56.08		3.36	3.32		3.30	-0.35	-0.05				
19-02-2024	68.80	7.38	61.42	3.67	1000	59.78	7.54	50.00		3.00	2.95		2.93	-0.72	-0.09				
20-02-2024	68.80	7.38	61.42	3.67	1000	58.13	7.54	48.41		2.90	2.85		2.84	-0.82	-0.09				
21-02-2024	69.60	7.38	62.22	3.31	1000	59.89	7.57	47.04		2.82	2.77		2.76	-0.53	-0.05				
22-02-2024	69.60	7.38	62.22	3.31	1000	58.14	7.54	50.60		3.04	3.05		3.03	-0.26	-0.05				
23-02-2024	69.60	7.38	62.22	3.31	1000	58.01	7.55	51.03		3.06	3.08		3.06	-0.23	-0.05				
24-02-2024	69.60	7.38	62.22	3.31	1000	58.13	7.58	49.86		2.99	3.00		2.99	-0.30	-0.05				
25-02-2024	69.60	7.38	62.22	3.31	1000	57.00	7.53	50.08		3.00	2.98		2.96	-0.33	-0.05				
26-02-2024	69.60	7.38	62.22	3.31	1000	56.00	7.53	49.51		2.97	2.94		2.93	-0.36	-0.05				
27-02-2024	69.60	7.38	62.22	3.31	1000	57.54	7.54	50.24		3.01	2.99		2.98	-0.31	-0.05				
28-02-2024	69.60	7.38	62.22	3.31	1000	58.10	7.52	52.05		3.12	3.04		3.02	-0.27	-0.09				
29-02-2024	69.60	7.38	62.22	3.31	1000	57.58	7.54	51.57		3.09	2.91		2.90	-0.39	-0.09				
																	Less inflow against design inflow	Note 4	Unit 1 shutdown for 45 Min "
01-03-2024	74.20	7.38	66.82	3.99	1000	58.20	7.54	51.51		3.09	3.01		2.99	-0.98	-0.08				
02-03-2024	74.20	7.38	66.82	3.99	1000	63.02	7.55	51.49		3.09	3.00		2.98	-1.00	-0.09				
03-03-2024	74.20	7.38	66.82	3.99	1000	55.82	7.55	50.02		3.00	2.95		2.94	-1.05	-0.05				
04-03-2024	74.20	7.38	66.82	3.99	1000	53.19	7.56	51.46		3.09	2.99		2.97	-1.01	-0.10				
05-03-2024	74.20	7.38	66.82	3.99	1000	58.12	7.57	51.54		3.09	2.99		2.98	-1.00	-0.10				



Date	Design inflow (Cumecs)	Mandatory down-stream release (Cumecs)	Design inflow available for generation (Cumecs)	Design Energy availability in 95% year (Mus)	Plant actual load/capacity (MW)	Actual inflow available (Cumecs)	Mandatory down-stream release (Cumecs)	Actual inflow available for generation (Cumecs)	Spillage (Cumecs)	Maximum possible generation based on actual inflow available (Mus)	Actual generation at GT (Mus)	Aux	Ex Bus generation (Mus)	Energy (shortfall)/Excess (Mus)	Shortfall beyond control of power station (Mus)	Reasons 1	Shortfall within control of power station (Mus)	Reasons 2		
1	2	3	4	5	6	7	8	9	10	11 = Actual inflow for 1045MW Gen./0.40*0.024	12a (Corres. To 1000 MW) Note 3	12b (Corres. To 45 MW) Note 3	12c (Corres. To 1045 MW)	13 = Total Actual Gen. Actual Aux Cons.	14 = 12a-5 (Cores To 1000 MW)	15 = 11-5	16	17 = 14-15	18	
06-03-2024	74.20	7.38	66.82	3.99	1000	56.84	7.53	49.16	10	2.95	2.83		0.02	2.80	-1.17	15 = 11-5	16	17 = 14-15	18	
07-03-2024	74.20	7.38	66.82	3.99	1000	60.08	7.55	49.08		2.94	2.85		0.01	2.84	-1.14	-1.04			generation	
08-03-2024	74.20	7.38	66.82	3.99	1000	59.85	7.55	51.77		3.11	2.98		0.02	2.96	-1.02	-1.05				
09-03-2024	74.20	7.38	66.82	3.99	1000	61.83	7.56	50.55		3.03	2.93		0.01	2.92	-1.06	-1.06		Note 4	Unit 1 shutdown for 1 Hr	
10-03-2024	74.20	7.38	66.82	3.99	1000	67.13	7.56	51.37		3.08	2.99		0.02	2.98	-1.00	-0.91				
11-03-2024	83.10	7.38	75.72	4.53	1000	73.08	7.55	71.16		4.27	4.28		0.03	4.25	-0.25	-0.25				
12-03-2024	83.10	7.38	75.72	4.53	1000	66.09	7.57	55.34		3.32	3.37		0.02	3.35	-1.16	-1.16				
13-03-2024	83.10	7.38	75.72	4.53	1000	66.33	7.56	61.86		3.71	3.77		0.02	3.77	-0.75	-0.75				
14-03-2024	83.10	7.38	75.72	4.53	1000	67.20	7.53	55.30		3.32	3.36		0.02	3.34	-1.17	-1.17				
15-03-2024	83.10	7.38	75.72	4.53	1000	63.81	7.55	65.22		3.91	3.98		0.03	3.96	-0.54	-0.54				
16-03-2024	83.10	7.38	75.72	4.53	1000	65.17	7.54	61.25		3.68	3.72		0.03	3.72	-0.80	-0.80				
17-03-2024	83.10	7.38	75.72	4.53	1000	64.49	7.52	54.56		3.27	3.30		0.02	3.29	-1.22	-1.22				
18-03-2024	83.10	7.38	75.72	4.53	1000	63.32	7.51	55.58		3.33	3.37		0.02	3.35	-1.16	-1.16				
19-03-2024	83.10	7.38	75.72	4.53	1000	65.27	7.52	57.22		3.43	3.45		0.02	3.43	-1.08	-1.08				
20-03-2024	83.10	7.38	75.72	4.53	1000	66.39	7.51	54.32		3.26	3.30		0.02	3.28	-1.22	-1.22				
21-03-2024	88.10	7.38	80.72	4.82	1000	68.63	7.52	57.55		3.45	3.49		0.02	3.47	-1.34	-1.34				
22-03-2024	88.10	7.38	80.72	4.82	1000	72.55	7.51	60.50		3.63	3.67		0.02	3.65	-1.16	-1.16				
23-03-2024	88.10	7.38	80.72	4.82	1000	73.57	7.54	69.29		4.07	4.16		0.03	4.18	-0.65	-0.65				
24-03-2024	88.10	7.38	80.72	4.82	1000	72.59	7.55	67.79		4.07	4.08		0.03	4.05	-0.74	-0.74				
25-03-2024	88.10	7.38	80.72	4.82	1000	68.76	7.55	59.69		3.58	3.59		0.02	3.57	-1.24	-1.24				
26-03-2024	88.10	7.38	80.72	4.82	1000	73.62	7.51	60.45		3.63	3.62		0.02	3.60	-1.20	-1.20				
27-03-2024	88.10	7.38	80.72	4.82	1000	71.00	7.51	66.80		4.01	4.02		0.02	3.99	-0.81	-0.81		Note 4	Unit 1 shutdown for 21 Min	
28-03-2024	88.10	7.38	80.72	4.82	1000	76.34	7.53	64.90		3.89	4.07		0.02	4.05	-0.75	-0.93				
29-03-2024	88.10	7.38	80.72	4.82	1000	80.37	7.56	75.15		4.51	4.53		0.03	4.50	-0.29	-0.32			0.18 Managing reservoir levels	
30-03-2024	88.10	7.38	80.72	4.82	1000	84.89	7.53	75.68		4.54	4.56		0.03	4.53	-0.27	-0.28			0.02 reservoir levels for peak hours	
31-03-2024	88.10	7.38	80.72	4.82	1000	80.87	7.55	87.72		5.26	5.30		0.04	5.27	0.48	0.44			0.04 generation	
92-441-10	2,701.08	2,701.08	74,110.26	4,131.05		88,561.71	2,746.45	63,705.48	22,139.64	3,819.80	3,691.94	94.23	2,428.87	3,761.80	-439.11	-427.04				-12.07
Minimum energy generation can be 1149.5 MW during monsoon peak season/ spillage condition, for which water inflow required is maximum 460 Cumecs. Beyond 460 Cumecs, all the inflow is flushed out.														For 1045 MW						
Unit 3 annual maintenance was carried out during the period 1.4.24 to 11.4.24, hence not considered above.														Total actual generation during FY 23-24		3,786.17				
Ex Bus Generation corresponding to short term sale of 45MW power is arrived at after grossing up the exchange sales quantum with 12% free power. (Col. 12b)														Less: Actual Aux consumption		24.37				
Many times generation loss is not there during the units outage, since maintenance was taken up during non-generating hours.														Total Ex bus generation		3,761.80				
During high inflow period and generation in full capacity, the water consumed for power generation is higher than the normal.																				
Shortfall in respect of 1000MW capacity tied up is 439.11 Mus. Since free power is shedded over & above 12% of 49.06Mus, it has been excluded from shortfall calculations, to keep purity with saleable design energy.																				

For 1000 MW - Gross generation	
Excess generation as actual inflow > design inflow	391.79
Lesser generation due to silt flushing	-80.83
Lesser generation as actual inflow < design inflow	-738.01
Lesser generation due to incr./decr. of reservoir level	-427.04
Lesser generation due to unit outages	-9.05
	-3.02



KWHEP - billed quantum Fy 23-24

	Har 200	Har 176/116	UP	Pun	Raj	LTA total	IEX	HPX	PXIL	Total
Apr	2,42,93,588	2,13,78,202	2,42,93,588	2,42,93,588	1,26,32,550	10,68,91,516				10,68,91,516
May	4,10,15,878	3,60,93,100	4,10,15,878	4,10,15,878	2,13,27,680	18,04,68,414				18,04,68,414
Jun	10,49,68,085	9,23,72,528	10,49,68,085	10,49,68,085	5,45,84,290	46,18,61,073	75,99,005	28,56,000	1,16,875	47,24,32,953
Juk	14,51,47,910	12,77,32,252	14,51,47,910	14,51,47,910	7,54,78,765	63,86,54,747	2,34,50,750	-	40,37,925	66,61,43,422
Aug	15,86,03,425	13,95,73,268	15,86,03,425	15,86,03,425	8,24,75,568	69,78,59,110	52,57,250	10,08,000	2,06,36,450	72,47,60,810
Sep	10,68,19,760	7,87,84,235	10,68,19,760	10,68,19,760	5,55,46,162	45,47,89,677	42,54,225	21,62,648	1,06,01,575	47,18,08,125
Oct	4,39,65,908	2,54,99,078	4,39,65,908	4,39,65,908	2,28,69,585	18,02,66,387				18,02,66,387
Nov	2,87,69,578	1,66,85,778	2,87,69,578	2,87,69,578	1,49,59,115	11,79,53,627				11,79,53,627
Dec	2,21,05,942	1,28,21,330	2,21,05,942	2,21,05,942	1,14,94,618	9,06,33,774				9,06,33,774
Jan	1,85,77,895	1,07,75,160	1,85,77,895	1,85,77,895	96,60,450	7,61,69,295				7,61,69,295
Feb	1,68,28,820	97,60,592	1,68,28,820	1,68,28,820	87,25,565	6,89,72,617				6,89,72,617
Mar	2,18,36,852	1,26,65,102	2,18,36,852	2,18,36,852	1,13,58,862	8,95,41,520				8,95,41,520
Total	73,29,33,641	58,41,40,625	73,29,40,641	73,29,33,641	38,11,13,210	3,16,40,61,757			8,19,80,703	3,24,60,42,460
Qty in Mus						3,164.06			81.98	3,246.04



Qty in Mus

	GoHP- Mus			Short term JSW	Total	REA entries	Diff
Apr	14.727813	-	14.727813	-	14.727813	14.727812	0.000001
May	24.966505	-	24.966505	-	24.966505	24.966445	0.000060
Jun	27.813523	38.050008	65.863530	10.571880	76.435410	76.435405	0.000005
Jul	85.542950	6.227275	91.770225	27.488675	119.258900	119.258900	0.000000
Aug	89.578065	10.338300	99.916365	26.901700	126.818065	126.833915	-0.015850
Sep	66.291863	-	66.291863	17.018448	83.310310	83.310310	0.000000
Oct	39.920175	-	39.920175	-	39.920175	39.920175	0.000000
Nov	25.966225	-	25.966225	-	25.966225	25.966225	0.000000
Dec	19.881050	-	19.881050	-	19.881050	19.881050	0.000000
Jan	17.012950	-	17.012950	-	17.012950	17.012950	0.000000
Feb	15.201875	-	15.201875	-	15.201875	15.201875	0.000000
Mar	19.660125	-	19.660125	-	19.660125	19.722825	-0.062700
Total	446.563118	54.615583	501.178700	81.980703	583.159403	583.237887	-0.078484



**Northern Regional Power Committee
Final REA for the Month of APRIL, 2023**

**Table - I
Details of Intra-Regional Scheduled Bilateral Exchanges (LUs)**

From State/Station	From Utility	To State	To Utility	Ex-Seller	Ex-Purchaser	Applicant	OA Code
N/A	KWHEP	HARYANA	HARYANA	-242.93588	233.72182	PTC	LT-25
N/A	KWHEP	UTTAR PRADESH	UPPCL	-242.93588	233.72182	PTC	LT-26
N/A	KWHEP	RAJASTHAN	RAJASTHAN	-126.32550	121.53358	PTC	LT-27
RAJASTHAN	RAJ SOLAR	DELHI	TPDDL	-37.00360	37.00360	SECI Trader	LT-31
RAJASTHAN	RAJ SOLAR	HARYANA	HARYANA	-127.49045	127.49045	SECI Trader	LT-32
RAJASTHAN	RAJ SOLAR	DELHI	BYPL	-37.04840	37.04840	SECI Trader	LT-35
RAJASTHAN	RAJ SOLAR	DELHI	BRPL	-37.96582	37.96582	SECI Trader	LT-36
RAJASTHAN	RAJ SOLAR	HIMACHAL PRADESH	HP	-37.98535	37.98535	SECI Trader	LT-37
UTTAR PRADESH	ALAKNANDA	UTTARAKHAND	UTTARAKHAND	-51.01920	49.07760	UPPCL	LT-38
RAJASTHAN	RAJ SOLAR	PUNJAB	PUNJAB	-51.61185	51.61185	SECI Trader	LT-42
N/A	KWHEP	HARYANA	HARYANA	-213.78202	205.67230	PTC	LT-54
N/A	KWHEP	PUNJAB	PUNJAB	-242.93588	233.72182	PTC	LT-56
HIMACHAL PRADESH	SHEPL HP	DELHI	TPDDL	-23.55708	22.67078	SHEPL HP	LT-59
N/A	AvRJHNP BKN	HARYANA	HARYANA	-524.42675	524.42675	AvRJHNP BKN	M NR 2022 01
RAJASTHAN	RUYNL	UTTAR PRADESH	UPPCL	-1147.44320	1105.36160	UPPCL	NR/2023/10209/A
PUNJAB	PUNJAB	HIMACHAL PRADESH	HP	-1080.00000	1038.85920	APPCPL	NR/2023/10817/A
HIMACHAL PRADESH	SHPPBPL	DELHI	MAX-HPTL	-3.88640	3.74700	SHPPBPL	NR/2023/11096/F
HIMACHAL PRADESH	SHPPBPL	DELHI	MHIL	-2.52590	2.44300	SHPPBPL	NR/2023/11097/F
HIMACHAL PRADESH	SHPPBPL	DELHI	UHL	-2.52590	2.44300	SHPPBPL	NR/2023/11099/F
HIMACHAL PRADESH	SHPPBPL	DELHI	BMDRC	-3.75430	3.61980	SHPPBPL	NR/2023/11100/F
HIMACHAL PRADESH	SHPPBPL	DELHI	JHPL-DL	-4.10020	3.95420	SHPPBPL	NR/2023/11102/F
HIMACHAL PRADESH	SHPPBPL	DELHI	AISHER	-3.08230	2.95030	SHPPBPL	NR/2023/11104/F
N/A	SINGOLI	UTTARAKHAND	UTTARAKHAND	-0.30750	0.29520	UTTARAKHAND	NR/2023/11175/D
N/A	TSIPL BKN	DELHI	BRPL	-14.80325	14.80325	TSIPL BKN	NR/2023/11177/D
N/A	TSIPL BKN	DELHI	BYPL	-6.34425	6.34425	TSIPL BKN	NR/2023/11178/D
N/A	AvSEPL BHD2	J & K	JK&LADAKH	-1.54075	1.54075	AvSEPL BHD2	NR/2023/11186/C
N/A	AvSEPL BHD2	PUNJAB	PUNJAB	-23.09100	23.09100	AvSEPL BHD2	NR/2023/11187/C
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-6.08920	5.84940	GBHHPL	NR/2023/11188/C
J & K	SPDC-JK	HARYANA	HARYANA	-28.80000	27.66480	HARYANA	NR/2023/11189/C
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-1.78375	1.71280	HARYANA	NR/2023/11190/C
N/A	SAINJ	HIMACHAL PRADESH	HP	-1.81375	1.74232	SPTPL	NR/2023/11191/C
HIMACHAL PRADESH	CHANJUI	DELHI	TPDDL	-1.12180	1.07760	TPDDL	NR/2023/11193/C
N/A	SORANG HEP	UTTAR PRADESH	GFL	-0.70800	0.67200	HPXL	NR/2023/11196/C
HARYANA	HARYANA	UTTAR PRADESH	NOVELSUGAR01	-0.96000	0.92160	HPXL	NR/2023/11198/C
HARYANA	HARYANA	UTTAR PRADESH	RIMJHIM	-4.80000	4.61040	HPXL	NR/2023/11199/C
DELHI	BYPL	HIMACHAL PRADESH	HP	-14.40000	13.83360	STATKRAFT	NR/2023/11202/C
N/A	SINGOLI	UTTARAKHAND	UTTARAKHAND	-0.33000	0.31680	UTTARAKHAND	NR/2023/11207/D
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-1.85625	1.78240	HARYANA	NR/2023/11209/D
N/A	AvSEPL BHD2	PUNJAB	PUNJAB	-23.09100	23.09100	AvSEPL BHD2	NR/2023/11210/D
N/A	AvSEPL BHD2	J & K	JK&LADAKH	-1.54075	1.54075	AvSEPL BHD2	NR/2023/11211/D

Long term

Short term: + 18 Entries KWHEP
+ 2 Entries Karakoram

50.85592

96.4222

141.27812



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From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
GOA	GOA Beneficiary	N/A	SBSRPC I I PL BKN	-3.50595	-3.50595	MANIKARAN	WR/2023/14060/D
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHDL2	-15.73958	-15.73958	ABCREPL BHDL2	WR/2023/14061/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-57.86785	-57.86785	AEML	WR/2023/14063/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-33.71362	-33.71362	AEML	WR/2023/14064/D
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHDL2	-17.10662	-17.10662	AcHPPL BHDL2	WR/2023/14065/D
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-17.02090	-17.02090	TPGEL BKN	WR/2023/14066/D
MAHARASHTRA	TPC MSEB	N/A	KWHEP	-1.09750	-1.09750	IEXL	WR/2023/14072/C
GOA	GOA Beneficiary	N/A	SBSRPC I I PL BKN	-3.63250	-3.63250	MANIKARAN	WR/2023/14079/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-2.48800	-2.48800	MANIKARAN	WR/2023/14080/D
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHDL2	-16.48510	-16.48510	ABCREPL BHDL2	WR/2023/14081/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-2.15800	-2.15800	MANIKARAN	WR/2023/14082/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-55.79000	-55.79000	AEML	WR/2023/14083/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-20.72500	-20.72500	AEML	WR/2023/14084/D
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHDL2	-12.69815	-12.69815	AcHPPL BHDL2	WR/2023/14085/D
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-17.53750	-17.53750	TPGEL BKN	WR/2023/14089/C
DNH	DNHDDPDCL	HIMACHAL PRADESH	MALANA	-1.95000	-1.95000	IEXL	WR/2023/14099/C
MAHARASHTRA	TPC MSEB	N/A	KWHEP	-2.13250	-2.13250	IEXL	WR/2023/14103/C
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHDL2	-14.69155	-14.69155	ABCREPL BHDL2	WR/2023/14106/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-2.07600	-2.07600	MANIKARAN	WR/2023/14107/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-2.50800	-2.50800	MANIKARAN	WR/2023/14108/D
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHDL2	-11.51110	-11.51110	AcHPPL BHDL2	WR/2023/14110/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-48.97250	-48.97250	AEML	WR/2023/14111/D
GOA	GOA Beneficiary	N/A	SBSRPC I I PL BKN	-3.63250	-3.63250	MANIKARAN	WR/2023/14112/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-21.42500	-21.42500	AEML	WR/2023/14113/D
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-17.26250	-17.26250	TPGEL BKN	WR/2023/14114/D
DNH	DNHDDPDCL	N/A	ADHPL	-3.55500	-3.55500	IEXL	WR/2023/14123/C
MAHARASHTRA	AEML	N/A	SORANG IIEP	-2.10000	-2.10000	HPXL	WR/2023/14130/C
GOA	GOA Beneficiary	N/A	SBSRPC I I PL BKN	-3.26500	-3.26500	MANIKARAN	WR/2023/14133/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-2.57300	-2.57300	MANIKARAN	WR/2023/14134/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-2.12800	-2.12800	MANIKARAN	WR/2023/14135/D
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHDL2	-16.16230	-16.16230	ABCREPL BHDL2	WR/2023/14136/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-56.96750	-56.96750	AEML	WR/2023/14137/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-19.23750	-19.23750	AEML	WR/2023/14138/D
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-17.51250	-17.51250	TPGEL BKN	WR/2023/14139/D
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHDL2	-16.85760	-16.85760	AcHPPL BHDL2	WR/2023/14140/D
DNH	DNHDDPDCL	N/A	ADHPL	-5.64500	-5.64500	IEXL	WR/2023/14149/C
GUJRAT	TPLD	HIMACHAL PRADESH	MALANA	-2.68750	-2.68750	IEXL	WR/2023/14154/C
GUJRAT	TPLD	N/A	SINGOLI	-2.60250	-2.60250	IEXL	WR/2023/14155/C
MAHARASHTRA	TPC MSEB	N/A	KWHEP	-2.56500	-2.56500	IEXL	WR/2023/14159/C
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-0.11600	-0.11600	MANIKARAN	WR/2023/14163/C



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From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-1.96665	-1.96665	MANIKARAN	WR/2023/14165/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-3.05572	-3.05572	MANIKARAN	WR/2023/14166/D
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHD2	-13.95028	-13.95028	ABCREPL BHD2	WR/2023/14167/D
GOA	GOA Beneficiary	N/A	SBSRPC I I PL BKN	-2.57008	-2.57008	MANIKARAN	WR/2023/14168/D
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHD2	-13.89695	-13.89695	AcHPPL BHD2	WR/2023/14169/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-50.94718	-50.94718	AEML	WR/2023/14170/D
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-14.66512	-14.66512	TPGEL BKN	WR/2023/14171/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-17.53660	-17.53660	AEML	WR/2023/14172/D
DNH	DNHDDPDCL	HIMACHAL PRADESH	MALANA	-2.51250	-2.51250	IEXL	WR/2023/14180/C
DNH	DNHDDPDCL	N/A	SINGOLI	-2.22500	-2.22500	IEXL	WR/2023/14181/C
MAHARASHTRA	TPC MSEB	N/A	KWHEP	-1.51500	-1.51500	IEXL	WR/2023/14184/C
MAHARASHTRA	AEML	N/A	SORANG HEP	-2.18000	-2.18000	HPXL	WR/2023/14193/C
GOA	GOA Beneficiary	N/A	SBSRPC I I PL BKN	-3.63250	-3.63250	MANIKARAN	WR/2023/14199/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-3.12200	-3.12200	MANIKARAN	WR/2023/14200/D
GOA	GOA Beneficiary	UTTARAKHAND	BI I PL	-2.69000	-2.69000	MANIKARAN	WR/2023/14201/D
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHD2	-16.87062	-16.87062	ABCREPL BHD2	WR/2023/14202/D
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHD2	-17.64102	-17.64102	AcHPPL BHD2	WR/2023/14203/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-58.63750	-58.63750	AEML	WR/2023/14204/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-19.21500	-19.21500	AEML	WR/2023/14205/D
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-17.51250	-17.51250	TPGEL BKN	WR/2023/14206/C
DNH	DNHDDPDCL	HIMACHAL PRADESH	MALANA	-2.55750	-2.55750	IEXL	WR/2023/14217/C
DNH	DNHDDPDCL	N/A	SORANG HEP	-4.06000	-4.06000	IEXL	WR/2023/14219/C
MAHARASHTRA	TPC MSEB	N/A	KWHEP	-2.35250	-2.35250	IEXL	WR/2023/14220/C
MAHARASHTRA	TPC MSEB	N/A	SAINJ	-0.65250	-0.65250	IEXL	WR/2023/14221/C
MAHARASHTRA	AEML	N/A	SINGOLI	-2.64500	-2.64500	HPXL	WR/2023/14222/C
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHD2	-17.19035	-17.19035	AcHPPL BHD2	WR/2023/14231/D
GOA	GOA Beneficiary	N/A	SBSRPC I I PL BKN	-3.50598	-3.50598	MANIKARAN	WR/2023/14232/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-3.40560	-3.40560	MANIKARAN	WR/2023/14233/D
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHD2	-14.86232	-14.86232	ABCREPL BHD2	WR/2023/14237/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-57.94428	-57.94428	AEML	WR/2023/14239/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-41.54652	-41.54652	AEML	WR/2023/14240/D
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-17.02712	-17.02712	TPGEL BKN	WR/2023/14241/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-3.01700	-3.01700	MANIKARAN	WR/2023/14242/C
AMNSIL WR	AMNSIL	N/A	SORANG HEP	-3.86000	-3.86000	IEXL	WR/2023/14248/C
MAHARASHTRA	TPC MSEB	N/A	KWHEP	-2.97342	-2.97342	IEXL	WR/2023/14250/C
GOA	GOA Beneficiary	UTTARAKHAND	BI I PL	-0.60000	-0.60000	MANIKARAN	WR/2023/14258/C
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-4.06512	-4.06512	MANIKARAN	WR/2023/14260/D
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHD2	-17.01565	-17.01565	AcHPPL BHD2	WR/2023/14262/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-57.59722	-57.59722	AEML	WR/2023/14264/D
GOA	GOA Beneficiary	N/A	SBSRPC I I PL BKN	-3.55112	-3.55112	MANIKARAN	WR/2023/14265/D



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From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-4.29185	-4.29185	MANIKARAN	WR/2023/14266/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-43.81655	-43.81655	AEML	WR/2023/14267/D
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-17.19585	-17.19585	TPGEL BKN	WR/2023/14268/D
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHDL2	-16.21695	-16.21695	ABCREPL BHDL2	WR/2023/14269/D
MAHARASHTRA	TPC MSEB	N/A	KWHEP	-1.24000	-1.24000	IEXL	WR/2023/14275/C
DNH	DNHDDPDCL	N/A	SORANG HEP	-4.01080	-4.01080	IEXL	WR/2023/14277/C
MAHARASHTRA	AEML	HIMACHAL PRADESH	MALANA	-1.30500	-1.30500	IEXL	WR/2023/14284/C
MAHARASHTRA	AEML	RAJASTHAN	SREE-RJ	-0.65000	-0.65000	IEXL	WR/2023/14285/C
MAHARASHTRA	AEML	N/A	SCLTPS	-0.51000	-0.51000	IEXL	WR/2023/14286/C
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHDL2	-15.77560	-15.77560	ABCREPL BHDL2	WR/2023/14288/D
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-17.52500	-17.52500	TPGEL BKN	WR/2023/14289/D
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHDL2	-16.67608	-16.67608	AcHPPL BHDL2	WR/2023/14291/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-2.44000	-2.44000	MANIKARAN	WR/2023/14292/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-55.89250	-55.89250	AEML	WR/2023/14293/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL_BKN	-3.26750	-3.26750	MANIKARAN	WR/2023/14294/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-3.72800	-3.72800	MANIKARAN	WR/2023/14295/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-48.65500	-48.65500	AEML	WR/2023/14296/D
MAHARASHTRA	TPC MSEB	N/A	KWHEP	-4.02500	-4.02500	IEXL	WR/2023/14303/C
AMNSIL WR	AMNSIL	N/A	SORANG HEP	-4.90000	-4.90000	IEXL	WR/2023/14304/C
GUJRAT	TPLD	DELHI	BYPL	-4.10000	-4.10000	IEXL	WR/2023/14318/C
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHDL2	-15.72600	-15.72600	ABCREPL BHDL2	WR/2023/14320/D
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHDL2	-16.65960	-16.65960	AcHPPL BHDL2	WR/2023/14321/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL_BKN	-3.26750	-3.26750	MANIKARAN	WR/2023/14323/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-3.07800	-3.07800	MANIKARAN	WR/2023/14324/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-52.67250	-52.67250	AEML	WR/2023/14325/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-2.41600	-2.41600	MANIKARAN	WR/2023/14326/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-67.12750	-67.12750	AEML	WR/2023/14327/D
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-17.67500	-17.67500	TPGEL BKN	WR/2023/14328/C
MAHARASHTRA	TPC MSEB	N/A	KWHEP	-2.01000	-2.01000	IEXL	WR/2023/14333/C
MAHARASHTRA	TPC MSEB	N/A	SATNJ	-0.54500	-0.54500	IEXL	WR/2023/14334/C
DNH	DNHDDPDCL	N/A	SORANG HEP	-4.90000	-4.90000	IEXL	WR/2023/14345/C
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-0.38000	-0.38000	MANIKARAN	WR/2023/14348/C
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-0.23000	-0.23000	MANIKARAN	WR/2023/14349/C
GOA	GOA Beneficiary	N/A	SBSRPC11PL_BKN	-3.01000	-3.01000	MANIKARAN	WR/2023/14350/D
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHDL2	-14.49658	-14.49658	ABCREPL BHDL2	WR/2023/14351/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-2.44600	-2.44600	MANIKARAN	WR/2023/14352/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-48.19250	-48.19250	AEML	WR/2023/14353/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-33.77250	-33.77250	AEML	WR/2023/14354/D
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHDL2	-14.51182	-14.51182	AcHPPL BHDL2	WR/2023/14355/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-4.32300	-4.32300	MANIKARAN	WR/2023/14356/D



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From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-13.81250	-13.81250	TPGEL BKN	WR/2023/14358/C
MAHARASHTRA	TPC MSEB	N/A	KWHEP	-3.84500	-3.84500	IEXL	WR/2023/14363/C
DNH	DNHDDPDCL	N/A	SORANG HEP	-5.00000	-5.00000	IEXL	WR/2023/14366/C
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-3.01250	-3.01250	MANIKARAN	WR/2023/14378/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-2.09100	-2.09100	MANIKARAN	WR/2023/14379/D
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHDL2	-16.67080	-16.67080	ABCREPL BHDL2	WR/2023/14384/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-4.36300	-4.36300	MANIKARAN	WR/2023/14386/D
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHDL2	-17.34310	-17.34310	AcHPPL BHDL2	WR/2023/14387/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-58.73000	-58.73000	AEML	WR/2023/14388/D
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-17.72500	-17.72500	TPGEL BKN	WR/2023/14389/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-46.82250	-46.82250	AEML	WR/2023/14390/D
MAHARASHTRA	AEML	HIMACHAL PRADESH	GBHHPL	-5.00000	-5.00000	HPXL	WR/2023/14392/C
MAHARASHTRA	AEML	N/A	SORANG HEP	-0.08000	-0.08000	HPXL	WR/2023/14394/C
MAHARASHTRA	TPC MSEB	N/A	KWHEP	-4.69500	-4.69500	PXIL	WR/2023/14404/C
DNH	DNHDDPDCL	N/A	SORANG HEP	-5.00000	-5.00000	IEXL	WR/2023/14410/C
MAHARASHTRA	TPC MSEB	N/A	SAINJ	-2.47500	-2.47500	IEXL	WR/2023/14415/C
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-0.26700	-0.26700	MANIKARAN	WR/2023/14417/C
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-0.80200	-0.80200	MANIKARAN	WR/2023/14421/C
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-3.12750	-3.12750	MANIKARAN	WR/2023/14422/D
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHDL2	-16.34265	-16.34265	ABCREPL BHDL2	WR/2023/14423/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-6.48000	-6.48000	MANIKARAN	WR/2023/14424/D
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHDL2	-17.25642	-17.25642	AcHPPL BHDL2	WR/2023/14425/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-59.69000	-59.69000	AEML	WR/2023/14426/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-17.73000	-17.73000	AEML	WR/2023/14427/D
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-17.72500	-17.72500	TPGEL BKN	WR/2023/14430/C
AMNSIL WR	AMNSIL	N/A	SORANG HEP	-4.96000	-4.96000	IEXL	WR/2023/14446/C
MAHARASHTRA	TPC MSEB	N/A	SAINJ	-1.69750	-1.69750	IEXL	WR/2023/14447/C
MAHARASHTRA	TPC MSEB	HIMACHAL PRADESH	HP-GOVT	-10.30500	-10.30500	PXIL	WR/2023/14448/C
DNH	DNHDDPDCL	N/A	ADHPL	-0.97500	-0.97500	IEXL	WR/2023/14454/C
MAHARASHTRA	TPC MSEB	N/A	KWHEP	-5.38750	-5.38750	PXIL	WR/2023/14458/C
DNH	DNHDDPDCL	HIMACHAL PRADESH	GBHHPL	-2.40000	-2.40000	PXIL	WR/2023/14462/C
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-4.90400	-4.90400	MANIKARAN	WR/2023/14463/D
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-17.72500	-17.72500	TPGEL BKN	WR/2023/14464/D
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHDL2	-16.47600	-16.47600	ABCREPL BHDL2	WR/2023/14466/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-3.24400	-3.24400	MANIKARAN	WR/2023/14467/D
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHDL2	-17.70015	-17.70015	AcHPPL BHDL2	WR/2023/14468/D
DNH	DNHDDPDCL	HIMACHAL PRADESH	GBHHPL	-1.50000	-1.50000	PXIL	WR/2023/14469/C
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-60.90000	-60.90000	AEML	WR/2023/14470/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-11.00500	-11.00500	AEML	WR/2023/14471/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-2.74000	-2.74000	MANIKARAN	WR/2023/14472/D



Northern Regional Power Committee
Final REA for the Month of APRIL, 2023
Table - J
Details of Inter-Regional Bilateral Exchanges (LUs)

From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
MAHARASHTRA	TPC MSEB	HIMACHAL PRADESH	HP-GOVT	-3.43250	-3.43250	PXIL	WR/2023/14487/C
MAHARASHTRA	TPC MSEB	N/A	KWHEP	-1.95000	-1.95000	PXIL	WR/2023/14499/C
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-62.30250	-62.30250	AEML	WR/2023/14500/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-32.84250	-32.84250	AEML	WR/2023/14501/D
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHDL2	-18.05410	-18.05410	AcHPPL BHDL2	WR/2023/14502/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-2.97500	-2.97500	MANIKARAN	WR/2023/14504/D
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHDL2	-16.49712	-16.49712	ABCREPL BHDL2	WR/2023/14505/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-3.63250	-3.63250	MANIKARAN	WR/2023/14506/D
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-18.77500	-18.77500	TPGEL BKN	WR/2023/14507/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-3.92200	-3.92200	MANIKARAN	WR/2023/14508/D
MAHARASHTRA	TPC MSEB	HIMACHAL PRADESH	HP-GOVT	-2.08250	-2.08250	PXIL	WR/2023/14510/C
GUJRAT	TPLD	DELHI	BRPL	-0.57250	-0.57250	IELX	WR/2023/14513/C
DNH	DNHDDPDCL	N/A	SORANG HEP	-5.40000	-5.40000	IELX	WR/2023/14519/C
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-3.04600	-3.04600	MANIKARAN	WR/2023/14530/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-3.62750	-3.62750	MANIKARAN	WR/2023/14531/D
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHDL2	-16.29998	-16.29998	ABCREPL BHDL2	WR/2023/14532/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-1.92800	-1.92800	MANIKARAN	WR/2023/14533/D
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHDL2	-17.69298	-17.69298	AcHPPL BHDL2	WR/2023/14534/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-62.48000	-62.48000	AEML	WR/2023/14535/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-20.71000	-20.71000	AEML	WR/2023/14536/D
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-18.77500	-18.77500	TPGEL BKN	WR/2023/14537/D
MAHARASHTRA	TPC MSEB	HIMACHAL PRADESH	HP-GOVT	-2.09500	-2.09500	PXIL	WR/2023/14540/C
MAHARASHTRA	TPC MSEB	N/A	KWHEP	-2.95500	-2.95500	PXIL	WR/2023/14541/C
GUJRAT	TPLD	DELHI	BRPL	-11.16000	-11.16000	IELX	WR/2023/14547/C
GUJRAT	TPLD	N/A	ADHPL	-0.78000	-0.78000	IELX	WR/2023/14549/C
DNH	DNHDDPDCL	HIMACHAL PRADESH	MALANA	-2.18500	-2.18500	IELX	WR/2023/14551/C
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-3.33250	-3.33250	MANIKARAN	WR/2023/14565/D
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHDL2	-16.92875	-16.92875	ABCREPL BHDL2	WR/2023/14566/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-2.73300	-2.73300	MANIKARAN	WR/2023/14567/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-3.62800	-3.62800	MANIKARAN	WR/2023/14568/D
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHDL2	-16.98042	-16.98042	AcHPPL BHDL2	WR/2023/14570/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-59.90750	-59.90750	AEML	WR/2023/14571/D
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-18.77500	-18.77500	TPGEL BKN	WR/2023/14572/C
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-28.50000	-28.50000	AEML	WR/2023/14573/C
DNH	DNHDDPDCL	N/A	SORANG HEP	-4.90000	-4.90000	IELX	WR/2023/14578/C
MAHARASHTRA	TPC MSEB	N/A	KWHEP	-2.99750	-2.99750	PXIL	WR/2023/14583/C
MAHARASHTRA	TPC MSEB	HIMACHAL PRADESH	HP-GOVT	-2.55000	-2.55000	PXIL	WR/2023/14585/C
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-0.36050	-0.36050	MANIKARAN	WR/2023/14592/C
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-3.08200	-3.08200	MANIKARAN	WR/2023/14594/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-0.42875	-0.42875	MANIKARAN	WR/2023/14595/C



Northern Regional Power Committee
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Table - J
Details of Inter-Regional Bilateral Exchanges (LUs)

From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHD2	-15.72275	-15.72275	ABCREPL BHD2	WR/2023/14596/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-3.62750	-3.62750	MANIKARAN	WR/2023/14597/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-50.16000	-50.16000	AEML	WR/2023/14598/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-27.39500	-27.39500	AEML	WR/2023/14599/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-3.22800	-3.22800	MANIKARAN	WR/2023/14600/D
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-18.77500	-18.77500	TPGEL BKN	WR/2023/14601/D
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHD2	-13.88752	-13.88752	AcHPPL BHD2	WR/2023/14602/D
MAHARASHTRA	TPC MSEB	HIMACHAL PRADESH	HP-GOVT	-3.65750	-3.65750	PXIL	WR/2023/14605/C
MAHARASHTRA	TPC MSEB	N/A	KWHEP	-3.14000	-3.14000	PXIL	WR/2023/14607/C
DNH	DNHDDPDCL	N/A	ADHPL	-0.96000	-0.96000	LEXL	WR/2023/14620/C
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-0.29700	-0.29700	MANIKARAN	WR/2023/14627/C
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-16.38000	-16.38000	TPGEL BKN	WR/2023/14628/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-3.39800	-3.39800	MANIKARAN	WR/2023/14629/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-3.33600	-3.33600	MANIKARAN	WR/2023/14630/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-3.62750	-3.62750	MANIKARAN	WR/2023/14631/D
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHD2	-15.75758	-15.75758	ABCREPL BHD2	WR/2023/14633/D
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHD2	-15.76212	-15.76212	AcHPPL BHD2	WR/2023/14634/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-56.50500	-56.50500	AEML	WR/2023/14636/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-18.74750	-18.74750	AEML	WR/2023/14637/D
MAHARASHTRA	TPC MSEB	HIMACHAL PRADESH	HP-GOVT	-5.30500	-5.30500	PXIL	WR/2023/14644/C
MAHARASHTRA	TPC MSEB	N/A	KWHEP	-2.99250	-2.99250	PXIL	WR/2023/14645/C
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHD2	-14.17155	-14.17155	ABCREPL BHD2	WR/2023/14662/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-3.22800	-3.22800	MANIKARAN	WR/2023/14663/D
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHD2	-16.05322	-16.05322	AcHPPL BHD2	WR/2023/14664/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-2.99200	-2.99200	MANIKARAN	WR/2023/14665/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-3.62750	-3.62750	MANIKARAN	WR/2023/14666/D
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-16.84250	-16.84250	TPGEL BKN	WR/2023/14670/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-52.87250	-52.87250	AEML	WR/2023/14671/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-18.67250	-18.67250	AEML	WR/2023/14672/D
MAHARASHTRA	TPC MSEB	HIMACHAL PRADESH	HP-GOVT	-4.36750	-4.36750	PXIL	WR/2023/14690/C
MAHARASHTRA	TPC MSEB	N/A	KWHEP	-2.98250	-2.98250	PXIL	WR/2023/14692/C
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-15.56250	-15.56250	TPGEL BKN	WR/2023/14705/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-0.21600	-0.21600	MANIKARAN	WR/2023/14706/C
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-3.04200	-3.04200	MANIKARAN	WR/2023/14708/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-3.62750	-3.62750	MANIKARAN	WR/2023/14709/D
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHD2	-12.14858	-12.14858	ABCREPL BHD2	WR/2023/14711/D
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHD2	-15.95760	-15.95760	AcHPPL BHD2	WR/2023/14712/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-60.89250	-60.89250	AEML	WR/2023/14713/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-12.11500	-12.11500	AEML	WR/2023/14714/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-3.62800	-3.62800	MANIKARAN	WR/2023/14715/C



Northern Regional Power Committee

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Table - K

Details of Scheduled Energy Exchange (LUs) Through Power Exchange

Power Exchange	To Entity	EX-NR Periphery	EX-NR State Periphery
GDAM IEX	DELHI	131.574200	126.650475
GDAM IEX	HARYANA	0.491700	0.473100
GDAM IEX	PUNJAB	14.155250	13.637100
GDAM IEX	RAILWAYS	29.434150	28.327275
GDAM IEX	RAJASTHAN	1.373500	1.324725
GDAM IEX	UTTAR PRADESH	25.032150	24.084900
GDAM IEX	ADANI SEJ2PL	-15.727500	-15.727500
GDAM IEX	HARYANA	-3.976000	-3.976000
GDAM IEX	HIMACHAL PRADESH	-46.584000	-46.584000
GDAM IEX	J & K	-69.137325	-69.137325
GDAM IEX	PUNJAB	-8.156000	-8.156000
GDAM IEX	RAJASTHAN	-19.036375	-19.036375
GDAM IEX	SINGOLI BHATWARI	-36.726300	-36.726300
GDAM IEX	UTTAR PRADESH	-37.137750	-37.137750
IEX	DELHI	36.521850	35.142275
IEX	HARYANA	225.119500	216.502925
IEX	HIMACHAL PRADESH	308.477775	296.605925
IEX	J & K	4061.350450	3904.731500
IEX	NEPAL	185.517150	178.475800
IEX	PUNJAB	4204.333575	4042.769475
IEX	RAILWAYS	86.449675	83.241275
IEX	RAJASTHAN	1362.156950	1310.940125
IEX	UTTAR PRADESH	1672.689850	1609.651175
IEX	UTTARAKHAND	1660.723775	1596.798525
IEX	ADANI SE JODHPUR 2 L	-114.475000	-114.475000
IEX	ADANI SEJ2PL	-0.925000	-0.925000
IEX	ADHPL	-70.927500	-70.927500
IEX	ANTA RF	-80.061975	-80.061975
IEX	AURAIYA RF	-92.868875	-92.868875
IEX	BUDHIL HEP	-11.257750	-11.257750
IEX	CHANDIGARH	-351.499425	-351.499425
IEX	DADRI RF	-121.668900	-121.668900
IEX	DELHI	-2160.886925	-2160.886925
IEX	HARYANA	-2267.995125	-2267.995125
IEX	HIMACHAL PRADESH	-728.854400	-728.854400
IEX	J & K	-90.691075	-90.691075
IEX	KARCHAM WANGTOO	-89.546950	-89.546950
IEX	PARBATH-II INFIRM	-16.130000	-16.130000
IEX	PUNJAB	-0.432000	-0.432000
IEX	RAJASTHAN	-506.538875	-506.538875
IEX	RENEW SURYA RAVI	-103.678000	-103.678000
IEX	SANJ HEP	-77.965750	-77.965750
IEX	SCL Beawar	-23.827500	-23.827500
IEX	SINGOLI BHATWARI	-24.683250	-24.683250
IEX	SORANG HEP	-2.582500	-2.582500
IEX	UTTAR PRADESH	-9517.487525	-9517.487525
IEX	UTTARAKHAND	-136.102250	-136.102250
RTM IEX	DELHI	226.454675	217.832425



RTM IEX	HARYANA	240.392975	231.083550
RTM IEX	HIMACHAL PRADESH	60.299600	58.021850
RTM IEX	J & K	1283.305950	1234.289600
RTM IEX	PUNJAB	1896.457425	1824.044900
RTM IEX	RAILWAYS	33.181850	31.921400
RTM IEX	RAJASTHAN	1296.234600	1247.727725
RTM IEX	SAINJ HEP	0.368700	0.355150
RTM IEX	UTTAR PRADESH	1260.225075	1212.716575
RTM IEX	UTTARAKHAND	208.874425	200.901900
RTM IEX	ADANI SEJ2PL	-0.676750	-0.676750
RTM IEX	ADHPL	-3.495250	-3.495250
RTM IEX	ANTA RF	-31.816250	-31.816250
RTM IEX	AURAIYA RF	-32.962500	-32.962500
RTM IEX	BUDHIL HEP	-1.890500	-1.890500
RTM IEX	CHANDIGARH	-4.050000	-4.050000
RTM IEX	DADRI RF	-60.614750	-60.614750
RTM IEX	DELHI	-1218.093650	-1218.093650
RTM IEX	HARYANA	-262.669800	-262.669800
RTM IEX	HIMACHAL PRADESH	-660.090750	-660.090750
RTM IEX	J & K	-266.829500	-266.829500
RTM IEX	KARCHAM WANGTOO	-6.875250	-6.875250
RTM IEX	PUNJAB	-30.016725	-30.016725
RTM IEX	RAJASTHAN	-1406.946675	-1406.946675
RTM IEX	RENEW SURYA RAVI	-11.644750	-11.644750
RTM IEX	SAINJ HEP	-30.118250	-30.118250
RTM IEX	SCL Beawar	-3.465000	-3.465000
RTM IEX	SINGOLI BHATWARI	-24.790000	-24.790000
RTM IEX	SORANG HEP	-7.542500	-7.542500
RTM IEX	UTTAR PRADESH	-962.203400	-962.203400
RTM IEX	UTTARAKHAND	-112.811900	-112.811900



Northern Regional Power Committee

Final REA for the Month of MAY, 2023

Table - I

Details of Intra-Regional Scheduled Bilateral Exchanges (LUs)

From State/Station	From Utility	To State	To Utility	Ex-Seller	Ex-Purchaser	Applicant	OA Code
RAJASTHAN	RAJ SOLAR	UTTAR PRADESH	UPPCL	-100.61392	100.61392	NVVNL	LT-17
N/A	KWHEP	HARYANA	HARYANA	-410.15878	396.02962	PTC	LT-25
N/A	KWHEP	UTTAR PRADESH	UPPCL	-410.15878	396.02962	PTC	LT-26
N/A	KWHEP	RAJASTHAN	RAJASTHAN	-213.27680	205.93262	PTC	LT-27
RAJASTHAN	RAJ SOLAR	DELHI	TPDDL	-38.46590	38.46590	SECI Trader	LT-31
RAJASTHAN	RAJ SOLAR	HARYANA	HARYANA	-131.21112	131.21112	SECI Trader	LT-32
RAJASTHAN	RAJ SOLAR	DELHI	BYPL	-38.56220	38.56220	SECI Trader	LT-35
RAJASTHAN	RAJ SOLAR	DELHI	BRPL	-39.42830	39.42830	SECI Trader	LT-36
RAJASTHAN	RAJ SOLAR	HIMACHAL PRADESH	HP	-39.46130	39.46130	SECI Trader	LT-37
UTTAR PRADESH	ALAKNANDA	UTTARAKHAND	UTTARAKHAND	-83.61120	80.72160	UPPCL	LT-38
RAJASTHAN	RAJ SOLAR	PUNJAB	PUNJAB	-53.35535	53.35535	SECI Trader	LT-42
N/A	KWHEP	HARYANA	HARYANA	-360.93100	348.49775	PTC	LT-54
N/A	KWHEP	PUNJAB	PUNJAB	-410.15878	396.02962	PTC	LT-56
HIMACHAL PRADESH	SHEPL HP	DELHI	TPDDL	-41.79232	40.34588	SHEPL HP	LT-59
N/A	AvRHNPL BKN	HARYANA	HARYANA	-522.45165	522.45165	AvRHNPL BKN	M NR 2022 01
HIMACHAL PRADESH	HP	PUNJAB	PUNJAB	-67.39200	65.01840	APPCPL	NR/2023/10936/A
HIMACHAL PRADESH	HP	PUNJAB	PUNJAB	-44.92800	43.35360	APPCPL	NR/2023/10939/A
HIMACHAL PRADESH	HP	DELHI	BYPL	-52.22400	50.38880	APPCPL	NR/2023/10944/A
HIMACHAL PRADESH	HP-GOVT	UTTAR PRADESH	UPPCL	-158.96800	153.44950	TPTCL	NR/2023/10993/A
RAJASTHAN	RUVNL	UTTAR PRADESH	UPPCL	-2778.96400	2682.43800	UPPCL	NR/2023/11057/A
RAJASTHAN	RUVNI	UTTAR PRADESH	UPPCL	-764.86300	738.29300	UPPCL	NR/2023/11079/A
HIMACHAL PRADESH	HP	DELHI	BYPL	-134.40000	129.78720	STATKRAFT	NR/2023/11284/A
HIMACHAL PRADESH	HP	DELHI	BRPL	-121.85600	117.59120	APPCPL	NR/2023/11330/A
HIMACHAL PRADESH	HP-GOVT	UTTAR PRADESH	UPPCL	-349.72960	337.58890	TPTCL	NR/2023/11444/A
N/A	SCLTPS	UTTAR PRADESH	UPPCL	-93.43830	90.18750	SCL	NR/2023/11635/A
HIMACHAL PRADESH	HP	DELHI	BRPL	-86.40000	83.35920	MANIKARAN	NR/2023/11642/A
HIMACHAL PRADESH	HP	DELHI	BRPL	-77.76000	75.02400	MANIKARAN	NR/2023/11643/A
HIMACHAL PRADESH	HP-GOVT	UTTAR PRADESH	UPPCL	-174.86480	168.79280	TPTCL	NR/2023/11661/A
RAJASTHAN	SREE-RJ	UTTAR PRADESH	UPPCL	-80.40000	77.54460	SCL	NR/2023/11861/F
HIMACHAL PRADESH	GBHHPL	UTTAR PRADESH	UPPCL	-223.20000	215.45880	GBHHPL	NR/2023/11913/F
HIMACHAL PRADESH	HP-GOVT	UTTAR PRADESH	NPCL(UP)	-111.60000	107.71920	TPTCL	NR/2023/11916/F
N/A	ADHPL	UTTAR PRADESH	UPPCL	-139.50000	134.65500	STATKRAFT	NR/2023/11917/F
HIMACHAL PRADESH	GEE HP	UTTARAKHAND	UTTARAKHAND	-111.60000	107.71920	IEXL	NR/2023/11928/F
HIMACHAL PRADESH	SHPPBPL	DELHI	BAL184	-2.74170	2.66760	SHPPBPL	NR/2023/11955/F
HIMACHAL PRADESH	SHPPBPL	DELHI	BAL224	-3.15520	3.04370	SHPPBPL	NR/2023/11956/F
HIMACHAL PRADESH	SHPPBPL	DELHI	BAL234	-6.00730	5.81010	SHPPBPL	NR/2023/11957/F
HIMACHAL PRADESH	SHPPBPL	DELHI	AISHER	-4.99340	4.82240	SHPPBPL	NR/2023/11958/F
HIMACHAL PRADESH	SHPPBPL	DELHI	BMDRC	-5.72120	5.52880	SHPPBPL	NR/2023/11959/F
HIMACHAL PRADESH	SHPPBPL	DELHI	MAX-HPTL	-5.72120	5.52880	SHPPBPL	NR/2023/11960/F
HIMACHAL PRADESH	SHPPBPL	DELHI	JIPL-DL	-6.14330	5.94370	SHPPBPL	NR/2023/11961/F

↑
Long term

Short term



10 KWHEP
Karnaham

17 Entities
2 Entities

55.8952

193.76925

249.66445



Northern Regional Power Committee
Final REA for the Month of MAY, 2023

Table - I
Details of Intra-Regional Scheduled Bilateral Exchanges (LUs)

From State/Station	From Utility	To State	To Utility	Ex-Seller	Ex-Purchaser	Applicant	OA Code
N/A	AvSEPL BHD2	PUNJAB	PUNJAB	-23.16150	23.16150	AvSEPL BHD2	NR/2023/12957/D
N/A	AvSEPL BHD2	J & K	JK&LADAKH	-1.54525	1.54525	AvSEPL BHD2	NR/2023/12958/D
N/A	SINGOLI	UTTARAKHAND	UTTARAKHAND	-1.33000	1.28630	UTTARAKHAND	NR/2023/12961/D
N/A	TSIPL BKN	DELHI	BYPL	-6.33825	6.33825	TSIPL BKN	NR/2023/12963/D
N/A	TSIPL BKN	DELHI	BRPL	-14.78925	14.78925	TSIPL BKN	NR/2023/12968/D
J & K	SPDC-JK	HARYANA	HARYANA	-54.00000	52.24560	HARYANA	NR/2023/12970/D
J & K	BHEP II	HARYANA	HARYANA	-56.16000	54.33600	HARYANA	NR/2023/12971/C
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-6.72000	6.50120	HARYANA	NR/2023/12973/C
HIMACHAL PRADESH	HP-GOVT	UTTAR PRADESH	NPCL(UP)	-6.30000	6.09420	TPTCL	NR/2023/12974/C
N/A	SINGOLI	UTTAR PRADESH	NPCL(UP)	-3.23750	3.13210	HPXL	NR/2023/12975/C
N/A	SAINJ	HIMACHAL PRADESH	HP	-5.37220	5.19720	TPTCL	NR/2023/12976/C
HIMACHAL PRADESH	CHANJUI	DELHI	TPDDL	-4.06580	3.93370	TPDDL	NR/2023/12977/C
DELHI	BYPL	UTTAR PRADESH	AMBASTL	-0.60000	0.58080	PXIL	NR/2023/12979/C
DELHI	BYPL	UTTAR PRADESH	ASIL UP	-1.50000	1.45100	PXIL	NR/2023/12981/C
N/A	ADHPL	UTTAR PRADESH	NPCL(UP)	-6.38250	6.17515	LEXL	NR/2023/12982/C
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-8.25070	7.98280	GBHHPL	NR/2023/12983/C
N/A	AvSEPL BHD2	PUNJAB	PUNJAB	-23.16150	23.16150	AvSEPL BHD2	NR/2023/12985/D
N/A	SINGOLI	UTTARAKHAND	UTTARAKHAND	-1.33000	1.28630	UTTARAKHAND	NR/2023/12989/D
N/A	TSIPL BKN	DELHI	BYPL	-6.30300	6.30300	TSIPL BKN	NR/2023/12992/D
N/A	AvSEPL BHD2	J & K	JK&LADAKH	-1.54525	1.54525	AvSEPL BHD2	NR/2023/12993/D
N/A	TSIPL BKN	DELHI	BRPL	-14.70700	14.70700	TSIPL BKN	NR/2023/12994/D
N/A	SAINJ	HIMACHAL PRADESH	HP	-5.54410	5.36350	TPTCL	NR/2023/12996/C
J & K	SPDC-JK	HARYANA	HARYANA	-46.80000	45.27840	HARYANA	NR/2023/12997/C
J & K	BHEP II	HARYANA	HARYANA	-56.16000	54.33600	HARYANA	NR/2023/12998/C
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-7.18000	6.94580	HARYANA	NR/2023/12999/C
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-8.03430	7.77320	GBHHPL	NR/2023/13001/C
HIMACHAL PRADESH	CHANJUI	DELHI	TPDDL	-3.86810	3.74230	TPDDL	NR/2023/13002/C
DELHI	BYPL	UTTAR PRADESH	ASIL UP	-2.10000	2.03140	PXIL	NR/2023/13006/C
N/A	SINGOLI	UTTAR PRADESH	NPCL(UP)	-4.10750	3.97400	HPXL	NR/2023/13007/C
HIMACHAL PRADESH	MALANA	UTTAR PRADESH	NPCL(UP)	-2.48750	2.40650	LEXL	NR/2023/13008/C
N/A	KWHEP	DELHI	BRPL	-1.07000	1.03525	LEXL	NR/2023/13009/C
N/A	ADHPL	UTTAR PRADESH	NPCL(UP)	-9.62500	9.31218	LEXL	NR/2023/13010/C
DELHI	BYPL	UTTAR PRADESH	AMBASTL	-0.40000	0.38720	LEXL	NR/2023/13011/C
N/A	SINGOLI	UTTARAKHAND	UTTARAKHAND	-1.33000	1.28630	UTTARAKHAND	NR/2023/13012/D
N/A	AvSEPL BHD2	J & K	JK&LADAKH	-1.54525	1.54525	AvSEPL BHD2	NR/2023/13015/D
N/A	AvSEPL BHD2	PUNJAB	PUNJAB	-23.16150	23.16150	AvSEPL BHD2	NR/2023/13017/D
N/A	TSIPL BKN	DELHI	BYPL	-6.23550	6.23550	TSIPL BKN	NR/2023/13018/D
N/A	TSIPL BKN	DELHI	BRPL	-14.54950	14.54950	TSIPL BKN	NR/2023/13020/D
DELHI	BRPL	UTTAR PRADESH	ASIL UP	-1.20000	1.16080	PXIL	NR/2023/13022/C
J & K	SPDC-JK	HARYANA	HARYANA	-46.80000	45.27840	HARYANA	NR/2023/13023/C



Northern Regional Power Committee

Final REA for the Month of MAY, 2023

Table - J

Details of Inter-Regional Bilateral Exchanges (LUs)

From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
WEST BENGAL	CESC	HIMACHAL PRADESH	GBHHPL	-1.19250	-1.19250	PXIL	ER/2023/7759/C
WEST BENGAL	WBSEDCL	RAJASTHAN	VSPL-RAJ	-5.30000	-5.30000	HPXL	ER/2023/7761/C
SIKKIM	SIKKIM	RAJASTHAN	VSPL-RAJ	-1.05000	-1.05000	IEXL	ER/2023/7762/C
ORISSA	VL-CPP 1215	N/A	RSRPL_BKN	-4.37500	-4.37500	HPXL	ER/2023/7764/C
ORISSA	VL-CPP 1215	DELHI	BYPL	-2.10000	-2.10000	HPXL	ER/2023/7765/C
ORISSA	JSL DUBURI	UTTAR PRADESH	BCMLB001	-1.79500	-1.79500	PXIL	ER/2023/7767/C
WEST BENGAL	WBSEDCL	UTTAR PRADESH	PPGCL	-3.20000	-3.20000	HPXL	ER/2023/7786/C
ORISSA	VL-CPP 1215	DELHI	BRPL	-3.50000	-3.50000	HPXL	ER/2023/7807/C
ORISSA	VLSEZ	DELHI	BYPL	-4.41000	-4.41000	HPXL	ER/2023/7811/C
ORISSA	VLSEZ	DELHI	BRPL	-3.50000	-3.50000	IEXL	ER/2023/7814/C
SIKKIM	SIKKIM	N/A	RSRPL_BKN	-1.21250	-1.21250	IEXL	ER/2023/7815/C
ORISSA	VLSEZ	DELHI	BYPL	-4.31000	-4.31000	HPXL	ER/2023/7828/C
SIKKIM	SIKKIM	N/A	RSRPL_BKN	-1.53750	-1.53750	IEXL	ER/2023/7838/C
ORISSA	JSL DUBURI	UTTAR PRADESH	BCMLB001	-0.80000	-0.80000	HPXL	ER/2023/7849/C
SIKKIM	SIKKIM	N/A	RSRPL_BKN	-0.98800	-0.98800	IEXL	ER/2023/7852/C
ORISSA	JSL DUBURI	UTTAR PRADESH	BCMLB001	-1.92000	-1.92000	HPXL	ER/2023/7858/C
SIKKIM	SIKKIM	N/A	RSRPL_BKN	-1.80000	-1.80000	IEXL	ER/2023/7860/C
ORISSA	VLSEZ	HIMACHAL PRADESH	MALANA	-0.80250	-0.80250	IEXL	ER/2023/7861/C
ORISSA	JSL DUBURI	UTTAR PRADESH	BCMLB001	-1.92000	-1.92000	HPXL	ER/2023/7876/C
WEST BENGAL	WBSEDCL	UTTAR PRADESH	PPGCL	-1.20000	-1.20000	HPXL	ER/2023/7879/C
SIKKIM	SIKKIM	N/A	RSRPL_BKN	-0.96000	-0.96000	IEXL	ER/2023/7886/C
ORISSA	VL-CPP 1215	DELHI	BYPL	-0.90000	-0.90000	HPXL	ER/2023/7895/C
ORISSA	JSL DUBURI	UTTAR PRADESH	BCMLB001	-2.04000	-2.04000	HPXL	ER/2023/7897/C
WEST BENGAL	WBSEDCL	UTTAR PRADESH	PPGCL	-2.00000	-2.00000	HPXL	ER/2023/7900/C
WEST BENGAL	WBSEDCL	HIMACHAL PRADESH	HP-GOVT	-14.74500	-14.74500	PXIL	ER/2023/7905/C
WEST BENGAL	WBSEDCL	N/A	KWHEP	-8.46765	-8.46765	PXIL	ER/2023/7906/C
WEST BENGAL	WBSEDCL	N/A	SAINJ	-5.45000	-5.45000	PXIL	ER/2023/7909/C
ORISSA	VL-CPP 1215	HIMACHAL PRADESH	GBHHPL	-2.46750	-2.46750	PXIL	ER/2023/7911/C
WEST BENGAL	CESC	HARYANA	HARYANA	-2.35000	-2.35000	HPXL	ER/2023/7924/C
ORISSA	JSL DUBURI	UTTAR PRADESH	BCMLB001	-2.04000	-2.04000	HPXL	ER/2023/7927/C
ORISSA	VLSEZ	DELHI	BRPL	-8.00000	-8.00000	HPXL	ER/2023/7928/C
ORISSA	VLSEZ	DELHI	BYPL	-3.30000	-3.30000	IEXL	ER/2023/7930/C
WEST BENGAL	WBSEDCL	UTTAR PRADESH	PPGCL	-2.00000	-2.00000	HPXL	ER/2023/7932/C
ORISSA	VLSEZ	HIMACHAL PRADESH	GBHHPL	-2.10000	-2.10000	PXIL	ER/2023/7935/C
WEST BENGAL	WBSEDCL	N/A	KWHEP	-8.97500	-8.97500	PXIL	ER/2023/7937/C
WEST BENGAL	WBSEDCL	HARYANA	HARYANA	-4.00000	-4.00000	PXIL	ER/2023/7938/C
WEST BENGAL	WBSEDCL	N/A	SAINJ	-5.45000	-5.45000	HPXL	ER/2023/7939/C
WEST BENGAL	WBSEDCL	HIMACHAL PRADESH	HP-GOVT	-6.28750	-6.28750	PXIL	ER/2023/7940/C
WEST BENGAL	CESC	HARYANA	HARYANA	-2.01500	-2.01500	HPXL	ER/2023/7941/C
WEST BENGAL	CESC	DELHI	BYPL	-1.40000	-1.40000	IEXL	ER/2023/7951/C



Northern Regional Power Committee
Final REA for the Month of MAY, 2023
Table - J
Details of Inter-Regional Bilateral Exchanges (LUs)

From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
KARNATAKA	PCKL	N/A	SINGOLI	-1.54000	-1.54000	HPXL	SR/2023/5205/C
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-11.49875	-11.49875	TSSPDCL	SR/2023/5208/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-7.09538	-7.09538	TSSPDCL	SR/2023/5209/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-21.52868	-21.52868	TSSPDCL	SR/2023/5211/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-12.75365	-12.75365	TSSPDCL	SR/2023/5212/D
PONDYCHERRY	PONDY	N/A	ABCREPL BHDL2	-8.49565	-8.49565	ABCREPL BHDL2	SR/2023/5213/D
TELANGANA	TSSPDCL	N/A	NOKHRANT BHDL 2	-20.28788	-20.28788	TSSPDCL	SR/2023/5215/C
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-21.52868	-21.52868	TSSPDCL	SR/2023/5224/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-12.75365	-12.75365	TSSPDCL	SR/2023/5225/D
TELANGANA	TSSPDCL	N/A	NOKHRANT BHDL 2	-20.28788	-20.28788	TSSPDCL	SR/2023/5226/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-11.98902	-11.98902	TSSPDCL	SR/2023/5227/D
PONDYCHERRY	PONDY	N/A	ABCREPL BHDL2	-8.42765	-8.42765	ABCREPL BHDL2	SR/2023/5228/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-7.32492	-7.32492	TSSPDCL	SR/2023/5229/D
KARNATAKA	PCKL	N/A	KWHEP	-2.37250	-2.37250	PXIL	SR/2023/5235/C
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-21.52868	-21.52868	TSSPDCL	SR/2023/5242/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-12.75365	-12.75365	TSSPDCL	SR/2023/5243/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-11.90810	-11.90810	TSSPDCL	SR/2023/5244/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-7.21052	-7.21052	TSSPDCL	SR/2023/5245/D
PONDYCHERRY	PONDY	N/A	ABCREPL BHDL2	-8.52985	-8.52985	ABCREPL BHDL2	SR/2023/5247/D
TELANGANA	TSSPDCL	N/A	NOKHRANT BHDL 2	-20.28788	-20.28788	TSSPDCL	SR/2023/5250/D
KERALA	KSEB	HIMACHAL PRADESH	MALANA	-2.64000	-2.64000	IEXL	SR/2023/5257/C
PONDYCHERRY	PONDY	N/A	ABCREPL BHDL2	-8.32690	-8.32690	ABCREPL BHDL2	SR/2023/5266/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-12.75365	-12.75365	TSSPDCL	SR/2023/5270/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-21.52868	-21.52868	TSSPDCL	SR/2023/5271/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-7.26735	-7.26735	TSSPDCL	SR/2023/5272/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-11.85462	-11.85462	TSSPDCL	SR/2023/5273/D
TELANGANA	TSSPDCL	N/A	NOKHRANT BHDL 2	-20.30045	-20.30045	TSSPDCL	SR/2023/5274/D
TAMILNADU	TANGEDCO	N/A	KWHEP	-1.93500	-1.93500	PXIL	SR/2023/5282/C
TAMILNADU	TANGEDCO	N/A	SAINJ	-0.55750	-0.55750	PXIL	SR/2023/5283/C
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-19.89088	-19.89088	TSSPDCL	SR/2023/5287/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-11.78555	-11.78555	TSSPDCL	SR/2023/5288/D
PONDYCHERRY	PONDY	N/A	ABCREPL BHDL2	-8.50485	-8.50485	ABCREPL BHDL2	SR/2023/5289/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-11.66712	-11.66712	TSSPDCL	SR/2023/5290/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-7.15870	-7.15870	TSSPDCL	SR/2023/5291/D
TELANGANA	TSSPDCL	N/A	NOKHRANT BHDL 2	-20.27545	-20.27545	TSSPDCL	SR/2023/5292/D
TELANGANA	TSSPDCL	N/A	NOKHRANT BHDL 2	-20.28795	-20.28795	TSSPDCL	SR/2023/5311/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-18.91818	-18.91818	TSSPDCL	SR/2023/5312/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-11.22315	-11.22315	TSSPDCL	SR/2023/5313/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-11.63575	-11.63575	TSSPDCL	SR/2023/5314/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-7.04880	-7.04880	TSSPDCL	SR/2023/5315/D



Northern Regional Power Committee

Final REA for the Month of MAY, 2023

Table - J

Details of Inter-Regional Bilateral Exchanges (LUs)

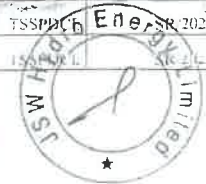
From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-11.54490	-11.54490	TSSPDCL	SR/2023/5474/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-7.01642	-7.01642	TSSPDCL	SR/2023/5475/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-20.06632	-20.06632	TSSPDCL	SR/2023/5476/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-11.88695	-11.88695	TSSPDCL	SR/2023/5477/D
KARNATAKA	PCKL	N/A	KWHEP	-2.42500	-2.42500	PXIL	SR/2023/5488/C
ANDHRA PRADESH	APCPDCL	RAJASTHAN	VSPL-RAJ	-25.68000	-25.68000	IEXL	SR/2023/5494/C
PONDYCHERRY	PONDY	N/A	ABCREPL BHD2	-7.92642	-7.92642	ABCREPL BHD2	SR/2023/5507/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-12.75365	-12.75365	TSSPDCL	SR/2023/5508/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-21.52868	-21.52868	TSSPDCL	SR/2023/5509/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-6.82195	-6.82195	TSSPDCL	SR/2023/5510/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-11.26985	-11.26985	TSSPDCL	SR/2023/5511/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHD2	-21.33108	-21.33108	TSSPDCL	SR/2023/5512/D
TAMILNADU	TANGEDCO	N/A	KWHEP	-0.75250	-0.75250	PXIL	SR/2023/5516/C
TAMILNADU	TANGEDCO	N/A	SAINJ	-0.54000	-0.54000	PXIL	SR/2023/5517/C
PONDYCHERRY	PONDY	N/A	ABCREPL BHD2	-8.31135	-8.31135	ABCREPL BHD2	SR/2023/5541/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHD2	-21.34858	-21.34858	TSSPDCL	SR/2023/5542/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-21.52868	-21.52868	TSSPDCL	SR/2023/5543/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-12.75365	-12.75365	TSSPDCL	SR/2023/5545/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-10.77685	-10.77685	TSSPDCL	SR/2023/5547/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-6.49625	-6.49625	TSSPDCL	SR/2023/5549/D
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	MALANA	-0.71750	-0.71750	IEXL	SR/2023/5562/C
TAMILNADU	TANGEDCO	N/A	SAINJ	-1.27750	-1.27750	PXIL	SR/2023/5563/C
TAMILNADU	TANGEDCO	N/A	ADHPL	-1.63500	-1.63500	IEXL	SR/2023/5566/C
TAMILNADU	TANGEDCO	N/A	KWHEP	-1.10500	-1.10500	PXIL	SR/2023/5570/C
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-20.85068	-20.85068	TSSPDCL	SR/2023/5584/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-12.35605	-12.35605	TSSPDCL	SR/2023/5585/D
PONDYCHERRY	PONDY	N/A	ABCREPL BHD2	-8.36695	-8.36695	ABCREPL BHD2	SR/2023/5586/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-11.18170	-11.18170	TSSPDCL	SR/2023/5587/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-6.75655	-6.75655	TSSPDCL	SR/2023/5588/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHD2	-21.34858	-21.34858	TSSPDCL	SR/2023/5590/D
TAMILNADU	TANGEDCO	RAJASTHAN	VSPL-RAJ	-5.62500	-5.62500	IEXL	SR/2023/5606/C
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHD2	-20.49158	-20.49158	TSSPDCL	SR/2023/5620/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-18.82888	-18.82888	TSSPDCL	SR/2023/5623/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-11.14805	-11.14805	TSSPDCL	SR/2023/5625/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-11.33880	-11.33880	TSSPDCL	SR/2023/5626/D
PONDYCHERRY	PONDY	N/A	ABCREPL BHD2	-7.82338	-7.82338	ABCREPL BHD2	SR/2023/5627/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-6.90840	-6.90840	TSSPDCL	SR/2023/5628/D
ANDHRA PRADESH	APCPDCL	HIMACHAL PRADESH	GBHHPL	-3.50000	-3.50000	PXIL	SR/2023/5633/C
PONDYCHERRY	PONDY	N/A	ABCREPL BHD2	-8.06438	-8.06438	ABCREPL BHD2	SR/2023/5647/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-9.30125	-9.30125	TSSPDCL	SR/2023/5649/D



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From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-15.71918	-15.71918	TSSPDCL	SR/2023/5650/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-21.11108	-21.11108	TSSPDCL	SR/2023/5651/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-6.91170	-6.91170	TSSPDCL	SR/2023/5652/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-11.49050	-11.49050	TSSPDCL	SR/2023/5653/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-10.58400	-10.58400	TSSPDCL	SR/2023/5670/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-17.89518	-17.89518	TSSPDCL	SR/2023/5671/D
PONDYCHERRY	PONDY	N/A	ABCREPL BHDL2	-7.37638	-7.37638	ABCREPL BHDL2	SR/2023/5672/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-6.73405	-6.73405	TSSPDCL	SR/2023/5673/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-11.20232	-11.20232	TSSPDCL	SR/2023/5674/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-20.08202	-20.08202	TSSPDCL	SR/2023/5675/C
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-21.33108	-21.33108	TSSPDCL	SR/2023/5684/D
PONDYCHERRY	PONDY	N/A	ABCREPL BHDL2	-7.50355	-7.50355	ABCREPL BHDL2	SR/2023/5685/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-19.63158	-19.63158	TSSPDCL	SR/2023/5686/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-11.61260	-11.61260	TSSPDCL	SR/2023/5687/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-11.15980	-11.15980	TSSPDCL	SR/2023/5688/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-6.70938	-6.70938	TSSPDCL	SR/2023/5689/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-16.30572	-16.30572	TSSPDCL	SR/2023/5712/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-9.65510	-9.65510	TSSPDCL	SR/2023/5713/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-19.83590	-19.83590	TSSPDCL	SR/2023/5714/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-11.07078	-11.07078	TSSPDCL	SR/2023/5715/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-6.66940	-6.66940	TSSPDCL	SR/2023/5716/D
PONDYCHERRY	PONDY	N/A	ABCREPL BHDL2	-6.79978	-6.79978	ABCREPL BHDL2	SR/2023/5718/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-15.71058	-15.71058	TSSPDCL	SR/2023/5727/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-9.30975	-9.30975	TSSPDCL	SR/2023/5728/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-10.84990	-10.84990	TSSPDCL	SR/2023/5729/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-6.43882	-6.43882	TSSPDCL	SR/2023/5730/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-19.63660	-19.63660	TSSPDCL	SR/2023/5731/D
PONDYCHERRY	PONDY	N/A	ABCREPL BHDL2	-7.38890	-7.38890	ABCREPL BHDL2	SR/2023/5732/D
TAMILNADU	TANGEDCO	N/A	KWHEP	-5.58500	-5.58500	PXIL	SR/2023/5737/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	HP-GOVT	-10.78500	-10.78500	PXIL	SR/2023/5738/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	MALANA	-3.85000	-3.85000	IEXL	SR/2023/5741/C
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-15.06998	-15.06998	TSSPDCL	SR/2023/5748/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-8.92745	-8.92745	TSSPDCL	SR/2023/5749/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-20.55012	-20.55012	TSSPDCL	SR/2023/5750/D
PONDYCHERRY	PONDY	N/A	ABCREPL BHDL2	-6.14215	-6.14215	ABCREPL BHDL2	SR/2023/5751/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-8.58368	-8.58368	TSSPDCL	SR/2023/5752/C
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.10312	-5.10312	TSSPDCL	SR/2023/5753/C
KERALA	KSEB	HIMACHAL PRADESH	MALANA	-2.88500	-2.88500	IEXL	SR/2023/5771/C
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-19.03358	-19.03358	TSSPDCL	SR/2023/5776/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-11.20000	-11.20000	TSSPDCL	SR/2023/5777/D



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MAHARASHTRA	TPC MSEB	N/A	RSRPL BKN	-12.14500	-12.14500	IEXL	WR/2023/14852/C
DNH	DNHDDPDCI	N/A	SORANG HEP	-5.15000	-5.15000	IEXL	WR/2023/14858/C
MAHARASHTRA	TPC MSEB	RAJASTHAN	VSPL-RAJ	-5.57250	-5.57250	IEXL	WR/2023/14860/C
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-0.46300	-0.46300	MANIKARAN	WR/2023/14861/C
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-4.69900	-4.69900	MANIKARAN	WR/2023/14863/D
GOA	GOA Beneficiary	N/A	SBSRPCIPL BKN	-3.62750	-3.62750	MANIKARAN	WR/2023/14866/D
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHDL2	-15.51372	-15.51372	ABCREPL BHDL2	WR/2023/14867/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-5.21400	-5.21400	MANIKARAN	WR/2023/14868/D
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHDL2	-17.32578	-17.32578	AcHPPL BHDL2	WR/2023/14871/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-64.93250	-64.93250	AEML	WR/2023/14872/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-12.15250	-12.15250	AEML	WR/2023/14873/D
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-17.33750	-17.33750	TPGEL BKN	WR/2023/14878/C
MAHARASHTRA	TPC MSEB	N/A	RSRPL BKN	-10.08750	-10.08750	IEXL	WR/2023/14890/C
MAHARASHTRA	MBPL	UTTAR PRADESH	BCMLB001	-0.90200	-0.90200	IEXL	WR/2023/14896/C
DNH	DNHDDPDCI	N/A	SORANG HEP	-2.58000	-2.58000	IEXL	WR/2023/14898/C
BALCO WR	BALCO LOAD	N/A	SINGOLI	-3.58300	-3.58300	HPXL	WR/2023/14900/C
MAHARASHTRA	TPC MSEB	N/A	KWHEP	-1.49000	-1.49000	PXIL	WR/2023/14902/C
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHDL2	-17.49340	-17.49340	AcHPPL BHDL2	WR/2023/14903/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-62.57500	-62.57500	AEML	WR/2023/14904/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-4.07800	-4.07800	MANIKARAN	WR/2023/14905/D
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHDL2	-16.66812	-16.66812	ABCREPL BHDL2	WR/2023/14906/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-5.41400	-5.41400	MANIKARAN	WR/2023/14908/D
GOA	GOA Beneficiary	N/A	SBSRPCIPL BKN	-3.62750	-3.62750	MANIKARAN	WR/2023/14909/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-12.29000	-12.29000	AEML	WR/2023/14910/C
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-17.33750	-17.33750	TPGEL BKN	WR/2023/14911/C
DNH	DNHDDPDCI	N/A	SORANG HEP	-2.72000	-2.72000	IEXL	WR/2023/14922/C
MAHARASHTRA	MBPL	UTTAR PRADESH	BCMLB001	-0.90200	-0.90200	IEXL	WR/2023/14926/C
MAHARASHTRA	TPC MSEB	N/A	RSRPL BKN	-9.28750	-9.28750	IEXL	WR/2023/14927/C
MAHARASHTRA	TPC MSEB	RAJASTHAN	VSPL-RAJ	-9.82250	-9.82250	IEXL	WR/2023/14928/C
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-4.83700	-4.83700	MANIKARAN	WR/2023/14936/D
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHDL2	-16.81438	-16.81438	AcHPPL BHDL2	WR/2023/14937/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-62.69750	-62.69750	AEML	WR/2023/14938/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-26.22500	-26.22500	AEML	WR/2023/14939/D
GOA	GOA Beneficiary	N/A	SBSRPCIPL BKN	-3.62750	-3.62750	MANIKARAN	WR/2023/14940/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-5.00400	-5.00400	MANIKARAN	WR/2023/14941/D
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHDL2	-16.10848	-16.10848	ABCREPL BHDL2	WR/2023/14942/D
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-17.32500	-17.32500	TPGEL BKN	WR/2023/14944/C
MAHARASHTRA	TPC MSEB	N/A	KWHEP	-2.66000	-2.66000	PXIL	WR/2023/14946/C
MAHARASHTRA	TPC MSEB	N/A	SAINI	-1.09000	-1.09000	PXIL	WR/2023/14947/C
MAHARASHTRA	MBPL	UTTAR PRADESH	BCMLB001	-0.85500	-0.85500	IEXL	WR/2023/14952/C



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From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-62.01250	-62.01250	AEML	WR/2023/15166/C
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-47.42000	-47.42000	AEML	WR/2023/15167/C
BALCO WR	BALCO LOAD	N/A	RSRPL BKN	-5.38275	-5.38275	HPXL	WR/2023/15168/C
BALCO WR	BALCO LOAD	RAJASTHAN	MYTRAHVAYU	-1.81875	-1.81875	HPXL	WR/2023/15172/C
MAHARASHTRA	MBPL	UTTAR PRADESH	BCMLB001	-0.41800	-0.41800	IEXL	WR/2023/15173/C
DNH	DNHDDPDCL	N/A	SORANG HEP	-6.05000	-6.05000	IEXL	WR/2023/15174/C
MAHARASHTRA	TPC MSEB	N/A	RSRPL BKN	-5.00750	-5.00750	IEXL	WR/2023/15187/C
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-0.66000	-0.66000	MANIKARAN	WR/2023/15193/C
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-5.91100	-5.91100	MANIKARAN	WR/2023/15194/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-5.39400	-5.39400	MANIKARAN	WR/2023/15196/D
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHD2	-19.38985	-19.38985	AcHPPL BHD2	WR/2023/15197/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-60.68500	-60.68500	AEML	WR/2023/15198/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-56.03250	-56.03250	AEML	WR/2023/15199/D
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-17.88750	-17.88750	TPGEL BKN	WR/2023/15200/D
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHD2	-16.65190	-16.65190	ABCREPL BHD2	WR/2023/15201/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-4.47000	-4.47000	MANIKARAN	WR/2023/15202/C
GUJRAT	TPLD	N/A	SORANG HEP	-5.31000	-5.31000	IEXL	WR/2023/15208/C
DNH	DNHDDPDCL	N/A	SORANG HEP	-1.41000	-1.41000	IEXL	WR/2023/15209/C
MAHARASHTRA	MBPL	UTTAR PRADESH	BCMLB001	-0.30100	-0.30100	IEXL	WR/2023/15211/C
MAHARASHTRA	TPC MSEB	N/A	RSRPL BKN	-3.16000	-3.16000	IEXL	WR/2023/15214/C
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-5.60400	-5.60400	MANIKARAN	WR/2023/15217/D
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHD2	-18.69525	-18.69525	AcHPPL BHD2	WR/2023/15218/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-5.09900	-5.09900	MANIKARAN	WR/2023/15219/D
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHD2	-16.09428	-16.09428	ABCREPL BHD2	WR/2023/15220/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-44.52750	-44.52750	AEML	WR/2023/15221/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-47.23250	-47.23250	AEML	WR/2023/15222/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-4.47000	-4.47000	MANIKARAN	WR/2023/15224/D
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-17.88750	-17.88750	TPGEL BKN	WR/2023/15225/D
MAHARASHTRA	TPC MSEB	N/A	KWHEP	-2.12750	-2.12750	PXIL	WR/2023/15229/C
GUJRAT	TPLD	N/A	SORANG HEP	-5.40000	-5.40000	IEXL	WR/2023/15231/C
DNH	DNHDDPDCL	N/A	SORANG HEP	-1.79000	-1.79000	IEXL	WR/2023/15235/C
MAHARASHTRA	TPC MSEB	N/A	RSRPL BKN	-10.24500	-10.24500	IEXL	WR/2023/15240/C
MAHARASHTRA	MBPL	UTTAR PRADESH	BCMLB001	-0.52900	-0.52900	IEXL	WR/2023/15241/C
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-17.18750	-17.18750	TPGEL BKN	WR/2023/15245/D
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHD2	-11.74410	-11.74410	ABCREPL BHD2	WR/2023/15246/D
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHD2	-13.23178	-13.23178	AcHPPL BHD2	WR/2023/15248/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-5.18300	-5.18300	MANIKARAN	WR/2023/15249/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-4.47000	-4.47000	MANIKARAN	WR/2023/15250/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-47.45500	-47.45500	AEML	WR/2023/15251/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-4.41000	-4.41000	MANIKARAN	WR/2023/15252/D



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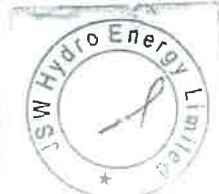
Details of Inter-Regional Bilateral Exchanges (LUs)

From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-47.04000	-47.04000	AEML	WR/2023/15253/D
MAHARASHTRA	TPC MSEB	N/A	KWIIEP	-1.92000	-1.92000	PXIL	WR/2023/15256/C
DNH	DNHDDPDCL	N/A	SORANG HEP	-6.76000	-6.76000	IEXL	WR/2023/15261/C
MAHARASHTRA	TPC MSEB	N/A	RSRPL BKN	-9.27000	-9.27000	IEXL	WR/2023/15268/C
MAHARASHTRA	MBPL	UTTAR PRADESH	BCMLB001	-0.63400	-0.63400	IEXL	WR/2023/15269/C
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHD2	-18.30872	-18.30872	AcHPPL BHD2	WR/2023/15270/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-49.81000	-49.81000	AEML	WR/2023/15271/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-50.00750	-50.00750	AEML	WR/2023/15272/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-4.47000	-4.47000	MANIKARAN	WR/2023/15273/D
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHD2	-16.47145	-16.47145	ABCREPL BHD2	WR/2023/15275/D
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-17.02500	-17.02500	TPGEL BKN	WR/2023/15276/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-5.48600	-5.48600	MANIKARAN	WR/2023/15277/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-5.30400	-5.30400	MANIKARAN	WR/2023/15278/D
DNH	DNHDDPDCL	N/A	SORANG HEP	-7.43000	-7.43000	IEXL	WR/2023/15289/C
MAHARASHTRA	MBPL	N/A	RSRPL BKN	-0.36000	-0.36000	HPXL	WR/2023/15290/C
MAHARASHTRA	GPEPL	UTTAR PRADESH	BCMLB001	-0.58600	-0.58600	HPXL	WR/2023/15292/C
MAHARASHTRA	MBPL	UTTAR PRADESH	BCMLB001	-0.26200	-0.26200	HPXL	WR/2023/15295/C
MAHARASHTRA	TPC MSEB	N/A	RSRPL BKN	-11.69750	-11.69750	IEXL	WR/2023/15296/C
MAHARASHTRA	KRCIPPL	UTTAR PRADESH	BCMLB001	-0.50300	-0.50300	HPXL	WR/2023/15297/C
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-0.69600	-0.69600	MANIKARAN	WR/2023/15299/C
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-17.17500	-17.17500	TPGEL BKN	WR/2023/15300/D
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHD2	-18.80825	-18.80825	AcHPPL BHD2	WR/2023/15301/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-4.47000	-4.47000	MANIKARAN	WR/2023/15302/D
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHD2	-15.99668	-15.99668	ABCREPL BHD2	WR/2023/15304/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-5.31700	-5.31700	MANIKARAN	WR/2023/15305/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-61.69500	-61.69500	AEML	WR/2023/15306/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-34.74000	-34.74000	AEML	WR/2023/15307/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-6.37500	-6.37500	MANIKARAN	WR/2023/15308/D
MAHARASHTRA	MBPL	N/A	RSRPL BKN	-0.43700	-0.43700	HPXL	WR/2023/15314/C
MAHARASHTRA	TPC MSEB	N/A	SAINJ	-1.18750	-1.18750	PXIL	WR/2023/15315/C
MAHARASHTRA	TPC MSEB	N/A	KWHEP	-3.11500	-3.11500	PXIL	WR/2023/15317/C
MAHARASHTRA	TPC MSEB	N/A	RSRPL BKN	-14.33750	-14.33750	IEXL	WR/2023/15318/C
AMNSIL WR	AMNSIL	N/A	SORANG HEP	-7.81000	-7.81000	IEXL	WR/2023/15322/C
MAHARASHTRA	KRCIPPL	UTTAR PRADESH	BCMLB001	-0.49500	-0.49500	HPXL	WR/2023/15323/C
MAHARASHTRA	GPEPL	UTTAR PRADESH	BCMLB001	-0.57600	-0.57600	HPXL	WR/2023/15326/C
MAHARASHTRA	MBPL	UTTAR PRADESH	BCMLB001	-0.29000	-0.29000	HPXL	WR/2023/15327/C
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHD2	-15.99668	-15.99668	ABCREPL BHD2	WR/2023/15330/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-63.70250	-63.70250	AEML	WR/2023/15331/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-21.83250	-21.83250	AEML	WR/2023/15332/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-4.28000	-4.28000	MANIKARAN	WR/2023/15333/D



Northern Regional Power Committee
Final REA for the Month of MAY, 2023
Table - J
Details of Inter-Regional Bilateral Exchanges (LUs)

From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHD2	-18.80825	-18.80825	AcHPPL BHD2	WR/2023/15334/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-6.34100	-6.34100	MANIKARAN	WR/2023/15336/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-3.96750	-3.96750	MANIKARAN	WR/2023/15338/D
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-17.26250	-17.26250	TPGEL BKN	WR/2023/15339/D
MAHARASHTRA	AEML	HIMACHAL PRADESH	GBHPL	-1.00000	-1.00000	HPXL	WR/2023/15346/C
MAHARASHTRA	TPC MSEB	N/A	RWHEP	-1.11750	-1.11750	PXIL	WR/2023/15347/C
MAHARASHTRA	MBPL	UTTAR PRADESH	BCMLB001	-0.28600	-0.28600	HPXL	WR/2023/15355/C
MAHARASHTRA	KRCIPPL	UTTAR PRADESH	BCMLB001	-0.47500	-0.47500	HPXL	WR/2023/15357/C
MAHARASHTRA	GPEPL	UTTAR PRADESH	BCMLB001	-0.56300	-0.56300	HPXL	WR/2023/15358/C
MAHARASHTRA	MBPL	N/A	RSRPL BKN	-0.39400	-0.39400	HPXL	WR/2023/15360/C
DNH	DNHDDPDCL	N/A	SORANG HEP	-8.01000	-8.01000	IEXL	WR/2023/15363/C
MAHARASHTRA	TPC MSEB	N/A	RSRPL BKN	-12.81500	-12.81500	IEXL	WR/2023/15365/C
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-4.33400	-4.33400	MANIKARAN	WR/2023/15373/D
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHD2	-16.21160	-16.21160	ABCREPL BHD2	WR/2023/15374/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-3.72750	-3.72750	MANIKARAN	WR/2023/15375/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-61.37500	-61.37500	AEML	WR/2023/15377/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-5.34400	-5.34400	MANIKARAN	WR/2023/15378/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-53.81750	-53.81750	AEML	WR/2023/15379/D
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHD2	-18.71418	-18.71418	AcHPPL BHD2	WR/2023/15380/D
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-17.26250	-17.26250	TPGEL BKN	WR/2023/15383/C
MAHARASHTRA	MBPL	UTTAR PRADESH	BCMLB001	-0.35500	-0.35500	HPXL	WR/2023/15386/C
MAHARASHTRA	KRCIPPL	UTTAR PRADESH	BCMLB001	-0.07700	-0.07700	HPXL	WR/2023/15387/C
MAHARASHTRA	GPEPL	UTTAR PRADESH	BCMLB001	-0.24000	-0.24000	HPXL	WR/2023/15388/C
DNH	DNHDDPDCL	N/A	SORANG HEP	-7.95000	-7.95000	IEXL	WR/2023/15389/C
MAHARASHTRA	MBPL	N/A	RSRPL BKN	-0.27600	-0.27600	HPXL	WR/2023/15390/C
MAHARASHTRA	TPC MSEB	N/A	RSRPL BKN	-5.29000	-5.29000	IEXL	WR/2023/15395/C
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-5.20400	-5.20400	MANIKARAN	WR/2023/15404/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-4.47000	-4.47000	MANIKARAN	WR/2023/15405/D
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHD2	-15.85300	-15.85300	ABCREPL BHD2	WR/2023/15406/D
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHD2	-18.38385	-18.38385	AcHPPL BHD2	WR/2023/15407/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-6.04200	-6.04200	MANIKARAN	WR/2023/15409/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-62.52500	-62.52500	AEML	WR/2023/15410/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-54.74250	-54.74250	AEML	WR/2023/15411/D
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-17.26250	-17.26250	TPGEL BKN	WR/2023/15417/C
BALCO WR	BALCO LOAD	N/A	RSRPL BKN	-3.96500	-3.96500	HPXL	WR/2023/15422/C
BALCO WR	BALCO LOAD	N/A	AHEJ4L W FTG1	-6.09500	-6.09500	PXIL	WR/2023/15423/C
MAHARASHTRA	TPC MSEB	RAJASTHAN	VSPL-RAJ	-9.36000	-9.36000	IEXL	WR/2023/15431/C
DNH	DNHDDPDCL	N/A	SORANG HEP	-8.02000	-8.02000	IEXL	WR/2023/15433/C
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-4.45500	-4.45500	MANIKARAN	WR/2023/15438/D
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHD2	-16.62285	-16.62285	ABCREPL BHD2	WR/2023/15439/D



Northern Regional Power Committee

Final REA for the Month of MAY, 2023

Table - J

Details of Inter-Regional Bilateral Exchanges (LUs)

From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-6.33100	-6.33100	MANIKARAN	WR/2023/15440/D
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHD2	-18.74705	-18.74705	AcHPPL BHD2	WR/2023/15441/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-4.83200	-4.83200	MANIKARAN	WR/2023/15442/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-62.83750	-62.83750	AEML	WR/2023/15446/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-57.99000	-57.99000	AEML	WR/2023/15447/D
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-16.90000	-16.90000	TPGEL BKN	WR/2023/15450/C
MAHARASHTRA	TPC MSEB	N/A	KWHEP	-6.74500	-6.74500	PXIL	WR/2023/15452/C
MAHARASHTRA	MBPL	N/A	RSRPL BKN	-0.36000	-0.36000	HPXL	WR/2023/15456/C
MAHARASHTRA	TPC MSEB	N/A	RSRPL BKN	-11.09000	-11.09000	IEXL	WR/2023/15463/C
DNH	DNHDDPDCL	N/A	SORANG HEP	-10.27000	-10.27000	IEXL	WR/2023/15465/C
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHD2	-17.39845	-17.39845	AcHPPL BHD2	WR/2023/15469/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-6.47200	-6.47200	MANIKARAN	WR/2023/15477/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-60.25250	-60.25250	AEML	WR/2023/15478/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-56.49250	-56.49250	AEMI	WR/2023/15479/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-4.39000	-4.39000	MANIKARAN	WR/2023/15480/D
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-16.90000	-16.90000	TPGEL BKN	WR/2023/15481/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-4.99900	-4.99900	MANIKARAN	WR/2023/15482/D
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHD2	-16.73378	-16.73378	ABCREPL BHD2	WR/2023/15483/D
MAHARASHTRA	TPC MSEB	N/A	KWHEP	-4.03250	-4.03250	PXIL	WR/2023/15487/C
MAHARASHTRA	TPC MSEB	HIMACHAL PRADESH	HP-GOVT	-2.02250	-2.02250	PXIL	WR/2023/15490/C
MAHARASHTRA	MBPL	N/A	RSRPL BKN	-0.46200	-0.46200	HPXL	WR/2023/15495/C
DNH	DNHDDPDCL	N/A	SORANG HEP	-11.76000	-11.76000	IEXL	WR/2023/15496/C
MAHARASHTRA	TPC MSEB	RAJASTHAN	VSPL-RAJ	-8.60750	-8.60750	IEXL	WR/2023/15499/C
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-0.40800	-0.40800	MANIKARAN	WR/2023/15511/C
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-54.18250	-54.18250	AEML	WR/2023/15513/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-56.40000	-56.40000	AEML	WR/2023/15514/D
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHD2	-15.64675	-15.64675	ABCREPL BHD2	WR/2023/15515/D
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHD2	-16.23652	-16.23652	AcHPPL BHD2	WR/2023/15516/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-4.24500	-4.24500	MANIKARAN	WR/2023/15517/D
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-15.87250	-15.87250	TPGEL BKN	WR/2023/15521/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-4.28400	-4.28400	MANIKARAN	WR/2023/15522/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-6.52800	-6.52800	MANIKARAN	WR/2023/15523/D
MAHARASHTRA	MBPL	N/A	RSRPL BKN	-0.47600	-0.47600	HPXL	WR/2023/15528/C
MAHARASHTRA	TPC MSEB	HIMACHAL PRADESH	HP-GOVT	-8.67500	-8.67500	PXIL	WR/2023/15531/C
MAHARASHTRA	GPEPL	UTTAR PRADESH	BCMLB001	-0.56100	-0.56100	PXIL	WR/2023/15536/C
MAHARASHTRA	MBPL	UTTAR PRADESH	BCMLB001	-0.28300	-0.28300	PXIL	WR/2023/15537/C
MAHARASHTRA	KRCIPPL	UTTAR PRADESH	BCMLB001	-0.46600	-0.46600	PXIL	WR/2023/15538/C
DNH	DNHDDPDCL	N/A	SORANG HEP	-11.76000	-11.76000	IEXL	WR/2023/15544/C
DNH	DNHDDPDCL	N/A	AHEJ4L W FTG1	-4.68500	-4.68500	PXIL	WR/2023/15545/C
MAHARASHTRA	TPC MSEB	N/A	RSRPL BKN	-10.82500	-10.82500	IEXL	WR/2023/15546/C



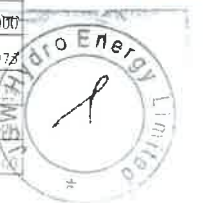
Northern Regional Power Committee

Final REA for the Month of MAY, 2023

Table - K

Details of Scheduled Energy Exchange (LUs) Through Power Exchange

Power Exchange	To Entity	EX-NR Periphery	EX-NR State Periphery
GDAM IEX	DELHI	81.426475	78.557650
GDAM IEX	HARYANA	10.898450	10.507400
GDAM IEX	PUNJAB	35.486875	34.247550
GDAM IEX	RAILWAYS	36.806475	35.502975
GDAM IEX	UTTAR PRADESH	37.929700	36.602500
GDAM IEX	ADANI SEJ2PL	-14.290000	-14.290000
GDAM IEX	HIMACHAL PRADESH	-46.764400	-46.764400
GDAM IEX	J & K	-68.469550	-68.469550
GDAM IEX	PUNJAB	-10.171500	-10.171500
GDAM IEX	RAJASTHAN	-52.351350	-52.351350
GDAM IEX	RENEW SURYA RAVI	-125.178450	-125.178450
GDAM IEX	SINGOLI BHATWARI	-129.851775	-129.851775
GDAM IEX	UTTAR PRADESH	-33.211750	-33.211750
IEX	CHANDIGARH	8.453675	8.154300
IEX	DELHI	51.515075	49.702925
IEX	HARYANA	831.762275	801.724675
IEX	HIMACHAL PRADESH	629.265000	607.238600
IEX	J & K	2540.870050	2452.044575
IEX	NEPAL	194.078125	187.314825
IEX	PUNJAB	1607.131300	1552.165625
IEX	RAILWAYS	142.750875	137.820850
IEX	RAJASTHAN	3149.584925	3038.076700
IEX	UTTAR PRADESH	2362.556975	2280.299150
IEX	UTTARAKHAND	654.860200	631.334175
IEX	ADANI SE JODHPUR 2 L	-116.922325	-116.922325
IEX	ADANI SEJ2PL	-0.547500	-0.547500
IEX	ADHPL	-210.390500	-210.390500
IEX	ANTA RF	-13.590750	-13.590750
IEX	AURAIYA RF	-19.755925	-19.755925
IEX	BUDHIL HEP	-27.148000	-27.148000
IEX	CHANDIGARH	-397.459925	-397.459925
IEX	DADRI RF	-26.377575	-26.377575
IEX	DELHI	-1794.735325	-1794.735325
IEX	HARYANA	-775.526975	-775.526975
IEX	HIMACHAL PRADESH	-856.415750	-856.415750
IEX	J & K	-101.734375	-101.734375
IEX	KARCHAM WANGTOO	-173.172500	-173.172500
IEX	PUNJAB	-734.993075	-734.993075
IEX	RAJASTHAN	-609.836075	-609.836075
IEX	RENEW SURYA RAVI	-178.146700	-178.146700
IEX	SAINJ HEP	-150.216500	-150.216500
IEX	SCL Beawar	-29.725000	-29.725000
IEX	SINGOLI BHATWARI	-42.027875	-42.027875
IEX	SORANG HEP	-9.800000	-9.800000
IEX	UTTAR PRADESH	-4010.592975	-4010.592975
IEX	UTTARAKHAND	-651.638225	-651.638225
PXI	UTTAR PRADESH	4.560000	4.560000
PXI	UTTAR PRADESH	-11.062500	-11.062500



RTM HPX	HARYANA	-17.245000	-17.245000
RTM IEX	CHANDIGARH	5.837325	5.624300
RTM IEX	DELHI	309.111325	298.363275
RTM IEX	HARYANA	603.884650	582.355725
RTM IEX	HIMACHAL PRADESH	198.720775	191.811025
RTM IEX	J & K	1609.276050	1553.425700
RTM IEX	PUNJAB	799.394050	771.478525
RTM IEX	RAILWAYS	30.823575	29.738525
RTM IEX	RAJASTHAN	2658.147375	2564.801675
RTM IEX	SAINJ HEP	2.970150	2.870525
RTM IEX	SCL Beawar	5.091250	4.922225
RTM IEX	SINGOLI BHATWARI	3.231725	3.124500
RTM IEX	UTTAR PRADESH	1537.293625	1484.061100
RTM IEX	UTTARAKHAND	104.849075	101.091925
RTM IEX	ADHPL	-28.489750	-28.489750
RTM IEX	ANTA RF	-3.006625	-3.006625
RTM IEX	AURAIYA RF	-19.106550	-19.106550
RTM IEX	BUDHIL HEP	-6.207500	-6.207500
RTM IEX	CHANDIGARH	-2.105000	-2.105000
RTM IEX	DADRI RF	-29.326050	-29.326050
RTM IEX	DELHI	-1444.612425	-1444.612425
RTM IEX	HARYANA	-498.037125	-498.037125
RTM IEX	HIMACHAL PRADESH	-1159.702750	-1159.702750
RTM IEX	J & K	-230.208350	-230.208350
RTM IEX	KARCHAM WANGTOO	-20.596750	-20.596750
RTM IEX	PUNJAB	-631.385425	-631.385425
RTM IEX	RAJASTHAN	-1613.865325	-1613.865325
RTM IEX	RENEW SURYA RAVI	-5.880575	-5.880575
RTM IEX	SAINJ HEP	-87.571250	-87.571250
RTM IEX	SCL Beawar	-9.947500	-9.947500
RTM IEX	SINGOLI BHATWARI	-34.327500	-34.327500
RTM IEX	SORANG HEP	-26.220000	-26.220000
RTM IEX	UTTAR PRADESH	-586.782625	-586.782625
RTM IEX	UTTARAKHAND	-466.827900	-466.827900



Northern Regional Power Committee
Final REA for the Month of JUNE, 2023

Table - I
Details of Intra-Regional Scheduled Bilateral Exchanges (LUs)

From State/Station	From Utility	To State	To Utility	Ex-Seller	Ex-Purchaser	Applicant	OA Code
RAJASTHAN	RAJ SOLAR	PUNJAB	PUNJAB	-40.45500	40.45500	NVVNL	LT-16
RAJASTHAN	RAJ SOLAR	UTTAR PRADESH	UPPCL	-92.54580	92.54580	NVVNL	LT-17
N/A	KWHEP	HARYANA	HARYANA	-1049.68085	1015.96122	PTC	LT-25
N/A	KWHEP	UTTAR PRADESH	UPPCL	-1049.68085	1015.96122	PTC	LT-26
N/A	KWHEP	RAJASTHAN	RAJASTHAN	-545.84290	528.30932	PTC	LT-27
RAJASTHAN	RAJ SOLAR	DELHI	TPDDL	-28.15010	28.15010	SECI Trader	LT-31
RAJASTHAN	RAJ SOLAR	HARYANA	HARYANA	-119.16292	119.16292	SECI Trader	LT-32
RAJASTHAN	RAJ SOLAR	DELHI	BYPL	-28.15525	28.15525	SECI Trader	LT-35
RAJASTHAN	RAJ SOLAR	DELHI	BRPL	-28.80365	28.80365	SECI Trader	LT-36
RAJASTHAN	RAJ SOLAR	HIMACHAL PRADESH	HP	-28.80388	28.80388	SECI Trader	LT-37
UTTAR PRADESH	ALAKNANDA	UTTARAKHAND	UTTARAKHAND	-164.47200	159.18720	UPPCL	LT-38
RAJASTHAN	RAJ SOLAR	PUNJAB	PUNJAB	-50.80082	50.80082	SECI Trader	LT-42
N/A	KWHEP	HARYANA	HARYANA	-923.72528	894.05920	PTC	LT-54
N/A	KWHEP	PUNJAB	PUNJAB	-1049.68085	1015.96122	PTC	LT-56
HIMACHAL PRADESH	SHEPL HP	DELHI	TPDDL	-59.03338	57.13822	SHEPL HP	LT-59
N/A	AvRHNPL BKN	HARYANA	HARYANA	-503.67892	503.67892	AvRHNPL BKN	M NR 2022 01
UTTARAKHAND	UTTARAKHAND	HARYANA	HARYANA	-91.20000	88.28400	HARYANA	NR/2023/10785/A
HIMACHAL PRADESH	HP	PUNJAB	PUNJAB	-1457.40000	1410.36720	APPCPL	NR/2023/10938/A
HIMACHAL PRADESH	HP	PUNJAB	PUNJAB	-468.00000	452.89440	APPCPL	NR/2023/10940/A
HIMACHAL PRADESH	HP	DELHI	BYPL	-60.28800	58.33840	APPCPL	NR/2023/10947/A
HIMACHAL PRADESH	HP-GOVT	UTTAR PRADESH	UPPCL	-149.73000	144.89950	TPTCL	NR/2023/10994/A
UTTARAKHAND	UTTARAKHAND	DELHI	BYPL	-120.00000	116.17200	APPCPL	NR/2023/11068/A
N/A	KWHEP	DELHI	BRPL	-380.50008	368.26662	TPTCL	NR/2023/11266/A
HIMACHAL PRADESH	HP-GOVT	UTTAR PRADESH	UPPCL	-329.40600	318.77890	TPTCL	NR/2023/11445/A
HIMACHAL PRADESH	HP-GOVT	DELHI	BRPL	-51.20160	49.53600	IPICL	NR/2023/11447/A
N/A	SCLTPS	UTTAR PRADESH	UPPCL	-37.08000	35.86980	SCL	NR/2023/11636/A
HIMACHAL PRADESH	HP	DELHI	BRPL	-140.67200	136.13120	APPCPL	NR/2023/12169/A
HIMACHAL PRADESH	HP-GOVT	UTTAR PRADESH	UPPCL	-164.70300	159.38450	TPTCL	NR/2023/12247/A
RAJASTHAN	RUVNL	UTTAR PRADESH	UPPCL	-740.19000	716.29500	UPPCL	NR/2023/12526/A
RAJASTHAN	RUVNL	UTTAR PRADESH	UPPCL	-2689.32000	2602.51400	UPPCL	NR/2023/12527/A
N/A	SCLTPS	UTTAR PRADESH	UPPCL	-509.69350	493.33510	SCL	NR/2023/12578/A
N/A	SCLTPS	UTTARAKHAND	UTTARAKHAND	-648.00000	626.83920	IEXL	NR/2023/12584/A
RAJASTHAN	SREE-RJ	UTTAR PRADESH	UPPCL	-215.54500	208.58750	SCL	NR/2023/12601/A
J & K	JK&LADAKH	UTTAR PRADESH	UPPCL	-180.00000	174.18600	UPPCL	NR/2023/12658/A
J & K	JK&LADAKH	UTTAR PRADESH	UPPCL	-810.00000	783.84900	UPPCL	NR/2023/12659/A
HIMACHAL PRADESH	HP	DELHI	BRPL	-468.00000	452.89440	MANIKARAN	NR/2023/12813/F
HIMACHAL PRADESH	HP	DELHI	BRPL	-624.60000	604.45440	MANIKARAN	NR/2023/12814/F
HIMACHAL PRADESH	GBHHPL	UTTAR PRADESH	UPPCL	-72.00000	69.64200	GBHHPL	NR/2023/12851/F
HIMACHAL PRADESH	SHPPBPL	DELHI	BAL184	-2.67225	2.60168	SHPPBPL	NR/2023/12915/F
HIMACHAL PRADESH	SHPPBPL	DELHI	BAL224	-3.64785	3.51630	SHPPBPL	NR/2023/12916/F

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Northern Regional Power Committee

Final REA for the Month of JUNE, 2023

Table - I

Details of Intra-Regional Scheduled Bilateral Exchanges (LUs)

From State/Station	From Utility	To State	To Utility	Ex-Seller	Ex-Purchaser	Applicant	OA Code
HIMACHAL PRADESH	MALANA	UTTAR PRADESH	NPCL(UP)	-3.94250	3.81715	IEXL	NR/2023/13841/C
UTTAR PRADESH	LAPL-UP	DELHI	BYPL	-2.10000	2.03280	KEIPL	NR/2023/13844/D
N/A	SINGOLI	UTTARAKHAND	UTTARAKHAND	-2.30200	2.22838	UTTARAKHAND	NR/2023/13846/D
N/A	SORANG HEP	DELHI	TPDDL	-4.70000	4.55100	NVVNL	NR/2023/13847/D
N/A	AvSEPL BHD2	PUNJAB	PUNJAB	-23.65100	23.65100	AvSEPL BHD2	NR/2023/13849/D
N/A	AvSEPL BHD2	J & K	JK&LADAKH	-1.57775	1.57775	AvSEPL BHD2	NR/2023/13850/D
N/A	TSIPL BKN	DELHI	BRPL	-14.49570	14.49570	TSIPL BKN	NR/2023/13854/D
N/A	TSIPL BKN	DELHI	BYPL	-6.21242	6.21242	TSIPL BKN	NR/2023/13855/D
N/A	SAINJ	HIMACHAL PRADESH	HP	-10.61620	10.27840	TPTCL	NR/2023/13857/D
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-8.87460	8.59210	GBHHPL	NR/2023/13860/C
HIMACHAL PRADESH	GBHHPL	DELHI	BYPL	-2.40000	2.32320	GMRETL	NR/2023/13861/C
J & K	SPDC-JK	HARYANA	HARYANA	-36.00000	34.85520	HARYANA	NR/2023/13868/C
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-7.92000	7.66800	HARYANA	NR/2023/13869/C
HIMACHAL PRADESH	CHANJUII	DELHI	TPDDL	-4.64280	4.49510	TPDDL	NR/2023/13870/C
DELHI	BYPL	UTTAR PRADESH	ASIL UP	-2.10000	2.03350	PXIL	NR/2023/13872/C
N/A	SINGOLI	UTTAR PRADESH	NPCL(UP)	-13.55500	13.12418	HPXL	NR/2023/13875/C
HIMACHAL PRADESH	RHPPL HP	UTTAR PRADESH	NPCL(UP)	-1.37000	1.32650	HPXL	NR/2023/13878/C
N/A	ADHPL	UTTAR PRADESH	NPCL(UP)	-8.51000	8.23945	IEXL	NR/2023/13879/C
HIMACHAL PRADESH	HP-GOVT	UTTAR PRADESH	UPPCL	-11.28160	10.92300	TPTCL	NR/2023/13880/C
N/A	SINGOLI	UTTARAKHAND	UTTARAKHAND	-2.53000	2.44912	UTTARAKHAND	NR/2023/13886/D
N/A	SORANG HEP	DELHI	TPDDL	-4.70000	4.55100	NVVNL	NR/2023/13887/D
N/A	AvSEPL BHD2	PUNJAB	PUNJAB	-23.92550	23.92550	AvSEPL BHD2	NR/2023/13889/D
UTTAR PRADESH	LAPL-UP	DELHI	BYPL	-2.10000	2.03280	KEIPL	NR/2023/13890/D
N/A	TSIPL BKN	DELHI	BRPL	-14.45720	14.45720	TSIPL BKN	NR/2023/13892/D
N/A	TSIPL BKN	DELHI	BYPL	-6.19592	6.19592	TSIPL BKN	NR/2023/13894/D
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-9.03790	8.75070	GBHHPL	NR/2023/13898/C
N/A	AvSEPL BHD2	J & K	JK&LADAKH	-1.59500	1.59500	AvSEPL BHD2	NR/2023/13899/C
N/A	SAINJ	HIMACHAL PRADESH	HP	-10.89140	10.54500	TPTCL	NR/2023/13901/C
J & K	SPDC-JK	HARYANA	HARYANA	-33.50000	32.43470	HARYANA	NR/2023/13902/C
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-7.92000	7.66800	HARYANA	NR/2023/13904/C
HIMACHAL PRADESH	CHANJUII	DELHI	TPDDL	-4.60440	4.45780	TPDDL	NR/2023/13905/C
N/A	KWHEP	UTTAR PRADESH	NPCL(UP)	-8.40000	8.13200	HPXL	NR/2023/13906/C
HIMACHAL PRADESH	MALANA	UTTAR PRADESH	NPCL(UP)	-1.38250	1.33858	IEXL	NR/2023/13909/C
HIMACHAL PRADESH	RHPPL HP	UTTAR PRADESH	NPCL(UP)	-1.37000	1.32650	HPXL	NR/2023/13912/C
DELHI	BYPL	UTTAR PRADESH	ASIL UP	-2.10000	2.03350	PXIL	NR/2023/13913/C
N/A	ADHPL	UTTAR PRADESH	NPCL(UP)	-14.76250	14.29310	IEXL	NR/2023/13919/C
HIMACHAL PRADESH	HP-GOVT	UTTAR PRADESH	UPPCL	-11.28160	10.92300	TPTCL	NR/2023/13921/C
UTTAR PRADESH	LAPL-UP	DELHI	BYPL	-2.10000	2.03280	KEIPL	NR/2023/13923/D
N/A	SINGOLI	UTTARAKHAND	UTTARAKHAND	-2.83200	2.74080	UTTARAKHAND	NR/2023/13924/D
N/A	SORANG HEP	DELHI	TPDDL	-4.70000	4.55100	NVVNL	NR/2023/13929/D



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Final REA for the Month of JUNE, 2023

Table - I

Details of Intra-Regional Scheduled Bilateral Exchanges (LUs)

From State/Station	From Utility	To State	To Utility	Ex-Seller	Ex-Purchaser	Applicant	OA Code
N/A	AvSEPL BHD2	PUNJAB	PUNJAB	-23.68750	23.68750	AvSEPL BHD2	NR/2023/13932/D
N/A	TS1PL BKN	DELHI	BYPL	-6.27542	6.27542	TS1PL BKN	NR/2023/13934/D
N/A	TS1PL BKN	DELHI	BRPL	-14.64270	14.64270	TS1PL BKN	NR/2023/13935/D
N/A	AvSEPL BHD2	J & K	JK&LADAKH	-1.57875	1.57875	AvSEPL BHD2	NR/2023/13936/C
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-9.11010	8.82060	GBHHPL	NR/2023/13937/C
N/A	SAINJ	HIMACHAL PRADESH	HP	-11.27840	10.92000	TPTCL	NR/2023/13938/C
HIMACHAL PRADESH	CHANJUII	DELHI	TPDDL	-4.73160	4.58080	TPDDL	NR/2023/13939/C
HIMACHAL PRADESH	HP-GOVT	UTTAR PRADESH	UPPCL	-11.28160	10.92300	TPTCL	NR/2023/13941/C
J & K	SPDC-JK	HARYANA	HARYANA	-34.00000	32.91880	HARYANA	NR/2023/13942/C
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-7.92000	7.66800	HARYANA	NR/2023/13943/C
HIMACHAL PRADESH	RHPPL HP	UTTAR PRADESH	NPCL(UP)	-1.37000	1.32650	HPXL	NR/2023/13948/C
N/A	RSRPL BKN	UTTAR PRADESH	AMBASTL	-1.10000	1.06480	PXIL	NR/2023/13950/C
N/A	SAINJ	DELHI	BRPL	-1.19500	1.15710	IEXL	NR/2023/13954/C
N/A	KWHEP	DELHI	BRPL	-2.30750	2.23405	IEXL	NR/2023/13955/C
N/A	SINGOLI	UTTAR PRADESH	NPCL(UP)	-16.86750	16.33182	HPXL	NR/2023/13956/C
N/A	ADHPL	UTTAR PRADESH	NPCL(UP)	-10.64000	10.30170	IEXL	NR/2023/13957/C
N/A	SINGOLI	UTTARAKHAND	UTTARAKHAND	-3.26700	3.16290	UTTARAKHAND	NR/2023/13963/D
N/A	AvSEPL BHD2	J & K	JK&LADAKH	-1.57800	1.57800	AvSEPL BHD2	NR/2023/13965/D
UTTAR PRADESH	LAPL-UP	DELHI	BYPL	-4.00000	3.87300	KEIPL	NR/2023/13968/D
N/A	TS1PL BKN	DELHI	BRPL	-14.41345	14.41345	TS1PL BKN	NR/2023/13969/D
N/A	TS1PL BKN	DELHI	BYPL	-6.17718	6.17718	TS1PL BKN	NR/2023/13971/D
J & K	SPDC-JK	HARYANA	HARYANA	-34.00000	32.91880	HARYANA	NR/2023/13973/D
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-7.92000	7.66800	HARYANA	NR/2023/13974/D
N/A	SAINJ	HIMACHAL PRADESH	HP	-11.24830	10.89060	TPTCL	NR/2023/13975/D
N/A	AvSEPL BHD2	PUNJAB	PUNJAB	-23.66650	23.66650	AvSEPL BHD2	NR/2023/13980/C
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-9.21030	8.91750	GBHHPL	NR/2023/13984/C
HIMACHAL PRADESH	CHANJUII	DELHI	TPDDL	-3.94140	3.81680	TPDDL	NR/2023/13990/C
N/A	RSRPL BKN	UTTAR PRADESH	TISCL UP	-0.88375	0.85568	PXIL	NR/2023/13991/C
N/A	RSRPL BKN	UTTAR PRADESH	AMBASTL	-1.10000	1.06480	PXIL	NR/2023/13993/C
HIMACHAL PRADESH	GBHHPL	UTTAR PRADESH	CROSSLAY UP	-0.20000	0.19400	HPXL	NR/2023/13995/C
HIMACHAL PRADESH	GBHHPL	UTTAR PRADESH	AMAN2012	-0.30000	0.29000	HPXL	NR/2023/13996/C
N/A	SORANG HEP	UTTAR PRADESH	NPCL(UP)	-4.70000	4.55032	HPXL	NR/2023/13998/C
HIMACHAL PRADESH	HP-GOVT	UTTAR PRADESH	UPPCL	-11.28160	10.92300	TPTCL	NR/2023/13999/C
HIMACHAL PRADESH	RHPPL HP	UTTAR PRADESH	NPCL(UP)	-1.54000	1.49140	HPXL	NR/2023/14002/C
N/A	KWHEP	UTTAR PRADESH	NPCL(UP)	-10.08000	9.75840	HPXL	NR/2023/14003/C
N/A	SINGOLI	UTTAR PRADESH	NPCL(UP)	-15.13000	14.64882	HPXL	NR/2023/14004/C
N/A	ADHPL	UTTAR PRADESH	NPCL(UP)	-5.87000	5.68328	IEXL	NR/2023/14007/C
HIMACHAL PRADESH	MALANA	DELHI	BRPL	-3.10500	3.00622	IEXL	NR/2023/14008/C
N/A	AvSEPL BHD2	PUNJAB	PUNJAB	-20.61200	20.61200	AvSEPL BHD2	NR/2023/14010/D
N/A	AvSEPL BHD2	J & K	JK&LADAKH	-1.37575	1.37575	AvSEPL BHD2	NR/2023/14011/D



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Table - J

Details of Inter-Regional Bilateral Exchanges (LUs)

From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
SIKKIM	SIKKIM	N/A	RSRPL BKN	-1.40000	-1.40000	IEXL	ER/2023/8395/C
ORISSA	VLSEZ	N/A	SCLTPS	-10.41250	-10.41250	IEXL	ER/2023/8398/C
WEST BENGAL	CESC	HIMACHAL PRADESH	GBHHPL	-2.50000	-2.50000	PXIL	ER/2023/8408/C
WEST BENGAL	CESC	HIMACHAL PRADESH	GBHHPL	-1.50000	-1.50000	PXIL	ER/2023/8409/C
ORISSA	JSPLBarbil	HIMACHAL PRADESH	GBHHPL	-3.93120	-3.93120	PXIL	ER/2023/8413/C
ORISSA	VLSEZ	N/A	RSRPL BKN	-3.52500	-3.52500	HPXL	ER/2023/8414/C
ORISSA	VLSEZ	DELHI	BYPL	-6.50000	-6.50000	HPXL	ER/2023/8416/C
SIKKIM	SIKKIM	N/A	RSRPL BKN	-1.39500	-1.39500	IEXL	ER/2023/8418/C
SIKKIM	SIKKIM	N/A	RSRPL BKN	-1.40000	-1.40000	IEXL	ER/2023/8455/C
ORISSA	JSPLBarbil	HIMACHAL PRADESH	GBHHPL	-4.80480	-4.80480	PXIL	ER/2023/8457/C
ORISSA	VLSEZ	N/A	RSRPL BKN	-3.46750	-3.46750	IIPXL	ER/2023/8466/C
ORISSA	VL-CPP 1215	DELHI	BYPL	-8.26500	-8.26500	HPXL	ER/2023/8468/C
BIHAR	BSPHCL	UTTAR PRADESH	LAPL-UP	-3.20000	-3.20000	PXIL	ER/2023/8470/C
JHARKHAND	JBVNL	N/A	SORANG HEP	-8.44000	-8.44000	IEXL	ER/2023/8471/C
ORISSA	VLSEZ	HIMACHAL PRADESH	MALANA	-2.77000	-2.77000	IEXL	ER/2023/8486/C
SIKKIM	SIKKIM	N/A	RSRPL BKN	-1.40000	-1.40000	IEXL	ER/2023/8487/C
ORISSA	VLSEZ	N/A	RSRPL BKN	-3.41250	-3.41250	HPXL	ER/2023/8488/C
ORISSA	VLSEZ	N/A	ADHPL	-6.88250	-6.88250	IEXL	ER/2023/8490/C
ORISSA	VL-CPP 1215	DELHI	BYPL	-6.13250	-6.13250	HPXL	ER/2023/8491/C
ORISSA	VLSEZ	N/A	SCLTPS	0.00000	0.00000	HPXL	ER/2023/8494/C
ORISSA	JSPLBarbil	HIMACHAL PRADESH	GBHHPL	-3.51380	-3.51380	PXIL	ER/2023/8499/C
BIHAR	BSPHCL	N/A	KWHEP	-3.74000	-3.74000	PXIL	ER/2023/8501/C
JHARKHAND	JBVNL	DELHI	BYPL	-1.50000	-1.50000	IEXL	ER/2023/8507/C
JHARKHAND	JBVNL	N/A	SORANG HEP	-9.01000	-9.01000	IEXL	ER/2023/8508/C
JHARKHAND	JBVNL	UTTAR PRADESH	LAPL-UP	-3.60000	-3.60000	PXIL	ER/2023/8509/C
BIHAR	BSPHCL	N/A	SAINJ	-3.51000	-3.51000	PXIL	ER/2023/8510/C
SIKKIM	SIKKIM	UTTAR PRADESH	LAPL-UP	-0.90000	-0.90000	KEIPL	ER/2023/8516/D
ORISSA	JSPLBarbil	HIMACHAL PRADESH	GBHHPL	-8.83750	-8.83750	PXIL	ER/2023/8528/C
SIKKIM	SIKKIM	UTTAR PRADESH	LAPL-UP	-0.90000	-0.90000	KEIPL	ER/2023/8532/D
ORISSA	VL-CPP 1215	DELHI	BYPL	-5.50000	-5.50000	HPXL	ER/2023/8541/C
ORISSA	VLSEZ	N/A	ADHPL	-12.07750	-12.07750	IEXL	ER/2023/8550/C
SIKKIM	SIKKIM	UTTAR PRADESH	LAPL-UP	-1.05000	-1.05000	KEIPL	ER/2023/8561/C
ORISSA	VLSEZ	N/A	RSRPL BKN	-2.39025	-2.39025	HPXL	ER/2023/8565/C
ORISSA	VLSEZ	DELHI	BYPL	-2.14500	-2.14500	HPXL	ER/2023/8566/C
ORISSA	VL-CPP 1215	DELHI	BYPL	-8.26500	-8.26500	HPXL	ER/2023/8568/C
ORISSA	JSPLBarbil	HIMACHAL PRADESH	GBHHPL	-3.32720	-3.32720	PXIL	ER/2023/8570/C
SIKKIM	SIKKIM	UTTAR PRADESH	LAPL-UP	-0.90000	-0.90000	KEIPL	ER/2023/8583/D
ORISSA	VLSEZ	N/A	RSRPL BKN	-1.77922	-1.77922	HPXL	ER/2023/8596/C
ORISSA	VL-CPP 1215	DELHI	BYPL	-7.93250	-7.93250	HPXL	ER/2023/8598/C
ORISSA	JSPLBarbil	HIMACHAL PRADESH	GBHHPL	-3.94600	-3.94600	PXIL	ER/2023/8601/C



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Final REA for the Month of JUNE, 2023

Table - J

Details of Inter-Regional Bilateral Exchanges (LUs)

From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
KERALA	KSEB	N/A	TPSL BKN	-5.16750	-5.16750	TPSL BKN	SR/2023/6243/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	HP-GOVT	-20.99000	-20.99000	PXIL	SR/2023/6247/C
KARNATAKA	PCKL	N/A	SAINJ	-3.17000	-3.17000	PXIL	SR/2023/6254/C
KARNATAKA	PCKL	N/A	KWHEP	-2.76500	-2.76500	PXIL	SR/2023/6255/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	MALANA	-6.05000	-6.05000	IELX	SR/2023/6263/C
TAMILNADU	TANGEDCO	N/A	ADHPL	-13.26750	-13.26750	IELX	SR/2023/6268/C
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-15.06998	-15.06998	TSSPDCL	SR/2023/6275/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-9.56515	-9.56515	TSSPDCL	SR/2023/6276/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHD2	-11.59798	-11.59798	TSSPDCL	SR/2023/6277/D
PONDYCHERRY	PONDY	N/A	ABCREPL BHD2	-3.13798	-3.13798	ABCREPL BHD2	SR/2023/6278/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-6.93225	-6.93225	TSSPDCL	SR/2023/6280/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-4.15950	-4.15950	TSSPDCL	SR/2023/6281/D
KERALA	KSEB	DELIII	BYPL	-3.00000	-3.00000	HPXL	SR/2023/6285/C
KARNATAKA	PCKL	N/A	SAINJ	-3.12500	-3.12500	PXIL	SR/2023/6288/C
KERALA	KSEB	N/A	TPSL BKN	-5.16750	-5.16750	TPSL BKN	SR/2023/6291/C
KARNATAKA	PCKL	UTTAR PRADESH	PPGCL	-1.60000	-1.60000	HPXL	SR/2023/6301/C
KARNATAKA	PCKL	N/A	SCLTPS	-2.52500	-2.52500	HPXL	SR/2023/6306/C
TELANGANA	TSSPDCL	HIMACHAL PRADESH	HP-GOVT	-14.60500	-14.60500	IELX	SR/2023/6310/C
TAMILNADU	TANGEDCO	N/A	ADHPL	-9.66000	-9.66000	IELX	SR/2023/6314/C
TAMILNADU	TANGEDCO	N/A	SCLTPS	-1.74750	-1.74750	IELX	SR/2023/6315/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	HP-GOVT	-5.50500	-5.50500	IELX	SR/2023/6317/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	MALANA	-3.75250	-3.75250	IELX	SR/2023/6320/C
KERALA	KSEB	N/A	TPSL BKN	-5.16750	-5.16750	TPSL BKN	SR/2023/6325/D
PONDYCHERRY	PONDY	N/A	ABCREPL BHD2	-6.55918	-6.55918	ABCREPL BHD2	SR/2023/6326/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-18.29932	-18.29932	TSSPDCL	SR/2023/6327/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-10.84055	-10.84055	TSSPDCL	SR/2023/6329/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHD2	-14.34072	-14.34072	TSSPDCL	SR/2023/6330/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-8.84892	-8.84892	TSSPDCL	SR/2023/6331/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.30948	-5.30948	TSSPDCL	SR/2023/6332/D
TAMILNADU	TANGEDCO	N/A	SINGOLI	-1.29250	-1.29250	IELX	SR/2023/6345/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	MALANA	-2.49750	-2.49750	IELX	SR/2023/6350/C
TAMILNADU	TANGEDCO	N/A	ADHPL	-2.57000	-2.57000	IELX	SR/2023/6355/C
KERALA	KSEB	N/A	TPSL BKN	-5.68500	-5.68500	TPSL BKN	SR/2023/6360/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-18.29932	-18.29932	TSSPDCL	SR/2023/6361/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-10.84055	-10.84055	TSSPDCL	SR/2023/6362/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHD2	-20.06762	-20.06762	TSSPDCL	SR/2023/6363/D
PONDYCHERRY	PONDY	N/A	ABCREPL BHD2	-7.90002	-7.90002	ABCREPL BHD2	SR/2023/6364/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.13305	-9.13305	TSSPDCL	SR/2023/6365/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.47988	-5.47988	TSSPDCL	SR/2023/6366/D
TELANGANA	TSSPDCL	HIMACHAL PRADESH	HP-GOVT	-21.82250	-21.82250	IELX	SR/2023/6380/C



Northern Regional Power Committee

Final REA for the Month of JUNE, 2023

Table - J

Details of Inter-Regional Bilateral Exchanges (LUs)

From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	MALANA	-3.82500	-3.82500	IEXL	SR/2023/6382/C
TAMILNADU	TANGEDCO	N/A	SINGOLI	-8.64250	-8.64250	IEXL	SR/2023/6387/C
TAMILNADU	TANGEDCO	N/A	SCLTPS	0.00000	0.00000	IEXL	SR/2023/6391/C
TAMILNADU	TANGEDCO	N/A	ADHPL	-3.04000	-3.04000	IEXL	SR/2023/6396/C
TELANGANA	TSSPDCL	N/A	KSPPNL_BHDL2	+18.29932	+18.29932	TSSPDCL	SR/2023/6401/D
PONDYCHERRY	PONDY	N/A	ABCREPL_BHDL2	-7.89702	-7.89702	ABCREPL_BHDL2	SR/2023/6402/D
TELANGANA	TSSPDCL	N/A	KSPPNL_BHDL2	-10.84055	-10.84055	TSSPDCL	SR/2023/6403/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-11.09432	-11.09432	TSSPDCL	SR/2023/6404/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-6.65672	-6.65672	TSSPDCL	SR/2023/6405/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-20.67012	-20.67012	TSSPDCL	SR/2023/6408/D
KERALA	KSEB	N/A	TPSL BKN	-5.68500	-5.68500	TPSL BKN	SR/2023/6410/C
ANDHRA PRADESH	APCPDCL	HIMACHAL PRADESH	GBHIPL	-1.50000	-1.50000	PXIL	SR/2023/6412/C
KERALA	KSEB	UTTAR PRADESH	LAPL-UP	-6.00000	-6.00000	PXIL	SR/2023/6415/C
TAMILNADU	TANGEDCO	DELHI	BYPL	-4.23750	-4.23750	HPXL	SR/2023/6427/C
TELANGANA	TSSPDCL	HIMACHAL PRADESH	HP-GOVT	-16.18000	-16.18000	IEXL	SR/2023/6430/C
TAMILNADU	TANGEDCO	N/A	KWHEP	-4.26250	-4.26250	PXIL	SR/2023/6433/C
TAMILNADU	TANGEDCO	N/A	ADHPL	-2.46250	-2.46250	IEXL	SR/2023/6434/C
TAMILNADU	TANGEDCO	N/A	SAINJ	-4.14250	-4.14250	PXIL	SR/2023/6437/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	MALANA	-2.02000	-2.02000	IEXL	SR/2023/6439/C
TAMILNADU	TANGEDCO	N/A	SINGOLI	-7.46250	-7.46250	HPXL	SR/2023/6442/C
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-20.31262	-20.31262	TSSPDCL	SR/2023/6450/D
TELANGANA	TSSPDCL	N/A	KSPPNL_BHDL2	-19.37578	-19.37578	TSSPDCL	SR/2023/6451/D
TELANGANA	TSSPDCL	N/A	KSPPNL_BHDL2	-12.19075	-12.19075	TSSPDCL	SR/2023/6452/D
PONDYCHERRY	PONDY	N/A	ABCREPL_BHDL2	-7.99718	-7.99718	ABCREPL_BHDL2	SR/2023/6453/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-11.09432	-11.09432	TSSPDCL	SR/2023/6454/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-6.65672	-6.65672	TSSPDCL	SR/2023/6455/D
KERALA	KSEB	N/A	TPSL BKN	-5.68500	-5.68500	TPSL BKN	SR/2023/6457/C
TAMILNADU	TANGEDCO	N/A	KWIIEP	-3.25000	-3.25000	PXIL	SR/2023/6461/C
TAMILNADU	TANGEDCO	N/A	ADHPL	-1.35000	-1.35000	IEXL	SR/2023/6476/C
TAMILNADU	TANGEDCO	N/A	SAINJ	-2.88000	-2.88000	PXIL	SR/2023/6477/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	MALANA	-3.36500	-3.36500	IEXL	SR/2023/6480/C
KERALA	KSEB	UTTAR PRADESH	LAPL-UP	-5.20000	-5.20000	PXIL	SR/2023/6482/C
TELANGANA	TSSPDCL	HIMACHAL PRADESH	HP-GOVT	-26.72750	-26.72750	IEXL	SR/2023/6484/C
PONDYCHERRY	PONDY	N/A	ABCREPL_BHDL2	-8.00358	-8.00358	ABCREPL_BHDL2	SR/2023/6489/D
TELANGANA	TSSPDCL	N/A	KSPPNL_BHDL2	-20.45222	-20.45222	TSSPDCL	SR/2023/6490/D
TELANGANA	TSSPDCL	N/A	KSPPNL_BHDL2	-12.75365	-12.75365	TSSPDCL	SR/2023/6491/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-6.65672	-6.65672	TSSPDCL	SR/2023/6492/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-11.09432	-11.09432	TSSPDCL	SR/2023/6493/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-20.32512	-20.32512	TSSPDCL	SR/2023/6494/D
KERALA	KSEB	N/A	TPSL BKN	-6.00500	-6.00500	TPSL BKN	SR/2023/6498/C



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Table - J

Details of Inter-Regional Bilateral Exchanges (LUs)

From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
TAMILNADU	TANGEDCO	N/A	✓ KWHEP	-1.16875	-1.16875	PXIL	SR/2023/6503/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	MALANA	-2.59000	-2.59000	IEXL	SR/2023/6509/C
TAMILNADU	TANGEDCO	N/A	ADHPL	-5.70250	-5.70250	IEXL	SR/2023/6512/C
TAMILNADU	TANGEDCO	N/A	✓ KWHEP	-6.48250	-6.48250	IEXL	SR/2023/6513/C
KERALA	KSEB	N/A	SCLTPS	-5.46000	-5.46000	PXIL	SR/2023/6514/C
TAMILNADU	TANGEDCO	N/A	SAINJ	-4.82000	-4.82000	IEXL	SR/2023/6515/C
TAMILNADU	TANGEDCO	N/A	SINGOLI	-12.50500	-12.50500	IEXL	SR/2023/6518/C
KERALA	KSEB	UTTAR PRADESH	LAPL-UP	-6.00000	-6.00000	PXIL	SR/2023/6525/C
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-19.52422	-19.52422	TSSPDCL	SR/2023/6531/D
KERALA	KSEB	N/A	TPSL BKN	-6.24500	-6.24500	TPSL BKN	SR/2023/6532/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-11.56835	-11.56835	TSSPDCL	SR/2023/6533/D
PONDYCHERRY	PONDY	N/A	ABCREPL BHDL2	-8.07500	-8.07500	ABCREPL BHDL2	SR/2023/6534/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-11.09432	-11.09432	TSSPDCL	SR/2023/6535/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-6.66338	-6.66338	TSSPDCL	SR/2023/6536/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-20.49262	-20.49262	TSSPDCL	SR/2023/6537/D
KERALA	KSEB	N/A	✓ KWHEP	-10.08000	-10.08000	HPXL	SR/2023/6542/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	MALANA	-2.08000	-2.08000	IEXL	SR/2023/6548/C
TAMILNADU	TANGEDCO	N/A	ADHPL	-2.44250	-2.44250	IEXL	SR/2023/6552/C
TAMILNADU	TANGEDCO	RAJASTHAN	VSPL-RAJ	-4.43750	-4.43750	IEXL	SR/2023/6553/C
PONDYCHERRY	PONDY	N/A	ABCREPL BHDL2	-8.11038	-8.11038	ABCREPL BHDL2	SR/2023/6557/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-21.52868	-21.52868	TSSPDCL	SR/2023/6558/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-12.75365	-12.75365	TSSPDCL	SR/2023/6559/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-20.36762	-20.36762	TSSPDCL	SR/2023/6561/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-11.09435	-11.09435	TSSPDCL	SR/2023/6562/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-6.66338	-6.66338	TSSPDCL	SR/2023/6563/D
KERALA	KSEB	N/A	TPSL BKN	-6.27000	-6.27000	TPSL BKN	SR/2023/6564/C
KERALA	KSEB	RAJASTHAN	VSPL-RAJ	-11.66000	-11.66000	HPXL	SR/2023/6573/C
TAMILNADU	TANGEDCO	N/A	ADHPL	-1.12250	-1.12250	IFXL	SR/2023/6577/C
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-17.22288	-17.22288	TSSPDCL	SR/2023/6583/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-10.20285	-10.20285	TSSPDCL	SR/2023/6584/D
PONDYCHERRY	PONDY	N/A	ABCREPL_BHDL2	-7.94390	-7.94390	ABCREPL_BHDL2	SR/2023/6585/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-20.27512	-20.27512	TSSPDCL	SR/2023/6586/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-11.09435	-11.09435	TSSPDCL	SR/2023/6587/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-6.66338	-6.66338	TSSPDCL	SR/2023/6588/D
KERALA	KSEB	N/A	TPSL BKN	-6.13000	-6.13000	TPSL BKN	SR/2023/6589/C
PONDYCHERRY	PONDY	N/A	ABCREPL BHDL2	-7.59618	-7.59618	ABCREPL BHDL2	SR/2023/6594/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-19.69132	-19.69132	TSSPDCL	SR/2023/6595/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-11.66195	-11.66195	TSSPDCL	SR/2023/6596/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-11.09435	-11.09435	TSSPDCL	SR/2023/6597/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-6.66338	-6.66338	TSSPDCL	SR/2023/6598/D



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Table - J

Details of Inter-Regional Bilateral Exchanges (LUs)

From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
GOA	GOA Beneficiary	N/A	SBSRPC I PL BKN	-4.47000	-4.47000	MANIKARAN	WR/2023/16190/D
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHD2	-14.67072	-14.67072	ABCREPL BHD2	WR/2023/16191/D
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-16.37500	-16.37500	TPGEL BKN	WR/2023/16192/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-4.88000	-4.88000	MANIKARAN	WR/2023/16193/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-52.64000	-52.64000	AEML	WR/2023/16194/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-53.20250	-53.20250	AEML	WR/2023/16195/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-6.52800	-6.52800	MANIKARAN	WR/2023/16196/C
DNH	DNHDDPCL	N/A	SORANG HEP	-7.31000	-7.31000	IEXL	WR/2023/16204/C
MAHARASHTRA	MBPL	N/A	RSRPL BKN	-0.73600	-0.73600	HPXL	WR/2023/16205/C
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-57.87500	-57.87500	AEML	WR/2023/16214/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-56.13250	-56.13250	AEML	WR/2023/16215/D
GOA	GOA Beneficiary	N/A	SBSRPC I PL BKN	-4.47000	-4.47000	MANIKARAN	WR/2023/16217/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-4.94600	-4.94600	MANIKARAN	WR/2023/16218/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-6.52800	-6.52800	MANIKARAN	WR/2023/16219/D
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHD2	-19.30530	-19.30530	AcHPPL BHD2	WR/2023/16220/D
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHD2	-15.30308	-15.30308	ABCREPL BHD2	WR/2023/16221/D
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-16.37500	-16.37500	TPGEL BKN	WR/2023/16222/C
MAHARASHTRA	MBPL	N/A	RSRPL BKN	-0.74300	-0.74300	HPXL	WR/2023/16226/C
DNH	DNHDDPCL	N/A	SORANG HEP	-8.09000	-8.09000	IEXL	WR/2023/16240/C
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-6.52800	-6.52800	MANIKARAN	WR/2023/16245/D
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHD2	-13.79512	-13.79512	ABCREPL BHD2	WR/2023/16246/D
GOA	GOA Beneficiary	N/A	SBSRPC I PL BKN	-4.65500	-4.65500	MANIKARAN	WR/2023/16247/D
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHD2	-16.34238	-16.34238	AcHPPL BHD2	WR/2023/16248/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-5.26200	-5.26200	MANIKARAN	WR/2023/16249/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-45.90000	-45.90000	AEML	WR/2023/16250/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-65.74250	-65.74250	AEML	WR/2023/16251/D
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-16.37500	-16.37500	TPGEL BKN	WR/2023/16252/D
MAHARASHTRA	TPC MSEB	N/A	KWHEP	-0.69750	-0.69750	PXIL	WR/2023/16253/C
BALCO WR	BALCO LOAD	HIMACHAL PRADESH	GBHHPL	-1.75000	-1.75000	PXIL	WR/2023/16254/C
MAHARASHTRA	MBPL	N/A	RSRPL BKN	-0.73900	-0.73900	HPXL	WR/2023/16260/C
M.P.	MPSEB Beneficiary	N/A	ABCREPL BHD2	-13.38868	-13.38868	ABCREPL BHD2	WR/2023/16270/D
GOA	GOA Beneficiary	N/A	SBSRPC I PL BKN	-4.69250	-4.69250	MANIKARAN	WR/2023/16271/D
MAHARASHTRA	MSEB Beneficiary	N/A	AcHPPL BHD2	-14.95965	-14.95965	AcHPPL BHD2	WR/2023/16273/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-24.76500	-24.76500	AEML	WR/2023/16274/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-6.50000	-6.50000	MANIKARAN	WR/2023/16275/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-79.14750	-79.14750	AEML	WR/2023/16276/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-4.07400	-4.07400	MANIKARAN	WR/2023/16277/D
MAHARASHTRA	TPC MSEB	N/A	TPGEL BKN	-14.75000	-14.75000	TPGEL BKN	WR/2023/16278/C
AMNSIL WR	AMNSIL	HIMACHAL PRADESH	GEE HP	-4.74000	-4.74000	HPXL	WR/2023/16280/C
MAHARASHTRA	MBPL	N/A	RSRPL BKN	-0.73900	-0.73900	HPXL	WR/2023/16284/C



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Table - K
Details of Scheduled Energy Exchange (LUs) Through Power Exchange

Power Exchange	To Entity	EX-NR Periphery	EX-NR State Periphery
GDAM IEX	DELHI	13.698325	13.252425
GDAM IEX	HARYANA	8.736675	8.450850
GDAM IEX	PUNJAB	73.343175	71.000925
GDAM IEX	RAILWAYS	37.452850	36.241950
GDAM IEX	UTTAR PRADESH	55.785275	53.985300
GDAM IEX	ADANI SEJ2PL	-23.027500	-23.027500
GDAM IEX	HIMACHAL PRADESH	-10.106075	-10.106075
GDAM IEX	J & K	-166.440375	-166.440375
GDAM IEX	RAJASTHAN	-87.702025	-87.702025
GDAM IEX	RENEW SURYA RAVI	-196.156575	-196.156575
GDAM IEX	SINGOLI BHATWARI	-111.544300	-111.544300
GDAM IEX	SORANG HEP	-1.840000	-1.840000
GDAM IEX	UTTAR PRADESH	-22.404000	-22.404000
IEX	CHANDIGARH	19.759575	19.115650
IEX	DELHI	14.394050	13.928675
IEX	HARYANA	503.877275	487.708600
IEX	HIMACHAL PRADESH	439.066850	424.735600
IEX	J & K	349.261725	337.862475
IEX	NEPAL	222.481650	215.310350
IEX	PUNJAB	3547.575575	3434.373275
IEX	RAILWAYS	159.977775	154.829975
IEX	RAJASTHAN	315.825275	305.628150
IEX	UTTAR PRADESH	1627.203425	1574.789850
IEX	UTTARAKHAND	485.173450	469.438800
IEX	ADANI SE JODHPUR 2 L	-109.905000	-109.905000
IEX	ADANI SEJ2PL	-1.557500	-1.557500
IEX	ADHPL	-499.439925	-499.439925
IEX	BUDHIL HEP	-49.632000	-49.632000
IEX	CHANDIGARH	-304.957125	-304.957125
IEX	DELHI	-2954.316850	-2954.316850
IEX	HARYANA	-1815.730875	-1815.730875
IEX	HIMACHAL PRADESH	-2123.753225	-2123.753225
IEX	J & K	-99.680750	-99.680750
IEX	KARCHAM WANGTOO	-283.591225	-283.591225
IEX	PUNJAB	-1988.426075	-1988.426075
IEX	RAJASTHAN	-2742.923425	-2742.923425
IEX	RENEW SURYA RAVI	-199.448475	-199.448475
IEX	SAINJ HEP	-216.880000	-216.880000
IEX	SCL Beawar	-134.522000	-134.522000
IEX	SINGOLI BHATWARI	-43.269750	-43.269750
IEX	SORANG HEP	-33.300000	-33.300000
IEX	UTTAR PRADESH	-2191.531325	-2191.531325
IEX	UTTARAKHAND	-269.414425	-269.414425
PXI	UTTAR PRADESH	0.250000	0.242000
RTM IEX	CHANDIGARH	6.236750	6.032375
RTM IEX	DELHI	266.210200	257.628800
RTM IEX	HARYANA	407.889700	394.805950
RTM IEX	HIMACHAL PRADESH	225.602100	218.247425



RTM IEX	J & K	289.556600	280.106850
RTM IEX	PUNJAB	1881.505075	1821.405400
RTM IEX	RAILWAYS	73.553400	71.177175
RTM IEX	RAJASTHAN	755.332225	730.886350
RTM IEX	SAINJ HEP	3.194500	3.092800
RTM IEX	SCL Beawar	12.391225	11.996675
RTM IEX	UTTAR PRADESH	1500.009450	1451.633850
RTM IEX	UTTARAKHAND	73.359300	70.991350
RTM IEX	ADHPL	-50.012750	-50.012750
RTM IEX	BUDHIL HEP	-3.414000	-3.414000
RTM IEX	CHANDIGARH	-9.489050	-9.489050
RTM IEX	DADRI TPS	-7.824150	-7.824150
RTM IEX	DADRI-II TPS	-3.372250	-3.372250
RTM IEX	DELHI	-1611.662975	-1611.662975
RTM IEX	HARYANA	-781.340925	-781.340925
RTM IEX	HIMACHAL PRADESH	-1276.674800	-1276.674800
RTM IEX	J & K	-1166.579525	-1166.579525
RTM IEX	KARCHAM WANGTOO	-47.029000	-47.029000
RTM IEX	PUNJAB	-1026.779875	-1026.779875
RTM IEX	RAJASTHAN	-3142.465900	-3142.465900
RTM IEX	RENEW SURYA RAVI	-9.341250	-9.341250
RTM IEX	RIHAND STPS	-26.796000	-26.796000
RTM IEX	RIHAND-II STPS	-23.804175	-23.804175
RTM IEX	RIHAND-III STPS	-27.872775	-27.872775
RTM IEX	SAINJ HEP	-90.490500	-90.490500
RTM IEX	SCL Beawar	-42.018950	-42.018950
RTM IEX	SINGOLI BHATWARI	-58.715000	-58.715000
RTM IEX	SINGRAULI STPS	-26.721075	-26.721075
RTM IEX	SORANG HEP	-51.140000	-51.140000
RTM IEX	TANDA-II STPS	-3.726125	-3.857250
RTM IEX	UNCHAHAAR-I TPS	-1.807250	-1.807250
RTM IEX	UNCHAHAAR-II TPS	-5.077275	-5.077275
RTM IEX	UNCHAHAAR-III TPS	-0.874000	-0.874000
RTM IEX	UNCHAHAAR-IV TPS	-27.643100	-27.643100
RTM IEX	UTTAR PRADESH	-360.915475	-360.915475
RTM IEX	UTTARAKHAND	-494.416625	-494.416625



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Table - I
Details of Intra-Regional Scheduled Bilateral Exchanges (LUs)

From State/Station	From Utility	To State	To Utility	Ex-Seller	Ex-Purchaser	Applicant	OA Code
UTTAR PRADESH	MEJA	RAJASTHAN	RAJASTHAN	-353.51972	341.31068	MEJA	LT_MEJA_RAJASTHAN
UTTAR PRADESH	MEJA	UTTARAKHAND	UTTARAKHAND	-248.02642	239.47365	MEJA	LT_MEJA_uttarakhand
HARYANA	CLP JHAJJAR	DELHI	TPDDL	-742.35032	716.78882	HARYANA	LT-05
RAJASTHAN	RAJ SOLAR	PUNJAB	PUNJAB	-36.52412	36.52412	NVVNL	LT-16
RAJASTHAN	RAJ SOLAR	UTTAR PRADESH	UPPCL	-83.52682	83.52682	NVVNL	LT-17
N/A	KWHEP	HARYANA	HARYANA	-1451.47910	1401.64500	PTC	LT-25
N/A	KWHEP	UTTAR PRADESH	UPPCL	-1451.47910	1401.64500	PTC	LT-26
N/A	KWHEP	RAJASTHAN	RAJASTHAN	-754.78765	728.87752	PTC	LT-27
RAJASTHAN	RAJ SOLAR	DELHI	TPDDL	-28.48772	28.48772	SECI Trader	LT-31
RAJASTHAN	RAJ SOLAR	HARYANA	HARYANA	-111.88378	111.88378	SECI Trader	LT-32
RAJASTHAN	RAJ SOLAR	DELHI	BYPL	-28.48158	28.48158	SECI Trader	LT-35
RAJASTHAN	RAJ SOLAR	DELHI	BRPL	-29.02895	29.02895	SECI Trader	LT-36
RAJASTHAN	RAJ SOLAR	HIMACHAL PRADESH	HP	-29.01032	29.01032	SECI Trader	LT-37
UTTAR PRADESH	ALAKNANDA	UTTARAKHAND	UTTARAKHAND	-269.58480	260.30640	UPPCL	LT-38
RAJASTHAN	RAJ SOLAR	PUNJAB	PUNJAB	-46.26950	46.26950	SECI Trader	LT-42
N/A	KWHEP	HARYANA	HARYANA	-1277.32252	1233.46498	PTC	LT-54
N/A	KWHEP	PUNJAB	PUNJAB	-1451.47910	1401.64500	PTC	LT-56
HIMACHAL PRADESH	SHEPL HP	DELHI	TPDDL	-67.33620	65.02062	SHEPL HP	LT-59
N/A	AvRHNPL BKN	HARYANA	HARYANA	-394.75885	394.75885	AvRHNPL BKN	M NR 2022 01
N/A	AvSEPL BHDL2	PUNJAB	PUNJAB	-98.56755	98.56755	NHPCL	M NR 2023 01
N/A	AvSEPL BHDL2	J & K	JK&LADAKH	-6.57128	6.57128	NHPCL	M NR 2023 02
N/A	KWHEP	DELHI	BRPL	-62.27275	60.13808	TPTCL	NR/2023/11264/A
UTTARAKHAND	UTTARAKHAND	DELHI	BYPL	-372.00000	359.18640	APPCPL	NR/2023/11328/A
UTTARAKHAND	UTTARAKHAND	HARYANA	HARYANA	-974.64000	941.08320	HARYANA	NR/2023/11355/A
HIMACHAL PRADESH	HP	PUNJAB	PUNJAB	-3002.79600	2899.30320	APPCPL	NR/2023/11670/A
HIMACHAL PRADESH	HP	PUNJAB	PUNJAB	-601.57200	580.84800	APPCPL	NR/2023/11671/A
HIMACHAL PRADESH	HP	DELHI	BYPL	-85.22400	82.29360	APPCPL	NR/2023/11697/A
HIMACHAL PRADESH	HP	DELHI	BRPL	-198.85600	192.00720	APPCPL	NR/2023/13284/A
HIMACHAL PRADESH	HP	DELHI	BRPL	-624.00000	602.49840	MANIKARAN	NR/2023/13858/A
HIMACHAL PRADESH	HP	DELHI	BRPL	-1337.40000	1291.30560	MANIKARAN	NR/2023/13859/A
RAJASTHAN	RUVNL	UTTAR PRADESH	UPPCL	-764.86300	738.51600	UPPCL	NR/2023/13864/A
RAJASTHAN	RUVNL	UTTAR PRADESH	UPPCL	-2778.96400	2683.24800	UPPCL	NR/2023/13865/A
RAJASTHAN	RUVNL	UTTAR PRADESH	UPPCL	-585.00720	564.86610	UPPCL	NR/2023/13866/A
J & K	JK&LADAKH	UTTAR PRADESH	UPPCL	-729.00000	703.91000	UPPCL	NR/2023/13940/F
J & K	JK&LADAKH	UTTAR PRADESH	UPPCL	-114.48000	110.53950	UPPCL	NR/2023/13981/F
N/A	SINGOLI	UTTAR PRADESH	NPCL(UP)	-186.00000	179.61840	PTC	NR/2023/13989/F
HIMACHAL PRADESH	HP-GOVT	UTTAR PRADESH	UPPCL	-124.81280	120.51120	TPTCL	NR/2023/14027/F
N/A	ADHPL	UTTAR PRADESH	UPPCL	-99.00000	95.61840	STATKRAFT	NR/2023/14096/F
HIMACHAL PRADESH	SHPPBPL	DELHI	BAL184	-0.89895	0.87590	SHPPBPL	NR/2023/14113/F
HIMACHAL PRADESH	SHPPBPL	DELHI	BAL224	-1.24470	1.19860	SHPPBPL	NR/2023/14114/F

↑
Long term

Short term



1 KWHEP

1 CA, 16 = 0

9 Entries

2 Entries

107.45L

1199.6833-24.5463

1192.589



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Table - J

Details of Inter-Regional Bilateral Exchanges (LUs)

From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
SIKKIM	SIKKIM	N/A	RSRPL BKN	-1.80000	-1.80000	IEXL	ER/2023/8724/C
ORISSA	VSL	DELHI	BYPL	-4.32000	-4.32000	HPXL	ER/2023/8735/C
SIKKIM	SIKKIM	N/A	RSRPL BKN	-2.00000	-2.00000	IEXL	ER/2023/8739/C
SIKKIM	SIKKIM	N/A	RSRPL BKN	-2.00000	-2.00000	IEXL	ER/2023/8735/C
WEST BENGAL	WBSIEDCL	UTTAR PRADESH	PPGCL	-2.50000	-2.50000	HPXL	ER/2023/8770/C
SIKKIM	SIKKIM	N/A	RSRPL BKN	-1.40000	-1.40000	IEXL	ER/2023/8771/C
WEST BENGAL	WBSIEDCL	N/A	KWHEP	-7.22500	-7.22500	PXIL	ER/2023/8792/C
ORISSA	VLSEZ	N/A	ADHPL	-4.48750	-4.48750	IEXL	ER/2023/8798/C
ORISSA	VLSEZ	HIMACHAL PRADESH	MALANA	-2.45500	-2.45500	IEXL	ER/2023/8799/C
JHARKHAND	JBVNL	HIMACHAL PRADESH	MALANA	-1.44000	-1.44000	IEXL	ER/2023/8800/C
WEST BENGAL	WBSIEDCL	HIMACHAL PRADESH	HP-GOVT	-47.02750	-47.02750	IEXL	ER/2023/8802/C
SIKKIM	SIKKIM	N/A	RSRPL BKN	-1.40000	-1.40000	IEXL	ER/2023/8804/C
WEST BENGAL	WBSIEDCL	N/A	KWHEP	-7.65900	-7.65900	PXIL	ER/2023/8824/C
ORISSA	VLSEZ	DELHI	BYPL	-3.00000	-3.00000	HPXL	ER/2023/8825/C
WEST BENGAL	WBSIEDCL	UTTAR PRADESH	PPGCL	-1.75000	-1.75000	HPXL	ER/2023/8826/C
SIKKIM	SIKKIM	N/A	RSRPL BKN	-1.39750	-1.39750	IEXL	ER/2023/8830/C
ORISSA	VLSEZ	N/A	ADHPL	-1.77750	-1.77750	IEXL	ER/2023/8834/C
WEST BENGAL	WBSIEDCL	UTTAR PRADESH	PPGCL	-1.75000	-1.75000	HPXL	ER/2023/8849/C
ORISSA	VLSEZ	DELHI	BYPL	-3.90000	-3.90000	HPXL	ER/2023/8855/C
WEST BENGAL	WBSIEDCL	N/A	KWHEP	-7.65900	-7.65900	PXIL	ER/2023/8857/C
SIKKIM	SIKKIM	N/A	RSRPL BKN	-1.39250	-1.39250	IEXL	ER/2023/8859/C
ORISSA	ODISHA	HIMACHAL PRADESH	MALANA	-12.00000	-12.00000	IEXL	ER/2023/8862/C
ORISSA	VLSEZ	DELHI	BYPL	-5.12500	-5.12500	HPXL	ER/2023/8876/C
WEST BENGAL	WBSIEDCL	UTTAR PRADESH	PPGCL	-1.40000	-1.40000	HPXL	ER/2023/8879/C
WEST BENGAL	WBSIEDCL	HIMACHAL PRADESH	HP-GOVT	-39.00000	-39.00000	PXIL	ER/2023/8882/C
ORISSA	VLSEZ	N/A	ADHPL	-0.75000	-0.75000	IEXL	ER/2023/8900/C
WEST BENGAL	WBSIEDCL	N/A	KWHEP	0.00000	0.00000	PXIL	ER/2023/8915/C
WEST BENGAL	WBSIEDCL	PUNJAB	PUNJAB	-4.00000	-4.00000	PXIL	ER/2023/8937/C
WEST BENGAL	WBSIEDCL	HARYANA	HARYANA	-3.00000	-3.00000	PXIL	ER/2023/8938/C
ORISSA	VLSEZ	DELHI	BYPL	-3.48000	-3.48000	HPXL	ER/2023/8939/C
SIKKIM	SIKKIM	N/A	RSRPL BKN	-1.38750	-1.38750	IEXL	ER/2023/8943/C
JHARKHAND	JBVNL	HARYANA	HARYANA	-4.00000	-4.00000	PXIL	ER/2023/8953/C
ORISSA	VLSEZ	DELHI	BYPL	-4.20000	-4.20000	HPXL	ER/2023/8962/C
WEST BENGAL	WBSIEDCL	UTTAR PRADESH	PPGCL	-3.50000	-3.50000	HPXL	ER/2023/8964/C
ORISSA	VLSEZ	N/A	RSRPL BKN	-3.02500	-3.02500	IEXL	ER/2023/8966/C
SIKKIM	SIKKIM	N/A	RSRPL BKN	-1.40000	-1.40000	IEXL	ER/2023/8969/C
ORISSA	VLSEZ	DELHI	BYPL	-19.80000	-19.80000	HPXL	ER/2023/8988/C
WEST BENGAL	WBSIEDCL	UTTAR PRADESH	PPGCL	-3.50000	-3.50000	HPXL	ER/2023/8997/C
SIKKIM	SIKKIM	N/A	RSRPL BKN	-1.26000	-1.26000	IEXL	ER/2023/8998/C
ORISSA	VLSEZ	UTTAR PRADESH	BCMLB001	-0.60000	-0.60000	PXIL	ER/2023/9000/C



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Table - J
Details of Inter-Regional Bilateral Exchanges (LUs)

From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-18.81742	-18.81742	TSSPDCL	SR/2023/6685/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.15942	-9.15942	TSSPDCL	SR/2023/6686/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.49552	-5.49552	TSSPDCL	SR/2023/6687/D
PONDYCHERRY	PONDY	N/A	ABCREPL_BHDL2	-7.57790	-7.57790	ABCREPL_BHDL2	SR/2023/6688/D
KERALA	KSEB	N/A	TPSL_BKN	-7.65000	-7.65000	TPSL_BKN	SR/2023/6689/C
TAMILNADU	TANGEDCO	N/A	SINGOLI	-4.32250	-4.32250	HPXL	SR/2023/6696/C
TAMILNADU	TANGEDCO	UTTAR PRADESH	LAPL-UP	-1.57500	-1.57500	PXIL	SR/2023/6699/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	MALANA	-4.68000	-4.68000	IEXL	SR/2023/6707/C
TAMILNADU	TANGEDCO	N/A	ADHPL	-8.15250	-8.15250	IEXL	SR/2023/6708/C
KERALA	KSEB	N/A	TPSL_BKN	-7.54750	-7.54750	TPSL_BKN	SR/2023/6712/D
PONDYCHERRY	PONDY	N/A	ABCREPL_BHDL2	-7.80458	-7.80458	ABCREPL_BHDL2	SR/2023/6713/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-20.13288	-20.13288	TSSPDCL	SR/2023/6714/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.83478	-5.83478	TSSPDCL	SR/2023/6715/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.72482	-9.72482	TSSPDCL	SR/2023/6716/D
TELANGANA	TSSPDCL	N/A	KSPPNL_BHDL2	-11.33780	-11.33780	TSSPDCL	SR/2023/6717/C
TELANGANA	TSSPDCL	N/A	KSPPNL_BHDL2	-18.89630	-18.89630	TSSPDCL	SR/2023/6718/C
TELANGANA	TSSPDCL	HIMACHAL PRADESH	MALANA	-7.74000	-7.74000	IEXL	SR/2023/6721/C
TELANGANA	TSSPDCL	N/A	ADHPL	-16.25500	-16.25500	IEXL	SR/2023/6724/C
TAMILNADU	TANGEDCO	N/A	ADHPL	-1.61750	-1.61750	IEXL	SR/2023/6726/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	MALANA	-0.90000	-0.90000	IEXL	SR/2023/6727/C
PONDYCHERRY	PONDY	N/A	ABCREPL_BHDL2	-7.88615	-7.88615	ABCREPL_BHDL2	SR/2023/6732/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-11.09435	-11.09435	TSSPDCL	SR/2023/6733/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-6.66338	-6.66338	TSSPDCL	SR/2023/6734/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-19.63825	-19.63825	TSSPDCL	SR/2023/6735/D
TELANGANA	TSSPDCL	N/A	KSPPNL_BHDL2	-19.08525	-19.08525	TSSPDCL	SR/2023/6736/D
TELANGANA	TSSPDCL	N/A	KSPPNL_BHDL2	-11.45120	-11.45120	TSSPDCL	SR/2023/6737/D
KERALA	KSEB	N/A	TPSL_BKN	-7.54750	-7.54750	TPSL_BKN	SR/2023/6738/C
TAMILNADU	TANGEDCO	UTTAR PRADESH	LAPL-UP	-1.60000	-1.60000	PXIL	SR/2023/6743/C
TAMILNADU	TANGEDCO	N/A	KWHEP	-2.55000	-2.55000	PXIL	SR/2023/6745/C
TELANGANA	TSSPDCL	HIMACHAL PRADESH	MALANA	-6.27750	-6.27750	IEXL	SR/2023/6754/C
TELANGANA	TSSPDCL	N/A	ADHPL	-15.03750	-15.03750	IEXL	SR/2023/6755/C
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-11.09435	-11.09435	TSSPDCL	SR/2023/6761/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-6.66338	-6.66338	TSSPDCL	SR/2023/6762/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-20.45368	-20.45368	TSSPDCL	SR/2023/6764/D
TELANGANA	TSSPDCL	N/A	KSPPNL_BHDL2	-19.08525	-19.08525	TSSPDCL	SR/2023/6765/D
KERALA	KSEB	N/A	TPSL_BKN	-7.54750	-7.54750	TPSL_BKN	SR/2023/6766/D
TELANGANA	TSSPDCL	N/A	KSPPNL_BHDL2	-11.45120	-11.45120	TSSPDCL	SR/2023/6767/D
PONDYCHERRY	PONDY	N/A	ABCREPL_BHDL2	-8.06348	-8.06348	ABCREPL_BHDL2	SR/2023/6768/D
KERALA	KSEB	N/A	KWHEP	-10.08000	-10.08000	PXIL	SR/2023/6772/C
TAMIL NADU	TANGEDCO	UTTAR PRADESH	LAPL-UP	-1.10000	-1.10000	PXIL	SR/2023/6775/C



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Table - J
Details of Inter-Regional Bilateral Exchanges (LUs)

From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
KERALA	KSEB	N/A	TPSL BKN	-5.77500	-5.77500	TPSL BKN	SR/2023/6902/C
TAMILNADU	TANGEDCO	DELHI	BYPL	-2.82000	-2.82000	HPXL	SR/2023/6907/C
TAMILNADU	TANGEDCO	N/A	KWHEP	-5.20625	-5.20625	PXIL	SR/2023/6909/C
TAMILNADU	TANGEDCO	UTTAR PRADESH	LAPL-UP	-2.80000	-2.80000	PXIL	SR/2023/6911/C
TAMILNADU	TANGEDCO	N/A	ADHPL	-4.12250	-4.12250	IEXL	SR/2023/6919/C
TAMILNADU	TANGEDCO	N/A	KWHEP	-4.80000	-4.80000	PXIL	SR/2023/6921/C
PONDYCHERRY	PONDY	N/A	ABCREPL BHD2	-4.68940	-4.68940	ABCREPL BHD2	SR/2023/6923/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-14.45675	-14.45675	TSSPDCL	SR/2023/6924/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-8.67412	-8.67412	TSSPDCL	SR/2023/6925/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-8.02342	-8.02342	TSSPDCL	SR/2023/6926/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-4.81395	-4.81395	TSSPDCL	SR/2023/6927/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHD2	-16.18958	-16.18958	TSSPDCL	SR/2023/6928/D
KERALA	KSEB	N/A	TPSL BKN	-5.77500	-5.77500	TPSL BKN	SR/2023/6929/C
PONDYCHERRY	PONDY	N/A	ABCREPL BHD2	-5.47072	-5.47072	ABCREPL BHD2	SR/2023/6939/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.43188	-9.43188	TSSPDCL	SR/2023/6940/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.65910	-5.65910	TSSPDCL	SR/2023/6941/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-14.45675	-14.45675	TSSPDCL	SR/2023/6942/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-8.67412	-8.67412	TSSPDCL	SR/2023/6943/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHD2	-18.12688	-18.12688	TSSPDCL	SR/2023/6944/D
KERALA	KSEB	N/A	TPSL BKN	-7.76250	-7.76250	TPSL BKN	SR/2023/6945/C
PONDYCHERRY	PONDY	N/A	ABCREPL_BHD2	-1.95400	-1.95400	ABCREPL_BHD2	SR/2023/6946/C
TAMILNADU	TANGEDCO	UTTAR PRADESH	LAPL-UP	-3.00000	-3.00000	PXIL	SR/2023/6952/C
TAMILNADU	TANGEDCO	N/A	SINGOLI	-0.58250	-0.58250	HPXL	SR/2023/6954/C
TAMILNADU	TANGEDCO	DELHI	BYPL	-3.10500	-3.10500	HPXL	SR/2023/6964/C
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.58672	-5.58672	TSSPDCL	SR/2023/6968/D
PONDYCHERRY	PONDY	N/A	ABCREPL_BHD2	-7.61300	-7.61300	ABCREPL_BHD2	SR/2023/6969/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.31128	-9.31128	TSSPDCL	SR/2023/6970/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHD2	-21.06638	-21.06638	TSSPDCL	SR/2023/6971/D
TELANGANA	TSSPDCL	N/A	KSPPNL_BHD2	-10.06152	-10.06152	TSSPDCL	SR/2023/6972/D
TELANGANA	TSSPDCL	N/A	KSPPNL_BHD2	-16.76918	-16.76918	TSSPDCL	SR/2023/6973/D
KERALA	KSEB	N/A	TPSL BKN	-8.14000	-8.14000	TPSL BKN	SR/2023/6975/C
TAMILNADU	TANGEDCO	N/A	SINGOLI	-3.75750	-3.75750	HPXL	SR/2023/6984/C
TAMILNADU	TANGEDCO	UTTAR PRADESH	LAPL-UP	-3.20000	-3.20000	PXIL	SR/2023/6985/C
PONDYCHERRY	PONDY	N/A	ABCREPL_BHD2	-7.66890	-7.66890	ABCREPL_BHD2	SR/2023/6998/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.65910	-5.65910	TSSPDCL	SR/2023/6999/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.43188	-9.43188	TSSPDCL	SR/2023/7000/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHD2	-20.33462	-20.33462	TSSPDCL	SR/2023/7001/D
TELANGANA	TSSPDCL	N/A	KSPPNL_BHD2	-10.56452	-10.56452	TSSPDCL	SR/2023/7002/D
TELANGANA	TSSPDCL	N/A	KSPPNL_BHD2	-17.60748	-17.60748	TSSPDCL	SR/2023/7003/D
KERALA	KSEB	N/A	TPSL BKN	-8.42250	-8.42250	TPSL BKN	SR/2023/7005/C

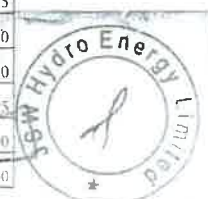


Northern Regional Power Committee
Provisional REA for the Month of JULY, 2023

Table - K

Details of Scheduled Energy Exchange (LUs) Through Power Exchange

Power Exchange	To Entity	EX-NR Periphery	EX-NR State Periphery
GDAM IEX	DELHI	91.551150	88.387075
GDAM IEX	HARYANA	36.146725	34.910500
GDAM IEX	PUNJAB	71.503975	69.060150
GDAM IEX	RAILWAYS	97.211600	93.872650
GDAM IEX	UTTAR PRADESH	114.325425	110.401100
GDAM IEX	HIMACHAL PRADESH	-43.307925	-43.307925
GDAM IEX	J & K	-182.427725	-182.427725
GDAM IEX	RAJASTHAN	-71.165900	-71.165900
GDAM IEX	RENEW SURYA RAVI	-216.028400	-216.028400
GDAM IEX	SBSR POWER CLEANTECH	-68.282500	-68.282500
GDAM IEX	SINGOLI BHATWARI	-163.693950	-163.693950
GDAM IEX	UTTAR PRADESH	-27.975500	-27.975500
IEX	CHANDIGARH	2.300000	2.220200
IEX	DELHI	119.621250	115.501250
IEX	HARYANA	202.794600	195.833700
IEX	HIMACHAL PRADESH	116.420775	112.367025
IEX	NEPAL	66.211325	63.932750
IEX	PUNJAB	1344.671175	1298.882050
IEX	RAILWAYS	169.591125	163.768175
IEX	RAJASTHAN	2900.947625	2800.670675
IEX	UTTAR PRADESH	2651.526750	2560.350675
IEX	UTTARAKHAND	380.911750	367.698200
IEX	ADANI SE JODHPUR 2 L	-104.587500	-104.587500
IEX	ADHPL	-635.084000	-635.084000
IEX	BUDHIL HEP	-51.336000	-51.336000
IEX	CHANDIGARH	-380.446725	-380.446725
IEX	DELHI	-1504.037725	-1504.037725
IEX	HARYANA	-2693.336375	-2693.336375
IEX	HIMACHAL PRADESH	-2321.187100	-2321.187100
IEX	J & K	-94.070725	-94.070725
IEX	KARCHAM WANGTOO	-846.126550	-846.126550
IEX	PUNJAB	-430.392325	-430.392325
IEX	RAJASTHAN	-805.504625	-805.504625
IEX	RENEW SURYA RAVI	-237.768625	-237.768625
IEX	SAINJ HEP	-173.875000	-173.875000
IEX	SBSR POWER CLEANTECH	-4.087500	-4.087500
IEX	SCL Beawar	-52.451950	-52.451950
IEX	SINGOLI BHATWARI	-121.931500	-121.931500
IEX	SORANG HEP	-12.370000	-12.370000
IEX	UTTAR PRADESH	-3663.524425	-3663.524425
IEX	UTTARAKHAND	-181.479025	-181.479025
RTM IEX	CHANDIGARH	1.622025	1.565450
RTM IEX	DELHI	567.946900	548.399675
RTM IEX	HARYANA	185.174600	178.811250
RTM IEX	HIMACHAL PRADESH	397.749500	383.846350
RTM IEX	J & K	208.113775	201.058125
RTM IEX	KARCHAM WANGTOO	25.445250	24.546300
RTM IEX	PUNJAB	1129.131075	1091.279000



RTM IEX	RAILWAYS	47.855700	46.198275
RTM IEX	RAJASTHAN	2367.909825	2286.026875
RTM IEX	SAINJ HEP	26.008375	25.108000
RTM IEX	SINGOLI BHATWARI	1.526500	1.473350
RTM IEX	UTTAR PRADESH	1345.992750	1299.832175
RTM IEX	UTTARAKHAND	811.835100	783.502850
RTM IEX	ADHPL	-88.318500	-88.318500
RTM IEX	ANTA GF	-0.226750	-0.226750
RTM IEX	BUDHIL HEP	-3.088500	-3.088500
RTM IEX	CHANDIGARH	-24.259600	-24.259600
RTM IEX	DADRI TPS	-39.990750	-39.990750
RTM IEX	DADRI-II TPS	-28.080475	-28.080475
RTM IEX	DELHI	-922.836150	-922.836150
RTM IEX	HARYANA	-1006.066300	-1006.066300
RTM IEX	HIMACHAL PRADESH	-1178.234775	-1178.234775
RTM IEX	J & K	-1595.657750	-1595.657750
RTM IEX	KARCHAM WANGTOO	-263.556750	-263.556750
RTM IEX	PUNJAB	-1313.119850	-1313.119850
RTM IEX	RAJASTHAN	-787.533025	-787.533025
RTM IEX	RENEW SURYA RAVI	-8.208000	-8.208000
RTM IEX	RIHAND STPS	-92.922025	-92.922025
RTM IEX	RIHAND-II STPS	-69.494100	-69.494100
RTM IEX	RIHAND-III STPS	-72.645700	-72.645700
RTM IEX	SAINJ HEP	-21.264500	-21.264500
RTM IEX	SBSR POWER CLEANTECH	-0.870000	-0.870000
RTM IEX	SCL Beawar	-27.511500	-27.511500
RTM IEX	SINGOLI BHATWARI	-43.850000	-43.850000
RTM IEX	SINGRAULI STPS	-105.090975	-105.090975
RTM IEX	SORANG HEP	-4.125000	-4.125000
RTM IEX	IANDA-II STPS	-31.962225	-33.075600
RTM IEX	UNCHAHAH-I TPS	-7.160725	-7.160725
RTM IEX	UNCHAHAH-II TPS	-18.616700	-18.616700
RTM IEX	UNCHAHAH-III TPS	-5.999850	-5.999850
RTM IEX	UNCHAHAH-IV TPS	-18.890525	-18.890525
RTM IEX	UTTAR PRADESH	-426.290100	-426.290100
RTM IEX	UTTARAKHAND	-406.379375	-406.379375



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Table - I
Details of Intra-Regional Scheduled Bilateral Exchanges (LUs)

From State/Station	From Utility	To State	To Utility	Ex-Seller	Ex-Purchaser	Applicant	OA Code
UTTAR PRADESH	MEJA	UTTARAKHAND	UTTARAKHAND	-168.96832	163.38525	MEJA	LT_MEJA_uttarakhand
HARYANA	CLP JHAJJAR	DELHI	TPDDL	-760.61295	735.29138	HARYANA	LT-05
RAJASTHAN	RAJ SOLAR	PUNJAB	PUNJAB	-35.27735	35.27735	NVVNL	LT-16
RAJASTHAN	RAJ SOLAR	UTTAR PRADESH	UPPCL	-80.64555	80.64555	NVVNL	LT-17
N/A	KWHEP	HARYANA	HARYANA	-1586.03425	1533.25595	PTC	LT-25
N/A	KWHEP	UTTAR PRADESH	UPPCL	-1586.03425	1533.25595	PTC	LT-26
N/A	KWHEP	RAJASTHAN	RAJASTHAN	-824.75568	797.31152	PTC	LT-27
RAJASTHAN	RAJ SOLAR	DELHI	TPDDL	-33.21572	33.21572	SECI Trader	LT-31
RAJASTHAN	RAJ SOLAR	HARYANA	HARYANA	-105.14272	105.14272	SECI Trader	LT-32
RAJASTHAN	RAJ SOLAR	DELHI	BYPL	-33.35275	33.35275	SECI Trader	LT-35
RAJASTHAN	RAJ SOLAR	DELHI	BRPL	-34.18870	34.18870	SECI Trader	LT-36
RAJASTHAN	RAJ SOLAR	HIMACHAL PRADESH	HP	-34.09495	34.09495	SECI Trader	LT-37
UTTAR PRADESH	ALAKNANDA	UTTARAKHAND	UTTARAKHAND	-275.71920	266.55840	UPPCL	LT-38
RAJASTHAN	RAJ SOLAR	PUNJAB	PUNJAB	-45.69132	45.69132	SECI Trader	LT-42
N/A	KWHEP	HARYANA	HARYANA	-1395.73268	1349.28728	PTC	LT-54
N/A	KWHEP	PUNJAB	PUNJAB	-1586.03425	1533.25595	PTC	LT-56
HIMACHAL PRADESH	SHEPL HP	DELHI	TPDDL	-74.87975	72.38810	SHEPL HP	LT-59
N/A	AvSEPL BHD2	PUNJAB	PUNJAB	-679.35520	679.35520	NHPCL	M_NR_2023_01
N/A	AvSEPL BHD2	J & K	JK&LADAKH	-45.29018	45.29018	NHPCL	M_NR_2023_02
UTTARAKHAND	UTTARAKHAND	DELHI	BYPL	-358.56000	346.62960	APPCPL	NR/2023/12168/A
HIMACHAL PRADESH	HP	DELHI	BYPL	-93.04800	89.94960	APPCPL	NR/2023/12422/A
HIMACHAL PRADESH	HP	PUNJAB	PUNJAB	-2812.26960	2718.74640	APPCPL	NR/2023/12453/A
HIMACHAL PRADESH	HP	PUNJAB	PUNJAB	-580.80000	561.47280	APPCPL	NR/2023/12454/A
HIMACHAL PRADESH	HP	PUNJAB	PUNJAB	-1247.61600	1206.14880	APPCPL	NR/2023/12456/A
UTTARAKHAND	UTTARAKHAND	HARYANA	HARYANA	-1160.64000	1122.03840	HARYANA	NR/2023/12524/A
N/A	SINGOLI	UTTAR PRADESH	NPCL(UP)	-89.50000	86.52895	PTC	NR/2023/13988/A
HIMACHAL PRADESH	HP-GOVT	UTTAR PRADESH	UPPCL	-127.17440	122.94560	TPTCL	NR/2023/14517/A
HIMACHAL PRADESH	HP	DELHI	BRPL	-217.11200	209.88880	APPCPL	NR/2023/14746/A
HIMACHAL PRADESH	HP	DELHI	BRPL	-736.56000	712.03680	MANIKARAN	NR/2023/14895/A
HIMACHAL PRADESH	HP	DELHI	BRPL	-580.80000	561.47280	MANIKARAN	NR/2023/14898/A
RAJASTHAN	RUVNL	UTTAR PRADESH	UPPCL	-454.99280	439.85860	UPPCL	NR/2023/15014/A
RAJASTHAN	RUVNL	UTTAR PRADESH	UPPCL	-2778.96400	2686.53000	UPPCL	NR/2023/15015/A
RAJASTHAN	RUVNL	UTTAR PRADESH	UPPCL	-764.86300	739.41800	UPPCL	NR/2023/15016/A
J & K	JK&LADAKH	UTTAR PRADESH	UPPCL	-409.60000	395.98400	UPPCL	NR/2023/15223/F
J & K	JK&LADAKH	UTTAR PRADESH	UPPCL	-48.00000	46.40450	UPPCL	NR/2023/15225/F
HIMACHAL PRADESH	HP-GOVT	UTTAR PRADESH	NPCL(UP)	-334.80000	323.67120	TPTCL	NR/2023/15266/F
N/A	ADHPL	UTTAR PRADESH	UPPCL	-139.50000	134.86260	STATKRAFT	NR/2023/15278/F
HIMACHAL PRADESH	BSHP	DELHI	JHPL-DL	-3.84000	3.72480	BSHP	NR/2023/15296/F
HIMACHAL PRADESH	BSHP	DELHI	MAX-HPTL	-3.60960	3.49440	BSHP	NR/2023/15303/F
HIMACHAL PRADESH	BSHP	DELHI	MHIL	-2.30400	2.22720	BSHP	NR/2023/15304/F

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Short item: 10W NEP 53 Entries 643.83
 10W NEP 2 Entries 624.5115
 1268.33915



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Table - I
Details of Intra-Regional Scheduled Bilateral Exchanges (LUs)

From State/Station	From Utility	To State	To Utility	Ex-Seller	Ex-Purchaser	Applicant	OA Code
N/A	SINGOLI	UTTARAKHAND	UTTARAKHAND	-3.84000	3.71520	UTTARAKHAND	NR/2023/15825/D
UTTAR PRADESH	LAPL-UP	DELHI	BYPL	-3.40000	3.29035	KEIPL	NR/2023/15831/D
N/A	BUDHIL	HIMACHAL PRADESH	HP	-0.42750	0.41372	IEXL	NR/2023/15836/C
N/A	SAINI	HIMACHAL PRADESH	HP	-0.66500	0.64362	IEXL	NR/2023/15837/C
N/A	ADHPL	HIMACHAL PRADESH	HP	-1.61500	1.56275	IEXL	NR/2023/15838/C
J & K	SPDC-JK	HARYANA	HARYANA	-72.00000	69.48480	HARYANA	NR/2023/15841/F
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-8.40000	8.12880	HARYANA	NR/2023/15842/C
J & K	SPDC-JK	HARYANA	HARYANA	-36.00000	34.83840	HARYANA	NR/2023/15843/C
J & K	SPDC-JK	HARYANA	HARYANA	-36.00000	34.83840	HARYANA	NR/2023/15844/D
J & K	SPDC-JK	HARYANA	HARYANA	-36.00000	34.74240	HARYANA	NR/2023/15845/D
HIMACHAL PRADESH	CHANJUI	DELHI	TPDDL	-4.66860	4.51770	TPDDL	NR/2023/15846/C
HIMACHAL PRADESH	GEE HP	UTTAR PRADESH	NPCL(UP)	-4.46650	4.32282	HPXL	NR/2023/15847/C
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-1.68890	1.63425	GBHHPL	NR/2023/15851/C
N/A	SAINJ	HIMACHAL PRADESH	HP	-11.24400	10.88060	TPTCL	NR/2023/15853/C
N/A	RSRPL BKN	DELHI	NDMC	-1.44000	1.39360	SJVNL	NR/2023/15854/C
RAJASTHAN	SREE-RJ	UTTAR PRADESH	NPCL(UP)	-0.63000	0.60965	HPXL	NR/2023/15855/C
N/A	ADHPL	DELHI	BRPL	-1.36000	1.31600	IEXL	NR/2023/15858/C
HIMACHAL PRADESH	MALANA	DELHI	BRPL	-2.56000	2.47740	IEXL	NR/2023/15859/C
N/A	ADHPL	RAJASTHAN	RUVNL	-0.40000	0.38710	IEXL	NR/2023/15861/C
N/A	SINGOLI	UTTARAKHAND	UTTARAKHAND	-3.76000	3.63780	UTTARAKHAND	NR/2023/15863/D
N/A	SAINJ	HIMACHAL PRADESH	HP	-11.25260	10.88900	TPTCL	NR/2023/15867/D
UTTAR PRADESH	LAPL-UP	DELHI	BYPL	-4.00000	3.87100	KEIPL	NR/2023/15872/D
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-1.55665	1.50670	GBHHPL	NR/2023/15873/C
HIMACHAL PRADESH	GEE HP	UTTAR PRADESH	NPCL(UP)	-1.40250	1.35722	HPXL	NR/2023/15878/C
HIMACHAL PRADESH	CHANJUI	DELHI	TPDDL	-4.64010	4.49000	TPDDL	NR/2023/15879/C
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-7.27000	7.03510	HARYANA	NR/2023/15880/C
N/A	RSRPL BKN	DELHI	NDMC	-1.44000	1.39360	SJVNL	NR/2023/15881/C
N/A	SCLTPS	RAJASTHAN	RUVNL	-4.80000	4.64500	IEXL	NR/2023/15888/C
N/A	SCLTPS	UTTAR PRADESH	UPPCL	-21.60000	20.88220	SCL	NR/2023/15889/F
N/A	SCLTPS	UTTAR PRADESH	UPPCL	-1.44000	1.38980	SCL	NR/2023/15890/D
N/A	SINGOLI	UTTARAKHAND	UTTARAKHAND	-1.96000	1.89140	UTTARAKHAND	NR/2023/15895/D
N/A	SAINJ	HIMACHAL PRADESH	HP	-11.25260	10.85960	TPTCL	NR/2023/15897/D
UTTAR PRADESH	LAPL-UP	DELHI	BYPL	-4.00000	3.86000	KEIPL	NR/2023/15900/D
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-8.16000	7.87440	HARYANA	NR/2023/15904/D
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-1.91798	1.85135	GBHHPL	NR/2023/15905/C
HIMACHAL PRADESH	HP-GOVT	UTTAR PRADESH	UPPCL	-135.38250	130.87750	TPTCL	NR/2023/15906/F
HIMACHAL PRADESH	HP-GOVT	UTTAR PRADESH	UPPCL	-9.02550	8.71050	TPTCL	NR/2023/15907/C
N/A	KWHEP	UTTAR PRADESH	UPPCL	-5.74350	5.54330	TPTCL	NR/2023/15909/C
HIMACHAL PRADESH	GEE HP	UTTAR PRADESH	NPCL(UP)	-2.28950	2.20950	HPXL	NR/2023/15911/C
HIMACHAL PRADESH	CHANJUI	DELHI	TPDDL	-4.29640	4.14690	TPDDL	NR/2023/15918/C



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Table - I
Details of Intra-Regional Scheduled Bilateral Exchanges (LUs)

From State/Station	From Utility	To State	To Utility	Ex-Seller	Ex-Purchaser	Applicant	OA Code
N/A	RSRPL BKN	DELHI	NDMC	-1.44000	1.38960	SJVNL	NR/2023/15919/C
N/A	SCLTPS	UTTAR PRADESH	UPPCL	-1.44000	1.38980	SCL	NR/2023/15922/D
N/A	KWHEP	UTTAR PRADESH	UPPCL	-5.74350	5.54330	TPTCL	NR/2023/15931/D
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-8.40000	8.10720	HARYANA	NR/2023/15933/D
UTTAR PRADESH	LAPL-UP	DELHI	BYPL	-4.59500	4.43400	KEIPL	NR/2023/15934/C
HIMACHAL PRADESH	HP-GOVT	UTTAR PRADESH	UPPCL	-9.02550	8.71050	TPTCL	NR/2023/15935/C
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-1.33280	1.28595	GBHHPL	NR/2023/15936/C
HIMACHAL PRADESH	GBHHPL	UTTAR PRADESH	DAUJIISPAT	-0.60000	0.57920	GMRETL	NR/2023/15938/C
HIMACHAL PRADESH	GBHHPL	UTTAR PRADESH	SEQUENCEFERR O	-0.71200	0.68720	GMRETL	NR/2023/15939/C
HIMACHAL PRADESH	GBHHPL	UTTAR PRADESH	SRMPL	-0.79200	0.76400	GMRETL	NR/2023/15941/C
N/A	KWHEP	UTTAR PRADESH	UPPCL	-78.76800	76.15740	TPTCL	NR/2023/15942/F
N/A	SAINJ	HIMACHAL PRADESH	HP	-11.25260	10.85960	TPTCL	NR/2023/15944/C
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-8.40000	8.10720	HARYANA	NR/2023/15945/D
DELHI	BYPL	UTTAR PRADESH	TISCL UP	-0.85000	0.82000	PXIL	NR/2023/15946/C
N/A	RSRPL BKN	DELHI	NDMC	-1.44000	1.38960	SJVNL	NR/2023/15947/C
HIMACHAL PRADESH	CHANJUI	DELHI	TPDDL	-2.20610	2.12930	TPDDL	NR/2023/15949/C
UTTAR PRADESH	LAPL-UP	DELHI	BYPL	-4.80000	4.63200	KEIPL	NR/2023/15955/D
N/A	SCLTPS	UTTAR PRADESH	UPPCL	-1.44000	1.38980	SCL	NR/2023/15959/D
HIMACHAL PRADESH	HP-GOVT	UTTAR PRADESH	UPPCL	-9.02550	8.71050	TPTCL	NR/2023/15967/D
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-1.91798	1.85135	GBHHPL	NR/2023/15969/C
N/A	SAINJ	HIMACHAL PRADESH	HP	-11.26120	10.86770	TPTCL	NR/2023/15970/C
N/A	KWHEP	UTTAR PRADESH	UPPCL	-5.74350	5.54330	TPTCL	NR/2023/15972/C
HIMACHAL PRADESH	CHANJUI	DELHI	TPDDL	-0.78080	0.75360	TPDDL	NR/2023/15973/C
HIMACHAL PRADESH	CHANJUI	DELHI	TPDDL	-4.65670	4.49460	TPDDL	NR/2023/15974/C
HIMACHAL PRADESH	GEE HP	UTTAR PRADESH	NPCL(UP)	-3.00550	2.90048	HPXL	NR/2023/15981/C
N/A	RSRPL BKN	DELHI	NDMC	-1.44000	1.38960	SJVNL	NR/2023/15982/C
UTTAR PRADESH	LAPL-UP	DELHI	BYPL	-4.00000	3.86000	KEIPL	NR/2023/15993/D
RAJASTHAN	SREE-RJ	UTTAR PRADESH	NPCL(UP)	-0.74000	0.71420	IEXL	NR/2023/15997/C
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-1.91798	1.85135	GBHHPL	NR/2023/15998/C
J & K	SPDC-JK	HARYANA	HARYANA	-36.00000	34.74240	HARYANA	NR/2023/15999/C
N/A	SAINJ	HIMACHAL PRADESH	HP	-11.26120	10.86770	TPTCL	NR/2023/16000/C
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-8.28000	7.99080	HARYANA	NR/2023/16001/C
N/A	KWHEP	UTTAR PRADESH	UPPCL	-5.74350	5.54330	TPTCL	NR/2023/16002/C
HIMACHAL PRADESH	CHANJUI	DELHI	TPDDL	-4.38350	4.23090	TPDDL	NR/2023/16003/C
RAJASTHAN	SREE-RJ	UTTAR PRADESH	NPCL(UP)	-0.55000	0.53090	IEXL	NR/2023/16007/C
HIMACHAL PRADESH	GEE HP	UTTAR PRADESH	NPCL(UP)	-5.63200	5.43540	HPXL	NR/2023/16012/C
DELHI	BYPL	UTTAR PRADESH	NPCL(UP)	-2.38000	2.29692	HPXL	NR/2023/16013/C
N/A	RSRPL BKN	DELHI	NDMC	-1.44000	1.38960	SJVNL	NR/2023/16017/C
UTTAR PRADESH	LAPL-UP	DELHI	BYPL	-2.00000	1.93000	KEIPL	NR/2023/16024/D
N/A	SAINJ	HIMACHAL PRADESH	HP	-11.26120	10.86770	TPTCL	NR/2023/16030/C



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Table - I
Details of Intra-Regional Scheduled Bilateral Exchanges (LUs)

From State/Station	From Utility	To State	To Utility	Ex-Seller	Ex-Purchaser	Applicant	OA Code
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-1.93630	1.86902	GBHHPL	NR/2023/16032/C
J & K	SPDC-JK	HARYANA	HARYANA	-180.00000	174.12000	HARYANA	NR/2023/16033/F
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-8.10000	7.81770	HARYANA	NR/2023/16034/C
J & K	SPDC-JK	HARYANA	HARYANA	-36.00000	34.74240	HARYANA	NR/2023/16035/C
J & K	SPDC-JK	HARYANA	HARYANA	-36.00000	34.74240	HARYANA	NR/2023/16036/D
J & K	SPDC-JK	HARYANA	HARYANA	-36.00000	34.74240	HARYANA	NR/2023/16037/D
HIMACHAL PRADESH	CHANJUII	DELHI	TPDDL	-4.63110	4.46980	TPDDL	NR/2023/16038/C
N/A	KWHEP	DELHI	BRPL	-10.21200	9.85680	PXIL	NR/2023/16044/C
RAJASTHAN	SREE-RJ	UTTAR PRADESH	NPCL(UP)	-1.15500	1.11468	IEXL	NR/2023/16050/C
N/A	SCLTPS	UTTAR PRADESH	NPCL(UP)	-1.90000	1.83350	IEXL	NR/2023/16052/C
HIMACHAL PRADESH	GEE HP	UTTAR PRADESH	NPCL(UP)	-5.62400	5.42760	HPXL	NR/2023/16058/C
N/A	RSRPL BKN	DELHI	NDMC	-0.80000	0.77200	SJVNL	NR/2023/16059/C
DELHI	BYPL	UTTAR PRADESH	NPCL(UP)	-1.20000	1.15800	HPXL	NR/2023/16064/C
N/A	SAINJ	HIMACHAL PRADESH	HP	-11.26120	10.86770	TPTCL	NR/2023/16065/D
UTTAR PRADESH	LAPL-UP	DELHI	BYPL	-1.60000	1.54400	KEIPL	NR/2023/16067/D
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-1.90742	1.84098	GBHHPL	NR/2023/16069/C
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-7.64000	7.37360	HARYANA	NR/2023/16070/C
HIMACHAL PRADESH	CHANJUII	DELHI	TPDDL	-4.45830	4.30310	TPDDL	NR/2023/16072/C
RAJASTHAN	SREE-RJ	UTTAR PRADESH	NPCL(UP)	-7.70000	7.43145	IEXL	NR/2023/16082/C
HIMACHAL PRADESH	GEE HP	UTTAR PRADESH	NPCL(UP)	-4.20800	4.06105	HPXL	NR/2023/16089/C
DELHI	BYPL	UTTAR PRADESH	NPCL(UP)	-0.95000	0.91675	HPXL	NR/2023/16091/C
UTTAR PRADESH	PPGCL	RAJASTHAN	RUVNL	-1.75000	1.68910	HPXL	NR/2023/16102/D
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-6.88000	6.63920	HARYANA	NR/2023/16105/D
UTTAR PRADESH	LAPL-UP	DELHI	BYPL	-3.20000	3.08800	KEIPL	NR/2023/16106/D
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-1.21292	1.17055	GBHHPL	NR/2023/16108/C
N/A	SAINJ	HIMACHAL PRADESH	HP	-11.26120	10.86770	TPTCL	NR/2023/16109/C
HIMACHAL PRADESH	CHANJUII	DELHI	TPDDL	-4.14330	3.99900	TPDDL	NR/2023/16114/C
PUNJAB	PUNJAB	RAJASTHAN	RUVNL	-1.50000	1.44780	IEXL	NR/2023/16115/C
N/A	RSRPL BKN	DELHI	NDMC	-1.44000	1.38960	SJVNL	NR/2023/16122/C
N/A	ADHPL	DELHI	BRPL	-4.26000	4.11120	IEXL	NR/2023/16127/C
DELHI	BYPL	UTTAR PRADESH	NPCL(UP)	-2.15000	2.07490	HPXL	NR/2023/16129/C
HIMACHAL PRADESH	GEE HP	UTTAR PRADESH	NPCL(UP)	-2.86900	2.76878	HPXL	NR/2023/16136/C
UTTAR PRADESH	PPGCL	RAJASTHAN	RUVNL	-1.75000	1.69260	HPXL	NR/2023/16139/D
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-7.12000	6.88720	HARYANA	NR/2023/16150/D
N/A	SAINJ	HIMACHAL PRADESH	HP	-11.07415	10.71155	TPTCL	NR/2023/16151/D
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-2.03048	1.96370	GBHHPL	NR/2023/16154/C
UTTAR PRADESH	LAPL-UP	DELHI	BYPL	-2.40000	2.32140	KEIPL	NR/2023/16155/C
HIMACHAL PRADESH	GEE HP	UTTAR PRADESH	NPCL(UP)	-3.50900	3.39480	HPXL	NR/2023/16162/C
DELHI	BYPL	UTTAR PRADESH	NPCL(UP)	-0.75000	0.72540	HPXL	NR/2023/16166/C
HIMACHAL PRADESH	CHANJUII	DELHI	TPDDL	-4.20730	4.06960	TPDDL	NR/2023/16167/C



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From State/Station	From Utility	To State	To Utility	Ex-Seller	Ex-Purchaser	Applicant	OA Code
N/A	RSRPL BKN	DELHI	NDMC	-0.64000	0.61920	SJVNL	NR/2023/16172:C
N/A	SCLTPS	DELHI	BRPL	-1.15000	1.11250	IEXL	NR/2023/16174:C
N/A	SCLTPS	UTTAR PRADESH	NPCL(UP)	-1.68250	1.62752	IEXL	NR/2023/16175:C
UTTAR PRADESH	PPGCL	RAJASTHAN	RUVNL	-1.75000	1.69260	HPXL	NR/2023/16179:D
UTTAR PRADESH	LAPL-UP	DELHI	BYPL	-2.80000	2.70830	KEIPL	NR/2023/16186:D
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-2.12252	2.05312	GBHHPL	NR/2023/16195:C
UTTAR PRADESH	PPGCL	RAJASTHAN	RUVNL	-12.25000	11.84820	HPXL	NR/2023/16198:F
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-6.88000	6.65440	HARYANA	NR/2023/16208:C
HIMACHAL PRADESH	CHANJUII	DELHI	TPDDL	-4.21490	4.07700	TPDDL	NR/2023/16214:C
N/A	RSRPL BKN	DELHI	NDMC	-0.80000	0.77360	SJVNL	NR/2023/16216:C
N/A	SORANG HEP	UTTAR PRADESH	NPCL(UP)	-0.40000	0.38700	HPXL	NR/2023/16220:C
N/A	SAINJ	HIMACHAL PRADESH	HP	-11.09980	10.73630	TPTCL	NR/2023/16222:C
N/A	SCLTPS	DELHI	BRPL	-1.15000	1.11250	IEXL	NR/2023/16223:C
HIMACHAL PRADESH	GEE IIP	UTTAR PRADESH	NPCL(UP)	-2.57500	2.49105	HPXL	NR/2023/16233:C
UTTAR PRADESH	PPGCL	RAJASTHAN	RUVNL	-1.75000	1.69260	HPXL	NR/2023/16243:D
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-6.88000	6.65440	HARYANA	NR/2023/16252:C
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-2.47110	2.38980	GBHHPL	NR/2023/16253:C
J & K	SPDC-JK	HARYANA	HARYANA	-216.00000	208.94400	HARYANA	NR/2023/16256:F
N/A	RSRPL BKN	DELHI	NDMC	-0.40000	0.38720	SJVNL	NR/2023/16257:C
HIMACHAL PRADESH	CHANJUII	DELHI	TPDDL	-4.08370	3.94990	TPDDL	NR/2023/16260:C
N/A	SAINJ	HIMACHAL PRADESH	HP	-11.08920	10.72620	TPTCL	NR/2023/16261:C
HIMACHAL PRADESH	GEE HP	UTTAR PRADESH	NPCL(UP)	-5.12650	4.95965	HPXL	NR/2023/16266:C
N/A	SCLTPS	DELHI	BRPL	-1.15000	1.11250	IEXL	NR/2023/16268:C
N/A	KWHEP	RAJASTHAN	RUVNL	-26.90000	26.01960	HPXL	NR/2023/16275:C
UTTAR PRADESH	PPGCL	RAJASTHAN	RUVNL	-1.75000	1.69260	HPXL	NR/2023/16282:D
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-2.54910	2.46630	GBHHPL	NR/2023/16297:C
HIMACHAL PRADESH	CHANJUII	DELHI	TPDDL	-4.08080	3.94710	TPDDL	NR/2023/16299:C
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-2.76000	2.66880	HARYANA	NR/2023/16301:C
HIMACHAL PRADESH	GEE HP	UTTAR PRADESH	NPCL(UP)	-3.43250	3.32080	HPXL	NR/2023/16304:C
N/A	SAINJ	HIMACHAL PRADESH	HP	-11.06555	10.70315	TPTCL	NR/2023/16307:C
DELHI	BYPL	UTTAR PRADESH	NPCL(UP)	-3.30000	3.19220	HPXL	NR/2023/16311:C
N/A	SCLTPS	DELHI	BRPL	-1.15000	1.11250	IEXL	NR/2023/16312:C
UTTAR PRADESH	LAPL-UP	DELHI	BYPL	-2.40000	2.32140	KEIPL	NR/2023/16314:D
HIMACHAL PRADESH	GEE HP	RAJASTHAN	RUVNL	-6.00000	5.80320	IEXL	NR/2023/16326:D
PUNJAB	PUNJAB	DELHI	BRPL	-2.55000	2.46660	IEXL	NR/2023/16329:C
PUNJAB	PUNJAB	DELHI	BRPL	-1.50000	1.45080	HPXL	NR/2023/16334:C
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-2.76000	2.66880	HARYANA	NR/2023/16335:C
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-2.54910	2.46630	GBHHPL	NR/2023/16336:C
N/A	SAINJ	HIMACHAL PRADESH	HP	-10.89140	10.53430	TPTCL	NR/2023/16338:C
HIMACHAL PRADESH	CHANJUII	DELHI	TPDDL	-4.26630	4.12680	TPDDL	NR/2023/16339:C



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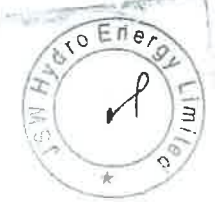
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Details of Intra-Regional Scheduled Bilateral Exchanges (LUs)

From State/Station	From Utility	To State	To Utility	Ex-Seller	Ex-Purchaser	Applicant	OA Code
N/A	SCLTPS	DELHI	BRPL	-1.15000	1.11250	IEXL	NR/2023/16354/C
DELHI	BYPL	UTTAR PRADESH	NPCL(UP)	-2.95000	2.85390	PXIL	NR/2023/16357/C
UTTAR PRADESH	LAPL-UP	DELHI	BYPL	-2.87750	2.78328	KEIPL	NR/2023/16368/D
HIMACHAL PRADESH	GEE HP	RAJASTHAN	RUVNL	-6.00000	5.80320	IEXL	NR/2023/16370/D
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-0.76050	0.73580	HARYANA	NR/2023/16374/C
N/A	SAINJ	HIMACHAL PRADESH	HP	-10.88495	10.52800	TPTCL	NR/2023/16379/C
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-5.56800	5.38560	HARYANA	NR/2023/16380/C
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-1.40740	1.36180	GBHHPL	NR/2023/16383/C
N/A	SORANG HEP	UTTAR PRADESH	NPCL(UP)	-19.82000	19.17160	HPXL	NR/2023/16384/C
HIMACHAL PRADESH	CHANJUI	DELHI	TPDDL	-4.11180	3.97740	TPDDL	NR/2023/16385/C
DELHI	BYPL	UTTAR PRADESH	NPCL(UP)	-2.12500	2.05530	PXIL	NR/2023/16389/C
HIMACHAL PRADESH	MALANA	UTTAR PRADESH	NPCL(UP)	-12.73250	12.31605	IEXL	NR/2023/16391/C
N/A	SCLTPS	DELHI	BRPL	-1.15000	1.11250	IEXL	NR/2023/16392/C
HIMACHAL PRADESH	GEE HP	RAJASTHAN	RUVNL	-6.00000	5.80320	IEXL	NR/2023/16411/D
N/A	SAINJ	HIMACHAL PRADESH	HP	-8.76720	8.48130	TPTCL	NR/2023/16418/D
UTTAR PRADESH	LAPL-UP	DELHI	BYPL	-3.60000	3.48210	KEIPL	NR/2023/16419/D
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-5.56800	5.38560	HARYANA	NR/2023/16420/D
N/A	KVHEP	UTTAR PRADESH	UPPCL	-1.64100	1.58740	TPTCL	NR/2023/16422/C
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-1.35852	1.31458	GBHHPL	NR/2023/16423/C
N/A	SCLTPS	DELHI	BRPL	-1.15000	1.11250	HPXL	NR/2023/16424/C
HIMACHAL PRADESH	CHANJUI	DELHI	TPDDL	-3.53890	3.42310	TPDDL	NR/2023/16429/C
N/A	RSRPL BKN	DELHI	BYPL	-1.28000	1.23800	KEIPL	NR/2023/16431/C
DELHI	BYPL	UTTAR PRADESH	NPCL(UP)	-2.47750	2.39648	PXIL	NR/2023/16436/C
UTTAR PRADESH	LAPL-UP	DELHI	BYPL	-1.20000	1.16100	KEIPL	NR/2023/16443/D
HIMACHAL PRADESH	GEE HP	RAJASTHAN	RUVNL	-6.00000	5.80320	IEXL	NR/2023/16444/D
N/A	SAINJ	HIMACHAL PRADESH	HP	-7.39230	7.15120	TPTCL	NR/2023/16449/D
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-5.52000	5.34000	HARYANA	NR/2023/16452/C
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-2.17900	2.10700	GBHHPL	NR/2023/16453/C
N/A	ADHPL	UTTAR PRADESH	NPCL(UP)	-8.65000	8.36710	IEXL	NR/2023/16459/C
HIMACHAL PRADESH	CHANJUI	DELHI	TPDDL	-3.35150	3.24230	TPDDL	NR/2023/16460/C
N/A	SCLTPS	DELHI	BRPL	-1.15000	1.11250	HPXL	NR/2023/16464/C
DELHI	BYPL	UTTAR PRADESH	NPCL(UP)	-1.35000	1.30575	PXIL	NR/2023/16466/C
N/A	RSRPL BKN	DELHI	NDMC	-1.18000	1.14140	SJVNL	NR/2023/16468/C
UTTAR PRADESH	LAPL-UP	DELHI	BYPL	-2.50000	2.41812	KEIPL	NR/2023/16476/D
N/A	SAINJ	HIMACHAL PRADESH	HP	-7.34940	7.10970	TPTCL	NR/2023/16478/D
HIMACHAL PRADESH	GEE HP	RAJASTHAN	RUVNL	-6.00000	5.80320	IEXL	NR/2023/16488/C
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-2.18940	2.11710	GBHHPL	NR/2023/16494/C
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-5.52000	5.34000	HARYANA	NR/2023/16495/C
N/A	RSRPL BKN	DELHI	NDMC	-1.08000	1.04460	SJVNL	NR/2023/16501/C
HIMACHAL PRADESH	CHANJUI	DELHI	TPDDL	-3.35150	3.24230	TPDDL	NR/2023/16502/C



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Table - J
Details of Inter-Regional Bilateral Exchanges (LUs)

From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
WEST BENGAL	IPCL WB	UTTAR PRADESH	LAPL-UP	-3.01000	-3.01000	KEIPL	ER/2023/10010/D
WEST BENGAL	IPCL WB	UTTAR PRADESH	BCMLB001	-1.19000	-1.19000	KEIPL	ER/2023/10011/D
WEST BENGAL	CESC	UTTAR PRADESH	LAPL-UP	-3.69500	-3.69500	PXIL	ER/2023/10016/C
WEST BENGAL	WBSEDCL	HIMACHAL PRADESH	HP-GOVT	-39.09000	-39.09000	IELX	ER/2023/10019/C
ORISSA	ODISHA	N/A	KWHEP	-10.21200	-10.21200	PXIL	ER/2023/10023/C
WEST BENGAL	CESC	N/A	KWHEP	-15.43000	-15.43000	IELX	ER/2023/10025/C
WEST BENGAL	CESC	N/A	RSRPL BKN	-5.39750	-5.39750	HPXL	ER/2023/10026/C
WEST BENGAL	IPCL WB	UTTAR PRADESH	LAPL-UP	-5.60000	-5.60000	KEIPL	ER/2023/10035/D
ORISSA	VLSEZ	DELHI	BYPL	-4.35500	-4.35500	HPXL	ER/2023/10044/C
ORISSA	ODISHA	N/A	KWHEP	-10.21200	-10.21200	PXIL	ER/2023/10046/C
WEST BENGAL	IPCL WB	UTTAR PRADESH	LAPL-UP	-5.60000	-5.60000	KEIPL	ER/2023/10065/D
BIHAR	BSPHCL	PUNJAB	PUNJAB	-2.00000	-2.00000	IELX	ER/2023/10072/C
ORISSA	VLSEZ	DELHI	BYPL	-6.17500	-6.17500	HPXL	ER/2023/10074/C
WEST BENGAL	CESC	UTTAR PRADESH	BCMLB001	-0.59500	-0.59500	PXIL	ER/2023/10076/C
WEST BENGAL	WBSEDCL	HIMACHAL PRADESH	HP-GOVT	-30.20000	-30.20000	PXIL	ER/2023/10077/C
WEST BENGAL	CESC	N/A	RSRPL BKN	-7.33750	-7.33750	HPXL	ER/2023/10080/C
BIHAR	BSPHCL	HIMACHAL PRADESH	MALANA	-3.85000	-3.85000	IELX	ER/2023/10085/C
WEST BENGAL	CESC	N/A	ADHPL	-7.49000	-7.49000	IELX	ER/2023/10090/C
WEST BENGAL	IPCL WB	UTTAR PRADESH	LAPL-UP	-5.60000	-5.60000	KEIPL	ER/2023/10102/D
WEST BENGAL	CESC	N/A	RSRPL BKN	-6.91000	-6.91000	HPXL	ER/2023/10109/C
JHARKHAND	JBVNL	N/A	KWHEP	-11.94000	-11.94000	PXIL	ER/2023/10114/C
ORISSA	VLSEZ	DELHI	BYPL	-4.90000	-4.90000	HPXL	ER/2023/10115/C
WEST BENGAL	WBSEDCL	HIMACHAL PRADESH	HP-GOVT	-42.31000	-42.31000	PXIL	ER/2023/10117/C
JHARKHAND	JBVNL	HIMACHAL PRADESH	MALANA	-4.40000	-4.40000	IELX	ER/2023/10124/C
WEST BENGAL	WBSEDCL	HIMACHAL PRADESH	HP-GOVT	-76.49000	-76.49000	HPXL	ER/2023/10141/C
JHARKHAND	JBVNL	UTTAR PRADESH	LAPL-UP	-9.60000	-9.60000	PXIL	ER/2023/10142/C
ORISSA	VLSEZ	DELHI	BYPL	-3.00000	-3.00000	HPXL	ER/2023/10143/C
ORISSA	ODISHA	PUNJAB	PUNJAB	-3.00000	-3.00000	IELX	ER/2023/10156/C
WEST BENGAL	CESC	DELHI	BYPL	-6.00000	-6.00000	IELX	ER/2023/10160/C
WEST BENGAL	CESC	DELHI	BYPL	-2.00000	-2.00000	IELX	ER/2023/10163/C
WEST BENGAL	WBSEDCL	HIMACHAL PRADESH	HP-GOVT	-38.08000	-38.08000	HPXL	ER/2023/10171/C
ORISSA	ODISHA	N/A	KWHEP	-10.21200	-10.21200	PXIL	ER/2023/10172/C
WEST BENGAL	IPCL WB	PUNJAB	PUNJAB	-0.75000	-0.75000	IELX	ER/2023/10179/C
WEST BENGAL	CESC	DELHI	BYPL	-8.00000	-8.00000	HPXL	ER/2023/10185/C
ORISSA	VLSEZ	DELHI	BYPL	-15.10000	-15.10000	HPXL	ER/2023/10220/C
ORISSA	VLSEZ	N/A	RSRPL BKN	-2.55000	-2.55000	HPXL	ER/2023/10221/C
ORISSA	VLSEZ	DELHI	BYPL	-6.00000	-6.00000	PXIL	ER/2023/10223/C
ORISSA	VLSEZ	HIMACHAL PRADESH	GBHHPL	-5.80000	-5.80000	PXIL	ER/2023/10227/C
ORISSA	VLSEZ	DELHI	BYPL	-27.95000	-27.95000	HPXL	ER/2023/10236/C
ORISSA	VLSEZ	HIMACHAL PRADESH	GBHHPL	-2.90000	-2.90000	HPXL	ER/2023/10237/C



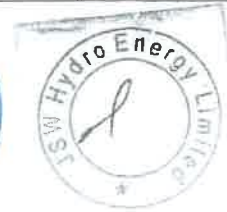
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From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
ORISSA	VLSEZ	N/A	RSRPL BKN	-2.88750	-2.88750	HPXL	ER/2023/10238/C
WEST BENGAL	CESC	HIMACHAL PRADESH	MALANA	-11.58000	-11.58000	IELX	ER/2023/10240/C
ORISSA	VLSEZ	UTTAR PRADESH	BCMLB001	-1.36000	-1.36000	PXIL	ER/2023/10246/C
WEST BENGAL	WBSEDCL	HIMACHAL PRADESH	HP-GOVT	-37.93000	-37.93000	PXIL	ER/2023/10249/C
WEST BENGAL	CESC	N/A	KWHEP	-11.07000	-11.07000	PXIL	ER/2023/10251/C
WEST BENGAL	CESC	PUNJAB	PUNJAB	-3.00000	-3.00000	PXIL	ER/2023/10252/C
WEST BENGAL	CESC	PUNJAB	PUNJAB	-9.00000	-9.00000	HPXL	ER/2023/10254/C
WEST BENGAL	IPCL WB	UTTAR PRADESH	BCMLB001	-1.36000	-1.36000	KEIPL	ER/2023/10259/D
ORISSA	VLSEZ	DELHI	BYPL	-7.12500	-7.12500	HPXL	ER/2023/10267/C
WEST BENGAL	CESC	N/A	SAINJ	-7.23000	-7.23000	PXIL	ER/2023/10272/C
WEST BENGAL	WBSEDCL	HIMACHAL PRADESH	HP-GOVT	-37.99000	-37.99000	PXIL	ER/2023/10274/C
ORISSA	VLSEZ	DELHI	BYPL	-3.75000	-3.75000	HPXL	ER/2023/10290/C
WEST BENGAL	WBSEDCL	HIMACHAL PRADESH	HP-GOVT	-38.21000	-38.21000	HPXL	ER/2023/10297/C
WEST BENGAL	WBSEDCL	N/A	SAINJ	-6.38500	-6.38500	PXIL	ER/2023/10315/C
WEST BENGAL	WBSEDCL	HIMACHAL PRADESH	HP-GOVT	-50.85750	-50.85750	HPXL	ER/2023/10322/C
WEST BENGAL	WBSEDCL	HIMACHAL PRADESH	MALANA	-10.99000	-10.99000	IELX	ER/2023/10324/C
WEST BENGAL	WBSEDCL	N/A	KWHEP	-19.02500	-19.02500	HPXL	ER/2023/10331/C
ORISSA	VLSEZ	DELHI	BYPL	-6.00000	-6.00000	HPXL	ER/2023/10334/C
WEST BENGAL	WBSEDCL	N/A	DADRI RF	-25.00000	-25.00000	HPXL	ER/2023/10341/C
WEST BENGAL	WBSEDCL	N/A	ALUR RF	-9.00000	-9.00000	HPXL	ER/2023/10342/C
WEST BENGAL	WBSEDCL	N/A	ANTA CRF	-9.00000	-9.00000	HPXL	ER/2023/10343/C
ORISSA	VLSEZ	DELHI	BYPL	-3.93750	-3.93750	HPXL	ER/2023/9521/C
ORISSA	ODISHA	N/A	KWHEP	-9.60000	-9.60000	PXIL	ER/2023/9522/C
WEST BENGAL	WBSEDCL	HIMACHAL PRADESH	HP-GOVT	-48.00000	-48.00000	HPXL	ER/2023/9523/C
BIHAR	BSPHCL	N/A	SINGOLI	-2.21500	-2.21500	IELX	ER/2023/9526/C
ORISSA	JSPLANGUL	HIMACHAL PRADESH	GBHHPL	-1.78150	-1.78150	PXIL	ER/2023/9527/C
WEST BENGAL	WBSEDCL	HIMACHAL PRADESH	HP-GOVT	-48.00000	-48.00000	HPXL	ER/2023/9539/C
BIHAR	BSPHCL	N/A	SINGOLI	-2.52250	-2.52250	IELX	ER/2023/9540/C
ORISSA	VLSEZ	N/A	RSRPL BKN	-4.20000	-4.20000	PXIL	ER/2023/9577/C
ORISSA	VLSEZ	DELHI	BYPL	-6.00000	-6.00000	HPXL	ER/2023/9578/C
ORISSA	VLSEZ	N/A	ADHPL	-13.50000	-13.50000	IELX	ER/2023/9584/C
ORISSA	ODISHA	HIMACHAL PRADESH	HP-GOVT	-9.60000	-9.60000	IELX	ER/2023/9586/C
ORISSA	JSPLANGUL	HIMACHAL PRADESH	GBHHPL	-3.11575	-3.11575	GMRETL	ER/2023/9602/C
ORISSA	JSPLBarbil	HIMACHAL PRADESH	GBHHPL	-3.16320	-3.16320	GMRETL	ER/2023/9603/C
ORISSA	VLSEZ	DELHI	BYPL	-4.20000	-4.20000	HPXL	ER/2023/9608/C
ORISSA	VLSEZ	N/A	RSRPL BKN	-3.50000	-3.50000	IELX	ER/2023/9610/C
WEST BENGAL	IPCL WB	N/A	SINGOLI	-0.96750	-0.96750	IELX	ER/2023/9615/C
ORISSA	JSPLANGUL	HIMACHAL PRADESH	GBHHPL	-5.78450	-5.78450	GMRETL	ER/2023/9630/C
ORISSA	JSPLANGUL	N/A	KWHEP	-3.54480	-3.54480	PXIL	ER/2023/9632/C
ORISSA	VLSEZ	DELHI	BYPL	-7.00000	-7.00000	HPXL	ER/2023/9633/C



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ORISSA	JSPLBarbil	N/A	KWHEP	-6.65520	-6.65520	PXIL	ER/2023/9635/C
ORISSA	VLSEZ	N/A	RSRPL BKN	-2.80000	-2.80000	PXIL	ER/2023/9643/C
ORISSA	VLSEZ	N/A	RSRPL BKN	-3.50000	-3.50000	HPXL	ER/2023/9663/C
ORISSA	JSPLANGUL	N/A	KWHEP	-10.21200	-10.21200	PXIL	ER/2023/9667/C
ORISSA	JSPLANGUL	HIMACHAL PRADESH	GBHHPL	-1.99595	-1.99595	GMRETL	ER/2023/9672/C
ORISSA	JSPLANGUL	HIMACHAL PRADESH	GBHHPL	-4.61100	-4.61100	GMRETL	ER/2023/9690/C
ORISSA	JSPLBarbil	N/A	KWHEP	-6.64800	-6.64800	PXIL	ER/2023/9696/C
ORISSA	JSPLANGUL	N/A	KWHEP	-3.56400	-3.56400	PXIL	ER/2023/9698/C
ORISSA	VLSEZ	N/A	RSRPL BKN	-3.50000	-3.50000	PXIL	ER/2023/9701/C
ORISSA	VLSEZ	N/A	RSRPL BKN	-2.50000	-2.50000	PXIL	ER/2023/9726/C
ORISSA	JSPLBarbil	N/A	KWHEP	-6.61200	-6.61200	PXIL	ER/2023/9730/C
WEST BENGAL	IPCL WB	UTTAR PRADESH	BCMLB001	-0.76500	-0.76500	KEIPL	ER/2023/9741/D
ORISSA	VLSEZ	N/A	RSRPL BKN	-3.00000	-3.00000	PXIL	ER/2023/9747/C
ORISSA	VL-CPP 1215	DELHI	BYPL	-3.00000	-3.00000	HPXL	ER/2023/9748/C
ORISSA	VLSEZ	N/A	SBSRPCIPL BKN	-3.22250	-3.22250	HPXL	ER/2023/9750/C
BIHAR	BSPHCL	N/A	SINGOLI	-0.65000	-0.65000	IEXL	ER/2023/9751/C
ORISSA	VLSEZ	DELHI	BYPL	-2.50000	-2.50000	IEXL	ER/2023/9752/C
ORISSA	JSPLBarbil	DELHI	BYPL	-2.21600	-2.21600	PXIL	ER/2023/9755/C
JHARKHAND	JBVNL	UTTAR PRADESH	LAPL-UP	-6.00000	-6.00000	PXIL	ER/2023/9772/C
ORISSA	VLSEZ	N/A	RSRPL BKN	-3.40000	-3.40000	HPXL	ER/2023/9774/C
ORISSA	VL-CPP 1215	DELHI	BYPL	-5.45000	-5.45000	HPXL	ER/2023/9800/C
WEST BENGAL	WBSEDCL	HIMACHAL PRADESH	HP-GOVT	-42.72000	-42.72000	PXIL	ER/2023/9804/C
ORISSA	VLSEZ	N/A	RSRPL BKN	-2.40000	-2.40000	HPXL	ER/2023/9808/C
WEST BENGAL	CESC	N/A	SCLTPS	-2.31000	-2.31000	HPXL	ER/2023/9810/C
JHARKHAND	JBVNL	UTTAR PRADESH	BCMLB001	-1.36000	-1.36000	IEXL	ER/2023/9813/C
BIHAR	BSPHCL	N/A	ADHPL	-1.38000	-1.38000	IEXL	ER/2023/9817/C
BIHAR	BSPHCL	RAJASTHAN	SREE-RJ	-2.40000	-2.40000	IEXL	ER/2023/9818/C
BIHAR	BSPHCL	N/A	SINGOLI	-6.64250	-6.64250	IEXL	ER/2023/9819/C
BIHAR	BSPHCL	N/A	SCLTPS	-2.92000	-2.92000	IEXL	ER/2023/9822/C
JHARKHAND	JBVNL	UTTAR PRADESH	LAPL-UP	-6.20000	-6.20000	PXIL	ER/2023/9824/C
WEST BENGAL	IPCL WB	UTTAR PRADESH	BCMLB001	-1.36000	-1.36000	KEIPL	ER/2023/9836/D
WEST BENGAL	IPCL WB	UTTAR PRADESH	LAPL-UP	-4.41000	-4.41000	KEIPL	ER/2023/9837/D
ORISSA	VLSEZ	DELHI	BYPL	-3.50000	-3.50000	HPXL	ER/2023/9847/C
BIHAR	BSPHCL	N/A	SINGOLI	-4.63000	-4.63000	IEXL	ER/2023/9854/C
WEST BENGAL	IPCL WB	UTTAR PRADESH	BCMLB001	-1.36000	-1.36000	KEIPL	ER/2023/9867/D
WEST BENGAL	IPCL WB	UTTAR PRADESH	LAPL-UP	-4.41000	-4.41000	KEIPL	ER/2023/9868/D
ORISSA	VLSEZ	DELHI	BYPL	-7.88500	-7.88500	HPXL	ER/2023/9874/C
ORISSA	VLSEZ	N/A	SBSRPCIPL BKN	-3.00000	-3.00000	PXIL	ER/2023/9876/C
BIHAR	BSPHCL	N/A	KWHEP	-5.14000	-5.14000	PXIL	ER/2023/9879/C
ORISSA	VLSEZ	N/A	ADHPL	-7.14000	-7.14000	IEXL	ER/2023/9882/C



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BIHAR	BSPHCL	HIMACHAL PRADESH	MALANA	-1.86000	-1.86000	IEXL	ER/2023/9885/C
BIHAR	BSPHCL	N/A	SINGOLI	-1.72000	-1.72000	IEXL	ER/2023/9886/C
WEST BENGAL	IPCL WB	UTTAR PRADESH	BCMLB001	-1.36000	-1.36000	KEIPL	ER/2023/9895/D
WEST BENGAL	IPCL WB	UTTAR PRADESH	LAPL-UP	-4.41000	-4.41000	KEIPL	ER/2023/9896/D
ORISSA	VLSEZ	DELHI	BYPL	-6.12500	-6.12500	HPXL	ER/2023/9902/C
WEST BENGAL	IPCL WB	UTTAR PRADESH	BCMLB001	-1.36000	-1.36000	KEIPL	ER/2023/9920/D
WEST BENGAL	IPCL WB	UTTAR PRADESH	LAPL-UP	-3.78000	-3.78000	KEIPL	ER/2023/9921/D
BIHAR	BSPHCL	PUNJAB	PUNJAB	-1.00000	-1.00000	PXIL	ER/2023/9928/C
WEST BENGAL	CESC	HIMACHAL PRADESH	HP-GOVT	-8.10750	-8.10750	PXIL	ER/2023/9932/C
JHARKHAND	JBVNL	HIMACHAL PRADESH	HP-GOVT	-7.00000	-7.00000	PXIL	ER/2023/9934/C
WEST BENGAL	WBSIEDCL	N/A	KWHEP	-26.90000	-26.90000	PXIL	ER/2023/9936/C
WEST BENGAL	IPCL WB	UTTAR PRADESH	BCMLB001	-1.36000	-1.36000	KEIPL	ER/2023/9950/D
WEST BENGAL	IPCL WB	UTTAR PRADESH	LAPL-UP	-4.41000	-4.41000	KEIPL	ER/2023/9951/D
WEST BENGAL	WBSIEDCL	HIMACHAL PRADESH	HP-GOVT	-38.97000	-38.97000	HPXL	ER/2023/9960/C
WEST BENGAL	CESC	HIMACHAL PRADESH	HP-GOVT	-15.50000	-15.50000	HPXL	ER/2023/9961/C
WEST BENGAL	CESC	N/A	RSRPL BKN	-10.44500	-10.44500	IEXL	ER/2023/9963/C
WEST BENGAL	CESC	UTTAR PRADESH	LAPL-UP	-0.63750	-0.63750	PXIL	ER/2023/9969/C
WEST BENGAL	IPCL WB	UTTAR PRADESH	LAPL-UP	-3.01000	-3.01000	KEIPL	ER/2023/9977/D
WEST BENGAL	IPCL WB	UTTAR PRADESH	BCMLB001	-1.19000	-1.19000	KEIPL	ER/2023/9978/D
ORISSA	ODISHA	RAJASTHAN	SREE-RJ	-1.56000	-1.56000	IEXL	ER/2023/9981/C
WEST BENGAL	WBSIEDCL	HIMACHAL PRADESH	HP-GOVT	-38.91000	-38.91000	IEXL	ER/2023/9986/C
ORISSA	VLSEZ	N/A	SBSRPCIPL BKN	-5.31000	-5.31000	PXIL	ER/2023/9987/C
ORISSA	VLSEZ	DELHI	BYPL	-8.58750	-8.58750	HPXL	ER/2023/9990/C
WEST BENGAL	CESC	UTTAR PRADESH	LAPL-UP	-3.18750	-3.18750	PXIL	ER/2023/9991/C
WEST BENGAL	CFSC	N/A	RSRPL BKN	-6.90000	-6.90000	IEXL	ER/2023/9997/C
WEST BENGAL	CESC	PUNJAB	PUNJAB	-3.50000	-3.50000	IEXL	ER/2023/9999/C
DVC	DVC	RAJASTHAN	RAJ_SOLAR	-20.16110	-20.16110	NVVNL	L_ER_2013_01
ORISSA	ODISHA	RAJASTHAN	RAJ_SOLAR	-15.11522	-15.11522	NVVNL	L_ER_2013_02
WEST BENGAL	WEST BENGAL	RAJASTHAN	RAJ_SOLAR	-50.40440	-50.40440	NVVNL	L_ER_2013_03
ORISSA	ODISHA	HARYANA	FARIDABAD_SOLA R	-5.85018	-5.85018	HARYANA	L_ER_2014_04
ORISSA	ODISHA	RAJASTHAN	RAJ_SOLAR	-17.55480	-17.55480	SECI Trader	L_ER_2015_01
JHARKHAND	JHARKHAND	RAJASTHAN	RAJ_SOLAR	-10.69182	-10.69182	SECI Trader	L_ER_2015_02
ORISSA	ODISHA	N/A	DADRI SOLAR	-6.29962	-6.29962	DADRI SOLAR	L_ER_2015_05
DVC	DVC	N/A	UNCHAHAH_SOLA R	-10.08020	-10.08020	UNCHAHAH SOLAR	L_ER_2015_06
BIHAR	NBPDC	N/A	SBE6PL	-297.29570	-297.29570	SBE6PL	L_ER_2021_03
BIHAR	SBPDC	N/A	SBE6PL	-348.99930	-348.99930	SBE6PL	L_ER_2021_04
BIHAR	BSPHCL	N/A	RSWPL3 FTG2	-636.27652	-636.27652	SECI Trader	L_ER_2021_05
ORISSA	ODISHA	N/A	AP43PL BKN	-679.10500	-679.10500	AP43PL BKN	L_ER_2021_06
ORISSA	ODISHA	N/A	AP41PL BHDL	-424.93582	-424.93582	SECI Trader	L_ER_2021_08
JHARKHAND	JBVNL	N/A	AP43PL BKN	-452.20750	-452.20750	SECI Trader	L_ER_2022_01



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TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-17.50548	-17.50548	TSSPDCL	SR/2023/7513/D
ANDHRA PRADESH	APCPDCL	RAJASTHAN	VSPL-RAJ	-24.00000	-24.00000	IEXL	SR/2023/7515/C
ANDHRA PRADESH	APCPDCL	RAJASTHAN	VSPL-RAJ	-293.00000	-293.00000	IEXL	SR/2023/7516/F
TAMILNADU	TANGEDCO	UTTAR PRADESH	LAPL-UP	-1.20000	-1.20000	PXIL	SR/2023/7522/C
TELANGANA	TSSPDCL	N/A	ADHPL	-17.47500	-17.47500	IEXL	SR/2023/7528/C
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-17.31005	-17.31005	TSSPDCL	SR/2023/7532/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-10.38595	-10.38595	TSSPDCL	SR/2023/7534/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.37845	-9.37845	TSSPDCL	SR/2023/7535/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.58120	-5.58120	TSSPDCL	SR/2023/7537/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-16.67585	-16.67585	TSSPDCL	SR/2023/7538/D
KERALA	KSEB	N/A	TPSL BKN	-7.92750	-7.92750	TPSL BKN	SR/2023/7541/C
ANDHRA PRADESH	APCPDCL	RAJASTHAN	VSPL-RAJ	-24.00000	-24.00000	IEXL	SR/2023/7542/C
KERALA	KSEB	UTTAR PRADESH	PPGCL	-3.50000	-3.50000	HPXL	SR/2023/7550/C
TAMILNADU	TANGEDCO	N/A	SCLTPS	-7.18000	-7.18000	IEXL	SR/2023/7556/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	HP-GOVT	-8.44000	-8.44000	IEXL	SR/2023/7557/C
TELANGANA	TSSPDCL	N/A	ADHPL	-7.43250	-7.43250	IEXL	SR/2023/7562/C
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-10.58885	-10.58885	TSSPDCL	SR/2023/7565/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-17.64850	-17.64850	TSSPDCL	SR/2023/7566/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.63982	-5.63982	TSSPDCL	SR/2023/7567/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.06162	-9.06162	TSSPDCL	SR/2023/7568/D
ANDHRA PRADESH	APCPDCL	RAJASTHAN	VSPL-RAJ	-24.00000	-24.00000	IEXL	SR/2023/7570/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-18.77308	-18.77308	TSSPDCL	SR/2023/7571/D
KERALA	KSEB	N/A	TPSL BKN	-8.15750	-8.15750	TPSL BKN	SR/2023/7573/C
TAMILNADU	TANGEDCO	UTTAR PRADESH	LAPL-UP	-1.20000	-1.20000	PXIL	SR/2023/7576/C
TAMILNADU	TANGEDCO	N/A	SCLTPS	-1.45000	-1.45000	HPXL	SR/2023/7580/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	MALANA	-1.00000	-1.00000	IEXL	SR/2023/7583/C
KERALA	KSEB	N/A	KWHEP	-10.08000	-10.08000	HPXL	SR/2023/7588/C
TELANGANA	TSSPDCL	N/A	SCLTPS	-4.78750	-4.78750	HPXL	SR/2023/7589/C
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-10.58885	-10.58885	TSSPDCL	SR/2023/7599/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-17.64850	-17.64850	TSSPDCL	SR/2023/7600/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-19.09358	-19.09358	TSSPDCL	SR/2023/7601/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.04445	-5.04445	TSSPDCL	SR/2023/7602/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-8.50365	-8.50365	TSSPDCL	SR/2023/7604/D
KERALA	KSEB	N/A	TPSL BKN	-8.15750	-8.15750	TPSL BKN	SR/2023/7605/C
ANDHRA PRADESH	APCPDCL	RAJASTHAN	VSPL-RAJ	-12.00000	-12.00000	IEXL	SR/2023/7611/C
TAMILNADU	TANGEDCO	N/A	SCLTPS	-1.56000	-1.56000	HPXL	SR/2023/7620/C
TAMILNADU	TANGEDCO	N/A	SINGOLI	-0.94000	-0.94000	HPXL	SR/2023/7621/C
TAMILNADU	TANGEDCO	UTTAR PRADESH	LAPL-UP	-1.30000	-1.30000	PXIL	SR/2023/7622/C
TELANGANA	TSSPDCL	N/A	ADHPL	-6.19250	-6.19250	IEXL	SR/2023/7625/C
TELANGANA	TSSPDCL	N/A	SCLTPS	-7.38500	-7.38500	HPXL	SR/2023/7626/C



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From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
KERALA	KSEB	N/A	TPSL BKN	-7.95500	-7.95500	TPSL BKN	SR/2023/7738/C
TAMILNADU	TANGEDCO	N/A	SCLTSP	-2.42500	-2.42500	HPXL	SR/2023/7749/C
TAMILNADU	TANGEDCO	UTTAR PRADESH	LAPL-UP	-2.10000	-2.10000	PXIL	SR/2023/7751/C
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.77825	-5.77825	TSSPDCL	SR/2023/7766/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.23348	-9.23348	TSSPDCL	SR/2023/7767/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-10.51125	-10.51125	TSSPDCL	SR/2023/7768/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-17.51895	-17.51895	TSSPDCL	SR/2023/7769/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-18.93908	-18.93908	TSSPDCL	SR/2023/7771/D
ANDHRA PRADESH	APCPDCL	RAJASTHAN	VSPL-RAJ	-12.00000	-12.00000	IEXL	SR/2023/7772/D
KERALA	KSEB	N/A	TPSL BKN	-8.05750	-8.05750	TPSL BKN	SR/2023/7775/C
TAMILNADU	TANGEDCO	RAJASTHAN	APL RAJ	-1.28000	-1.28000	IEXL	SR/2023/7777/C
TAMILNADU	TANGEDCO	UTTAR PRADESH	LAPL-UP	-3.20000	-3.20000	PXIL	SR/2023/7784/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	HP-GOVT	-53.88750	-53.88750	HPXL	SR/2023/7785/C
TELANGANA	TSSPDCL	N/A	ADHPL	-20.67000	-20.67000	IEXL	SR/2023/7792/C
TAMILNADU	TANGEDCO	N/A	SINGOLI	-4.04250	-4.04250	HPXL	SR/2023/7793/C
TELANGANA	TSSPDCL	N/A	SCLTSP	-5.35000	-5.35000	PXIL	SR/2023/7797/C
TELANGANA	TSSPDCL	N/A	RSRPL BKN	-10.77750	-10.77750	IEXL	SR/2023/7802/C
TAMILNADU	TANGEDCO	N/A	SCLTSP	-7.88500	-7.88500	IEXL	SR/2023/7803/C
TAMILNADU	TANGEDCO	RAJASTHAN	APL RAJ	-0.88000	-0.88000	IEXL	SR/2023/7808/C
KERALA	KSEB	N/A	TPSL BKN	-8.05750	-8.05750	TPSL BKN	SR/2023/7812/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-17.10658	-17.10658	TSSPDCL	SR/2023/7814/D
TELANGANA	TSSPDCL	N/A	KSPPNL_BHDL2	-17.16848	-17.16848	TSSPDCL	SR/2023/7815/D
TELANGANA	TSSPDCL	N/A	KSPPNL_BHDL2	-10.30108	-10.30108	TSSPDCL	SR/2023/7816/D
ANDHRA PRADESH	APCPDCL	RAJASTHAN	VSPL-RAJ	-12.00000	-12.00000	IEXL	SR/2023/7817/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.37338	-9.37338	TSSPDCL	SR/2023/7818/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.59882	-5.59882	TSSPDCL	SR/2023/7819/D
TAMILNADU	TANGEDCO	N/A	SCLTSP	-3.43500	-3.43500	IEXL	SR/2023/7821/C
TAMILNADU	TANGEDCO	RAJASTHAN	SREE-RJ	-0.25000	-0.25000	IEXL	SR/2023/7822/C
TAMILNADU	TANGEDCO	UTTAR PRADESH	LAPL-UP	-5.60000	-5.60000	PXIL	SR/2023/7830/C
TAMILNADU	TANGEDCO	N/A	KWHEP	-9.50600	-9.50600	PXIL	SR/2023/7832/C
KERALA	KSEB	UTTAR PRADESH	PPGCL	-1.25000	-1.25000	HPXL	SR/2023/7833/C
TELANGANA	TSSPDCL	N/A	RSRPL BKN	-4.26250	-4.26250	IEXL	SR/2023/7844/C
TELANGANA	TSSPDCL	N/A	SCLTSP	-2.41500	-2.41500	PXIL	SR/2023/7849/C
TAMILNADU	TANGEDCO	N/A	SCLTSP	-17.41440	-17.41440	IEXL	SR/2023/7851/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	HP-GOVT	-86.04500	-86.04500	IEXL	SR/2023/7859/C
TAMILNADU	TANGEDCO	N/A	RSRPL BKN	-5.97000	-5.97000	IEXL	SR/2023/7861/C
TAMILNADU	TANGEDCO	N/A	ADHPL	-4.18000	-4.18000	IEXL	SR/2023/7864/C
KERALA	KSEB	N/A	TPSL BKN	-8.05250	-8.05250	TPSL BKN	SR/2023/7871/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-20.16905	-20.16905	TSSPDCL	SR/2023/7872/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.47268	-9.47268	TSSPDCL	SR/2023/7873/D



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From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.77368	-5.77368	TSSPDCL	SR/2023/7874/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-16.11122	-16.11122	TSSPDCL	SR/2023/7878/D
TAMILNADU	TANGEDCO	UTTAR PRADESH	PPGCL	-0.90000	-0.90000	IEXL	SR/2023/7879/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-9.66648	-9.66648	TSSPDCL	SR/2023/7880/D
TAMILNADU	TANGEDCO	N/A	SCLTPS	-1.38000	-1.38000	HPXL	SR/2023/7882/D
TAMILNADU	TANGEDCO	RAJASTHAN	SREE-RJ	-2.10000	-2.10000	IEXL	SR/2023/7886/D
TAMILNADU	TANGEDCO	N/A	SINGOLI	-2.40000	-2.40000	HPXL	SR/2023/7888/D
TAMILNADU	TANGEDCO	N/A	SCLTPS	-8.28000	-8.28000	HPXL	SR/2023/7889/F
ANDHRA PRADESH	APCPDCL	RAJASTHAN	VSPL-RAJ	-12.00000	-12.00000	IEXL	SR/2023/7890/C
TAMILNADU	TANGEDCO	N/A	SINGOLI	-12.00000	-12.00000	HPXL	SR/2023/7892/F
TAMILNADU	TANGEDCO	RAJASTHAN	SREE-RJ	-12.60000	-12.60000	IEXL	SR/2023/7897/F
TELANGANA	TSSPDCL	N/A	SCLTPS	-5.08575	-5.08575	PXIL	SR/2023/7903/C
TELANGANA	TSSPDCL	RAJASTHAN	SREE-RJ	-0.90500	-0.90500	PXIL	SR/2023/7906/C
TELANGANA	TSSPDCL	N/A	SCLTPS	-4.74000	-4.74000	HPXL	SR/2023/7910/C
TELANGANA	TSSPDCL	RAJASTHAN	SREE-RJ	-1.70000	-1.70000	HPXL	SR/2023/7915/C
TAMILNADU	TANGEDCO	N/A	KWHEP	-7.33988	-7.33988	PXIL	SR/2023/7918/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	HP-GOVT	-60.51000	-60.51000	HPXL	SR/2023/7919/C
TAMILNADU	TANGEDCO	N/A	SCLTPS	-5.23000	-5.23000	HPXL	SR/2023/7920/C
TAMILNADU	TANGEDCO	N/A	SCLTPS	-2.08100	-2.08100	PXIL	SR/2023/7921/C
TAMILNADU	TANGEDCO	RAJASTHAN	SREE-RJ	-2.10000	-2.10000	IEXL	SR/2023/7935/D
TAMILNADU	TANGEDCO	UTTAR PRADESH	PPGCL	-0.90000	-0.90000	IEXL	SR/2023/7936/D
ANDHRA PRADESH	APCPDCL	RAJASTHAN	SREE-RJ	-0.77500	-0.77500	IEXL	SR/2023/7939/C
ANDHRA PRADESH	APCPDCL	N/A	SCLTPS	-2.69750	-2.69750	IEXL	SR/2023/7940/C
TELANGANA	TSSPDCL	N/A	NOKHRANT BHD2	-19.78558	-19.78558	TSSPDCL	SR/2023/7944/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-17.85532	-17.85532	TSSPDCL	SR/2023/7945/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-10.71302	-10.71302	TSSPDCL	SR/2023/7947/D
TAMILNADU	TANGEDCO	N/A	SINGOLI	-2.40000	-2.40000	HPXL	SR/2023/7948/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-8.74252	-8.74252	TSSPDCL	SR/2023/7951/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.48160	-5.48160	TSSPDCL	SR/2023/7952/D
TAMILNADU	TANGEDCO	N/A	SCLTPS	-1.38000	-1.38000	HPXL	SR/2023/7953/D
ANDHRA PRADESH	APCPDCL	RAJASTHAN	VSPL-RAJ	-12.00000	-12.00000	IEXL	SR/2023/7955/D
KERALA	KSEB	N/A	TPSL BKN	-7.94500	-7.94500	TPSL BKN	SR/2023/7958/C
TAMILNADU	TANGEDCO	UTTAR PRADESH	PPGCL	-4.50000	-4.50000	IEXL	SR/2023/7966/F
TELANGANA	TSSPDCL	RAJASTHAN	SREE-RJ	-2.50000	-2.50000	HPXL	SR/2023/7971/C
TELANGANA	TSSPDCL	N/A	SCLTPS	-23.24000	-23.24000	HPXL	SR/2023/7972/C
TELANGANA	TSSPDCL	N/A	KWHEP	-32.64000	-32.64000	IEXL	SR/2023/7975/C
TELANGANA	TSSPDCL	HIMACHAL PRADESH	HP-GOVT	-3.24000	-3.24000	PXIL	SR/2023/7977/C
TELANGANA	TSSPDCL	N/A	RSRPL BKN	-6.45250	-6.45250	IEXL	SR/2023/7978/C
TAMILNADU	TANGEDCO	RAJASTHAN	SREE-RJ	-0.60000	-0.60000	HPXL	SR/2023/7982/C
TAMILNADU	TANGEDCO	N/A	SCLTPS	-1.39250	-1.39250	HPXL	SR/2023/7984/C



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TAMILNADU	TANGEDCO	N/A	SINGOLI	-1.78500	-1.78500	IEXL	SR/2023/7991/C
TAMILNADU	TANGEDCO	N/A	KWHEP	-9.29962	-9.29962	PXIL	SR/2023/7992/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	MALANA	-5.08500	-5.08500	IEXL	SR/2023/7994/C
TAMILNADU	TANGEDCO	DELHI	BYPL	-18.25000	-18.25000	IEXL	SR/2023/7997/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	HP-GOVT	-32.30250	-32.30250	PXIL	SR/2023/8000/C
ANDHRA PRADESH	APCPDCL	RAJASTHAN	VSPL-RAJ	-12.00000	-12.00000	IEXL	SR/2023/8011/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-17.29535	-17.29535	TSSPDCL	SR/2023/8012/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-10.37728	-10.37728	TSSPDCL	SR/2023/8013/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.78600	-9.78600	TSSPDCL	SR/2023/8014/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.86415	-5.86415	TSSPDCL	SR/2023/8015/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-19.95135	-19.95135	TSSPDCL	SR/2023/8019/C
KERALA	KSEB	N/A	TPSL BKN	-7.94500	-7.94500	TPSL BKN	SR/2023/8020/C
TAMILNADU	TANGEDCO	N/A	KWHEP	-4.36138	-4.36138	PXIL	SR/2023/8028/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	HP-GOVT	-18.91250	-18.91250	PXIL	SR/2023/8044/C
TAMILNADU	TANGEDCO	N/A	KWHEP	-16.83000	-16.83000	IEXL	SR/2023/8045/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	MALANA	-6.78750	-6.78750	IEXL	SR/2023/8046/C
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-10.39158	-10.39158	TSSPDCL	SR/2023/8057/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-17.31972	-17.31972	TSSPDCL	SR/2023/8058/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.89608	-5.89608	TSSPDCL	SR/2023/8059/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.68472	-9.68472	TSSPDCL	SR/2023/8060/D
ANDHRA PRADESH	APCPDCL	RAJASTHAN	VSPL-RAJ	-12.00000	-12.00000	IEXL	SR/2023/8061/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-19.68308	-19.68308	TSSPDCL	SR/2023/8065/C
KERALA	KSEB	N/A	TPSL BKN	-7.95000	-7.95000	TPSL BKN	SR/2023/8066/C
TAMILNADU	TANGEDCO	UTTAR PRADESH	PPGCL	-0.90000	-0.90000	IEXL	SR/2023/8067/C
TAMILNADU	TANGEDCO	N/A	KWHEP	-4.18000	-4.18000	PXIL	SR/2023/8074/C
TELANGANA	TSSPDCL	N/A	SCLTSP	-11.99000	-11.99000	HPXL	SR/2023/8075/C
TAMILNADU	TANGEDCO	N/A	KWHEP	-2.89962	-2.89962	PXIL	SR/2023/8079/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	MALANA	-0.98500	-0.98500	IEXL	SR/2023/8089/C
TAMILNADU	TANGEDCO	N/A	ADHPL	-1.58250	-1.58250	IEXL	SR/2023/8090/C
ANDHRA PRADESH	APCPDCL	RAJASTHAN	VSPL-RAJ	-12.00000	-12.00000	IEXL	SR/2023/8099/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-6.15090	-6.15090	TSSPDCL	SR/2023/8100/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.72415	-9.72415	TSSPDCL	SR/2023/8101/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-10.37728	-10.37728	TSSPDCL	SR/2023/8102/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-17.29535	-17.29535	TSSPDCL	SR/2023/8103/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-19.06208	-19.06208	TSSPDCL	SR/2023/8104/D
KERALA	KSEB	N/A	TPSL BKN	-8.00000	-8.00000	TPSL BKN	SR/2023/8106/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	HP-GOVT	-3.00250	-3.00250	PXIL	SR/2023/8109/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	MALANA	-0.42500	-0.42500	IEXL	SR/2023/8119/C
KERALA	KSEB	PUNJAB	PUNJAB	-3.50000	-3.50000	HPXL	SR/2023/8128/C
KERALA	KSEB	PUNJAB	PUNJAB	-2.50000	-2.50000	PXIL	SR/2023/8129/C



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TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-18.96458	-18.96458	TSSPDCL	SR/2023/8132/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-16.66435	-16.66435	TSSPDCL	SR/2023/8133/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-9.99850	-9.99850	TSSPDCL	SR/2023/8134/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.12750	-9.12750	TSSPDCL	SR/2023/8135/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.46385	-5.46385	TSSPDCL	SR/2023/8136/D
ANDHRA PRADESH	APCPDCL	RAJASTHAN	VSPL-RAJ	-12.00000	-12.00000	IEXL	SR/2023/8137/D
KERALA	KSEB	N/A	TPSL BKN	-7.67250	-7.67250	TPSL BKN	SR/2023/8141/C
KARNATAKA	PCKL	N/A	KWHEP	-10.21200	-10.21200	PXIL	SR/2023/8143/C
KARNATAKA	PCKL	N/A	RSRPL BKN	-9.93500	-9.93500	HPXL	SR/2023/8150/C
KARNATAKA	PCKL	HIMACHAL PRADESH	MALANA	-15.20000	-15.20000	IEXL	SR/2023/8158/C
KARNATAKA	PCKL	N/A	ADHPL	-23.92000	-23.92000	IFXL	SR/2023/8165/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	HP-GOVT	-13.25000	-13.25000	PXIL	SR/2023/8170/C
TAMILNADU	TANGEDCO	RAJASTHAN	SREE-RJ	-0.41000	-0.41000	IEXL	SR/2023/8175/C
TAMILNADU	TANGEDCO	N/A	SCLTSPS	-11.84500	-11.84500	IEXL	SR/2023/8176/C
KARNATAKA	PCKL	N/A	SCLTSPS	-6.09000	-6.09000	IEXL	SR/2023/8177/C
TAMILNADU	TANGEDCO	PUNJAB	PUNJAB	-3.00000	-3.00000	PXIL	SR/2023/8178/C
KERALA	KSEB	N/A	TPSL BKN	-8.03500	-8.03500	TPSL BKN	SR/2023/8182/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-17.64132	-17.64132	TSSPDCL	SR/2023/8185/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-10.58472	-10.58472	TSSPDCL	SR/2023/8186/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.24090	-9.24090	TSSPDCL	SR/2023/8187/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.83042	-5.83042	TSSPDCL	SR/2023/8188/D
ANDHRA PRADESH	APCPDCL	RAJASTHAN	VSPL-RAJ	-12.00000	-12.00000	IEXL	SR/2023/8195/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-19.56958	-19.56958	TSSPDCL	SR/2023/8197/C
KARNATAKA	PCKL	N/A	KWHEP	-10.21200	-10.21200	PXIL	SR/2023/8199/C
KARNATAKA	PCKL	N/A	ADHPL	-23.11000	-23.11000	IEXL	SR/2023/8216/C
KARNATAKA	PCKL	HIMACHAL PRADESH	MALANA	-15.20000	-15.20000	IEXL	SR/2023/8226/C
KARNATAKA	PCKL	N/A	SCLTSPS	-16.38500	-16.38500	PXIL	SR/2023/8229/C
TELANGANA	TSSPDCL	N/A	RSRPL BKN	-5.30000	-5.30000	IEXL	SR/2023/8233/C
TAMILNADU	TANGEDCO	N/A	SCLTSPS	-14.13250	-14.13250	IEXL	SR/2023/8240/C
TAMILNADU	TANGEDCO	RAJASTHAN	SREE-RJ	-2.33750	-2.33750	IEXL	SR/2023/8241/C
KERALA	KSEB	N/A	TPSL BKN	-8.02500	-8.02500	TPSL BKN	SR/2023/8243/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-10.69048	-10.69048	TSSPDCL	SR/2023/8246/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-17.81772	-17.81772	TSSPDCL	SR/2023/8247/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.73800	-5.73800	TSSPDCL	SR/2023/8248/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.04855	-9.04855	TSSPDCL	SR/2023/8249/D
ANDHRA PRADESH	APCPDCL	RAJASTHAN	VSPL-RAJ	-12.00000	-12.00000	IEXL	SR/2023/8251/C
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-19.70708	-19.70708	TSSPDCL	SR/2023/8254/C
TAMILNADU	TANGEDCO	RAJASTHAN	SREE-RJ	-2.22000	-2.22000	HPXL	SR/2023/8266/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	HP-GOVT	-3.87750	-3.87750	IEXL	SR/2023/8267/C
TAMILNADU	TANGEDCO	N/A	KWHEP	-6.40000	-6.40000	HPXL	SR/2023/8268/C



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Table - J

Details of Inter-Regional Bilateral Exchanges (LUs)

From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
KARNATAKA	PCKL	HIMACHAL PRADESH	MALANA	-15.20000	-15.20000	IEXL	SR/2023/8273/C
TAMILNADU	TANGEDCO	N/A	SCLTPS	-7.43500	-7.43500	HPXL	SR/2023/8274/C
KARNATAKA	PCKL	N/A	ADHPL	-19.86000	-19.86000	IEXL	SR/2023/8277/C
KARNATAKA	PCKL	N/A	SCLTPS	-34.36500	-34.36500	PXIL	SR/2023/8280/C
KARNATAKA	PCKL	RAJASTHAN	SREE-RJ	-4.99250	-4.99250	PXIL	SR/2023/8282/C
KARNATAKA	PCKL	N/A	RSRPL BKN	+10.69750	-10.69750	IEXL	SR/2023/8284/C
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-16.66435	-16.66435	TSSPDCL	SR/2023/8305/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-9.99850	-9.99850	TSSPDCL	SR/2023/8306/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHD2	-19.00408	-19.00408	TSSPDCL	SR/2023/8307/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.42388	-9.42388	TSSPDCL	SR/2023/8309/D
ANDHRA PRADESH	APCPDCL	RAJASTHAN	VSPL-RAJ	-12.00000	-12.00000	IEXL	SR/2023/8310/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.93895	-5.93895	TSSPDCL	SR/2023/8311/D
KERALA	KSEB	N/A	TPSL BKN	-7.92500	-7.92500	TPSL BKN	SR/2023/8322/C
KARNATAKA	PCKL	N/A	SCLTPS	-32.86750	-32.86750	IEXL	SR/2023/8328/C
KARNATAKA	PCKL	N/A	RSRPL BKN	-10.17500	-10.17500	IEXL	SR/2023/8330/C
KARNATAKA	PCKL	N/A	ADHPL	-17.83000	-17.83000	IEXL	SR/2023/8339/C
KARNATAKA	PCKL	HIMACHAL PRADESH	MALANA	-15.20000	-15.20000	IEXL	SR/2023/8341/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	HP-GOVT	-5.63250	-5.63250	IEXL	SR/2023/8348/C
TAMILNADU	TANGEDCO	RAJASTHAN	SREE-RJ	-0.58750	-0.58750	IEXL	SR/2023/8355/C
TAMILNADU	TANGEDCO	N/A	SCLTPS	-10.83250	-10.83250	IEXL	SR/2023/8357/C
KERALA	KSEB	N/A	TPSL BKN	-7.95500	-7.95500	TPSL BKN	SR/2023/8369/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.94748	-5.94748	TSSPDCL	SR/2023/8370/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.51342	-9.51342	TSSPDCL	SR/2023/8371/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHD2	-18.95558	-18.95558	TSSPDCL	SR/2023/8372/D
ANDHRA PRADESH	APCPDCL	RAJASTHAN	VSPL-RAJ	-9.98000	-9.98000	IEXL	SR/2023/8373/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-9.84695	-9.84695	TSSPDCL	SR/2023/8377/C
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-16.41172	-16.41172	TSSPDCL	SR/2023/8378/C
KARNATAKA	PCKL	N/A	SCLTPS	-9.25000	-9.25000	PXIL	SR/2023/8383/C
KARNATAKA	PCKL	N/A	ADHPL	-13.96000	-13.96000	IEXL	SR/2023/8389/C
TAMILNADU	TANGEDCO	N/A	SCLTPS	-14.06500	-14.06500	PXIL	SR/2023/8396/C
TAMILNADU	TANGEDCO	RAJASTHAN	SREE-RJ	-1.97250	-1.97250	PXIL	SR/2023/8397/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	HP-GOVT	-25.54250	-25.54250	IEXL	SR/2023/8409/C
TAMILNADU	TANGEDCO	N/A	KWHEP	-11.46250	-11.46250	IEXL	SR/2023/8410/C
ANDHRA PRADESH	APCPDCL	RAJASTHAN	VSPL-RAJ	-12.00000	-12.00000	IEXL	SR/2023/8417/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHD2	-18.21945	-18.21945	TSSPDCL	SR/2023/8418/D
KERALA	KSEB	N/A	TPSL BKN	-7.61250	-7.61250	TPSL BKN	SR/2023/8421/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-15.59138	-15.59138	TSSPDCL	SR/2023/8426/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-9.35442	-9.35442	TSSPDCL	SR/2023/8428/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-8.83708	-8.83708	TSSPDCL	SR/2023/8429/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.46065	-5.46065	TSSPDCL	SR/2023/8431/D



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Table - J
Details of Inter-Regional Bilateral Exchanges (LUs)

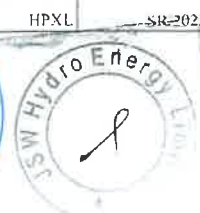
From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
TAMILNADU	TANGEDCO	N/A	KWHEP	-10.21200	-10.21200	PXIL	SR/2023/8445/C
TAMILNADU	TANGEDCO	RAJASTHAN	SREE-RJ	-1.48750	-1.48750	IEXL	SR/2023/8451/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	MALANA	-3.07500	-3.07500	IEXL	SR/2023/8454/C
KERALA	KSEB	N/A	SORANG_HEP	-5.60000	-5.60000	HPXL	SR/2023/8456/C
KARNATAKA	PCKL	HIMACHAL PRADESH	MALANA	-5.72750	-5.72750	IEXL	SR/2023/8459/C
KARNATAKA	PCKL	N/A	ADHPL	-7.91750	-7.91750	IEXL	SR/2023/8460/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	HP-GOVT	-42.26000	-42.26000	PXIL	SR/2023/8463/C
TAMILNADU	TANGEDCO	N/A	ADHPL	-3.22000	-3.22000	IEXL	SR/2023/8465/C
TAMILNADU	TANGEDCO	N/A	SCLTPS	-20.04000	-20.04000	IEXL	SR/2023/8466/C
TAMILNADU	TANGEDCO	N/A	KWHEP	-25.93250	-25.93250	PXIL	SR/2023/8470/C
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL	-18.40945	-18.40945	TSSPDCL	SR/2023/8475/D
TAMILNADU	TANGEDCO	PUNJAB	PUNJAB	-4.50000	-4.50000	PXIL	SR/2023/8478/C
ANDHRA PRADESH	APCPDCL	RAJASTHAN	SREE-RJ	-1.65750	-1.65750	HPXL	SR/2023/8481/C
ANDHRA PRADESH	APCPDCL	RAJASTHAN	VSPL-RAJ	-12.00000	-12.00000	IEXL	SR/2023/8482/D
TAMILNADU	TANGEDCO	N/A	DADRI RF	-12.00000	-12.00000	HPXL	SR/2023/8485/C
TAMILNADU	TANGEDCO	N/A	AURY RF	-6.00000	-6.00000	HPXL	SR/2023/8486/C
KERALA	KSEB	N/A	TPSL BKN	-8.12250	-8.12250	TPSL BKN	SR/2023/8487/D
KARNATAKA	PCKL	N/A	SCLTPS	-2.76250	-2.76250	PXIL	SR/2023/8492/C
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-16.29768	-16.29768	TSSPDCL	SR/2023/8493/C
TELANGANA	TSSPDCL	N/A	KSPPNL BIIDL2	-9.77845	-9.77845	TSSPDCL	SR/2023/8494/C
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.24090	-9.24090	TSSPDCL	SR/2023/8496/C
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.83042	-5.83042	TSSPDCL	SR/2023/8497/C
TAMILNADU	TANGEDCO	N/A	KWHEP	-6.12000	-6.12000	PXIL	SR/2023/8506/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	HP-GOVT	-25.29250	-25.29250	PXIL	SR/2023/8509/C
KARNATAKA	PCKL	N/A	ADHPL	-8.57750	-8.57750	IEXL	SR/2023/8512/C
TAMILNADU	TANGEDCO	N/A	KWHEP	-8.16200	-8.16200	PXIL	SR/2023/8513/C
TAMILNADU	TANGEDCO	UTTAR PRADESH	LAPL-UP	-1.00000	-1.00000	PXIL	SR/2023/8522/C
KARNATAKA	PCKL	N/A	RSRPL BKN	-2.32750	-2.32750	IEXL	SR/2023/8526/C
GOA	GOASR	N/A	ADHPL	-7.20000	-7.20000	IEXL	SR/2023/8528/C
TAMILNADU	TANGEDCO	RAJASTHAN	SREE-RJ	-2.91000	-2.91000	IEXL	SR/2023/8537/C
TAMILNADU	TANGEDCO	N/A	SCLTPS	-27.89000	-27.89000	IEXL	SR/2023/8538/C
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-16.66435	-16.66435	TSSPDCL	SR/2023/8543/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-9.99850	-9.99850	TSSPDCL	SR/2023/8544/D
TAMILNADU	TANGEDCO	PUNJAB	PUNJAB	-3.00000	-3.00000	PXIL	SR/2023/8548/C
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL	-19.51188	-19.51188	TSSPDCL	SR/2023/8549/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.26882	-9.26882	TSSPDCL	SR/2023/8550/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.86898	-5.86898	TSSPDCL	SR/2023/8551/D
KERALA	KSEB	N/A	TPSL BKN	-8.08750	-8.08750	TPSL BKN	SR/2023/8552/D
TAMILNADU	TANGEDCO	N/A	ANTA RF	-7.20000	-7.20000	HPXL	SR/2023/8553/C
TAMILNADU	TANGEDCO	N/A	DADRI RF	-15.90000	-15.90000	HPXL	SR/2023/8554/C



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Details of Inter-Regional Bilateral Exchanges (LUs)

From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
TAMILNADU	TANGEDCO	N/A	AURY RF	-10.20000	-10.20000	HPXL	SR/2023/8556/C
TAMILNADU	TANGEDCO	N/A	ANTA RF	-6.00000	-6.00000	HPXL	SR/2023/8558/C
TAMILNADU	TANGEDCO	N/A	AURY RF	-12.90000	-12.90000	HPXL	SR/2023/8559/C
TAMILNADU	TANGEDCO	N/A	DADRI RF	-17.70000	-17.70000	HPXL	SR/2023/8560/C
ANDHRA PRADESH	APCPDCL	RAJASTHAN	VSPL-RAJ	-12.00000	-12.00000	IEXL	SR/2023/8563/C
ANDHRA PRADESH	ANDHRAPETRO	HIMACHAL PRADESH	GBHHP	-0.05000	-0.05000	IEXL	SR/2023/8566/C
TAMILNADU	TANGEDCO	N/A	AURY RF	-2.60000	-2.60000	HPXL	SR/2023/8569/C
TAMILNADU	TANGEDCO	N/A	ANTA RF	-2.00000	-2.00000	HPXL	SR/2023/8571/C
TAMILNADU	TANGEDCO	N/A	DADRI RF	-1.60000	-1.60000	HPXL	SR/2023/8572/C
KERALA	KSEB	HIMACHAL PRADESH	MALANA	-15.21000	-15.21000	IEXL	SR/2023/8580/C
KARNATAKA	PCKL	RAJASTHAN	SREE-RJ	-13.23750	-13.23750	HPXL	SR/2023/8582/C
KARNATAKA	PCKL	N/A	SCLTPS	-43.93000	-43.93000	HPXL	SR/2023/8583/C
TAMILNADU	TANGEDCO	N/A	AURY RF	-31.10000	-31.10000	HPXL	SR/2023/8598/C
TAMILNADU	TANGEDCO	N/A	DADRI RF	-49.60000	-49.60000	HPXL	SR/2023/8601/C
KARNATAKA	PCKL	N/A	RSRPL BKN	-9.97500	-9.97500	HPXL	SR/2023/8609/C
KARNATAKA	PCKL	UTTAR PRADESH	PPGCL	-11.90000	-11.90000	HPXL	SR/2023/8610/C
KARNATAKA	PCKL	N/A	ADHPL	-10.91250	-10.91250	IEXL	SR/2023/8611/C
KERALA	KSEB	N/A	RSRPL BKN	-7.51000	-7.51000	IEXL	SR/2023/8614/C
TAMILNADU	TANGEDCO	N/A	ANTA RF	-13.20000	-13.20000	HPXL	SR/2023/8617/C
TAMILNADU	TANGEDCO	N/A	AURY RF	-7.50000	-7.50000	HPXL	SR/2023/8623/C
TAMILNADU	TANGEDCO	N/A	AURY RF	-3.50000	-3.50000	HPXL	SR/2023/8626/C
TAMILNADU	TANGEDCO	N/A	DADRI RF	-4.00000	-4.00000	HPXL	SR/2023/8627/C
TAMILNADU	TANGEDCO	N/A	DADRI RF	-6.00000	-6.00000	HPXL	SR/2023/8628/C
TAMILNADU	TANGEDCO	PUNJAB	PUNJAB	-3.00000	-3.00000	HPXL	SR/2023/8633/C
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-10.19845	-10.19845	TSSPDCL	SR/2023/8636/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-16.99775	-16.99775	TSSPDCL	SR/2023/8637/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.86898	-5.86898	TSSPDCL	SR/2023/8638/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.26882	-9.26882	TSSPDCL	SR/2023/8639/D
ANDHRA PRADESH	APCPDCL	RAJASTHAN	VSPL-RAJ	-12.00000	-12.00000	IEXL	SR/2023/8645/D
KERALA	KSEB	N/A	TPSL BKN	-8.08750	-8.08750	TPSL BKN	SR/2023/8646/D
TELANGANA	TSSPDCL	N/A	NOKHRANT BHDL 2	-19.16602	-19.16602	TSSPDCL	SR/2023/8647/D
TAMILNADU	TANGEDCO	N/A	ANTA RF	-0.40000	-0.40000	HPXL	SR/2023/8654/C
TAMILNADU	TANGEDCO	N/A	AURY RF	-1.20000	-1.20000	HPXL	SR/2023/8655/C
TAMILNADU	TANGEDCO	N/A	DADRI RF	-0.80000	-0.80000	HPXL	SR/2023/8656/C
TELANGANA	TSSPDCL	UTTAR PRADESH	LAPL-UP	-9.60000	-9.60000	HPXL	SR/2023/8663/C
KARNATAKA	PCKL	N/A	ADHPL	-19.87000	-19.87000	IEXL	SR/2023/8665/C
TELANGANA	TSSPDCL	RAJASTHAN	SREE-RJ	-8.67500	-8.67500	HPXL	SR/2023/8671/C
KERALA	KSEB	N/A	RSRPL BKN	-2.85000	-2.85000	HPXL	SR/2023/8685/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	GEE HP	-2.00000	-2.00000	IEXL	SR/2023/8689/C
KERALA	KSEB	N/A	KWHEP	-26.90000	-26.90000	HPXL	SR/2023/8692/C



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Details of Inter-Regional Bilateral Exchanges (LUs)

From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
KERALA	KSEB	N/A	RSRPL BKN	-10.17500	-10.17500	HPXL	SR/2023/8693/C
TELANGANA	TSSPDCL	HIMACHAL PRADESH	HP-GOVT	-32.57750	-32.57750	HPXL	SR/2023/8694/C
TELANGANA	TSSPDCL	N/A	SCLTPS	-29.95750	-29.95750	HPXL	SR/2023/8700/C
KERALA	KSEB	RAJASTHAN	MYTRAHVAYU	-5.36025	-5.36025	HPXL	SR/2023/8701/C
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.26882	-9.26882	TSSPDCL	SR/2023/8711/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.86898	-5.86898	TSSPDCL	SR/2023/8712/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHD1 2	-17.16762	-17.16762	TSSPDCL	SR/2023/8714/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-10.30048	-10.30048	TSSPDCL	SR/2023/8715/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-19.21352	-19.21352	TSSPDCL	SR/2023/8716/D
ANDHRA PRADESH	APCPDCL	RAJASTHAN	VSPL-RAJ	-12.00000	-12.00000	IEXL	SR/2023/8717/D
KERALA	KSEB	N/A	TPSL BKN	-8.37750	-8.37750	TPSL BKN	SR/2023/8722/C
TAMILNADU	TANGEDCO	N/A	ANTA CRF	-7.80000	-7.80000	HPXL	SR/2023/8723/C
TAMILNADU	TANGEDCO	N/A	AURY CRF	-9.60000	-9.60000	HPXL	SR/2023/8724/C
TAMILNADU	TANGEDCO	N/A	DADRI CRF	-16.00000	-16.00000	HPXL	SR/2023/8725/C
KERALA	KSEB	RAJASTHAN	MYTRAHVAYU	-4.36325	-4.36325	HPXL	SR/2023/8735/C
KARNATAKA	PCKL	N/A	KWHEP	-10.21200	-10.21200	PXIL	SR/2023/8739/C
TELANGANA	TSSPDCL	UTTAR PRADESH	LAPL-UP	-7.20000	-7.20000	PXIL	SR/2023/8740/C
KARNATAKA	PCKL	N/A	SCLTPS	-29.42250	-29.42250	IEXL	SR/2023/8745/C
KARNATAKA	PCKL	RAJASTHAN	SREE-RJ	-5.25000	-5.25000	IEXL	SR/2023/8748/C
TELANGANA	TSSPDCL	N/A	ADHPL	-18.24000	-18.24000	IEXL	SR/2023/8749/C
KERALA	KSEB	N/A	RSRPL BKN	-10.37675	-10.37675	HPXL	SR/2023/8750/C
TELANGANA	TSSPDCL	HIMACHAL PRADESH	HP-GOVT	-73.46000	-73.46000	IEXL	SR/2023/8759/C
KERALA	KSEB	HIMACHAL PRADESH	MALANA	-15.21000	-15.21000	IEXL	SR/2023/8768/C
KERALA	KSEB	N/A	RSRPL BKN	-10.37000	-10.37000	IEXL	SR/2023/8775/C
KERALA	KSEB	N/A	TPSL BKN	-8.05750	-8.05750	TPSL BKN	SR/2023/8778/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.76588	-9.76588	TSSPDCL	SR/2023/8781/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-6.08952	-6.08952	TSSPDCL	SR/2023/8782/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHD1 2	-17.58922	-17.58922	TSSPDCL	SR/2023/8783/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-10.55338	-10.55338	TSSPDCL	SR/2023/8784/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-19.89812	-19.89812	TSSPDCL	SR/2023/8785/D
ANDHRA PRADESH	APCPDCL	RAJASTHAN	VSPL-RAJ	-12.00000	-12.00000	IEXL	SR/2023/8788/D
TAMILNADU	TANGEDCO	N/A	DADRI CRF	-18.50000	-18.50000	HPXL	SR/2023/8793/C
TAMILNADU	TANGEDCO	N/A	ANTA CRF	-8.50000	-8.50000	HPXL	SR/2023/8794/C
TAMILNADU	TANGEDCO	N/A	AURY CRF	-10.00000	-10.00000	HPXL	SR/2023/8795/C
KARNATAKA	PCKL	N/A	RSRPL BKN	-11.15500	-11.15500	HPXL	SR/2023/8801/C
KARNATAKA	PCKL	N/A	KWHEP	-10.21200	-10.21200	PXIL	SR/2023/8802/C
KARNATAKA	PCKL	UTTAR PRADESH	PPGCL	-2.00000	-2.00000	HPXL	SR/2023/8807/C
KERALA	KSEB	RAJASTHAN	MYTRAHVAYU	-3.79100	-3.79100	HPXL	SR/2023/8810/C
KERALA	KSEB	N/A	RSRPL BKN	-9.58900	-9.58900	HPXL	SR/2023/8811/C
KARNATAKA	PCKL	N/A	KWHEP	-26.90000	-26.90000	IEXL	SR/2023/8812/C



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Details of Inter-Regional Bilateral Exchanges (LUs)

From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.76588	-9.76588	TSSPDCL	SR/2023/8930/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-6.08952	-6.08952	TSSPDCL	SR/2023/8931/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-20.06938	-20.06938	TSSPDCL	SR/2023/8934/D
ANDHRA PRADESH	APCPDCL	RAJASTHAN	VSPL-RAJ	-2.75000	-2.75000	IEXL	SR/2023/8936/D
KARNATAKA	PCKL	N/A	RSRPL BKN	-10.63750	-10.63750	HPXL	SR/2023/8939/C
TELANGANA	TSSPDCL	N/A	SCLTPS	-6.09000	-6.09000	IEXL	SR/2023/8941/C
KERALA	KSEB	RAJASTHAN	MYTRAHVAYU	-4.39950	-4.39950	HPXL	SR/2023/8955/C
TAMILNADU	TANGEDCO	PUNJAB	PUNJAB	-15.00000	-15.00000	HPXL	SR/2023/8957/C
TAMILNADU	TANGEDCO	UTTAR PRADESH	PPGCL	-1.50000	-1.50000	HPXL	SR/2023/8958/C
TAMILNADU	TANGEDCO	RAJASTHAN	SREE-RJ	-0.38750	-0.38750	HPXL	SR/2023/8959/C
TAMILNADU	TANGEDCO	N/A	SCLTPS	-15.76250	-15.76250	HPXL	SR/2023/8964/C
TAMILNADU	TANGEDCO	UTTAR PRADESH	LAPL-UP	-3.40000	-3.40000	PXIL	SR/2023/8969/C
TELANGANA	TSSPDCL	HIMACHAL PRADESH	HP-GOVT	-16.13250	-16.13250	PXIL	SR/2023/8972/C
TAMILNADU	TANGEDCO	DELHI	BYPL	-7.74750	-7.74750	IEXL	SR/2023/8973/C
TAMILNADU	TANGEDCO	N/A	KWHEP	-8.16000	-8.16000	PXIL	SR/2023/8977/C
TAMILNADU	TANGEDCO	PUNJAB	PUNJAB	-15.00000	-15.00000	PXIL	SR/2023/8978/C
TAMILNADU	TANGEDCO	N/A	ADHPL	-5.32000	-5.32000	IEXL	SR/2023/8979/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	HP-GOVT	-11.02000	-11.02000	PXIL	SR/2023/8981/C
TAMILNADU	TANGEDCO	N/A	RSRPL BKN	-1.09075	-1.09075	IEXL	SR/2023/8983/C
TAMILNADU	TANGEDCO	PUNJAB	PUNJAB	-15.00000	-15.00000	IEXL	SR/2023/8986/C
TAMILNADU	TANGEDCO	PUNJAB	PUNJAB	-4.00000	-4.00000	PXIL	SR/2023/8988/C
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-17.65585	-17.65585	TSSPDCL	SR/2023/8989/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-10.59352	-10.59352	TSSPDCL	SR/2023/8990/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-19.87938	-19.87938	TSSPDCL	SR/2023/8991/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.76588	-9.76588	TSSPDCL	SR/2023/8992/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-6.08952	-6.08952	TSSPDCL	SR/2023/8993/D
TAMILNADU	TANGEDCO	N/A	ANTA RF	-5.10000	-5.10000	HPXL	SR/2023/8994/C
TAMILNADU	TANGEDCO	N/A	DADRI RF	-9.10000	-9.10000	HPXL	SR/2023/8996/C
TAMILNADU	TANGEDCO	N/A	AURY RF	-7.00000	-7.00000	HPXL	SR/2023/8997/C
KERALA	KSEB	N/A	TPSL BKN	-7.75250	-7.75250	TPSL BKN	SR/2023/9002/C
KARNATAKA	PCKL	N/A	RSRPL BKN	-10.52500	-10.52500	HPXL	SR/2023/9005/C
TELANGANA	TSSPDCL	HIMACHAL PRADESH	HP-GOVT	-25.99500	-25.99500	PXIL	SR/2023/9009/C
TELANGANA	TSSPDCL	DELHI	BYPL	-13.00000	-13.00000	HPXL	SR/2023/9012/C
KERALA	KSEB	N/A	ADHPL	-15.80000	-15.80000	IEXL	SR/2023/9013/C
TELANGANA	TSSPDCL	N/A	KWHEP	-20.71500	-20.71500	PXIL	SR/2023/9016/C
TELANGANA	TSSPDCL	N/A	SCLTPS	-28.80750	-28.80750	IEXL	SR/2023/9017/C
TAMILNADU	TANGEDCO	PUNJAB	PUNJAB	-18.00000	-18.00000	PXIL	SR/2023/9022/C
TAMILNADU	TANGEDCO	UTTAR PRADESH	PPGCL	-1.95000	-1.95000	HPXL	SR/2023/9025/C
TAMILNADU	TANGEDCO	N/A	KWHEP	-0.75000	-0.75000	PXIL	SR/2023/9032/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	HP-GOVT	-2.46750	-2.46750	PXIL	SR/2023/9034/C



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From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
TAMILNADU	TANGEDCO	UTTAR PRADESH	LAPL-UP	-7.10000	-7.10000	PXIL	SR/2023/9039/C
TAMILNADU	TANGEDCO	PUNJAB	PUNJAB	-15.12500	-15.12500	HPXL	SR/2023/9043/C
TAMILNADU	TANGEDCO	PUNJAB	PUNJAB	-18.00000	-18.00000	IEXL	SR/2023/9045/C
TELANGANA	TSSPDCL	RAJASTHAN	SREE-RJ	-3.47500	-3.47500	IEXL	SR/2023/9051/C
TAMILNADU	TANGEDCO	DELHI	BYPL	-10.49250	-10.49250	IEXL	SR/2023/9052/C
KERALA	KSEB	N/A	TPSL BKN	-7.75250	-7.75250	TPSL BKN	SR/2023/9057/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.76588	-9.76588	TSSPDCL	SR/2023/9058/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-6.08952	-6.08952	TSSPDCL	SR/2023/9059/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-17.44148	-17.44148	TSSPDCL	SR/2023/9060/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-10.46468	-10.46468	TSSPDCL	SR/2023/9061/D
TELANGANA	TSSPDCL	N/A	NOKHRANT BHDL 2	-20.64688	-20.64688	TSSPDCL	SR/2023/9062/D
TAMILNADU	TANGEDCO	PUNJAB	PUNJAB	-7.50000	-7.50000	PXIL	SR/2023/9063/C
TAMILNADU	TANGEDCO	N/A	DADRI RF	-10.50000	-10.50000	HPXL	SR/2023/9072/C
TAMILNADU	TANGEDCO	N/A	AURY RF	-4.50000	-4.50000	HPXL	SR/2023/9073/C
TAMILNADU	TANGEDCO	N/A	ANTA CRF	-2.70000	-2.70000	HPXL	SR/2023/9074/C
KARNATAKA	PCKL	N/A	RSRPL BKN	-10.42500	-10.42500	HPXL	SR/2023/9078/C
TELANGANA	TSSPDCL	N/A	KWHEP	-18.05000	-18.05000	HPXL	SR/2023/9080/C
TELANGANA	TSSPDCL	UTTAR PRADESH	LAPL-UP	-2.70000	-2.70000	PXIL	SR/2023/9082/C
TELANGANA	TSSPDCL	RAJASTHAN	SREE-RJ	-1.01000	-1.01000	PXIL	SR/2023/9087/C
TELANGANA	TSSPDCL	HIMACHAL PRADESH	HP-GOVT	-22.59500	-22.59500	HPXL	SR/2023/9088/C
TELANGANA	TSSPDCL	N/A	SCLTPS	-12.30000	-12.30000	PXIL	SR/2023/9090/C
KERALA	KSEB	RAJASTHAN	MYTRAHVAYU	-2.91350	-2.91350	HPXL	SR/2023/9096/C
KARNATAKA	PCKL	HIMACHAL PRADESH	MALANA	-10.51000	-10.51000	IEXL	SR/2023/9098/C
TAMILNADU	TANGEDCO	UTTAR PRADESH	BCMJB001	-1.29625	-1.29625	PXIL	SR/2023/9100/C
TAMILNADU	TANGEDCO	RAJASTHAN	SREE-RJ	-3.12000	-3.12000	PXIL	SR/2023/9102/C
TAMILNADU	TANGEDCO	N/A	SCLTPS	-16.15500	-16.15500	PXIL	SR/2023/9107/C
TELANGANA	TSSPDCL	DELHI	BYPL	-16.10000	-16.10000	HPXL	SR/2023/9108/C
TAMILNADU	TANGEDCO	PUNJAB	PUNJAB	-18.00000	-18.00000	HPXL	SR/2023/9111/C
TAMILNADU	TANGEDCO	PUNJAB	PUNJAB	-18.00000	-18.00000	PXIL	SR/2023/9118/C
TAMILNADU	TANGEDCO	UTTAR PRADESH	PPGCL	-4.14500	-4.14500	HPXL	SR/2023/9119/C
TAMILNADU	TANGEDCO	PUNJAB	PUNJAB	-18.00000	-18.00000	IEXL	SR/2023/9120/C
TAMILNADU	TANGEDCO	UTTAR PRADESH	LAPL-UP	-6.90000	-6.90000	PXIL	SR/2023/9121/C
KERALA	KSEB	N/A	ADHPL	-12.55000	-12.55000	IEXL	SR/2023/9125/C
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-10.67415	-10.67415	TSSPDCL	SR/2023/9134/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-17.79008	-17.79008	TSSPDCL	SR/2023/9135/D
TELANGANA	TSSPDCL	N/A	NOKHRANT BHDL 2	-20.65438	-20.65438	TSSPDCL	SR/2023/9136/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-6.08952	-6.08952	TSSPDCL	SR/2023/9137/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.76588	-9.76588	TSSPDCL	SR/2023/9138/D
KERALA	KSEB	N/A	TPSL BKN	-7.75250	-7.75250	TPSL BKN	SR/2023/9140/C
TAMILNADU	TANGEDCO	N/A	DADRI RF	-8.30000	-8.30000	HPXL	SR/2023/9143/C



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AMNSIL WR	AMNSIL	N/A	RSRPL BKN	-3.50000	-3.50000	IEXL	WR/2023/17727/C
MAHARASHTRA	MBPL	N/A	RSRPL BKN	-0.12000	-0.12000	HPXL	WR/2023/17730/C
MAHARASHTRA	AEML	N/A	AHEJ4L S FTGI	-59.59000	-59.59000	AEML	WR/2023/17735/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTGI	-40.33750	-40.33750	AEML	WR/2023/17736/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-5.62400	-5.62400	MANIKARAN	WR/2023/17737/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-5.19500	-5.19500	MANIKARAN	WR/2023/17739/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-6.55200	-6.55200	MANIKARAN	WR/2023/17743/D
MAHARASHTRA	MBPL	N/A	RSRPL BKN	-0.12000	-0.12000	HPXL	WR/2023/17744/C
GUJRAT	TPLD	N/A	KWHEP	-6.72000	-6.72000	PXIL	WR/2023/17745/C
GOA	GOA Beneficiary	N/A	RSRPL BKN	-1.80000	-1.80000	IEXL	WR/2023/17746/C
MAHARASHTRA	AEML	N/A	AHEJ4L S FTGI	-59.72750	-59.72750	AEML	WR/2023/17758/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTGI	-45.10500	-45.10500	AEML	WR/2023/17759/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-5.25750	-5.25750	MANIKARAN	WR/2023/17764/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-6.55200	-6.55200	MANIKARAN	WR/2023/17765/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-5.62400	-5.62400	MANIKARAN	WR/2023/17766/D
MAHARASHTRA	MBPL	N/A	RSRPL BKN	-0.12000	-0.12000	HPXL	WR/2023/17767/C
GUJRAT	TPLD	N/A	KWHEP	-6.72000	-6.72000	PXIL	WR/2023/17770/C
MAHARASHTRA	AEMI	N/A	AHEJ4L S FTGI	-57.72250	-57.72250	AEML	WR/2023/17775/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTGI	-61.12000	-61.12000	AEML	WR/2023/17776/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-5.62400	-5.62400	MANIKARAN	WR/2023/17777/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-5.27500	-5.27500	MANIKARAN	WR/2023/17778/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-6.55200	-6.55200	MANIKARAN	WR/2023/17779/D
MAHARASHTRA	MBPL	N/A	RSRPL BKN	-0.12000	-0.12000	HPXL	WR/2023/17785/C
BALCO WR	BALCO LOAD	N/A	RSRPL BKN	-2.80000	-2.80000	IEXL	WR/2023/17787/C
MAHARASHTRA	AEML	N/A	AHEJ4L S FTGI	-57.82250	-57.82250	AEML	WR/2023/17793/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTGI	-63.80500	-63.80500	AEML	WR/2023/17794/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-5.12400	-5.12400	MANIKARAN	WR/2023/17795/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-5.18750	-5.18750	MANIKARAN	WR/2023/17796/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-6.50400	-6.50400	MANIKARAN	WR/2023/17801/D
MAHARASHTRA	MBPL	N/A	RSRPL BKN	-0.16900	-0.16900	HPXL	WR/2023/17808/C
MAHARASHTRA	AEML	N/A	AHEJ4L S FTGI	-55.52000	-55.52000	AEML	WR/2023/17816/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTGI	-65.48500	-65.48500	AEML	WR/2023/17817/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-5.23250	-5.23250	MANIKARAN	WR/2023/17818/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-4.90400	-4.90400	MANIKARAN	WR/2023/17819/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-6.38800	-6.38800	MANIKARAN	WR/2023/17821/D
MAHARASHTRA	MBPL	N/A	RSRPL BKN	-0.13200	-0.13200	HPXL	WR/2023/17832/C
BALCO WR	BALCO LOAD	N/A	ADHPL	-22.80000	-22.80000	IEXL	WR/2023/17838/C
MAHARASHTRA	AEML	N/A	AHEJ4L S FTGI	-54.08000	-54.08000	AEML	WR/2023/17844/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTGI	-60.33500	-60.33500	AEML	WR/2023/17845/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-4.23300	-4.23300	MANIKARAN	WR/2023/17846/D



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GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-5.22250	-5.22250	MANIKARAN	WR/2023/17847/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-6.55200	-6.55200	MANIKARAN	WR/2023/17852/D
MAHARASHTRA	AEML	UTTAR PRADESH	PPGCL	-0.62500	-0.62500	HPXL	WR/2023/17853/C
MAHARASHTRA	MBPL	N/A	RSRPL BKN	-0.09000	-0.09000	HPXL	WR/2023/17859/C
BALCO WR	BALCO LOAD	N/A	KWHEP	-2.40000	-2.40000	PXIL	WR/2023/17862/C
BALCO WR	BALCO LOAD	UTTAR PRADESH	BCMLB001	-0.59500	-0.59500	PXIL	WR/2023/17865/C
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-54.38000	-54.38000	AEML	WR/2023/17874/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-51.05750	-51.05750	AEML	WR/2023/17875/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-3.90700	-3.90700	MANIKARAN	WR/2023/17876/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-4.64750	-4.64750	MANIKARAN	WR/2023/17878/D
GOA	GOA Beneficiary	UTTARAKHAND	BIHPL	-6.48000	-6.48000	MANIKARAN	WR/2023/17879/D
MAHARASHTRA	AEML	N/A	ADHPL	-1.05000	-1.05000	IEXL	WR/2023/17896/C
MAHARASHTRA	MBPL	N/A	RSRPL BKN	-0.18000	-0.18000	HPXL	WR/2023/17897/C
BALCO WR	BALCO LOAD	DELHI	BYPL	-13.25000	-13.25000	HPXL	WR/2023/17898/C
BALCO WR	BALCO LOAD	N/A	ADHPL	-11.49000	-11.49000	IEXL	WR/2023/17906/C
BALCO WR	BALCO LOAD	N/A	RSRPL BKN	-1.35000	-1.35000	IEXL	WR/2023/17907/C
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-53.03750	-53.03750	AEML	WR/2023/17909/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-46.75000	-46.75000	AEML	WR/2023/17910/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-3.61400	-3.61400	MANIKARAN	WR/2023/17912/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-4.38500	-4.38500	MANIKARAN	WR/2023/17913/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-6.55200	-6.55200	MANIKARAN	WR/2023/17917/D
BALCO WR	BALCO LOAD	UTTAR PRADESH	BCMLB001	-1.19500	-1.19500	PXIL	WR/2023/17919/C
BALCO WR	BALCO LOAD	N/A	SBSRPC11PL BKN	-1.05000	-1.05000	HPXL	WR/2023/17922/C
MAHARASHTRA	MBPL	N/A	RSRPL BKN	-0.22500	-0.22500	HPXL	WR/2023/17926/C
BALCO WR	BALCO LOAD	RAJASTHAN	MYTRAHVAYU	-4.22275	-4.22275	HPXL	WR/2023/17930/C
GOA	GOA Beneficiary	N/A	ADHPL	-4.70000	-4.70000	IEXL	WR/2023/17935/C
MAHARASHTRA	AEML	N/A	ADHPL	-1.16500	-1.16500	IEXL	WR/2023/17937/C
AMNSIL WR	AMNSIL	N/A	RSRPL BKN	-2.00000	-2.00000	IEXL	WR/2023/17938/C
DNH	DNHDDPDC'L	N/A	ADHPL	-6.72000	-6.72000	IEXL	WR/2023/17941/C
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-53.03750	-53.03750	AEML	WR/2023/17944/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-55.18250	-55.18250	AEML	WR/2023/17945/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-3.87000	-3.87000	MANIKARAN	WR/2023/17946/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-3.36000	-3.36000	MANIKARAN	WR/2023/17947/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-6.55200	-6.55200	MANIKARAN	WR/2023/17949/D
MAHARASHTRA	MBPL	N/A	RSRPL BKN	-0.17700	-0.17700	HPXL	WR/2023/17960/C
AMNSIL WR	AMNSIL	RAJASTHAN	MYTRAHVAYU	-4.40975	-4.40975	HPXL	WR/2023/17962/C
GUJRAT	TPLD	N/A	ADHPL	-7.92000	-7.92000	IEXL	WR/2023/17963/C
AMNSIL WR	AMNSIL	N/A	RSRPL BKN	-2.00000	-2.00000	IEXL	WR/2023/17964/C
BALCO WR	BALCO LOAD	N/A	ADHPL	-4.13000	-4.13000	IEXL	WR/2023/17969/C
GOA	GOA Beneficiary	N/A	ADHPL	-0.40000	-0.40000	IEXL	WR/2023/17970/C



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From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
MAHARASHTRA	AEML	N/A	AHEJ4L S FTGI	-54.54250	-54.54250	AEML	WR/2023/18208/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTGI	-42.59500	-42.59500	AEML	WR/2023/18209/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-6.55200	-6.55200	MANIKARAN	WR/2023/18210/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-2.53300	-2.53300	MANIKARAN	WR/2023/18211/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-2.24500	-2.24500	MANIKARAN	WR/2023/18213/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	GBHHPL	-5.80000	-5.80000	GMRETL	WR/2023/18218/C
BALCO WR	BALCO LOAD	UTTAR PRADESH	BCMLB001	-1.48000	-1.48000	PXIL	WR/2023/18222/C
AMNSIL WR	AMNSIL	RAJASTHAN	MYTRAHVAYU	-4.49775	-4.49775	PXIL	WR/2023/18224/C
GOA	GOA Beneficiary	RAJASTHAN	SREE-RJ	-0.50000	-0.50000	IEXL	WR/2023/18229/C
AMNSIL WR	AMNSIL	N/A	RSRPL BKN	-8.04650	-8.04650	IEXL	WR/2023/18230/C
DNH	DNHDDPDCL	HIMACHAL PRADESH	MALANA	-10.48000	-10.48000	IEXL	WR/2023/18235/C
MAHARASHTRA	AEML	N/A	ADHPL	-3.24750	-3.24750	IEXL	WR/2023/18236/C
AMNSIL WR	AMNSIL	N/A	SORANG HEP	-20.62000	-20.62000	HPXL	WR/2023/18237/C
MAHARASHTRA	MBPL	N/A	RSRPL BKN	-0.24300	-0.24300	HPXL	WR/2023/18241/C
MAHARASHTRA	AEML	N/A	AHEJ4L S FTGI	-53.61750	-53.61750	AEML	WR/2023/18244/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTGI	-61.15750	-61.15750	AEML	WR/2023/18246/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-2.12100	-2.12100	MANIKARAN	WR/2023/18247/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-1.48750	-1.48750	MANIKARAN	WR/2023/18248/D
MAHARASHTRA	AEML	RAJASTHAN	SREE-RJ	-0.85000	-0.85000	HPXL	WR/2023/18250/C
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-6.55200	-6.55200	MANIKARAN	WR/2023/18251/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	GBHHPL	-5.80000	-5.80000	GMRETL	WR/2023/18253/C
BALCO WR	BALCO LOAD	UTTAR PRADESH	BCMLB001	-1.48000	-1.48000	PXIL	WR/2023/18257/C
MAHARASHTRA	AEML	N/A	KWHEP	-10.21200	-10.21200	PXIL	WR/2023/18261/C
AMNSIL WR	AMNSIL	N/A	SBSRPC11PL BKN	-6.74000	-6.74000	PXIL	WR/2023/18262/C
BALCO WR	BALCO LOAD	RAJASTHAN	MYTRAHVAYU	-4.35050	-4.35050	PXIL	WR/2023/18263/C
MAHARASHTRA	MBPL	N/A	RSRPL BKN	-0.09300	-0.09300	HPXL	WR/2023/18266/C
MAHARASHTRA	AEML	N/A	ADHPL	-10.97750	-10.97750	IEXL	WR/2023/18268/C
BALCO WR	BALCO LOAD	N/A	SORANG HEP	-21.08000	-21.08000	IEXL	WR/2023/18274/C
MAHARASHTRA	AEML	N/A	AHEJ4L S FTGI	-54.38250	-54.38250	AEML	WR/2023/18275/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-2.89500	-2.89500	MANIKARAN	WR/2023/18278/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTGI	-58.75000	-58.75000	AEML	WR/2023/18281/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-6.55200	-6.55200	MANIKARAN	WR/2023/18282/D
MAHARASHTRA	AEML	RAJASTHAN	APL RAJ	-1.92000	-1.92000	AEL	WR/2023/18283/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-1.46000	-1.46000	MANIKARAN	WR/2023/18286/D
GOA	GOA Beneficiary	DELHI	BRPL	-3.00000	-3.00000	IEXL	WR/2023/18287/C
GOA	GOA Beneficiary	HIMACHAL PRADESH	GBHHPL	-3.90000	-3.90000	GMRETL	WR/2023/18288/C
MAHARASHTRA	MBPL	N/A	RSRPL BKN	-0.31800	-0.31800	HPXL	WR/2023/18295/C
AMNSIL WR	AMNSIL	N/A	SBSRPC11PL BKN	-6.53500	-6.53500	PXIL	WR/2023/18299/C
BALCO WR	BALCO LOAD	N/A	SORANG HEP	-21.08000	-21.08000	HPXL	WR/2023/18300/C
BALCO WR	BALCO LOAD	UTTAR PRADESH	BCMLB001	-1.48000	-1.48000	PXIL	WR/2023/18303/C



Northern Regional Power Committee
Provisional REA for the Month of AUGUST, 2023
Table - J
Details of Inter-Regional Bilateral Exchanges (LUs)

From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-2.22000	-2.22000	MANIKARAN	WR/2023/18441/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	GBHHPL	-4.40000	-4.40000	GMRETL	WR/2023/18444/C
AMNSIL WR	AMNSIL	RAJASTHAN	MYTRAHVAYU	-3.11300	-3.11300	PXII	WR/2023/18456/C
AMNSIL WR	AMNSIL	N/A	SORANG HEP	-13.70000	-13.70000	HPXL	WR/2023/18457/C
AMNSIL WR	AMNSIL	N/A	RSRPL BKN	-5.66175	-5.66175	IEXL	WR/2023/18461/C
MAHARASHTRA	MBPL	N/A	RSRPL BKN	-0.23400	-0.23400	HPXL	WR/2023/18463/C
MAHARASHTRA	AEML	PUNJAB	PUNJAB	-2.87500	-2.87500	HPXL	WR/2023/18465/C
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-6.55200	-6.55200	MANIKARAN	WR/2023/18471/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-2.05800	-2.05800	MANIKARAN	WR/2023/18472/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTGI	-54.88250	-54.88250	AEML	WR/2023/18473/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTGI	-24.24250	-24.24250	AEML	WR/2023/18474/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-3.58000	-3.58000	MANIKARAN	WR/2023/18483/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	GBHHPL	-3.00000	-3.00000	GMRETL	WR/2023/18485/C
MAHARASHTRA	AEML	N/A	KWHEP	-2.56500	-2.56500	HPXL	WR/2023/18492/C
AMNSIL WR	AMNSIL	N/A	SAINJ	-6.77500	-6.77500	PXII	WR/2023/18494/C
AMNSIL WR	AMNSIL	N/A	SORANG HEP	-12.12000	-12.12000	IEXL	WR/2023/18495/C
BALCO WR	BALCO LOAD	N/A	SBSRPC11PL BKN	-3.51250	-3.51250	PXII	WR/2023/18499/C
BALCO WR	BALCO LOAD	N/A	RSRPL BKN	-5.03250	-5.03250	IEXL	WR/2023/18505/C
MAHARASHTRA	MBPL	N/A	RSRPL BKN	-0.29100	-0.29100	HPXL	WR/2023/18506/C
MAHARASHTRA	AEML	N/A	AHEJ4L S FTGI	-57.00500	-57.00500	AEML	WR/2023/18507/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTGI	-28.21000	-28.21000	AEML	WR/2023/18508/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-1.83600	-1.83600	MANIKARAN	WR/2023/18514/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-1.70000	-1.70000	MANIKARAN	WR/2023/18515/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-6.54000	-6.54000	MANIKARAN	WR/2023/18518/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	GBHHPL	-3.00000	-3.00000	GMRETL	WR/2023/18520/C
BALCO WR	BALCO LOAD	UTTAR PRADESH	BCMLB001	-1.48000	-1.48000	PXII	WR/2023/18526/C
BALCO WR	BALCO LOAD	N/A	ADHPL	-12.15000	-12.15000	IEXL	WR/2023/18527/C
AMNSIL WR	AMNSIL	N/A	SORANG HEP	-11.90000	-11.90000	PXII	WR/2023/18531/C
BALCO WR	BALCO LOAD	N/A	RSRPL BKN	-7.03750	-7.03750	HPXL	WR/2023/18543/C
BALCO WR	BALCO LOAD	DELHI	BYPL	-7.00000	-7.00000	HPXL	WR/2023/18544/C
MAHARASHTRA	MBPL	N/A	RSRPL BKN	-0.29800	-0.29800	HPXL	WR/2023/18545/C
AMNSIL WR	AMNSIL	N/A	RSRPL BKN	-2.98525	-2.98525	HPXL	WR/2023/18546/C



Northern Regional Power Committee
Provisional REA for the Month of AUGUST, 2023

Table - K

Details of Scheduled Energy Exchange (LUs) Through Power Exchange

Power Exchange	To Entity	EX-NR Periphery	EX-NR State Periphery
GDAM IEX	DELHI	33.175125	32.075425
GDAM IEX	HARYANA	32.240400	31.166475
GDAM IEX	HIMACHAL PRADESH	4.634400	4.482900
GDAM IEX	PUNJAB	107.723775	104.145125
GDAM IEX	RAILWAYS	55.739150	53.884850
GDAM IEX	UTTAR PRADESH	72.597875	70.176450
GDAM IEX	DELHI	-3.000000	-3.000000
GDAM IEX	HIMACHAL PRADESH	-37.915875	-37.915875
GDAM IEX	J & K	-269.395525	-269.395525
GDAM IEX	RAJASTHAN	-49.517500	-49.517500
GDAM IEX	RENEW SURYA RAVI	-114.980150	-114.980150
GDAM IEX	SBSR POWER CLEANTECH	-120.249575	-120.249575
GDAM IEX	SINGOLI BHATWARI	-97.473175	-97.473175
GDAM IEX	UTTAR PRADESH	-15.575250	-15.575250
IEX	CHANDIGARH	0.622450	0.602000
IEX	DELHI	225.270350	217.834925
IEX	HARYANA	667.727600	645.236700
IEX	HIMACHAL PRADESH	28.431450	27.499925
IEX	NEPAL	1.075000	1.038750
IEX	PUNJAB	197.843500	191.223275
IEX	RAILWAYS	127.387900	123.142675
IEX	RAJASTHAN	3023.678200	2920.760200
IEX	UTTAR PRADESH	1516.871100	1466.201700
IEX	UTTARAKHAND	75.582250	73.084850
IEX	ADANI SE JODHPUR 2 L	-116.115000	-116.115000
IEX	ADHPL	-335.155500	-335.155500
IEX	BUDHIL HEP	-62.685000	-62.685000
IEX	CHANDIGARH	-547.148950	-547.148950
IEX	DADRI TPS	-1.396500	-1.396500
IEX	DADRI-II TPS	-14.483100	-14.483100
IEX	DELHI	-3123.701875	-3123.701875
IEX	HARYANA	-625.920150	-625.920150
IEX	HIMACHAL PRADESH	-1309.823450	-1309.823450
IEX	IGSTPS-JHAJJAR	-9.730350	-9.730350
IEX	J & K	-123.706875	-123.706875
IEX	KARCHAM WANGTOO	-611.656400	-611.656400
IEX	PUNJAB	-1103.035600	-1103.035600
IEX	RAJASTHAN	-225.711650	-225.711650
IEX	RENEW SURYA RAVI	-152.988500	-152.988500
IEX	RIHAND STPS	-129.816000	-129.816000
IEX	RIHAND-II STPS	-101.905425	-101.905425
IEX	RIHAND-III STPS	-125.760000	-125.760000
IEX	SAINJ HEP	-403.831450	-403.831450
IEX	SBSR POWER CLEANTECH	-1.225000	-1.225000
IEX	SCL Beawar	-236.310725	-236.310725
IEX	SINGOLI BHATWARI	-37.538500	-37.538500
IEX	SINGRALI STPS	-4.677750	-4.677750
IEX	TANDA-II STPS	-9.616000	-9.932875



IEX	UNCHAHAAR-I TPS	-2.725750	-2.725750
IEX	UNCHAHAAR-II TPS	-9.094200	-9.094200
IEX	UNCHAHAAR-III TPS	-3.396250	-3.396250
IEX	UNCHAHAAR-IV TPS	-9.228850	-9.228850
IEX	UTTAR PRADESH	-4453.599375	-4453.599375
IEX	UTTARAKHAND	-232.319475	-232.319475
PXI	RAJASTHAN	3.500000	3.383000
PXI	UTTAR PRADESH	33.638000	32.500375
PXI	PUNJAB	-74.135000	-74.135000
PXI	RAJASTHAN	-0.925000	-0.925000
PXI	UTTAR PRADESH	-17.475000	-17.475000
RTM HPX	HIMACHAL PRADESH	-11.284000	-11.284000
RTM IEX	CHANDIGARH	1.455625	1.406550
RTM IEX	DELHI	339.283125	327.923100
RTM IEX	HARYANA	876.330425	846.831975
RTM IEX	HIMACHAL PRADESH	80.551800	77.891175
RTM IEX	PUNJAB	823.676150	795.961300
RTM IEX	RAILWAYS	91.453125	88.424725
RTM IEX	RAJASTHAN	1735.096025	1676.434325
RTM IEX	SAINJ HEP	5.996600	5.800700
RTM IEX	SINGOLI BHATWARI	2.902800	2.801625
RTM IEX	UTTAR PRADESH	1523.020325	1472.115100
RTM IEX	UTTARAKHAND	197.234200	190.618125
RTM IEX	ADANI HYBRID 4 WIND	-1.487500	-1.487500
RTM IEX	ADHPL	-55.687500	-55.687500
RTM IEX	BUDHIL HEP	-0.562500	-0.562500
RTM IEX	CHANDIGARH	-5.650000	-5.650000
RTM IEX	DADRI TPS	-44.085450	-44.085450
RTM IEX	DADRI-II TPS	-83.760650	-83.760650
RTM IEX	DELHI	-1244.024500	-1244.024500
RTM IEX	HARYANA	-223.150675	-223.150675
RTM IEX	HIMACHAL PRADESH	-940.985000	-940.985000
RTM IEX	IGSTPS-JHAJJAR	-73.270250	-73.270250
RTM IEX	J & K	-970.482750	-970.482750
RTM IEX	KARCHAM WANGTOO	-12.845250	-12.845250
RTM IEX	PUNJAB	-487.045800	-487.045800
RTM IEX	RAJASTHAN	-1185.205175	-1185.205175
RTM IEX	RENEW SURYA RAVI	-2.570500	-2.570500
RTM IEX	RIHAND STPS	-39.564575	-39.564575
RTM IEX	RIHAND-II STPS	-87.658125	-87.658125
RTM IEX	RIHAND-III STPS	-40.485500	-40.485500
RTM IEX	SAINJ HEP	-5.765500	-5.765500
RTM IEX	SCL Beawar	-54.915075	-54.915075
RTM IEX	SINGOLI BHATWARI	-43.256000	-43.256000
RTM IEX	SINGRAULI STPS	-48.282600	-48.282600
RTM IEX	SORANG HEP	-14.785000	-14.785000
RTM IEX	TANDA-II STPS	-43.266900	-44.706775
RTM IEX	UNCHAHAAR-I TPS	-18.663850	-18.663850
RTM IEX	UNCHAHAAR-II TPS	-22.319075	-22.319075
RTM IEX	UNCHAHAAR-III TPS	-13.917500	-13.917500
RTM IEX	UNCHAHAAR-IV TPS	-36.498825	-36.498825
RTM IEX	UTTAR PRADESH	-949.656225	-949.656225
RTM IEX	UTTARAKHAND	-230.164675	-230.164675
RTM PXI	HIMACHAL PRADESH	-2.271000	-2.271000



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Table - I
Details of Intra-Regional Scheduled Bilateral Exchanges (LUs)

From State/Station	From Utility	To State	To Utility	Ex-Seller	Ex-Purchaser	Applicant	OA Code
UTTAR PRADESH	MEJA	RAJASTHAN	RAJASTHAN	-330.94255	319.85842	MEJA	LT_MEJA_RAJASTHAN
UTTAR PRADESH	MEJA	UTTARAKHAND	UTTARAKHAND	-207.91572	200.82878	MEJA	LT_MEJA_uttarakhand
HARYANA	CLP JHAJJAR	DELHI	TPDDL	-575.99425	555.92680	HARYANA	LT-05
RAJASTHAN	RAJ SOLAR	PUNJAB	PUNJAB	-38.48460	38.48460	NVVNL	LT-16
RAJASTHAN	RAJ SOLAR	UTTAR PRADESH	UPPCL	-87.97608	87.97608	NVVNL	LT-17
N/A	KWHEP	HARYANA	HARYANA	-1068.19760	1032.07535	PTC	LT-25
N/A	KWHEP	UTTAR PRADESH	UPPCL	-1068.19760	1032.07535	PTC	LT-26
N/A	KWHEP	RAJASTHAN	RAJASTHAN	-555.46162	536.67868	PTC	LT-27
RAJASTHAN	RAJ SOLAR	DELHI	TPDDL	-33.59512	33.59512	SECI Trader	LT-31
RAJASTHAN	RAJ SOLAR	HARYANA	HARYANA	-109.63912	109.63912	SECI Trader	LT-32
RAJASTHAN	RAJ SOLAR	DELHI	BYPL	-33.59512	33.59512	SECI Trader	LT-35
RAJASTHAN	RAJ SOLAR	DELHI	BRPL	-34.43428	34.43428	SECI Trader	LT-36
RAJASTHAN	RAJ SOLAR	HIMACHAL PRADESH	HP	-34.43428	34.43428	SECI Trader	LT-37
UTTAR PRADESH	ALAKNANDA	UTTARAKHAND	UTTARAKHAND	-266.13600	257.06400	UPPCL	LT-38
RAJASTHAN	RAJ SOLAR	PUNJAB	PUNJAB	-47.96735	47.96735	SECI Trader	LT-42
N/A	KWHEP	HARYANA	HARYANA	-787.84235	761.45208	PTC	LT-54
N/A	KWHEP	PUNJAB	PUNJAB	-1068.19760	1032.07535	PTC	LT-56
HIMACHAL PRADESH	SHEPL HP	DELHI	TPDDL	-53.17490	51.37032	SHEPL HP	LT-59
N/A	AvSEPL BHD2	PUNJAB	PUNJAB	-641.22772	641.22772	NHPCL	M_NR_2023_01
N/A	AvSEPL BHD2	J & K	JK&LADAKH	-42.74872	42.74872	NHPCL	M_NR_2023_02
UTTARAKHAND	UTTARAKHAND	DELHI	BYPL	-360.00000	347.72880	APPCPL	NR/2023/13253/A
HIMACHAL PRADESH	HP	PUNJAB	PUNJAB	-1997.01600	1930.55760	APPCPL	NR/2023/13379/A
HIMACHAL PRADESH	HP	PUNJAB	PUNJAB	-400.56000	387.17760	APPCPL	NR/2023/13382/A
HIMACHAL PRADESH	HP	DELHI	BYPL	-102.52800	99.02400	APPCPL	NR/2023/13383/A
UTTARAKHAND	UTTARAKHAND	HARYANA	HARYANA	-784.92000	758.17680	HARYANA	NR/2023/13384/A
HIMACHAL PRADESH	HP	DELHI	BYPL	-81.60000	78.98910	STATKRAFT	NR/2023/13519/A
HIMACHAL PRADESH	HP	DELHI	BRPL	-239.23200	231.05280	APPCPL	NR/2023/16077/A
HIMACHAL PRADESH	HP	DELHI	BRPL	-400.56000	387.17760	MANIKARAN	NR/2023/16185/A
HIMACHAL PRADESH	HP	DELHI	BRPL	-855.86400	827.38800	MANIKARAN	NR/2023/16191/A
RAJASTHAN	RUVNL	UTTAR PRADESH	UPPCL	-2689.34480	2597.70400	UPPCL	NR/2023/16258/F
RAJASTHAN	RUVNL	UTTAR PRADESH	UPPCL	-740.22100	714.99800	UPPCL	NR/2023/16259/F
N/A	SCLTPS	RAJASTHAN	RUVNL	-728.88000	704.33400	HPXL	NR/2023/16277/F
UTTAR PRADESH	PPGCL	RAJASTHAN	RUVNL	-71.46500	69.01660	IEXL	NR/2023/16382/F
N/A	ADHPL	UTTAR PRADESH	UPPCL	-135.00000	130.39980	STATKRAFT	NR/2023/16470/F
J & K	SPDC-JK	HARYANA	HARYANA	-360.00000	348.07200	HARYANA	NR/2023/16496/F
HIMACHAL PRADESH	HP-GOVT	RAJASTHAN	RUVNL	-360.00000	347.72880	IEXL	NR/2023/16497/F
HIMACHAL PRADESH	HP-GOVT	UTTAR PRADESH	NPCL(UP)	-313.20000	302.52240	TPTCL	NR/2023/16506/F
UTTAR PRADESH	PPGCL	RAJASTHAN	RUVNL	-35.64100	34.42210	HPXL	NR/2023/16516/F
UTTAR PRADESH	PPGCL	DELHI	BRPL	-29.06590	28.13390	IEXL	NR/2023/16520/F
J & K	JK&LADAKH	UTTAR PRADESH	UPPCL	-33.00200	31.92295	UPPCL	NR/2023/16576/D

↑
Long term

Short term
 100 MWP
 30 entries
 2 entries
 453.25473
 379.84837
 833.1031



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Provisional REA for the Month of SEPTEMBER, 2023
Table - I
Details of Intra-Regional Scheduled Bilateral Exchanges (LUs)

From State/Station	From Utility	To State	To Utility	Ex-Seller	Ex-Purchaser	Applicant	OA Code
N/A	RSRPL BKN	DELHI	NDMC	-1.32000	1.26720	SJVNL	NR/2023/17205/C
HIMACHAL PRADESH	MALANA	UTTAR PRADESH	NPCL(UP)	-5.45000	5.22985	IEXL	NR/2023/17213/C
N/A	ADHPL	UTTAR PRADESH	NPCL(UP)	-3.44250	3.30388	IEXL	NR/2023/17214/C
N/A	SINGOLI	UTTARAKHAND	UTTARAKHAND	-3.17000	3.04320	UTTARAKHAND	NR/2023/17217/D
N/A	SAINJ	HIMACHAL PRADESH	HP	-6.81205	6.53695	TPTCL	NR/2023/17224/C
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-1.89472	1.81890	GBHHPL	NR/2023/17225/C
UTTAR PRADESH	BCMLB001	DELHI	NDMC	-0.68000	0.65280	SJVNL	NR/2023/17227/C
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-3.60000	3.45600	HARYANA	NR/2023/17228/C
HIMACHAL PRADESH	CHANJUJI	DELHI	TPDDL	-2.38450	2.28840	TPDDL	NR/2023/17233/C
HIMACHAL PRADESH	MALANA	UTTAR PRADESH	NPCL(UP)	-5.56250	5.33778	IEXL	NR/2023/17235/C
PUNJAB	PUNJAB	DELHI	BRPL	-2.00000	1.91940	PXIL	NR/2023/17237/C
N/A	KWHEP	DELHI	BRPL	-5.07750	4.87315	HPXL	NR/2023/17245/C
N/A	ADHPL	UTTAR PRADESH	NPCL(UP)	-3.16000	3.03265	IEXL	NR/2023/17247/C
N/A	RSRPL BKN	DELHI	NDMC	-1.32000	1.26720	SJVNL	NR/2023/17248/C
PUNJAB	PUNJAB	DELHI	BRPL	-5.00000	4.79850	PXIL	NR/2023/17251/C
N/A	SINGOLI	UTTARAKHAND	UTTARAKHAND	-3.17000	3.04320	UTTARAKHAND	NR/2023/17252/D
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-1.90532	1.82910	GBHHPL	NR/2023/17264/C
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-3.84000	3.68640	HARYANA	NR/2023/17267/C
N/A	RSRPL BKN	DELHI	NDMC	-1.32000	1.26720	SJVNL	NR/2023/17268/C
UTTAR PRADESH	BCMLB001	DELHI	NDMC	-0.68000	0.65280	SJVNL	NR/2023/17269/C
N/A	SAINJ	HIMACHAL PRADESH	HP	-6.98945	6.70735	TPTCL	NR/2023/17271/C
HIMACHAL PRADESH	CHANJUJI	DELHI	TPDDL	-2.40360	2.30650	TPDDL	NR/2023/17274/C
J & K	PNRENG7077	UTTAR PRADESH	NPCL(UP)	-0.42000	0.40320	IEXL	NR/2023/17276/C
HIMACHAL PRADESH	MALANA	UTTAR PRADESH	NPCL(UP)	-4.45000	4.26978	IEXL	NR/2023/17278/C
N/A	ADHPL	UTTAR PRADESH	NPCL(UP)	-5.95500	5.71505	IEXL	NR/2023/17287/C
N/A	KWHEP	DELHI	BRPL	-2.51000	2.40880	HPXL	NR/2023/17292/C
N/A	SINGOLI	DELHI	BRPL	-5.79750	5.56382	IEXL	NR/2023/17293/C
HIMACHAL PRADESH	GEE HP	UTTAR PRADESH	NPCL(UP)	-0.83850	0.80535	HPXL	NR/2023/17294/C
HIMACHAL PRADESH	HP-GOVT	DELHI	BRPL	-24.95250	23.94735	HPXL	NR/2023/17295/C
N/A	SINGOLI	UTTARAKHAND	UTTARAKHAND	-3.17000	3.04320	UTTARAKHAND	NR/2023/17303/D
J & K	JK&LADAKH	UTTAR PRADESH	UPPCL	-1.00000	0.95970	UPPCL	NR/2023/17304/C
J & K	JK&LADAKH	UTTAR PRADESH	UPPCL	-19.51250	18.72628	UPPCL	NR/2023/17307/D
UTTAR PRADESH	BCMLB001	DELHI	NDMC	-0.68000	0.65280	SJVNL	NR/2023/17308/D
N/A	SAINJ	HIMACHAL PRADESH	HP	-6.83365	6.55785	TPTCL	NR/2023/17313/C
J & K	SPDC-JK	HARYANA	HARYANA	-180.00000	173.98800	HARYANA	NR/2023/17314/F
HIMACHAL PRADESH	CHANJUJI	DELHI	TPDDL	-2.34760	2.25310	TPDDL	NR/2023/17317/C
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-3.48000	3.34080	HARYANA	NR/2023/17318/C
N/A	ADHPL	UTTAR PRADESH	NPCL(UP)	-2.93250	2.81438	IEXL	NR/2023/17323/C
N/A	RSRPL BKN	UTTAR PRADESH	NPCL(UP)	-8.44500	8.10472	HPXL	NR/2023/17325/C
HIMACHAL PRADESH	GEE HP	UTTAR PRADESH	NPCL(UP)	-0.79200	0.76080	HPXL	NR/2023/17328/C



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Table - I
Details of Intra-Regional Scheduled Bilateral Exchanges (LUs)

From State/Station	From Utility	To State	To Utility	Ex-Seller	Ex-Purchaser	Applicant	OA Code
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-1.92370	1.84670	GBHHPL	NR/2023/17330/C
HIMACHAL PRADESH	MALANA	UTTAR PRADESH	NPCL(UP)	-4.20000	4.03050	IEXL	NR/2023/17331/C
N/A	RSRPL BKN	DELHI	NDMC	-1.32000	1.26720	SJVNL	NR/2023/17334/C
N/A	SINGOLI	DELHI	BRPL	-7.88500	7.56672	IEXL	NR/2023/17335/C
N/A	SINGOLI	UTTARAKHAND	UTTARAKHAND	-3.17000	3.04320	UTTARAKHAND	NR/2023/17337/D
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-3.00000	2.88000	HARYANA	NR/2023/17348/C
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-1.40940	1.35318	GBHHPL	NR/2023/17349/C
DELHI	BYPL	UTTAR PRADESH	AMBASTL	-1.26000	1.20890	PXIL	NR/2023/17350/C
DELHI	BYPL	UTTAR PRADESH	ASIL UP	-2.10000	2.01530	PXIL	NR/2023/17351/C
N/A	SAINJ	HIMACHAL PRADESH	HP	-6.59745	6.33105	TPTCL	NR/2023/17353/C
HIMACHAL PRADESH	CHANJUI	DELHI	TPDDL	-2.21950	2.13010	TPDDL	NR/2023/17354/C
HIMACHAL PRADESH	MALANA	UTTAR PRADESH	NPCL(UP)	-3.11500	2.98940	IEXL	NR/2023/17359/C
N/A	RSRPL BKN	DELHI	NDMC	-1.32000	1.26720	SJVNL	NR/2023/17362/C
UTTAR PRADESH	BCMLB001	DELHI	NDMC	-0.68000	0.65280	SJVNL	NR/2023/17363/C
N/A	SINGOLI	UTTARAKHAND	UTTARAKHAND	-3.17000	3.06480	UTTARAKHAND	NR/2023/17369/D
N/A	SAINJ	HIMACHAL PRADESH	HP	-5.69445	5.50480	TPTCL	NR/2023/17374/C
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-2.78400	2.69040	HARYANA	NR/2023/17376/C
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-1.67252	1.61685	GBHHPL	NR/2023/17377/C
HIMACHAL PRADESH	CIANJUI	DELHI	TPDDL	-2.08020	2.01070	TPDDL	NR/2023/17379/C
HIMACHAL PRADESH	GBHHPL	UTTAR PRADESH	NPCL(UP)	-2.00000	1.93300	HPXL	NR/2023/17382/C
HIMACHAL PRADESH	MALANA	UTTAR PRADESH	NPCL(UP)	-1.54500	1.49328	IEXL	NR/2023/17384/C
N/A	ADHPL	UTTAR PRADESH	NPCL(UP)	-4.78000	4.62038	IEXL	NR/2023/17386/C
UTTAR PRADESH	BCMLB001	DELHI	NDMC	-0.68000	0.65760	SJVNL	NR/2023/17389/C
N/A	RSRPL BKN	DELHI	NDMC	-1.32000	1.27600	SJVNL	NR/2023/17390/C
N/A	SINGOLI	UTTARAKHAND	UTTARAKHAND	-3.17000	3.06480	UTTARAKHAND	NR/2023/17391/D
N/A	SAINJ	HIMACHAL PRADESH	HP	-5.54390	5.35905	TPTCL	NR/2023/17407/C
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-2.78400	2.69040	HARYANA	NR/2023/17408/C
DELHI	BYPL	UTTAR PRADESH	AMBASTL	-1.08000	1.04400	PXIL	NR/2023/17410/C
HIMACHAL PRADESH	CHANJUI	DELHI	TPDDL	-1.85970	1.79750	TPDDL	NR/2023/17411/C
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-1.67252	1.61685	GBHHPL	NR/2023/17414/C
N/A	KWHEP	DELHI	BRPL	-3.10250	2.99890	PXIL	NR/2023/17415/C
HIMACHAL PRADESH	MALANA	UTTAR PRADESH	NPCL(UP)	-3.27500	3.16530	IEXL	NR/2023/17418/C
J & K	PNRENG7077	UTTAR PRADESH	NPCL(UP)	-0.42000	0.40620	IEXL	NR/2023/17424/C
N/A	SINGOLI	UTTARAKHAND	UTTARAKHAND	-2.52500	2.44072	UTTARAKHAND	NR/2023/17430/D
N/A	SAINJ	HIMACHAL PRADESH	HP	-5.39360	5.21360	TPTCL	NR/2023/17438/C
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-2.78400	2.69040	HARYANA	NR/2023/17439/C
UTTAR PRADESH	BCMLB001	DELHI	NDMC	-0.68000	0.65760	SJVNL	NR/2023/17441/C
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-1.67252	1.61685	GBHHPL	NR/2023/17442/C
HIMACHAL PRADESH	CHANJUI	DELHI	TPDDL	-1.87690	1.81420	TPDDL	NR/2023/17444/C
HIMACHAL PRADESH	HP-GOVT	DELHI	BRPL	-4.18000	4.04042	PXIL	NR/2023/17445/C



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Table - J
Details of Inter-Regional Bilateral Exchanges (LUs)

From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
ORISSA	VLSEZ	N/A	SBSRPC I/PL BKN	-3.60000	-3.60000	PXIL	ER/2023/10356/C
ORISSA	VLSEZ	UTTAR PRADESH	BCMLB001	-2.04000	-2.04000	PXIL	ER/2023/10357/C
WEST BENGAL	WBSEDCL	N/A	SAINJ	-6.40500	-6.40500	PXIL	ER/2023/10358/C
WEST BENGAL	IPCL WB	N/A	SCLTPS	-2.88000	-2.88000	IEXL	ER/2023/10359/C
WEST BENGAL	WBSEDCL	N/A	KWHEP	-24.76500	-24.76500	PXIL	ER/2023/10361/C
WEST BENGAL	WBSEDCL	HIMACHAL PRADESH	HP-GOVT	-34.86000	-34.86000	PXIL	ER/2023/10369/C
WEST BENGAL	WBSEDCL	HIMACHAL PRADESH	GEE HP	-6.00000	-6.00000	IEXL	ER/2023/10371/C
ORISSA	VLSEZ	DELHI	BYPL	-3.60000	-3.60000	HPXL	ER/2023/10377/C
WEST BENGAL	WBSEDCL	UTTAR PRADESH	PPGCL	-6.20000	-6.20000	HPXL	ER/2023/10378/C
WEST BENGAL	WBSEDCL	N/A	SORANG HEP	-1.00000	-1.00000	HPXL	ER/2023/10398/C
ORISSA	VLSEZ	DELHI	BYPL	-5.50000	-5.50000	HPXL	ER/2023/10403/C
ORISSA	VLSEZ	DELHI	BYPL	-11.00000	-11.00000	IEXL	ER/2023/10409/C
WEST BENGAL	IPCL WB	N/A	SCLTPS	-3.03000	-3.03000	IEXL	ER/2023/10415/C
WEST BENGAL	WBSEDCL	N/A	RSRPL BKN	-10.75500	-10.75500	IEXL	ER/2023/10417/C
WEST BENGAL	WBSEDCL	RAJASTHAN	SREE-RJ	-11.47500	-11.47500	PXIL	ER/2023/10420/C
WEST BENGAL	WBSEDCL	N/A	SCLTPS	-42.49000	-42.49000	PXIL	ER/2023/10421/C
WEST BENGAL	WBSEDCL	N/A	KWHEP	-27.17000	-27.17000	PXIL	ER/2023/10422/C
WEST BENGAL	WBSEDCL	UTTAR PRADESH	PPGCL	-6.20000	-6.20000	HPXL	ER/2023/10423/C
WEST BENGAL	WBSEDCL	HIMACHAL PRADESH	HP-GOVT	-24.98000	-24.98000	PXIL	ER/2023/10425/C
ORISSA	ODISHA	HIMACHAL PRADESH	GEE HP	-6.00000	-6.00000	IEXL	ER/2023/10426/C
ORISSA	VLSEZ	N/A	RSRPL BKN	-6.27875	-6.27875	HPXL	ER/2023/10430/C
WEST BENGAL	WBSEDCL	HIMACHAL PRADESH	HP-GOVT	-30.52000	-30.52000	PXIL	ER/2023/10455/C
WEST BENGAL	WBSEDCL	N/A	KWHEP	-29.76000	-29.76000	PXIL	ER/2023/10456/C
WEST BENGAL	WBSEDCL	UTTAR PRADESH	PPGCL	-15.00000	-15.00000	HPXL	ER/2023/10457/C
WEST BENGAL	WBSEDCL	N/A	SAINJ	-6.55500	-6.55500	PXIL	ER/2023/10458/C
WEST BENGAL	WBSEDCL	N/A	SINGOLI	-21.76000	-21.76000	HPXL	ER/2023/10462/C
WEST BENGAL	WBSEDCL	N/A	KWHEP	-29.76000	-29.76000	PXIL	ER/2023/10497/C
WEST BENGAL	WBSEDCL	HIMACHAL PRADESH	HP-GOVT	-17.95750	-17.95750	PXIL	ER/2023/10503/C
WEST BENGAL	WBSEDCL	UTTAR PRADESH	LAPL-UP	-9.60000	-9.60000	PXIL	ER/2023/10504/C
WEST BENGAL	WBSEDCL	HIMACHAL PRADESH	GBHHPL	-4.40000	-4.40000	PXIL	ER/2023/10505/C
WEST BENGAL	WBSEDCL	UTTAR PRADESH	PPGCL	-11.56488	-11.56488	HPXL	ER/2023/10510/C
WEST BENGAL	WBSEDCL	RAJASTHAN	SREE-RJ	-6.70000	-6.70000	HPXL	ER/2023/10515/C
WEST BENGAL	WBSEDCL	N/A	SINGOLI	-21.06000	-21.06000	HPXL	ER/2023/10517/C
WEST BENGAL	WBSEDCL	N/A	SCLTPS	-35.56000	-35.56000	HPXL	ER/2023/10518/C
WEST BENGAL	WBSEDCL	N/A	RSRPL BKN	-10.60000	-10.60000	IEXL	ER/2023/10521/C
WEST BENGAL	WBSEDCL	N/A	SINGOLI	-21.62000	-21.62000	HPXL	ER/2023/10544/C
WEST BENGAL	WBSEDCL	UTTAR PRADESH	PPGCL	-9.23750	-9.23750	HPXL	ER/2023/10546/C
WEST BENGAL	WBSEDCL	N/A	KWHEP	-28.32000	-28.32000	PXIL	ER/2023/10552/C
WEST BENGAL	WBSEDCL	HIMACHAL PRADESH	HP-GOVT	-22.93250	-22.93250	PXIL	ER/2023/10553/C
WEST BENGAL	CESC	N/A	SCLTPS	-4.79500	-4.79500	IEXL	ER/2023/10582/C



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Table - J
Details of Inter-Regional Bilateral Exchanges (LUs)

From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
WEST BENGAL	WBSEDCL	HIMACHAL PRADESH	HP-GOVT	-19.48250	-19.48250	HPXL	ER/2023/10583/C
WEST BENGAL	WBSEDCL	N/A	KWHEP	-15.50000	-15.50000	HPXL	ER/2023/10584/C
WEST BENGAL	WBSEDCL	HIMACHAL PRADESH	MALANA	-10.14000	-10.14000	IEXL	ER/2023/10605/C
WEST BENGAL	WBSEDCL	N/A	KWHEP	-24.07000	-24.07000	HPXL	ER/2023/10606/C
WEST BENGAL	IPCL WB	DELHI	BYPL	-1.28000	-1.28000	IEXL	ER/2023/10609/C
WEST BENGAL	CESC	N/A	SCLTPS	-6.33000	-6.33000	PXIL	ER/2023/10616/C
ORISSA	VLSEZ	UTTAR PRADESH	BCMLB001	-1.36000	-1.36000	PXIL	ER/2023/10636/C
ORISSA	VLSEZ	DELHI	BYPL	-3.75000	-3.75000	HPXL	ER/2023/10639/C
WEST BENGAL	WBSEDCL	N/A	KWHEP	-20.54500	-20.54500	PXIL	ER/2023/10647/C
WEST BENGAL	CESC	N/A	ADHPL	-10.12000	-10.12000	IEXL	ER/2023/10650/C
WEST BENGAL	IPCL WB	DELHI	BYPL	-3.60000	-3.60000	IEXL	ER/2023/10652/C
WEST BENGAL	WBSEDCL	N/A	KWHEP	-5.78500	-5.78500	PXIL	ER/2023/10670/C
ORISSA	VLSEZ	UTTAR PRADESH	BCMLB001	-1.36000	-1.36000	PXIL	ER/2023/10671/C
ORISSA	VLSEZ	RAJASTHAN	MYTRAHVAYU	-1.00625	-1.00625	HPXL	ER/2023/10673/C
WEST BENGAL	IPCL WB	DELHI	BYPL	-4.68000	-4.68000	IEXL	ER/2023/10677/C
ORISSA	VLSEZ	DELHI	EDWPCL12	-0.48000	-0.48000	IEXL	ER/2023/10679/C
WEST BENGAL	IPCL WB	UTTAR PRADESH	LAPL-UP	-2.34000	-2.34000	KEIPL	ER/2023/10690/D
ORISSA	VLSEZ	RAJASTHAN	MYTRAHVAYU	-2.07375	-2.07375	HPXL	ER/2023/10698/C
ORISSA	VLSEZ	N/A	RSRPL BKN	-2.80000	-2.80000	HPXL	ER/2023/10700/C
ORISSA	VLSEZ	UTTAR PRADESH	BCMLB001	-2.04000	-2.04000	PXIL	ER/2023/10701/C
WEST BENGAL	WBSEDCL	N/A	KWHEP	-9.27000	-9.27000	PXIL	ER/2023/10702/C
ORISSA	VLSEZ	DELHI	EDWPCL12	-0.48000	-0.48000	IEXL	ER/2023/10705/C
WEST BENGAL	IPCL WB	UTTAR PRADESH	LAPL-UP	-1.26000	-1.26000	KEIPL	ER/2023/10719/D
ORISSA	VLSEZ	DELHI	BYPL	-8.50000	-8.50000	HPXL	ER/2023/10728/C
ORISSA	VLSEZ	UTTAR PRADESH	BCMLB001	-1.36000	-1.36000	PXIL	ER/2023/10731/C
ORISSA	VLSEZ	HIMACHAL PRADESH	GEE HP	-1.73850	-1.73850	IEXL	ER/2023/10736/C
WEST BENGAL	IPCL WB	DELHI	BYPL	-2.16000	-2.16000	IEXL	ER/2023/10737/C
ORISSA	VLSEZ	HIMACHAL PRADESH	MALANA	0.00000	0.00000	IEXL	ER/2023/10738/C
ORISSA	VLSEZ	N/A	RSRPL BKN	-3.30000	-3.30000	HPXL	ER/2023/10740/C
WEST BENGAL	WBSEDCL	N/A	SINGOLI	-5.89250	-5.89250	HPXL	ER/2023/10746/C
WEST BENGAL	CESC	N/A	SCLTPS	-6.49750	-6.49750	PXIL	ER/2023/10753/C
ORISSA	VLSEZ	DELHI	BYPL	-12.80000	-12.80000	HPXL	ER/2023/10768/C
WEST BENGAL	CESC	N/A	SINGOLI	-8.39000	-8.39000	HPXL	ER/2023/10773/C
ORISSA	VLSEZ	HIMACHAL PRADESH	GEE HP	-1.69200	-1.69200	IEXL	ER/2023/10781/C
WEST BENGAL	IPCL WB	DELHI	BYPL	-4.68000	-4.68000	IEXL	ER/2023/10784/C
WEST BENGAL	CESC	N/A	SCLTPS	-7.82750	-7.82750	IEXL	ER/2023/10786/C
WEST BENGAL	CESC	N/A	RSRPL BKN	-9.78000	-9.78000	IEXL	ER/2023/10787/C
WEST BENGAL	WBSEDCL	N/A	KWHEP	-19.74000	-19.74000	HPXL	ER/2023/10812/C
WEST BENGAL	CESC	N/A	ADHPL	-5.41500	-5.41500	IEXL	ER/2023/10814/C
WEST BENGAL	CESC	N/A	SCLTPS	-8.80750	-8.80750	PXIL	ER/2023/10816/C



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Table - J
Details of Inter-Regional Bilateral Exchanges (LUs)

From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
WEST BENGAL	IPCL WB	DELHI	BYPL	-3.25000	-3.25000	IEXL	ER/2023/10818/C
WEST BENGAL	WBSEDCL	HIMACHAL PRADESH	HP-GOVT	-14.54500	-14.54500	HPXL	ER/2023/10819/C
WEST BENGAL	CESC	N/A	SINGOLI	-9.60500	-9.60500	HPXL	ER/2023/10820/C
WEST BENGAL	CESC	N/A	RSRPL BKN	-7.97250	-7.97250	IEXL	ER/2023/10821/C
BIHAR	BSPHCL	RAJASTHAN	SREE-RJ	-0.87000	-0.87000	IEXL	ER/2023/10836/C
WEST BENGAL	WBSEDCL	N/A	KWHEP	-11.36000	-11.36000	HPXL	ER/2023/10842/C
WEST BENGAL	IPCL WB	DELHI	BYPL	-1.54000	-1.54000	IEXL	ER/2023/10844/C
BIHAR	BSPHCL	RAJASTHAN	SREE-RJ	-0.62000	-0.62000	IEXL	ER/2023/10846/C
WEST BENGAL	WBSEDCL	N/A	KWHEP	-10.78000	-10.78000	HPXL	ER/2023/10863/C
WEST BENGAL	CESC	N/A	SCLTPS	-10.50000	-10.50000	HPXL	ER/2023/10865/C
WEST BENGAL	IPCL WB	RAJASTHAN	SREE-RJ	-0.87000	-0.87000	IEXL	ER/2023/10881/C
WEST BENGAL	WBSEDCL	N/A	KWHEP	-20.79000	-20.79000	PXIL	ER/2023/10885/C
WEST BENGAL	WBSEDCL	HIMACHAL PRADESH	HP-GOVT	-59.02750	-59.02750	PXIL	ER/2023/10886/C
WEST BENGAL	WBSEDCL	N/A	SCLTPS	-1.46000	-1.46000	IEXL	ER/2023/10894/C
WEST BENGAL	CESC	N/A	ADHPL	-9.15000	-9.15000	IEXL	ER/2023/10897/C
WEST BENGAL	WBSEDCL	HIMACHAL PRADESH	HP-GOVT	-14.21500	-14.21500	PXIL	ER/2023/10913/C
WEST BENGAL	WBSEDCL	N/A	KWHEP	-4.12575	-4.12575	PXIL	ER/2023/10915/C
ORISSA	VLSEZ	DELHI	BYPL	-3.75000	-3.75000	IEXL	ER/2023/10920/C
WEST BENGAL	IPCL WB	DELHI	BYPL	-2.90000	-2.90000	IEXL	ER/2023/10921/C
ORISSA	VLSEZ	J & K	PNRENG7077	-0.42000	-0.42000	IEXL	ER/2023/10922/C
ORISSA	VLSEZ	N/A	RSRPL BKN	-1.62500	-1.62500	HPXL	ER/2023/10935/C
WEST BENGAL	WBSEDCL	UTTAR PRADESH	LAPL-UP	-2.40000	-2.40000	PXIL	ER/2023/10946/C
WEST BENGAL	WBSEDCL	N/A	KWHEP	-18.46500	-18.46500	PXIL	ER/2023/10949/C
WEST BENGAL	CESC	HIMACHAL PRADESH	MALANA	-4.80000	-4.80000	IEXL	ER/2023/10950/C
WEST BENGAL	IPCL WB	DELHI	BYPL	-1.85000	-1.85000	IEXL	ER/2023/10953/C
WEST BENGAL	CESC	N/A	RSRPL BKN	-8.30750	-8.30750	IEXL	ER/2023/10954/C
WEST BENGAL	IPCL WB	DELHI	BYPL	-0.87750	-0.87750	IEXL	ER/2023/10970/C
ORISSA	VLSEZ	DELHI	BYPL	-4.20000	-4.20000	HPXL	ER/2023/10972/C
ORISSA	VLSEZ	N/A	ADHPL	-2.40000	-2.40000	IEXL	ER/2023/10977/C
WEST BENGAL	CESC	N/A	RSRPL BKN	-5.70750	-5.70750	IEXL	ER/2023/10978/C
WEST BENGAL	IPCL WB	UTTAR PRADESH	LAPL-UP	-3.51000	-3.51000	KEIPL	ER/2023/10986/D
WEST BENGAL	WBSEDCL	N/A	KWHEP	-8.18010	-8.18010	PXIL	ER/2023/10990/C
WEST BENGAL	CESC	N/A	RSRPL BKN	-8.87000	-8.87000	HPXL	ER/2023/10991/C
WEST BENGAL	WBSEDCL	HIMACHAL PRADESH	HP-GOVT	-22.07250	-22.07250	HPXL	ER/2023/11018/C
WEST BENGAL	WBSEDCL	N/A	KWHEP	-7.50445	-7.50445	PXIL	ER/2023/11019/C
WEST BENGAL	WBSEDCL	UTTAR PRADESH	LAPL-UP	-2.00000	-2.00000	PXIL	ER/2023/11020/C
WEST BENGAL	CESC	N/A	RSRPL BKN	-7.32750	-7.32750	IEXL	ER/2023/11023/C
WEST BENGAL	CESC	N/A	SCLTPS	-3.11750	-3.11750	IEXL	ER/2023/11069/C
ORISSA	VLSEZ	J & K	PNRENG7077	-0.42000	-0.42000	IEXL	ER/2023/11070/C
ORISSA	VLSEZ	DELHI	BYPL	-2.00000	-2.00000	HPXL	ER/2023/11091/C



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From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
ARUNACHAL	Arunachal Ben	UTTAR PRADESH	AMBASTL	0.99000	0.95700	IEXL	NR/2023/17548/C
N/A	JHABUA IPP	UTTAR PRADESH	NPCL(LUP)	3.57500	3.45555	HPXL	NR/2023/17550/C
KARNATAKA	KIRLOFERIN	UTTAR PRADESH	NPCL(LUP)	1.20000	1.15920	HPXL	NR/2023/17552/C
N/A	HIRIYUR_OSTROKANNA DA	UTTAR PRADESH	NPCL(LUP)	3.70500	3.58152	HPXL	NR/2023/17553/C
N/A	RKM POWER	DELHI	BRPL	10.60000	10.24610	IEXL	NR/2023/17554/C
N/A	Teesta III	DELHI	BRPL	21.99000	21.25355	IEXL	NR/2023/17555/C
DVC	DSTPS I&II	PUNJAB	PUNJAB	0.00000	0.00000	PUNJAB	NR/30092023/04032038/ L NR 2012 05
N/A	THEP	HARYANA	HARYANA	0.00000	0.00000	THEP	NR/30092023/05112052/ L NR 2023 01
N/A	GMRKEL	HARYANA	HARYANA	0.00000	0.00000	PTC	NR/30092023/07022039/ L NR 2016 02
N/A	CHUZACHEN	HARYANA	HARYANA	0.00000	0.00000	CHUZACHEN	NR/30092023/17052048/ L NR 2021 01
N/A	MBMP	HARYANA	HARYANA	0.00000	0.00000	MBMP	NR/30092023/18072025/ L NR 2023 08
DVC	BOKARO_A	PUNJAB	PUNJAB	0.00000	0.00000	PUNJAB	NR/30092023/22022042/ L NR 2018 01
GUJRAT	APL Stage-3 (U-7&8)	HARYANA	HARYANA	0.00000	0.00000	APL Stage-3 (U-7&8)	NR/30092023/28022039/ L NR 2012 03
N/A	JLHEP	HARYANA	HARYANA	0.00000	0.00000	JLHEP	NR/30092023/29082050/ L NR 2023 02
DVC	RTPS	PUNJAB	PUNJAB	0.00000	0.00000	PUNJAB	NR/30092023/30032041/ L NR 2016 03
DVC	KODERMA	HARYANA	HARYANA	0.00000	0.00000	DVC	NR/30092023/30062039/ L NR 2013 01
N/A	KAMENG	HARYANA	HARYANA	0.00000	0.00000	NVVNL	NR/30092023/31032028/ NR/2023/Kameng HEP- NEEPCO
DVC	RTPS	HARYANA	HARYANA	0.00000	0.00000	DVC	NR/30092023/31032041/ L NR 2016 01
N/A	LAMKPL	HARYANA	HARYANA	0.00000	0.00000	PTC	NR/30092023/31052036/ L NR 2015 02
DVC	MEJA	HARYANA	HARYANA	0.00000	0.00000	DVC	NR/30092023/31082037/ L NR 2012 06
TAMILNADU	TANGEDCO	UTTAR PRADESH	PPGCL	-2.40000	-2.40000	IEXL	SR/2023/10002/D
TAMILNADU	TANGEDCO	PUNJAB	PUNJAB	-3.00000	-3.00000	PXIL	SR/2023/10003/C
KERALA	KSEB	N/A	TPSL BKN	-7.49750	-7.49750	TPSL BKN	SR/2023/10008/C
TAMILNADU	TANGEDCO	PUNJAB	PUNJAB	-1.50000	-1.50000	HPXL	SR/2023/10009/C
KERALA	KSEB	UTTAR PRADESH	BCMLB001	-1.36000	-1.36000	PXIL	SR/2023/10013/C
TAMILNADU	TANGEDCO	UTTAR PRADESH	LAPL-UP	-4.40000	-4.40000	PXIL	SR/2023/10014/C
KARNATAKA	PCKL	HIMACHAL PRADESH	HP-GOVT	-17.45500	-17.45500	HPXL	SR/2023/10017/C
TAMILNADU	TANGEDCO	RAJASTHAN	SREE-RJ	-0.23750	-0.23750	PXIL	SR/2023/10018/C
TELANGANA	TSSPDCL	N/A	SCLTPS	-3.25500	-3.25500	PXIL	SR/2023/10021/C
TAMILNADU	TANGEDCO	N/A	SCLTPS	-2.87250	-2.87250	PXIL	SR/2023/10028/C
TAMILNADU	TANGEDCO	N/A	ADHPL	-1.96250	-1.96250	IEXL	SR/2023/10029/C
TAMILNADU	TANGEDCO	N/A	KWHEP	-5.69750	-5.69750	HPXL	SR/2023/10034/C
KERALA	KSEB	RAJASTHAN	MYTRAHVAYL	-0.59800	-0.59800	HPXL	SR/2023/10035/C
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-10.38132	-10.38132	TSSPDCL	SR/2023/10037/D



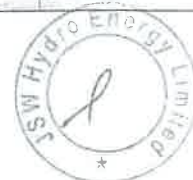
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Details of Inter-Regional Bilateral Exchanges (LUs)

From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
KERALA	KSEB	UTTAR PRADESH	BCMLB001	-1.36000	-1.36000	PXIL	SR/2023/10063/C
KERALA	KSEB	RAJASTHAN	MYTRAHVAYU	-0.81975	-0.81975	HPXL	SR/2023/10067/C
KERALA	KSEB	N/A	KWHEP	-8.96275	-8.96275	PXIL	SR/2023/10068/C
TELANGANA	TSSPDCL	N/A	SCLTIPS	-4.23500	-4.23500	PXIL	SR/2023/10070/C
TAMILNADU	TANGEDCO	N/A	ADHPL	-4.07250	-4.07250	IEXL	SR/2023/10072/C
TELANGANA	TSSPDCL	N/A	RSRPL BKN	-10.29250	-10.29250	HPXL	SR/2023/10074/C
TELANGANA	TSSPDCL	N/A	SINGOLI	-2.12500	-2.12500	IEXL	SR/2023/10076/C
TAMILNADU	TANGEDCO	RAJASTHAN	SREE-RJ	-0.32500	-0.32500	PXIL	SR/2023/10081/C
TAMILNADU	TANGEDCO	UTTAR PRADESH	LAPL-UP	-1.22500	-1.22500	PXIL	SR/2023/10084/C
TAMILNADU	TANGEDCO	N/A	SCLTIPS	-2.95000	-2.95000	PXIL	SR/2023/10087/C
TAMILNADU	TANGEDCO	UTTAR PRADESH	PPGCL	-2.40000	-2.40000	IEXL	SR/2023/10097/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-10.48518	-10.48518	TSSPDCL	SR/2023/10099/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-17.47548	-17.47548	TSSPDCL	SR/2023/10100/D
TELANGANA	TSSPDCL	N/A	NOKHRANT BHDL 2	-19.94680	-19.94680	TSSPDCL	SR/2023/10101/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.87498	-5.87498	TSSPDCL	SR/2023/10103/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.91830	-9.91830	TSSPDCL	SR/2023/10104/D
KERALA	KSEB	N/A	TPSL BKN	-8.07500	-8.07500	TPSL BKN	SR/2023/10110/C
TELANGANA	TSSPDCL	N/A	SCLTIPS	-8.51500	-8.51500	PXIL	SR/2023/10111/C
KARNATAKA	PCKL	N/A	KWHEP	-7.84720	-7.84720	PXIL	SR/2023/10112/C
KERALA	KSEB	UTTAR PRADESH	BCMLB001	-1.36000	-1.36000	PXIL	SR/2023/10121/C
KERALA	KSEB	RAJASTHAN	MYTRAHVAYU	-1.31250	-1.31250	HPXL	SR/2023/10125/C
TAMILNADU	TANGEDCO	N/A	KWHEP	-7.23000	-7.23000	IEXL	SR/2023/10129/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	HP-GOVT	-12.96000	-12.96000	IEXL	SR/2023/10131/C
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-16.99982	-16.99982	TSSPDCL	SR/2023/10135/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-10.19965	-10.19965	TSSPDCL	SR/2023/10136/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.91830	-9.91830	TSSPDCL	SR/2023/10137/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.87498	-5.87498	TSSPDCL	SR/2023/10138/D
TELANGANA	TSSPDCL	N/A	NOKHRANT BHDL 2	-19.12180	-19.12180	TSSPDCL	SR/2023/10139/D
TAMILNADU	TANGEDCO	UTTAR PRADESH	PPGCL	-2.40000	-2.40000	IEXL	SR/2023/10142/D
KERALA	KSEB	N/A	TPSL BKN	-7.72250	-7.72250	TPSL BKN	SR/2023/10143/C
KARNATAKA	PCKL	N/A	KWHEP	-7.68258	-7.68258	PXIL	SR/2023/10146/C
TELANGANA	TSSPDCL	N/A	SCLTIPS	-7.22500	-7.22500	HPXL	SR/2023/10152/C
TELANGANA	TSSPDCL	N/A	ADHPL	-5.40000	-5.40000	IEXL	SR/2023/10155/C
TAMILNADU	TANGEDCO	UTTAR PRADESH	PPGCL	-7.20000	-7.20000	IEXL	SR/2023/10157/F
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.82385	-9.82385	TSSPDCL	SR/2023/10160/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.92712	-5.92712	TSSPDCL	SR/2023/10161/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-17.47548	-17.47548	TSSPDCL	SR/2023/10162/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-10.48518	-10.48518	TSSPDCL	SR/2023/10163/D
TAMILNADU	TANGEDCO	UTTAR PRADESH	PPGCL	-2.40000	-2.40000	IEXL	SR/2023/10165/D
TELANGANA	TSSPDCL	N/A	NOKHRANT BHDL 2	-19.82680	-19.82680	TSSPDCL	SR/2023/10166/D



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From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
KERALA	KSEB	N/A	TPSL BKN	-7.72250	-7.72250	TPSL BKN	SR/2023/10168/C
KERALA	KSEB	UTTAR PRADESH	BCMLB001	-1.36000	-1.36000	PXIL	SR/2023/10169/C
KERALA	KSEB	N/A	SINGOLI	-6.09750	-6.09750	HPXL	SR/2023/10171/C
KERALA	KSEB	RAJASTHAN	MYTRAHVAYU	-1.63850	-1.63850	HPXL	SR/2023/10176/C
TAMILNADU	TANGEDCO	N/A	SCLTPS	-4.46250	-4.46250	PXIL	SR/2023/10178/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	MALANA	-0.85000	-0.85000	IEXL	SR/2023/10181/C
KERALA	KSEB	N/A	KWHEP	-7.68310	-7.68310	HPXL	SR/2023/10188/C
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-17.25132	-17.25132	TSSPDCL	SR/2023/10192/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	+10.35078	+10.35078	TSSPDCL	SR/2023/10193/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-19.79355	-19.79355	TSSPDCL	SR/2023/10194/D
TAMILNADU	TANGEDCO	UTTAR PRADESH	PPGCL	-2.40000	-2.40000	IEXL	SR/2023/10195/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.93760	-9.93760	TSSPDCL	SR/2023/10197/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.97842	-5.97842	TSSPDCL	SR/2023/10198/D
KERALA	KSEB	N/A	TPSL BKN	-7.72250	-7.72250	TPSL BKN	SR/2023/10203/C
TELANGANA	TSSPDCL	N/A	SCLTPS	-4.55500	-4.55500	PXIL	SR/2023/10204/C
KERALA	KSEB	UTTAR PRADESH	BCMLB001	-2.04000	-2.04000	PXIL	SR/2023/10207/C
KERALA	KSEB	N/A	SINGOLI	-6.02200	-6.02200	HPXL	SR/2023/10211/C
KERALA	KSEB	RAJASTHAN	MYTRAHVAYU	-0.48850	-0.48850	HPXL	SR/2023/10212/C
TELANGANA	TSSPDCL	N/A	ADHPL	-5.85000	-5.85000	IEXL	SR/2023/10214/C
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-17.07875	-17.07875	TSSPDCL	SR/2023/10222/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-10.24730	-10.24730	TSSPDCL	SR/2023/10224/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.93760	-9.93760	TSSPDCL	SR/2023/10226/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.97842	-5.97842	TSSPDCL	SR/2023/10227/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-20.42855	-20.42855	TSSPDCL	SR/2023/10228/D
TAMILNADU	TANGEDCO	UTTAR PRADESH	PPGCL	-2.40000	-2.40000	IEXL	SR/2023/10231/D
KERALA	KSEB	N/A	TPSL BKN	-7.73000	-7.73000	TPSL BKN	SR/2023/10232/D
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	HP-GOVT	-8.24500	-8.24500	PXIL	SR/2023/10238/C
TAMILNADU	TANGEDCO	RAJASTHAN	SREE-RJ	-0.18750	-0.18750	PXIL	SR/2023/10242/C
KERALA	KSEB	N/A	KWHEP	-7.25565	-7.25565	PXIL	SR/2023/10244/C
KERALA	KSEB	N/A	SINGOLI	-4.46250	-4.46250	HPXL	SR/2023/10246/C
TAMILNADU	TANGEDCO	N/A	SCLTPS	-3.58500	-3.58500	PXIL	SR/2023/10249/C
KERALA	KSEB	UTTAR PRADESH	BCMLB001	-1.36000	-1.36000	PXIL	SR/2023/10252/C
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-20.39225	-20.39225	TSSPDCL	SR/2023/10256/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.97842	-5.97842	TSSPDCL	SR/2023/10257/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.93760	-9.93760	TSSPDCL	SR/2023/10258/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-10.34958	-10.34958	TSSPDCL	SR/2023/10259/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-17.24970	-17.24970	TSSPDCL	SR/2023/10260/D
KERALA	KSEB	N/A	TPSL BKN	-7.73000	-7.73000	TPSL BKN	SR/2023/10265/C
KERALA	KSEB	UTTAR PRADESH	BCMLB001	-1.36000	-1.36000	PXIL	SR/2023/10268/C
KERALA	KSEB	N/A	KWHEP	-6.26028	-6.26028	HPXL	SR/2023/10269/C



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TELANGANA	TSSPDCL	N/A	SCLTPS	-10.48750	-10.48750	PXIL	SR/2023/10271/C
KERALA	KSEB	N/A	SINGOLI	-4.89250	-4.89250	HPXL	SR/2023/10277/C
KARNATAKA	PCKL	HIMACHAL PRADESH	HP-GOVT	-14.75250	-14.75250	HPXL	SR/2023/10278/C
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-17.24970	-17.24970	TSSPDCL	SR/2023/10283/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-10.34958	-10.34958	TSSPDCL	SR/2023/10284/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.93760	-9.93760	TSSPDCL	SR/2023/10285/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.97842	-5.97842	TSSPDCL	SR/2023/10286/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHD2	-21.09855	-21.09855	TSSPDCL	SR/2023/10287/D
KERALA	KSEB	N/A	TPSL BKN	-7.64500	-7.64500	TPSL BKN	SR/2023/10288/C
KERALA	KSEB	UTTAR PRADESH	BCMLB001	-1.36000	-1.36000	PXIL	SR/2023/10289/C
KARNATAKA	PCKL	N/A	KWHEP	-5.65842	-5.65842	PXIL	SR/2023/10290/C
TELANGANA	TSSPDCL	N/A	SCLTPS	-4.19000	-4.19000	PXIL	SR/2023/10293/C
TELANGANA	TSSPDCL	RAJASTHAN	SREE-RJ	-0.23750	-0.23750	PXIL	SR/2023/10294/C
KARNATAKA	PCKL	HIMACHAL PRADESH	HP-GOVT	-6.76750	-6.76750	HPXL	SR/2023/10297/C
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-17.33138	-17.33138	TSSPDCL	SR/2023/10302/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-10.39862	-10.39862	TSSPDCL	SR/2023/10303/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHD2	-20.89875	-20.89875	TSSPDCL	SR/2023/10305/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.93760	-9.93760	TSSPDCL	SR/2023/10307/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.97842	-5.97842	TSSPDCL	SR/2023/10309/D
KERALA	KSEB	N/A	TPSL BKN	-7.62500	-7.62500	TPSL BKN	SR/2023/10312/C
KERALA	KSEB	UTTAR PRADESH	BCMLB001	-1.36000	-1.36000	PXIL	SR/2023/10316/C
TAMILNADU	TANGEDCO	N/A	SCLTPS	-3.00750	-3.00750	PXIL	SR/2023/10321/C
TAMILNADU	TANGEDCO	PUNJAB	PUNJAB	-5.00000	-5.00000	PXIL	SR/2023/10343/C
KERALA	KSEB	N/A	TPSL BKN	-7.75250	-7.75250	TPSL BKN	SR/2023/9220/C
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-10.78068	-10.78068	TSSPDCL	SR/2023/9221/C
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-17.96815	-17.96815	TSSPDCL	SR/2023/9222/C
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHD2	-20.71188	-20.71188	TSSPDCL	SR/2023/9223/C
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-6.08952	-6.08952	TSSPDCL	SR/2023/9224/C
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.76588	-9.76588	TSSPDCL	SR/2023/9225/C
KARNATAKA	PCKL	N/A	RSRPL BKN	-10.42500	-10.42500	IELX	SR/2023/9230/C
KERALA	KSEB	UTTAR PRADESH	LAPL-UP	-9.60000	-9.60000	PXIL	SR/2023/9232/C
KARNATAKA	PCKL	N/A	ADHPL	-13.36000	-13.36000	IELX	SR/2023/9235/C
TAMILNADU	TANGEDCO	DELHI	BYPL	-6.12500	-6.12500	IELX	SR/2023/9245/C
TELANGANA	TSSPDCL	N/A	SCLTPS	-42.64000	-42.64000	HPXL	SR/2023/9251/C
KERALA	KSEB	RAJASTHAN	MYTRAHVAYU	-2.15500	-2.15500	HPXL	SR/2023/9261/C
ANDHRA PRADESH	APCPDCL	N/A	AURY RF	-14.48000	-14.48000	HPXL	SR/2023/9262/C
ANDHRA PRADESH	APCPDCL	N/A	DADRI RF	-16.13000	-16.13000	HPXL	SR/2023/9264/C
ANDHRA PRADESH	APCPDCL	N/A	ANTA CRF	-5.84000	-5.84000	HPXL	SR/2023/9265/C
TELANGANA	TSSPDCL	RAJASTHAN	SREE-RJ	-4.53750	-4.53750	HPXL	SR/2023/9267/C
TELANGANA	TSSPDCL	N/A	KSPPNL BHD2	-17.97730	-17.97730	TSSPDCL	SR/2023/9274/D



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From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
KERALA	KSEB	UTTAR PRADESH	BCMLB001	-1.36000	-1.36000	PXIL	SR/2023/9724/C
KARNATAKA	PCKL	N/A	RSRPL BKN	-8.88000	-8.88000	HPXL	SR/2023/9727/C
KARNATAKA	PCKL	N/A	KWHEP	-12.09300	-12.09300	PXIL	SR/2023/9732/C
KERALA	KSEB	RAJASTHAN	MYTRAHVAYU	-1.19700	-1.19700	HPXL	SR/2023/9734/C
TELANGANA	TSSPDCL	HIMACHAL PRADESH	HP-GOVT	-17.66500	-17.66500	HPXL	SR/2023/9744/C
KARNATAKA	PCKL	N/A	ADHPL	-15.81000	-15.81000	IEXL	SR/2023/9745/C
KARNATAKA	PCKL	N/A	SCLTPS	-11.12250	-11.12250	IEXL	SR/2023/9746/C
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-9.99680	-9.99680	TSSPDCL	SR/2023/9756/D
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-16.66152	-16.66152	TSSPDCL	SR/2023/9757/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-6.25630	-6.25630	TSSPDCL	SR/2023/9759/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-10.31300	-10.31300	TSSPDCL	SR/2023/9761/D
TAMILNADU	TANGEDCO	N/A	DADRI RF	-9.91000	-9.91000	HPXL	SR/2023/9762/C
TAMILNADU	TANGEDCO	N/A	AURY RF	-3.51000	-3.51000	HPXL	SR/2023/9764/C
TAMILNADU	TANGEDCO	N/A	ANTA RF	-1.82000	-1.82000	HPXL	SR/2023/9766/C
KERALA	KSEB	N/A	TPSL BKN	-7.25500	-7.25500	TPSL BKN	SR/2023/9767/C
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-18.53802	-18.53802	TSSPDCL	SR/2023/9770/C
KARNATAKA	PCKL	N/A	KWHEP	-12.80430	-12.80430	PXIL	SR/2023/9779/C
KERALA	KSEB	UTTAR PRADESH	BCMLB001	-1.36000	-1.36000	PXIL	SR/2023/9782/C
KARNATAKA	PCKL	N/A	ADHPL	-15.39000	-15.39000	IEXL	SR/2023/9784/C
KERALA	KSEB	RAJASTHAN	MYTRAHVAYU	-1.26350	-1.26350	HPXL	SR/2023/9796/C
KARNATAKA	PCKL	N/A	RSRPL BKN	-9.19200	-9.19200	HPXL	SR/2023/9800/C
TAMILNADU	TANGEDCO	N/A	SCLTPS	-4.42500	-4.42500	HPXL	SR/2023/9804/C
TELANGANA	TSSPDCL	N/A	SINGOLI	-9.87750	-9.87750	IEXL	SR/2023/9805/C
TAMILNADU	TANGEDCO	RAJASTHAN	SREE-RJ	-0.87500	-0.87500	HPXL	SR/2023/9806/C
TAMILNADU	TANGEDCO	UTTAR PRADESH	PPGCL	-0.51250	-0.51250	HPXL	SR/2023/9807/C
TAMILNADU	TANGEDCO	UTTAR PRADESH	LAPL-UP	-4.60000	-4.60000	PXIL	SR/2023/9808/C
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-18.33552	-18.33552	TSSPDCL	SR/2023/9824/C
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.76475	-9.76475	TSSPDCL	SR/2023/9825/C
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.71335	-5.71335	TSSPDCL	SR/2023/9826/C
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-15.11308	-15.11308	TSSPDCL	SR/2023/9827/C
KERALA	KSEB	N/A	TPSL BKN	-7.25500	-7.25500	TPSL BKN	SR/2023/9828/C
TELANGANA	TSSPDCL	N/A	KSPPNL BHDL2	-9.06758	-9.06758	TSSPDCL	SR/2023/9829/C
KARNATAKA	PCKL	N/A	RSRPL BKN	-8.77775	-8.77775	HPXL	SR/2023/9836/C
TELANGANA	TSSPDCL	UTTAR PRADESH	LAPL-UP	-4.40000	-4.40000	PXIL	SR/2023/9838/C
KERALA	KSEB	UTTAR PRADESH	BCMLB001	-1.36000	-1.36000	PXIL	SR/2023/9839/C
KARNATAKA	PCKL	N/A	SINGOLI	-17.36000	-17.36000	HPXL	SR/2023/9842/C
KERALA	KSEB	RAJASTHAN	MYTRAHVAYU	-1.04750	-1.04750	HPXL	SR/2023/9844/C
TELANGANA	TSSPDCL	N/A	SCLTPS	-9.25500	-9.25500	PXIL	SR/2023/9849/C
KARNATAKA	PCKL	N/A	KWHEP	-12.80430	-12.80430	PXIL	SR/2023/9850/C
TAMILNADU	TANGEDCO	UTTAR PRADESH	LAPL-UP	-1.72250	-1.72250	PXIL	SR/2023/9859/C



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From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
TAMILNADU	TANGEDCO	RAJASTHAN	SREE-RJ	-0.75000	-0.75000	IEXL	SR/2023/9865/C
TAMILNADU	TANGEDCO	N/A	SCLTPS	-4.12000	-4.12000	IEXL	SR/2023/9866/C
TELANGANA	TSSPDCL	N/A	KSPPNL_BHDL2	-14.22925	-14.22925	TSSPDCL	SR/2023/9868/D
TELANGANA	TSSPDCL	N/A	KSPPNL_BHDL2	-8.53735	-8.53735	TSSPDCL	SR/2023/9870/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.76475	-9.76475	TSSPDCL	SR/2023/9872/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.71335	-5.71335	TSSPDCL	SR/2023/9874/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-18.27302	-18.27302	TSSPDCL	SR/2023/9879/D
KERALA	KSEB	N/A	TPSL BKN	-7.18000	-7.18000	TPSL BKN	SR/2023/9881/C
TELANGANA	TSSPDCL	N/A	SCLTPS	-8.84750	-8.84750	HPXL	SR/2023/9884/C
KERALA	KSEB	UTTAR PRADESH	BCMLB001	-1.36000	-1.36000	PXIL	SR/2023/9889/C
TELANGANA	TSSPDCL	N/A	SINGOLI	-9.60500	-9.60500	IEXL	SR/2023/9891/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	HP-GOVT	-6.00000	-6.00000	JEXL	SR/2023/9895/D
TAMILNADU	TANGEDCO	UTTAR PRADESH	PPGCL	-2.40000	-2.40000	IEXL	SR/2023/9896/D
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	HP-GOVT	-6.00000	-6.00000	IEXL	SR/2023/9898/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.76475	-9.76475	TSSPDCL	SR/2023/9899/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.71335	-5.71335	TSSPDCL	SR/2023/9900/D
TAMILNADU	TANGEDCO	UTTAR PRADESH	PPGCL	-2.40000	-2.40000	IEXL	SR/2023/9902/D
TELANGANA	TSSPDCL	N/A	KSPPNL_BHDL2	-15.01315	-15.01315	TSSPDCL	SR/2023/9904/D
TELANGANA	TSSPDCL	N/A	KSPPNL_BHDL2	-9.00762	-9.00762	TSSPDCL	SR/2023/9905/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-18.27302	-18.27302	TSSPDCL	SR/2023/9906/D
KERALA	KSEB	N/A	TPSL BKN	-6.44250	-6.44250	TPSL BKN	SR/2023/9907/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	HP-GOVT	-60.00000	-60.00000	IEXL	SR/2023/9908/F
TELANGANA	TSSPDCL	N/A	SCLTPS	-10.71000	-10.71000	HPXL	SR/2023/9909/C
TELANGANA	TSSPDCL	UTTAR PRADESH	LAPL-UP	-2.30000	-2.30000	PXIL	SR/2023/9910/C
KERALA	KSEB	RAJASTHAN	MYTRAHVAYU	-2.07050	-2.07050	HPXL	SR/2023/9916/C
KERALA	KSEB	UTTAR PRADESH	BCMLB001	-1.36000	-1.36000	PXIL	SR/2023/9917/C
KERALA	KSEB	N/A	KWHEP	-11.09725	-11.09725	PXIL	SR/2023/9918/C
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-16.74968	-16.74968	TSSPDCL	SR/2023/9927/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-9.76475	-9.76475	TSSPDCL	SR/2023/9929/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.71335	-5.71335	TSSPDCL	SR/2023/9930/D
TELANGANA	TSSPDCL	N/A	KSPPNL_BHDL2	-13.87322	-13.87322	TSSPDCL	SR/2023/9931/D
TELANGANA	TSSPDCL	N/A	KSPPNL_BHDL2	-8.32375	-8.32375	TSSPDCL	SR/2023/9932/D
KERALA	KSEB	N/A	TPSL BKN	-6.44250	-6.44250	TPSL BKN	SR/2023/9936/D
TELANGANA	TSSPDCL	RAJASTHAN	SREE-RJ	-0.23750	-0.23750	PXIL	SR/2023/9940/C
KERALA	KSEB	RAJASTHAN	MYTRAHVAYU	-2.15650	-2.15650	HPXL	SR/2023/9942/C
TELANGANA	TSSPDCL	N/A	SCLTPS	-6.12250	-6.12250	PXIL	SR/2023/9946/C
TELANGANA	TSSPDCL	N/A	KSPPNL_BHDL2	-16.47840	-16.47840	TSSPDCL	SR/2023/9953/D
TELANGANA	TSSPDCL	N/A	KSPPNL_BHDL2	-9.88712	-9.88712	TSSPDCL	SR/2023/9954/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL 2	-18.40302	-18.40302	TSSPDCL	SR/2023/9955/D
TAMILNADU	TANGEDCO	UTTAR PRADESH	PPGCL	-2.40000	-2.40000	IEXL	SR/2023/9957/D



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TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-8.04552	-8.04552	TSSPDCL	SR/2023/9959/D
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	HP-GOVT	-6.00000	-6.00000	IEXL	SR/2023/9960/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-4.88875	-4.88875	TSSPDCL	SR/2023/9961/D
KERALA	KSEB	N/A	TPSL BKN	-7.03750	-7.03750	TPSL BKN	SR/2023/9962/D
KERALA	KSEB	UTTAR PRADESH	BCMLB001	-1.36000	-1.36000	PXIL	SR/2023/9967/C
KERALA	KSEB	RAJASTHAN	MYTRAHVAYU	-1.21525	-1.21525	HPXL	SR/2023/9969/C
TAMILNADU	TANGEDCO	N/A	KWHEP	-5.91500	-5.91500	HPXL	SR/2023/9970/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	HP-GOVT	-3.20500	-3.20500	IIPXL	SR/2023/9971/C
TAMILNADU	TANGEDCO	RAJASTHAN	SREE-RJ	-0.23750	-0.23750	PXIL	SR/2023/9972/C
TAMILNADU	TANGEDCO	N/A	SCLTPS	-1.71750	-1.71750	PXIL	SR/2023/9973/C
TELANGANA	TSSPDCL	N/A	SCLTPS	-4.41000	-4.41000	PXIL	SR/2023/9975/C
TAMILNADU	TANGEDCO	N/A	ADHPL	-2.35250	-2.35250	IEXL	SR/2023/9985/C
TELANGANA	TSSPDCL	N/A	ADHPL	-8.79500	-8.79500	IEXL	SR/2023/9987/C
TELANGANA	TSSPDCL	N/A	KSPPNL_BHDL2	-15.98622	-15.98622	TSSPDCL	SR/2023/9990/D
TELANGANA	TSSPDCL	N/A	KSPPNL_BHDL2	-9.59155	-9.59155	TSSPDCL	SR/2023/9992/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-8.27665	-8.27665	TSSPDCL	SR/2023/9993/D
TELANGANA	TSSPDCL	N/A	DSNTPC FTG2	-5.00770	-5.00770	TSSPDCL	SR/2023/9995/D
TELANGANA	TSSPDCL	N/A	NOKHRANT_BHDL2	-18.31552	-18.31552	TSSPDCL	SR/2023/9996/D
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-57.54000	-57.54000	AEML	WR/2023/18549/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-32.18750	-32.18750	AEML	WR/2023/18550/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-0.75000	-0.75000	MANIKARAN	WR/2023/18556/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-1.74800	-1.74800	MANIKARAN	WR/2023/18558/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-6.54000	-6.54000	MANIKARAN	WR/2023/18559/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	GBHHPL	-3.00000	-3.00000	GMRETL	WR/2023/18563/C
GUJRAT	TPLD	N/A	SORANG HEP	-11.90000	-11.90000	IEXL	WR/2023/18569/C
AMNSIL_WR	AMNSIL	N/A	RSRPL BKN	-6.19250	-6.19250	HPXL	WR/2023/18575/C
BALCO WR	BALCO LOAD	DELHI	BYPL	-2.40000	-2.40000	HPXL	WR/2023/18586/C
MAHARASHTRA	MBPL	N/A	RSRPL BKN	-0.39000	-0.39000	HPXL	WR/2023/18588/C
BALCO WR	BALCO_LOAD	N/A	RSRPL BKN	-3.66575	-3.66575	HPXL	WR/2023/18589/C
MAHARASHTRA	AEML	N/A	AHEJ4L S FTG1	-57.97750	-57.97750	AEML	WR/2023/18590/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTG1	-47.55500	-47.55500	AEML	WR/2023/18591/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-0.74250	-0.74250	MANIKARAN	WR/2023/18596/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-6.54000	-6.54000	MANIKARAN	WR/2023/18599/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-1.64800	-1.64800	MANIKARAN	WR/2023/18601/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	GBHHPL	-3.00000	-3.00000	GMRETL	WR/2023/18602/C
GUJRAT	TPL DIS AJIM	N/A	SBSRPC11PL BKN	-8.38250	-8.38250	IEXL	WR/2023/18612/C
GUJRAT	TPLD	N/A	SORANG HEP	-14.15000	-14.15000	IEXL	WR/2023/18618/C
BALCO WR	BALCO_LOAD	N/A	RSRPL BKN	-4.25000	-4.25000	HPXL	WR/2023/18622/C
GUJRAT	GIFT GNGR	DELHI	EDWPCL12	-0.36000	-0.36000	IEXL	WR/2023/18625/C
MAHARASHTRA	MBPL	N/A	RSRPL BKN	-0.21900	-0.21900	HPXL	WR/2023/18629/C



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GUJRAT	TPLD	N/A	SORANG HEP	-14.54000	-14.54000	IEXL	WR/2023/19505/C
MAHARASHTRA	TPC.MSEB	UTTAR PRADESH	PPGCL	-1.05000	-1.05000	IEXL	WR/2023/19506/C
MAHARASHTRA	AEML	N/A	AHEJ4L S FTGI	-54.37000	-54.37000	AEML	WR/2023/19510/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTGI	-23.39500	-23.39500	AEML	WR/2023/19511/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-6.55200	-6.55200	MANIKARAN	WR/2023/19512/D
AMNSIL WR	AMNSIL	PUNJAB	PUNJAB	-3.00000	-3.00000	IEXL	WR/2023/19513/C
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-4.63500	-4.63500	MANIKARAN	WR/2023/19519/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-1.73400	-1.73400	MANIKARAN	WR/2023/19520/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	GBHHP	-2.40000	-2.40000	GMRETL	WR/2023/19528/C
GUJRAT	TPL DIS AHM	UTTAR PRADESH	LAPL-UP	-6.40000	-6.40000	PXIL	WR/2023/19531/C
MAHARASHTRA	MBPL	N/A	RSRPL BKN	-0.13900	-0.13900	HPXL	WR/2023/19533/C
AMNSIL WR	AMNSIL	N/A	SBSRPC11PL BKN	-4.51000	-4.51000	PXIL	WR/2023/19537/C
AMNSIL WR	AMNSIL	N/A	SINGOLI	-14.88000	-14.88000	HPXL	WR/2023/19540/C
GUJRAT	TPL DIS AHM	N/A	SINGOLI	-5.92000	-5.92000	HPXL	WR/2023/19541/C
AMNSIL WR	AMNSIL	N/A	RSRPL BKN	-8.36175	-8.36175	HPXL	WR/2023/19542/C
GUJRAT	TPL DIS SUR	N/A	RSRPL BKN	-9.81750	-9.81750	IEXL	WR/2023/19552/C
GUJRAT	TPLD	N/A	SORANG HEP	-13.46000	-13.46000	IEXL	WR/2023/19554/C
MAHARASHTRA	AEML	N/A	AHEJ4L S FTGI	-54.68500	-54.68500	AEML	WR/2023/19555/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTGI	-17.80250	-17.80250	AEML	WR/2023/19556/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-3.33500	-3.33500	MANIKARAN	WR/2023/19557/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-1.70400	-1.70400	MANIKARAN	WR/2023/19558/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-6.55200	-6.55200	MANIKARAN	WR/2023/19559/D
AMNSIL WR	AMNSIL	N/A	RSRPL BKN	-8.52725	-8.52725	HPXL	WR/2023/19572/C
AMNSIL WR	AMNSIL	N/A	SBSRPC11PL BKN	-5.57250	-5.57250	PXIL	WR/2023/19576/C
GUJRAT	TPL DIS SUR	UTTAR PRADESH	LAPL-UP	-6.40000	-6.40000	PXIL	WR/2023/19578/C
AMNSIL WR	AMNSIL	N/A	SINGOLI	-9.57250	-9.57250	IEXL	WR/2023/19582/C
MAHARASHTRA	MBPL	N/A	RSRPL BKN	-0.43500	-0.43500	HPXL	WR/2023/19591/C
GUJRAT	TPL DIS SUR	N/A	RSRPL BKN	-10.29000	-10.29000	IEXL	WR/2023/19592/C
GUJRAT	TPLD	N/A	SORANG HEP	-7.99000	-7.99000	IEXL	WR/2023/19594/C
MAHARASHTRA	TPC.MSEB	UTTAR PRADESH	PPGCL	-1.86000	-1.86000	IEXL	WR/2023/19597/C
MAHARASHTRA	AEML	N/A	AHEJ4L S FTGI	-54.19750	-54.19750	AEML	WR/2023/19603/D
MAHARASHTRA	AEML	N/A	AHEJ4L W FTGI	-11.51750	-11.51750	AEML	WR/2023/19604/D
GOA	GOA Beneficiary	HIMACHAL PRADESH	KPCPL	-1.62400	-1.62400	MANIKARAN	WR/2023/19608/D
GOA	GOA Beneficiary	N/A	SBSRPC11PL BKN	-3.26250	-3.26250	MANIKARAN	WR/2023/19609/D
GOA	GOA Beneficiary	UTTARAKHAND	BHPL	-6.55200	-6.55200	MANIKARAN	WR/2023/19612/D
AMNSIL WR	AMNSIL	N/A	RSRPL BKN	-4.60200	-4.60200	HPXL	WR/2023/19617/C
AMNSIL WR	AMNSIL	N/A	SINGOLI	-12.31000	-12.31000	HPXL	WR/2023/19620/C
MAHARASHTRA	AEML	N/A	KWHEP	-7.68310	-7.68310	HPXL	WR/2023/19625/C
GUJRAT	TPL DIS SUR	UTTAR PRADESH	LAPL-UP	-6.40000	-6.40000	PXIL	WR/2023/19627/C
AMNSIL WR	AMNSIL	N/A	SBSRPC11PL BKN	-6.00750	-6.00750	PXIL	WR/2023/19628/C



Northern Regional Power Committee
Provisional REA for the Month of SEPTEMBER, 2023

Table - K
Details of Scheduled Energy Exchange (LUs) Through Power Exchange

Power Exchange	To Entity	EX-NR Periphery	EX-NR State Periphery
GDAM IEX	DELHI	22,308150	21,541250
GDAM IEX	HARYANA	0,779575	0,753925
GDAM IEX	HIMACHAL PRADESH	1,294150	1,251825
GDAM IEX	PUNJAB	101,405600	98,019650
GDAM IEX	RAILWAYS	49,745000	48,072850
GDAM IEX	RAJASTHAN	54,670900	52,659150
GDAM IEX	UTTAR PRADESH	48,300550	46,692825
GDAM IEX	DELHI	-2,879950	-2,879950
GDAM IEX	HIMACHAL PRADESH	-9,719750	-9,719750
GDAM IEX	J & K	-283,236875	-283,236875
GDAM IEX	RAJASTHAN	-10,404725	-10,404725
GDAM IEX	RENEW SURYA RAVI	-60,128450	-60,128450
GDAM IEX	SBSR POWER CLEANTECH	-27,944775	-27,944775
GDAM IEX	SINGOLI BHATWARI	-41,518875	-41,518875
GDAM IEX	UTTAR PRADESH	-11,803250	-11,803250
HPX	UTTAR PRADESH	15,660950	15,147950
IEX	CHANDIGARH	53,064200	51,262825
IEX	DELHI	80,705575	77,852250
IEX	HARYANA	1755,515550	1697,551950
IEX	HIMACHAL PRADESH	10,232150	9,880800
IEX	J & K	24,578850	23,797325
IEX	PUNJAB	2112,143725	2042,420600
IEX	RAILWAYS	221,604950	214,005650
IEX	RAJASTHAN	868,607300	839,585800
IEX	UTTAR PRADESH	2688,685625	2593,936400
IEX	UTTARAKHAND	1286,909000	1242,289925
IEX	ADANI SE JODHPUR 2 L	-101,759000	-101,759000
IEX	ADHPL	-234,978950	-234,978950
IEX	BUDHIL HEP	-36,066000	-36,066000
IEX	CHANDIGARH	-227,099925	-227,099925
IEX	DADRI TPS	-29,874300	-29,874300
IEX	DADRI-II TPS	-29,360575	-29,360575
IEX	DELHI	-2238,976200	-2238,976200
IEX	HARYANA	-1204,972675	-1204,972675
IEX	HIMACHAL PRADESH	-562,740100	-562,740100
IEX	J & K	-100,928225	-100,928225
IEX	KARCHAM WANGTOO	-325,028125	-325,028125
IEX	NEPAL	-221,831000	-221,831000
IEX	PUNJAB	-258,712600	-258,712600
IEX	RAJASTHAN	-893,647850	-893,647850
IEX	RENEW SURYA RAVI	-93,952500	-93,952500
IEX	SANJ HEP	-215,344500	-215,344500
IEX	SCL Beawar	-202,792250	-202,792250
IEX	SINGOLI BHATWARI	-15,310500	-15,310500
IEX	SINGRAULI STPS	-2,208000	-2,208000
IEX	UNCHAHAR-I TPS	-11,833050	-11,833050
IEX	UNCHAHAR-II TPS	-3,005750	-3,005750
IEX	UNCHAHAR-III TPS	-6,096050	-6,096050



IEX	UNCHAHAR-IV TPS	-23.647350	-23.647350
IEX	UTTAR PRADESH	-1976.943300	-1976.943300
IEX	UTTARAKHAND	-3.125000	-3.125000
PXI	PUNJAB	-2.500000	-2.500000
RTM HPX	HIMACHAL PRADESH	-9.994000	-9.994000
RTM IEX	CHANDIGARH	5.744025	5.555675
RTM IEX	DELHI	435.451325	420.061650
RTM IEX	HARYANA	1510.859250	1462.245100
RTM IEX	HIMACHAL PRADESH	259.465175	250.759775
RTM IEX	J & K	294.123800	284.079525
RTM IEX	PUNJAB	3020.139450	2921.749925
RTM IEX	RAILWAYS	88.220775	85.168775
RTM IEX	RAJASTHAN	1186.237625	1146.780550
RTM IEX	SAINJ HEP	4.013625	3.865000
RTM IEX	SINGOLI BHATWARI	6.859575	6.583075
RTM IEX	UTTAR PRADESH	2278.096575	2198.840825
RTM IEX	UTTARAKHAND	859.725850	830.152425
RTM IEX	ADHPL	-53.645000	-53.645000
RTM IEX	BUDHIL HEP	-6.178000	-6.178000
RTM IEX	CHANDIGARH	-18.696450	-18.696450
RTM IEX	DADRI TPS	-30.507875	-30.507875
RTM IEX	DADRI-II TPS	-24.725400	-24.725400
RTM IEX	DELHI	-1426.860400	-1426.860400
RTM IEX	HARYANA	-266.870150	-266.870150
RTM IEX	HIMACHAL PRADESH	-738.480550	-738.480550
RTM IEX	IGSTPS-JHAJJAR	-40.158125	-40.158125
RTM IEX	J & K	-726.907250	-726.907250
RTM IEX	KARCHAM WANGTOO	-54.820250	-54.820250
RTM IEX	PUNJAB	-1174.587000	-1174.587000
RTM IEX	RAJASTHAN	-1863.108725	-1863.108725
RTM IEX	RENEW SURYA RAVI	-6.402750	-6.402750
RTM IEX	RIHAND STPS	-32.199025	-32.199025
RTM IEX	RIHAND-II STPS	-22.507350	-22.507350
RTM IEX	RIHAND-III STPS	-36.059375	-36.059375
RTM IEX	SAINJ HEP	-25.953500	-25.953500
RTM IEX	SCL Beawar	-7.445250	-7.445250
RTM IEX	SINGOLI BHATWARI	-16.003950	-16.003950
RTM IEX	SINGRAULI STPS	-51.627700	-51.627700
RTM IEX	SORANG HEP	-35.585000	-35.585000
RTM IEX	TANDA-II STPS	-24.788900	-25.614050
RTM IEX	UNCHAHAR-I TPS	-6.545825	-6.545825
RTM IEX	UNCHAHAR-II TPS	-10.789200	-10.789200
RTM IEX	UNCHAHAR-III TPS	-4.749250	-4.749250
RTM IEX	UNCHAHAR-IV TPS	-17.851725	-17.851725
RTM IEX	UTTAR PRADESH I	-566.489250	-566.489250
RTM IEX	UTTARAKHAND	-115.631400	-115.631400
RTM PXI	DELHI	2.500000	2.425500



**Northern Regional Power Committee
Provisional REA for the Month of OCTOBER, 2023**

**Table - I
Details of Intra-Regional Scheduled Bilateral Exchanges (LUs)**

From State/Station	From Utility	To State	To Utility	Ex-Seller	Ex-Purchaser	Applicant	OA Code
N/A	SBSRPCI1PL_BKN	DELHI	BYPL	-64.94175	64.94175	SECI_Trader	NR/01102023/02012046/L_NR_2021_17
N/A	ERCPL_FTG2	DELHI	BYPL	-108.28048	108.28048	SECI_Trader	NR/01102023/02122045/L_NR_2021_13
HIMACHAL PRADESH	THPPL_RALA	DELHI	TPDDL	-26.43920	25.57305	DELHI	NR/01102023/05012040/L_NR_2020_02
UTTAR PRADESH	MEJA	UTTARAKHAND	UTTARAKHAND	-176.48790	170.69745	UTTARAKHAND	NR/01102023/07122035/ukmeja01
N/A	AP41PL_BHDL	DELHI	BRPL	-198.42805	198.42805	SECI_Trader	NR/01102023/08032047/L_NR_2021_14
N/A	KWHEP	RAJASTHAN	RAJASTHAN	-228.69585	221.16948	PTC	NR/01102023/12092046/05
N/A	ERCPL_FTG2	DELHI	BRPL	-541.41872	541.41872	ERCPL_FTG2	NR/01102023/13082046/L_NR_2021_12
N/A	SBSRPCI1PL_BKN	DELHI	TPDDL	-130.05095	130.05095	SECI_Trader	NR/01102023/14082046/L_NR_2021_16
UTTAR PRADESH	VISHNUPRAYAG_HEP	UTTARAKHAND	UTTARAKHAND	-121.07760	117.10320	UTTARAKHAND	NR/01102023/16062041/SH-01
N/A	SINGRAULI_SOLAR	HIMACHAL PRADESH	HP	-19.48145	19.48145	HP	NR/01102023/17122037/HP-06
HARYANA	CLP_JHAJJAR	DELHI	TPDDL	-823.67395	796.63232	TPTCL	NR/01102023/19072037/LT-05
RAJASTHAN	RAJ_SOLAR	HIMACHAL PRADESH	IIP	-32.81630	32.81630	HP	NR/01102023/20032040/HP-04
N/A	AURAIYA_SOLAR	UTTAR PRADESH	UPPCL	-28.31808	28.31808	AURAIYA_SOLAR	NR/01102023/20122043/L_NR_2020_10
UTTAR PRADESH	MEJA	RAJASTHAN	RAJASTHAN	-205.64388	198.91080	RUVNL	NR/01102023/21042044/01
HIMACHAL PRADESH	SHEPL_HP	DELHI	TPDDL	-25.55448	24.71468	DELHI	NR/01102023/22052037/LT-59
N/A	ASE4PL	DELHI	BYPL	-100.88998	100.88998	SECI_Trader	NR/01102023/25072045/L_NR_2021_15
N/A	AURAIYA_SOLAR	UTTAR PRADESH	UPPCL	-36.03580	36.03580	AURAIYA_SOLAR	NR/01102023/26022045/L_NR_2022_13
N/A	RENEW_Bhadla	UTTAR PRADESH	UPPCL	-104.01045	104.01045	SECI_Trader	NR/01102023/27032043/L_NR_2019_13
N/A	APIPL	UTTAR PRADESH	UPPCL	-340.20872	340.20872	SECI_Trader	NR/01102023/27032043/L_NR_2019_14
N/A	SBEFPL_Bhadla	UTTAR PRADESH	UPPCL	-407.05222	407.05222	SECI_Trader	NR/01102023/27032043/L_NR_2019_15
N/A	CSP_Bhadla	UTTAR PRADESH	UPPCL	-216.57560	216.57560	SECI_Trader	NR/01102023/27032043/L_NR_2019_22
N/A	CSP_Bhadla	UTTAR PRADESH	UPPCL	-216.57582	216.57582	SECI_Trader	NR/01102023/27032043/L_NR_2020_01
N/A	CSP_Bhadla	UTTAR PRADESH	UPPCL	-216.57582	216.57582	SECI_Trader	NR/01102023/27032043/L_NR_2020_03
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-220.11628	212.88772	DELHI	NR/01102023/27052033/DIAPL(L_NR_2023_04)
HIMACHAL PRADESH	GBHHPL	UTTAR PRADESH	UPPCL	-102.85000	99.45878	UPPCL	NR/01102023/29102044/L_NR_2023_05
RAJASTHAN	RAJ_SOLAR	DELHI	BYPL	-32.21812	32.21812	SECI_Trader	NR/01102023/30042040/GNAT-1-15



RAJASTHAN	RAJ_SOLAR	DELHI	BRPL	-33.01598	33.01598	SECI_Trader	NR/01102023/300420 40/GNA LT 36
UTTARAKHAND	UTTARAKHAND	HIMACHAL PRADESH	HP	-313.44952	303.12945	HP	NR/01102023/300920 33/HP-03
PUNJAB	PUNJAB	HIMACHAL PRADESH	HP	-104.76342	101.32010	HP	NR/01102023/300920 33/HP-05
N/A	SAINJ	HIMACHAL PRADESH	HP	-106.65365	103.15280	HP	NR/01102023/300920 48/HP-01
UTTAR PRADESH	UPPCL	HIMACHAL PRADESH	HP	-53.64372	51.88130	HP	NR/01102023/300920 48/HP-02
RAJASTHAN	RAJ_SOLAR	UTTAR PRADESH	UPPCL	-88.89848	88.89848	NVVNL	NR/01102023/310320 41/LT-17
UTTAR PRADESH	ALAKNANDA	UTTARAKHAND	UTTARAKHAND	-135.23040	130.77120	UTTARAKHAND	NR/01102023/310320 50/LT-38
RAJASTHAN	RAJ_SOLAR	DELHI	TPDDL	-32.17070	32.17070	SECI_Trader	NR/01102023/310520 40/LT-31
N/A	AvSEPL_BHDL2	J & K	JK&LADAKH	-44.08872	44.08872	NHPCL	NR/01102023/310720 42/JKPCL/Avaada/MT OA/20
UTTAR PRADESH	MEJA	J & K	JK&LADAKH	-279.16560	269.98862	MEJA	NR/01102023/311020 23/JKSLDC/2023- 24/MEJA/01Oct23-3
UTTAR PRADESH	MEJA	CHANDIGARH	CHANDIGARH	-35.43445	34.27215	MEJA	NR/01102023/311020 23/LT_MEJA_CHAN DIGARH
HIMACHAL PRADESH	NHPPL	DELHI	TPDDL	-24.38790	23.58440	DELHI	NR/01102023/311020 37/L NR 2019 11
N/A	KWHEP	UTTAR PRADESH	UPPCL	-439.65908	425.19960	PTC	NR/01102023/311220 38/LT-26
RAJASTHAN	SREE-RJ	UTTAR PRADESH	UPPCL	-3.20000	3.09750	SREE-RJ	NR/09102023/091020 23/EX TAM UPPCL 64 mw



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Table - I
Details of Intra-Regional Scheduled Bilateral Exchanges (LUs)

From State/Station	From Utility	To State	To Utility	Ex-Seller	Ex-Purchaser	Applicant	OA Code
N/A	AHEJOL_W_FTG2	HARYANA	HARYANA	-121.66990	121.66990	SECI Trader	NR/30092023/120820 46/L_NR_2022_06
N/A	ASEJOPL_S_FTG2	HARYANA	HARYANA	-99.44500	99.44500	SECI Trader	NR/30092023/120820 46/L_NR_2022_18
N/A	ASEJOPL_W_FTG2	HARYANA	HARYANA	-34.19500	34.19500	SECI Trader	NR/30092023/120820 46/L_NR_2022_19
N/A	KWHEP	HARYANA	HARYANA	-439.65908	425.19960	PTC	NR/30092023/120920 46/LT-25
N/A	KWHEP	HARYANA	HARYANA	-254.99078	246.60822	PTC	NR/30092023/120920 46/LT-54
N/A	KWHEP	PUNJAB	PUNJAB	-439.65908	425.19960	PTC	NR/30092023/120920 46/LT-56
N/A	AP43PL_BKN	HARYANA	HARYANA	-208.92750	208.92750	SECI Trader	NR/30092023/190820 46/L_NR_2021_11
DELHI	BAWANA_GAS	PUNJAB	PUNJAB	-193.57118	187.21620	PUNJAB	NR/30092023/261220 29/SH-06
UTTAR PRADESH	MEJA	PUNJAB	PUNJAB	-127.71145	123.51462	PUNJAB	NR/30092023/290420 44/LT_MEJA_PUNJAB
RAJASTHAN	RAJ_SOLAR	PUNJAB	PUNJAB	-38.94220	38.94220	NVVNL	NR/30092023/300320 41/LT-16
N/A	BUDHIL	UTTARAKHAND	UTTARAKHAND	-111.26700	107.59960	UTTARAKHAND	NR/30092023/300420 47/IN-UK11651230213628P
RAJASTHAN	RAJ_SOLAR	HARYANA	HARYANA	-113.86282	113.86282	SECI Trader	NR/30092023/300620 40/LT-32
DELHI	BAWANA_GAS	HARYANA	HARYANA	-195.04988	188.64848	BAWANA_GAS	NR/30092023/311220 25/SH-07
PUNJAB	PUNJAB	DELHI	BRPL	-2.50000	2.41700	PXIL	NR/30102023/301020 23/1D20231030NR215 22

↑
Long term

Short term

1cwh/cp

4 cwh/cp

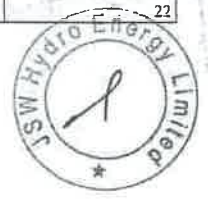
Kandhwa

2 cwh/cp

12.9125

386.28925

399.24175



ANDHRA PRADESH	APTRANSCO	N/A	SCLTPS	-14.90000	-14.90000	HPXL	SR/15102023/15102023/ HPX-TAMDLY-101023- 04841
ANDHRA PRADESH	APTRANSCO	RAJASTHAN	SREE-RJ	-4.25000	-4.25000	HPXL	SR/15102023/15102023/ HPX-TAMDLY-101023- 04842
TAMILNADU	TANGEDCO	RAJASTHAN	SREE-RJ	-16.20000	-16.20000	HPXL	SR/16102023/21102023/ HPX-TAMDLY-061023- 04750
TAMILNADU	TANGEDCO	N/A	SCLTPS	-53.64000	-53.64000	HPXL	SR/16102023/21102023/ HPX-TAMDLY-061023- 04751
TAMILNADU	TANGEDCO	N/A	SCLTPS	-89.40000	-89.40000	HPXL	SR/16102023/21102023/ HPX-TAMDLY-071023- 04769
TAMILNADU	TANGEDCO	RAJASTHAN	SREE-RJ	-25.50000	-25.50000	HPXL	SR/16102023/21102023/ HPX-TAMDLY-071023- 04770
TAMILNADU	TANGEDCO	UTTAR PRADESH	PPGCL	-15.77100	-15.77100	IEXL	SR/16102023/21102023/ EX-LDC-230929-00413
ANDHRA PRADESH	APTRANSCO	HIMACHAL PRADESH	GEE_HP	-16.80000	-16.80000	HPXL	SR/16102023/22102023/ HPX-TAMWKL-111023- 04883
TAMILNADU	TANGEDCO	PUNJAB	PUNJAB	-40.00000	-40.00000	PXIL	SR/18102023/18102023/ DD20231018SR21341
KARNATAKA	KPTCL	HIMACHAL PRADESH	HP-GOVT	-17.79250	-17.79250	IEXL	SR/20102023/20102023/ EX-231019-05606
KARNATAKA	KPTCL	N/A	KWHEP	-4.62250	-4.62250	IEXL	SR/20102023/20102023/ EX-231019-05607
KARNATAKA	KPTCL	UTTAR PRADESH	UPPCL	-53.62500	-53.62500	PCKL	SR/20102023/20102023/ UPPCL_PCKL_01
TAMILNADU	TANGEDCO	UTTAR PRADESH	PPGCL	-34.45590	-34.45590	IEXL	SR/2023/10011/A
TAMILNADU	TANGEDCO	N/A	SINGOLI	-1.92750	-1.92750	HPXL	SR/2023/10356/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	HP-GOVT	-9.50000	-9.50000	PXIL	SR/2023/10365/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	HP-GOVT	-11.00000	-11.00000	PXIL	SR/2023/10366/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	HP-GOVT	-4.25000	-4.25000	PXIL	SR/2023/10370/C
TAMILNADU	TANGEDCO	HIMACHAL PRADESH	HP-GOVT	-4.50000	-4.50000	PXIL	SR/2023/10379/C



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Table - J
Details of Inter-Regional Bilateral Exchanges (LUs)

From State	From Utility	To State/Station	To Utility	EX-NR Periphery	EX-NR State Periphery	Applicant	OA Code
TAMILNADU	TANGEDCO	N/A	AURY RF	-1.35000	-1.35000	PXIL	SR/2023/10646/C
TAMILNADU	TANGEDCO	PUNJAB	PUNJAB	-14.00000	-14.00000	PXIL	SR/2023/10653/C
TAMILNADU	TANGEDCO	N/A	AURY RF	-2.00000	-2.00000	PXIL	SR/2023/10654/C
TAMILNADU	TANGEDCO	N/A	DADRI RF	-4.05000	-4.05000	PXIL	SR/2023/10655/C
TAMILNADU	TANGEDCO	N/A	AURY CRF	-0.36000	-0.36000	PXIL	SR/2023/10658/C
TAMILNADU	TANGEDCO	N/A	ANTA RF	-1.91750	-1.91750	PXIL	SR/2023/10660/C
TAMILNADU	TANGEDCO	PUNJAB	PUNJAB	-14.49000	-14.49000	PXIL	SR/2023/10668/C
TAMILNADU	TANGEDCO	PUNJAB	PUNJAB	-65.85500	-65.85500	PXIL	SR/2023/10670/C
TAMILNADU	TANGEDCO	PUNJAB	PUNJAB	-20.98500	-20.98500	PXIL	SR/2023/10675/C
TAMILNADU	TANGEDCO	PUNJAB	PUNJAB	-6.27500	-6.27500	HPXL	SR/2023/10689/C
TAMILNADU	TANGEDCO	PUNJAB	PUNJAB	-0.87500	-0.87500	HPXL	SR/2023/10690/C
TAMILNADU	TANGEDCO	PUNJAB	PUNJAB	-12.00000	-12.00000	PXIL	SR/2023/10691/C
TAMILNADU	TANGEDCO	PUNJAB	PUNJAB	-5.57500	-5.57500	IELX	SR/2023/10693/C
TAMILNADU	TANGEDCO	PUNJAB	PUNJAB	-1.99000	-1.99000	PXIL	SR/2023/10699/C
KARNATAKA	KPTCL	HIMACHAL PRADESH	HP-GOVT	-15.66500	-15.66500	IELX	SR/21102023/21102023/1 EX 231020 05626
KARNATAKA	KPTCL	UTTAR PRADESH	UPPCL	-15.50000	-15.50000	PCKL	SR/21102023/21102023/ UPPCL PCKL 02
KARNATAKA	KPTCL	N/A	KWHEP	-2.36500	-2.36500	IELX	SR/21102023/22102023/1 EX 231020 05627
TAMILNADU	TANGEDCO	RAJASTHAN	SREE-RJ	-16.20000	-16.20000	HPXL	SR/23102023/28102023/ HPX-TAMDLY-061023- 04750
TAMILNADU	TANGEDCO	N/A	SCLTPS	-53.64000	-53.64000	HPXL	SR/23102023/28102023/ HPX-TAMDLY-061023- 04751
TAMILNADU	TANGEDCO	N/A	SCLTPS	-89.40000	-89.40000	HPXL	SR/23102023/28102023/ HPX-TAMDLY-071023- 04769
TAMILNADU	TANGEDCO	RAJASTHAN	SREE-RJ	-25.50000	-25.50000	HPXL	SR/23102023/28102023/ HPX-TAMDLY-071023- 04770
TAMILNADU	TANGEDCO	UTTAR PRADESH	PPGCL	-18.00000	-18.00000	IELX	SR/23102023/28102023/1 EX-LDC-230929-00413
KARNATAKA	KPTCL	HIMACHAL PRADESH	HP-GOVT	-8.24750	-8.24750	IELX	SR/25102023/25102023/1 EX 231024 05645
KARNATAKA	KPTCL	N/A	KWHEP	-3.39500	-3.39500	IELX	SR/25102023/25102023/1 EX 231024 05646
KARNATAKA	KPTCL	UTTAR PRADESH	UPPCL	-15.50000	-15.50000	PCKL	SR/25102023/25102023/ UPPCL PCKL 03
KARNATAKA	KPTCL	HIMACHAL PRADESH	HP-GOVT	-7.56000	-7.56000	IELX	SR/26102023/26102023/1 EX-231025-05652
KARNATAKA	KPTCL	N/A	KWHEP	-2.53000	-2.53000	IELX	SR/26102023/26102023/1 EX-231025-05653
KARNATAKA	KPTCL	UTTAR PRADESH	UPPCL	-15.00000	-15.00000	PCKL	SR/26102023/26102023/ UPPCL PCKL 04
KARNATAKA	KPTCL	UTTAR PRADESH	UPPCL	-6.00000	-6.00000	PCKL	SR/27102023/27102023/ UPPCL PCKL 05
N/A	Tataram, Orange	HARYANA	HARYANA	143.03585	143.03728	Tataram, Orange	SR 2023/10699/C



Northern Regional Power Committee
Provisional REA for the Month of OCTOBER, 2023

Table - K
Details of Scheduled Energy Exchange (LUs) Through Power Exchange

Power Exchange	To Entity	EX-NR Periphery	EX-NR State Periphery
GDAM IEX	DELHI	56.831300	54.978173
GDAM IEX	HARYANA	1.824200	1.763900
GDAM IEX	HIMACHAL PRADESH	0.881525	0.853250
GDAM IEX	PUNJAB	94.694950	91.556700
GDAM IEX	RAILWAYS	27.378900	26.480800
GDAM IEX	RAJASTHAN	83.115650	80.377125
GDAM IEX	UTTAR PRADESH	58.258825	56.355475
GDAM IEX	ADANI SE JODHPUR 2 L	-49.922500	-49.922500
GDAM IEX	ADANI SEJ2PL	-162.601000	-162.601000
GDAM IEX	DELHI	-23.677425	-23.677425
GDAM IEX	HIMACHAL PRADESH	-48.155975	-48.155975
GDAM IEX	J & K	-203.554200	-203.554200
GDAM IEX	RAJASTHAN	-34.096450	-34.096450
GDAM IEX	RENEW SURYA RAVI	-197.864300	-197.864300
GDAM IEX	SINGOLI BHATWARI	-149.957075	-149.957075
GDAM IEX	SORANG HEP	-70.009825	-70.009825
GDAM IEX	UTTAR PRADESH	-4.188250	-4.188250
HPX	HARYANA	38.009225	36.784200
HPX	UTTAR PRADESH	21.353375	20.667750
IEX	CHANDIGARH	58.276200	56.344575
IEX	DELHI	595.814550	576.317275
IEX	HARYANA	293.353950	283.795450
IEX	HIMACHAL PRADESH	24.567550	23.776325
IEX	J & K	1299.662300	1257.435850
IEX	NEPAL	1.050000	1.014825
IEX	PUNJAB	1270.786550	1228.829575
IEX	RAILWAYS	220.823975	213.583050
IEX	RAJASTHAN	821.721950	794.802825
IEX	UTTAR PRADESH	4633.297625	4480.532875
IEX	UTTARAKHAND	1780.495000	1722.124825
IEX	ADANI SE JODHPUR 2 L	-55.982500	-55.982500
IEX	ADANI SEJ2PL	-69.768750	-69.768750
IEX	ADHPL	-199.311075	-199.311075
IEX	BUDHIL HEP	-15.254000	-15.254000
IEX	CHANDIGARH	-193.450000	-193.450000
IEX	DADRI-II TPS	-0.099000	-0.099000
IEX	DELHI	-1579.068525	-1579.068525
IEX	HARYANA	-428.491700	-428.491700
IEX	HIMACHAL PRADESH	-897.809850	-897.809850
IEX	IGSTPS-JHAJJAR	-29.254425	-29.254425
IEX	J & K	-67.474125	-67.474125
IEX	KARCHAM WANGTOO	-384.473250	-384.473250
IEX	NEPAL	-405.535500	-405.535500
IEX	PARBATH-II INFIRM	-13.550000	-13.550000
IEX	PUNJAB	-930.081725	-930.081725
IEX	RAJASTHAN	-1015.653225	-1015.653225
IEX	RENEW SURYA RAVI	-250.154750	-250.154750
IEX	RIHAND-II STPS	-2.161750	-2.161750



IEX	SAINJ HEP	-133.348750	-133.348750
IEX	SCL Beawar	-91.155000	-91.155000
IEX	SINGOLI BIJATWARI	-20.601250	-20.601250
IEX	SORANG HEP	-53.290000	-53.290000
IEX	UNCHAHAHAR-I TPS	-3.496375	-3.496375
IEX	UNCHAHAHAR-II TPS	-1.995000	-1.995000
IEX	UNCHAHAHAR-III TPS	-2.031150	-2.031150
IEX	UNCHAHAHAR-IV TPS	-0.063000	-0.063000
IEX	UTTAR PRADESH	-5024.175950	-5024.175950
IEX	UTTARAKHAND	-27.448100	-27.448100
PXI	DELHI	6.000000	5.803600
PXI	HARYANA	18.683825	18.081175
PXI	UTTAR PRADESH	3.028250	2.931100
PXI	PUNJAB	-6.000000	-6.000000
RTM HPX	UTTAR PRADESH	141.682500	137.128725
RTM IEX	CHANDIGARH	3.994225	3.864800
RTM IEX	DELHI	431.347950	417.177350
RTM IEX	HARYANA	449.630500	434.878375
RTM IEX	HIMACHAL PRADESH	292.610175	282.977375
RTM IEX	J & K	1117.393025	1080.761575
RTM IEX	PUNJAB	1051.534175	1016.254975
RTM IEX	RAILWAYS	62.554475	60.486925
RTM IEX	RAJASTHAN	859.138200	831.095250
RTM IEX	SAINJ HEP	0.160625	0.155275
RTM IEX	SCL Beawar	0.915375	0.886000
RTM IEX	UTTAR PRADESH	1808.221125	1749.089850
RTM IEX	UTTARAKHAND	602.988900	583.084625
RTM IEX	ADHPL	-31.169250	-31.169250
RTM IEX	BUDHIL HEP	-1.071500	-1.071500
RTM IEX	CHANDIGARH	-2.025000	-2.025000
RTM IEX	DADRI TPS	-66.154225	-66.154225
RTM IEX	DADRI-II TPS	-38.917300	-38.917300
RTM IEX	DELHI	-740.427150	-740.427150
RTM IEX	HARYANA	-413.987875	-413.987875
RTM IEX	HIMACHAL PRADESH	-416.844250	-416.844250
RTM IEX	IGSTPS-JHAJJAR	-56.817225	-56.817225
RTM IEX	J & K	-153.083150	-153.083150
RTM IEX	KARCHAM WANGTOO	-1.816000	-1.816000
RTM IEX	PUNJAB	-1108.252950	-1108.252950
RTM IEX	RAJASTHAN	-2360.842250	-2360.842250
RTM IEX	RENEW SURYA RAVI	-0.118500	-0.118500
RTM IEX	RIHAND STPS	-17.228250	-17.228250
RTM IEX	RIHAND-II STPS	-9.210250	-9.210250
RTM IEX	RIHAND-III STPS	-16.564000	-16.564000
RTM IEX	SAINJ HEP	-7.982000	-7.982000
RTM IEX	SCL Beawar	-7.730000	-7.730000
RTM IEX	SINGOLI BHATWARI	-22.210250	-22.210250
RTM IEX	SINGRAULI STPS	-40.911350	-40.911350
RTM IEX	SORANG HEP	-4.827500	-4.827500
RTM IEX	TANDA-II STPS	-48.493025	-48.493025
RTM IEX	UNCHAHAHAR-I TPS	-8.849250	-8.849250
RTM IEX	UNCHAHAHAR-II TPS	-14.141200	-14.141200
RTM IEX	UNCHAHAHAR-III TPS	-6.509750	-6.509750
RTM IEX	UNCHAHAHAR-IV TPS	-18.997475	-18.997475

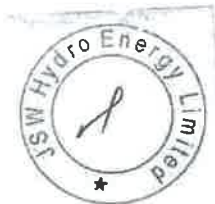


Northern Regional Power Committee
Provisional REA for the Month of NOVEMBER, 2023
Table - I
Details of Intra-Regional Scheduled Bilateral Exchanges (LUs)

From State/Station	From Utility	To State	To Utility	Ex-Seller	Ex-Purchaser	Applicant	OA Code
N/A	ERCPL_FTG2	DELHI	BYPL	-86.24552	86.24552	SECI_Trader	NR/01102023/021220 45/L_NR_2021_13
HIMACHAL PRADESH	THPPL_RALA	DELHI	TPDDL	-17.26250	16.66395	DELHI	NR/01102023/050120 40/L_NR_2020_02
UTTAR PRADESH	MEJA	UTTARAKHAND	UTTARAKHAND	-154.19640	148.83085	UTTARAKHAND	NR/01102023/071220 35/ukmeia01
N/A	AP4IPL_BHDL	DELHI	BRPL	-153.96532	153.96532	SECI_Trader	NR/01102023/080320 47/L_NR_2021_14
N/A	KWHEP	RAJASTHAN	RAJASTHAN	-149.59115	144.39355	PTC	NR/01102023/120920 46/05
N/A	ERCPL_FTG2	DELHI	BRPL	-431.24600	431.24600	ERCPL_FTG2	NR/01102023/130820 46/L_NR_2021_12
UTTAR PRADESH	VISHNUPRAYAG HEP	UTTARAKHAND	UTTARAKHAND	-81.96240	79.10640	UTTARAKHAND	NR/01102023/160620 41/SH-01
N/A	SINGRAULI_SOLAR	HIMACHAL PRADESH	HP	-15.38620	15.38620	HP	NR/01102023/171220 37/HP-06
HARYANA	CLP_JHAJJAR	DELHI	TPDDL	-668.89310	645.58255	TPTCL	NR/01102023/190720 37/LT-05
RAJASTHAN	RAJ_SOLAR	HIMACHAL PRADESH	HP	-25.68045	25.68045	HP	NR/01102023/200320 40/HP-04
N/A	AURAIYA_SOLAR	UTTAR PRADESH	UPPCL	-25.43902	25.43902	AURAIYA_SOLAR	NR/01102023/201220 43/L_NR_2020_10
UTTAR PRADESH	MEJA	RAJASTHAN	RAJASTHAN	-154.87390	149.49805	RUVNL	NR/01102023/210420 44/01
HIMACHAL PRADESH	SHEPL_HP	DELHI	TPDDL	-13.42960	12.96492	DELHI	NR/01102023/220520 37/LT-59
N/A	ASE4PL	DELHI	BYPL	-79.60548	79.60548	SECI_Trader	NR/01102023/250720 45/L_NR_2021_15
N/A	AURAIYA_SOLAR	UTTAR PRADESH	UPPCL	-25.43955	25.43955	AURAIYA_SOLAR	NR/01102023/260220 45/L_NR_2022_13
N/A	RENEW_Bhadla	UTTAR PRADESH	UPPCL	-79.05598	79.05598	SECI_Trader	NR/01102023/270320 43/L_NR_2019_13
N/A	APIPL	UTTAR PRADESH	UPPCL	-266.46008	266.46008	SECI_Trader	NR/01102023/270320 43/L_NR_2019_14
N/A	SBEFPL_Bhadla	UTTAR PRADESH	UPPCL	-315.23730	315.23730	SECI_Trader	NR/01102023/270320 43/L_NR_2019_15
N/A	CSP_Bhadla	UTTAR PRADESH	UPPCL	-169.00632	169.00632	SECI_Trader	NR/01102023/270320 43/L_NR_2019_22
N/A	CSP_Bhadla	UTTAR PRADESH	UPPCL	-169.00655	169.00655	SECI_Trader	NR/01102023/270320 43/L_NR_2020_01
N/A	CSP_Bhadla	UTTAR PRADESH	UPPCL	-168.84572	168.84572	SECI_Trader	NR/01102023/270320 43/L_NR_2020_03
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-190.18250	183.56535	DELHI	NR/01102023/270520 33/DIAPL(L_NR_202 3_04)
RAJASTHAN	RAJ_SOLAR	DELHI	BYPL	-25.05288	25.05288	SECI_Trader	NR/01102023/300420 40/GNA_LT_35
RAJASTHAN	RAJ_SOLAR	DELHI	BRPL	-25.68045	25.68045	SECI_Trader	NR/01102023/300420 40/GNA_LT_36
UTTARAKHAND	UTTARAKHAND	HIMACHAL PRADESH	HP	-210.31440	203.00160	HP	NR/01102023/300920 33/HP-03
PUNJAB	PUNJAB	HIMACHAL PRADESH	HP	-85.17140	82.70630	HP	NR/01102023/300920 33/HP-05



N/A	SAINJ	HIMACHAL PRADESH	HP	-66.93300	64.60100	HP	NR/01102023/300920 48/HP-01
UTTAR PRADESH	UPPCL	HIMACHAL PRADESH	HP	-39.34560	37.97040	HP	NR/01102023/300920 48/HP-02
RAJASTHAN	RAJ_SOLAR	UTTAR PRADESH	UPPCL	-61.19590	61.19590	NVVNL	NR/01102023/310320 41/LT-17
UTTAR PRADESH	ALAKNANDA	UTTARAKHAND	UTTARAKHAND	-72.17520	69.66960	UTTARAKHAND	NR/01102023/310320 50/LT-38
RAJASTHAN	RAJ_SOLAR	DELHI	TPDDL	-25.05288	25.05288	SECI_Trader	NR/01102023/310520 40/LT-31
N/A	AvSEPL_BHDL2	J & K	JK&LADAKH	-33.38475	33.38475	NHPCL	NR/01102023/310720 42/JKPCL/Avvaada/MT OA/20
HIMACHAL PRADESH	NHPPL	DELHI	TPDDL	-13.75145	13.27210	DELHI	NR/01102023/311020 37/L_NR 2019 11
N/A	KWHEP	UTTAR PRADESH	UPPCL	-287.69578	277.70505	PTC	NR/01102023/311220 38/LT-26
UTTAR PRADESH	UPPCL	RAJASTHAN	RAJASTHAN	-4200.00000	4053.56000	RUVNL	NR/01112023/290220 24/21
UTTAR PRADESH	PPGCL	RAJASTHAN	RAJASTHAN	-152.68540	147.37480	TPTCL	NR/01112023/301120 23/18
UTTAR PRADESH	PPGCL	HIMACHAL PRADESH	HP	-150.84405	145.57500	IELX	NR/01112023/301120 23/HP-07
DELHI	BRPL	HIMACHAL PRADESH	HP	-221.06320	213.30000	APPCPL	NR/01112023/301120 23/HP-09
DELHI	BRPL	HIMACHAL PRADESH	HP	-1074.39240	1036.95480	MPL	NR/01112023/301120 23/HP-10
UTTAR PRADESH	MEJA	HIMACHAL PRADESH	HP	-16.37310	15.80808	HP	NR/01112023/301120 23/HP-12



N/A	AHEJOL_W_FTG2	HARYANA	HARYANA	-106.42968	106.42968	SECI_Trader	NR/30092023/120820 46/L_NR_2022_06
N/A	ASEJOPL_S_FTG2	HARYANA	HARYANA	-82.40250	82.40250	SECI_Trader	NR/30092023/120820 46/L_NR_2022_18
N/A	ASEJOPL_W_FTG 2	HARYANA	HARYANA	-27.94750	27.94750	SECI_Trader	NR/30092023/120820 46/L_NR_2022_19
N/A	KWHEP	HARYANA	HARYANA	-287.69578	277.70505	PTC	NR/30092023/120920 46/LT-25
N/A	KWHEP	HARYANA	HARYANA	-166.85778	161.05570	PTC	NR/30092023/120920 46/LT-54
N/A	KWHEP	PUNJAB	PUNJAB	-287.69578	277.70505	PTC	NR/30092023/120920 46/LT-56
N/A	AP43PL_BKN	HARYANA	HARYANA	-161.08460	161.08460	SECI_Trader	NR/30092023/190820 46/L_NR_2021_11
DELHI	BAWANA_GAS	PUNJAB	PUNJAB	-195.10140	188.28315	PUNJAB	NR/30092023/261220 29/SH-06
UTTAR PRADESH	MEJA	PUNJAB	PUNJAB	-149.14152	143.92768	PUNJAB	NR/30092023/290420 44/LT_MEJA_PUNJA B
RAJASTHAN	RAJ_SOLAR	PUNJAB	PUNJAB	-26.76880	26.76880	NVVNL	NR/30092023/300320 41/LT-16
N/A	BUDHIL	UTTARAKHAND	UTTARAKHAND	-61.64070	59.49955	UTTARAKHAND	NR/30092023/300420 47/IN- UKI1651230213628P
RAJASTHAN	RAJ_SOLAR	HARYANA	HARYANA	-89.28682	89.28682	SECI_Trader	NR/30092023/300620 40/LT-32
DELHI	BAWANA_GAS	HARYANA	HARYANA	-178.66932	172.43088	BAWANA_GAS	NR/30092023/311220 25/SH-07

↑
Long term

KWHEP

Short term :- Kanhan 2 Bawana 259.66225



Northern Regional Power Committee
Provisional REA for the Month of NOVEMBER, 2023

Table - K

Details of Scheduled Energy Exchange (LUs) Through Power Exchange

Power Exchange	To Entity	EX-NR Periphery	EX-NR State Periphery
GDAM IEX	DELHI	117.415900	113.328325
GDAM IEX	HARYANA	2.000500	1.928725
GDAM IEX	PUNJAB	18.299250	17.646350
GDAM IEX	RAILWAYS	9.789775	9.441900
GDAM IEX	RAJASTHAN	73.666000	71.115025
GDAM IEX	UTTAR PRADESH	28.507050	27.507125
GDAM IEX	ADANI SE JODHPUR 2 L	-65.962500	-65.962500
GDAM IEX	ADANI SEJ2PL M	-140.864875	-140.864875
GDAM IEX	DELHI	-3.840000	-3.840000
GDAM IEX	HARYANA	-0.720000	-0.720000
GDAM IEX	HIMACHAL PRADESH	-61.557875	-61.557875
GDAM IEX	J & K	-69.250825	-69.250825
GDAM IEX	RAJASTHAN	-26.436000	-26.436000
GDAM IEX	RENEW SURYA RAVI	-146.167350	-146.167350
GDAM IEX	SINGOLI BHATWARI	-120.973375	-120.973375
GDAM IEX	SORANG HEP	-50.077925	-50.077925
GDAM IEX	UTTAR PRADESH	-53.208975	-53.208975
HPX	DELHI	21.465000	20.722400
HPX	RAJASTHAN	-7.345000	-7.345000
HPX	SCL Beawar	-14.120000	-14.120000
IEX	CHANDIGARH	2.200000	2.123100
IEX	DELHI	471.958000	455.696850
IEX	HARYANA	269.947775	260.279550
IEX	HIMACHAL PRADESH	1.680000	1.620000
IEX	J & K	3703.208475	3573.936625
IEX	PUNJAB	876.356125	844.979400
IEX	RAILWAYS	311.587175	300.709300
IEX	RAJASTHAN	476.632650	460.176850
IEX	UTTAR PRADESH	3379.990400	3262.813725
IEX	UTTARAKHAND	2222.194275	2144.851000
IEX	ADANI SE JODHPUR 2 L	-18.862500	-18.862500
IEX	ADHPL	-165.955000	-165.955000
IEX	BUDHIL HEP	-8.307000	-8.307000
IEX	CHANDIGARH	-224.190000	-224.190000
IEX	DADRI TPS	-2.016000	-2.016000
IEX	DADRI-II TPS	-0.921500	-0.921500
IEX	DELHI	-412.577900	-412.577900
IEX	HARYANA	-735.333025	-735.333025
IEX	HIMACHAL PRADESH	-914.046050	-914.046050
IEX	J & K	-11.562050	-11.562050
IEX	KARCHAM WANGTOO	-258.096250	-258.096250
IEX	NEPAL	-443.122975	-443.122975
IEX	PARBAT-II INFIRM	-34.987500	-34.987500
IEX	PUNJAB	-262.051975	-262.051975
IEX	RAJASTHAN	-1421.767850	-1421.767850
IEX	RENEW SURYA RAVI	-213.825450	-213.825450
IEX	RIHAND STPS	-14.640000	-14.640000
IEX	RIHAND-II STPS	-41.132000	-41.132000



IEX	SAINJ HEP	-86.102750	-86.102750
IEX	SCL Beawar	-196.002500	-196.002500
IEX	SINGOLI BHATWARI	-25.283250	-25.283250
IEX	SINGRAULI STPS	-135.015675	-135.015675
IEX	SORANG HEP	-59.236000	-59.236000
IEX	UNCHAHAAR-I TPS	-2.332000	-2.332000
IEX	UNCHAHAAR-II TPS	-8.240125	-8.240125
IEX	UNCHAHAAR-III TPS	-1.489250	-1.489250
IEX	UNCHAHAAR-IV TPS	-10.142750	-10.142750
IEX	UTTAR PRADESH	-5234.331300	-5234.331300
IEX	UTTARAKHAND	-49.812500	-49.812500
PXI	DELHI	21.875000	21.145225
PXI	PUNJAB	-21.875000	-21.875000
PXI	RAJASTHAN	-1.125000	-1.125000
RTM IEX	DELHI	399.474175	385.647925
RTM IEX	HARYANA	163.004325	157.213175
RTM IEX	HIMACHAL PRADESH	25.803625	24.893225
RTM IEX	J & K	1755.519425	1693.854375
RTM IEX	PUNJAB	734.766275	708.452925
RTM IEX	RAILWAYS	22.377525	21.592650
RTM IEX	RAJASTHAN	320.553375	309.419350
RTM IEX	UTTAR PRADESH	1220.162200	1177.348175
RTM IEX	UTTARAKHAND	397.727325	384.014100
RTM IEX	ADHPL	-7.446000	-7.446000
RTM IEX	BUDHIL HEP	-0.232000	-0.232000
RTM IEX	DADRI TPS	-34.499800	-34.499800
RTM IEX	DADRI-II TPS	-15.845450	-15.845450
RTM IEX	DELHI	-363.713475	-363.713475
RTM IEX	HARYANA	-152.341000	-152.341000
RTM IEX	HIMACHAL PRADESH	-201.943775	-201.943775
RTM IEX	IGSTPS-JHAJJAR	-67.771850	-67.771850
RTM IEX	J & K	-77.697250	-77.697250
RTM IEX	KARCHAM WANGTOO	-1.566000	-1.566000
RTM IEX	PUNJAB	-177.100325	-177.100325
RTM IEX	RAJASTHAN	-2524.744425	-2524.744425
RTM IEX	RENEW SURYA RAVI	-5.267000	-5.267000
RTM IEX	RIHAND STPS	-148.541850	-148.541850
RTM IEX	RIHAND-II STPS	-112.341475	-112.341475
RTM IEX	RIHAND-III STPS	-147.451850	-147.451850
RTM IEX	SAINJ HEP	-0.395500	-0.395500
RTM IEX	SCL Beawar	-1.885000	-1.885000
RTM IEX	SINGOLI BHATWARI	-7.847500	-7.847500
RTM IEX	SINGRAULI STPS	-168.077000	-168.077000
RTM IEX	SORANG HEP	-0.935000	-0.935000
RTM IEX	TANDA-II STPS	-138.624875	-143.237600
RTM IEX	UNCHAHAAR-I TPS	-7.813375	-7.813375
RTM IEX	UNCHAHAAR-II TPS	-14.058525	-14.058525
RTM IEX	UNCHAHAAR-III TPS	-8.510950	-8.510950
RTM IEX	UNCHAHAAR-IV TPS	-45.422650	-45.422650
RTM IEX	UTTAR PRADESH	-1517.252650	-1517.252650
RTM IEX	UTTARAKHAND	-100.304775	-100.304775



Northern Regional Power Committee
Provisional REA for the Month of DECEMBER, 2023
Table - I
Details of Intra-Regional Scheduled Bilateral Exchanges (LUs)

From State/Station	From Utility	To State	To Utility	Ex-Seller	Ex-Purchaser	Applicant	OA Code
N/A	ERCPL_FTG2	DELHI	BYPL	-95.98670	95.98670	SECI_Trader	NR/01102023/021220 45/L NR 2021 13
HIMACHAL PRADESH	THPPL_RALA	DELHI	TPDDL	-13.53762	13.00722	DELHI	NR/01102023/050120 40/L NR 2020 02
UTTAR PRADESH	MEJA	UTTARAKHAND	UTTARAKHAND	-239.88198	230.47445	UTTARAKHAND	NR/01102023/071220 35/ukmejn01
N/A	AP41PL_BHDL	DELHI	BRPL	-166.80812	166.80812	SECI_Trader	NR/01102023/080320 47/L NR 2021 14
N/A	KWHEP	RAJASTHAN	RAJASTHAN	-114.94618	110.46155	PTC	NR/01102023/120920 46/05
N/A	ERCPL_FTG2	DELHI	BRPL	-479.94435	479.94435	ERCPL_FTG2	NR/01102023/130820 46/L NR 2021 12
UTTAR PRADESH	VISHNUPRAYAG HEP	UTTARAKHAND	UTTARAKHAND	-62.51280	60.07200	UTTARAKHAND	NR/01102023/160620 41/SH-01
N/A	SINGRAULI_SOL AR	HIMACHAL PRADESH	HP	-14.49348	14.49348	HP	NR/01102023/171220 37/HP-06
HARYANA	CLP_JHAJJAR	DELHI	TPDDL	-688.17052	661.36322	TPTCL	NR/01102023/190720 37/LT-05
RAJASTHAN	RAJ_SOLAR	HIMACHAL PRADESH	HP	-29.13612	29.13612	SECI_Trader	NR/01102023/200320 40/HP-04
N/A	AURAIYA_SOLAR	UTTAR PRADESH	UPPCL	-20.28102	20.28102	AURAIYA_SOLAR	NR/01102023/201220 43/L NR 2020 10
UTTAR PRADESH	MEJA	RAJASTHAN	RAJASTHAN	-317.31032	304.82480	RUVNL	NR/01102023/210420 44/01
HIMACHAL PRADESH	SHEPL_HP	DELHI	TPDDL	-8.65378	8.31592	DELHI	NR/01102023/220520 37/LT-59
N/A	ASE4PL	DELHI	BYPL	-86.14942	86.14942	SECI_Trader	NR/01102023/250720 45/L NR 2021 15
N/A	AURAIYA_SOLAR	UTTAR PRADESH	UPPCL	-20.28102	20.28102	AURAIYA_SOLAR	NR/01102023/260220 45/L NR 2022 13
N/A	RENEW_Bhadla	UTTAR PRADESH	UPPCL	-88.75740	88.75740	SECI_Trader	NR/01102023/270320 43/L NR 2019 13
N/A	APIPL	UTTAR PRADESH	UPPCL	-287.34975	287.34975	SECI_Trader	NR/01102023/270320 43/L NR 2019 14
N/A	SBEFPL_Bhadla	UTTAR PRADESH	UPPCL	-344.56068	344.56068	SECI_Trader	NR/01102023/270320 43/L NR 2019 15
N/A	CSP_Bhadla	UTTAR PRADESH	UPPCL	-186.26515	186.26515	SECI_Trader	NR/01102023/270320 43/L NR 2019 22
N/A	CSP_Bhadla	UTTAR PRADESH	UPPCL	-186.26350	186.26350	SECI_Trader	NR/01102023/270320 43/L NR 2020 01
N/A	CSP_Bhadla	UTTAR PRADESH	UPPCL	-186.26350	186.26350	SECI_Trader	NR/01102023/270320 43/L NR 2020 03
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-160.48000	154.20912	DELHI	NR/01102023/270520 33/DIAPL(L_NR_202 3 04)
RAJASTHAN	RAJ_SOLAR	DELHI	BYPL	-28.42518	28.42518	SECI_Trader	NR/01102023/300420 40/GNA LT 35
RAJASTHAN	RAJ_SOLAR	DELHI	BRPL	-29.13612	29.13612	SECI_Trader	NR/01102023/300420 40/GNA LT 36
UTTARAKHAND	UTTARAKHAND	HIMACHAL PRADESH	HP	-171.50640	164.80320	HP	NR/01102023/300920 33/HP-03
PUNJAB	PUNJAB	HIMACHAL PRADESH	HP	-87.12100	83.72148	HP	NR/01102023/300920 33/HP-03



N/A	SAINJ	HIMACHAL PRADESH	HP	-51.65150	49.63630	HP	NR/01102023/300920 48/HP-01
UTTAR PRADESH	UPPCL	HIMACHAL PRADESH	HP	-30.76080	29.56080	HP	NR/01102023/300920 48/HP-02
RAJASTHAN	RAJ_SOLAR	UTTAR PRADESH	UPPCL	-63.57022	63.57022	NVVNL	NR/01102023/310320 41/LT-17
UTTAR PRADESH	ALAKNANDA	UTTARAKHAND	UTTARAKHAND	-54.88320	52.74000	UTTARAKHAND	NR/01102023/310320 50/LT-38
RAJASTHAN	RAJ_SOLAR	DELHI	TPDDL	-28.42518	28.42518	SECI Trader	NR/01102023/310520 40/LT-31
N/A	AvSEPL_BHDL2	J & K	JK&LADAKH	-38.25000	38.25000	NHPCL	NR/01102023/310720 42/JKPC/L/Avaada/MT OA/20
HIMACHAL PRADESH	NHPPL	DELHI	TPDDL	-9.96570	9.57835	DELHI	NR/01102023/311020 37/L NR 2019 11
N/A	KWHEP	UTTAR PRADESH	UPPCL	-221.05942	212.43740	PTC	NR/01102023/311220 38/LT-26
UTTAR PRADESH	UPPCL	RAJASTHAN	RAJASTHAN	-4310.00000	4141.55100	RUVNL	NR/01112023/290220 24/21
UTTAR PRADESH	MEJA	CHANDIGARH	CHANDIGARH	-60.97912	58.58040	MEJA	NR/01112023/310320 24/NR/01112023/3103 2023/LT Meja
DELHI	BRPL	HIMACHAL PRADESH	HP	-328.04520	315.74520	MANIKARAN	NR/01122023/071220 23/HP-18
UTTAR PRADESH	UPPCL	J & K	JK&LADAKH	-180.15900	173.33820	UPPCL	NR/01122023/101220 23/JKSLDC/2023/Ban king/01DEC23-1
DELHI	BRPL	HIMACHAL PRADESH	HP	-71.46000	68.65040	APPCPL	NR/01122023/151220 23/HP-15
DELHI	BYPL	UTTARAKHAND	UTTARAKHAND	-744.00000	714.93840	APPCPL	NR/01122023/311220 23/5412UPCL/CE(Co mm)/SE/Banking



Northern Regional Power Committee
Provisional REA for the Month of DECEMBER, 2023

Table - I

Details of Intra-Regional Scheduled Bilateral Exchanges (LUs)

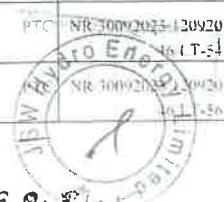
From State/Station	From Utility	To State	To Utility	Ex-Seller	Ex-Purchaser	Applicant	OA Code
N/A	RSRPL_BKN	DELHI	NDMC	-11.36050	10.92978	SJVNL	NR/23122023/311220 23/SJVNL231223NR13 10
HIMACHAL PRADESH	NWHPS_SJVN	UTTARAKHAND	UTTARAKHAND	-12.02138	11.55465	SJVNL	NR/24112023/301120 53/21-11-2005
N/A	TSIPL_BKN	DELHI	BYPL	-152.01975	152.01975	SECI_Trader	NR/26072023/251220 43/L NR 2023 10
N/A	TSIPL_BKN	DELHI	BRPL	-356.92275	356.92275	SECI_Trader	NR/26072023/310720 42/L NR 2023 07
N/A	SINGOLI	DELHI	BRPL	-0.77500	0.74650	IEXL	NR/27122023/271220 23/IEX_231226_0594 9
N/A	SINGOLI	DELHI	BRPL	-1.24000	1.19440	HPXL	NR/28122023/281220 23/HPX-TAMCTG- 271223-05534
N/A	SINGOLI	DELHI	BYPL	-1.24000	1.19440	HPXL	NR/29122023/291220 23/HPX-TAMCTG- 281223-05547
N/A	MSUPL_BHDL2	HARYANA	HARYANA	-375.78115	375.78115	SECI_Trader	NR/30092023/010220 47/L NR 2022 07
N/A	AvRJHNP_BKN	HARYANA	HARYANA	-409.65108	409.65108	AvRJHNP_BKN	NR/30092023/010320 47/L NR 2023 09
N/A	AHEJ2L_S_FTG2	PUNJAB	PUNJAB	-568.61250	568.61250	SECI_Trader	NR/30092023/091120 46/L NR 2022 14
N/A	AHEJ2L_W_FTG2	PUNJAB	PUNJAB	-177.68000	177.68000	SECI_Trader	NR/30092023/091120 46/L NR 2022 15
N/A	AHEJ3L_S_FTG2	PUNJAB	PUNJAB	-368.08500	368.08500	SECI_Trader	NR/30092023/091120 46/L NR 2022 16
N/A	AHEJ3L_W_FTG2	PUNJAB	PUNJAB	-115.20500	115.20500	SECI_Trader	NR/30092023/091120 46/L NR 2022 17
N/A	AvSEPL_BHDL2	PUNJAB	PUNJAB	-573.73782	573.73782	NHPCL	NR/30092023/091220 47/M NR 2023 01
RAJASTHAN	RAJ_SOLAR	PUNJAB	PUNJAB	-36.29528	36.29528	SECI_Trader	NR/30092023/110520 41/LT-42
HIMACHAL PRADESH	MALANA2-HP	PUNJAB	PUNJAB	-24.24810	23.30040	PTC	NR/30092023/120720 52/L NR 2019 20
N/A	AHEJOL_S_FTG2	HARYANA	HARYANA	-348.20975	348.20975	SECI_Trader	NR/30092023/120820 46/L NR 2022 03
N/A	AHEJOL_W_FTG2	HARYANA	HARYANA	-114.55220	114.55220	SECI_Trader	NR/30092023/120820 46/L NR 2022 04
N/A	AHEJOL_S_FTG2	HARYANA	HARYANA	-348.19542	348.19542	SECI_Trader	NR/30092023/120820 46/L NR 2022 05
N/A	AHEJOL_W_FTG2	HARYANA	HARYANA	-115.19915	115.19915	SECI_Trader	NR/30092023/120820 46/L NR 2022 06
N/A	ASEJOPL_S_FTG2	HARYANA	HARYANA	-89.68500	89.68500	SECI_Trader	NR/30092023/120820 46/L NR 2022 18
N/A	ASEJOPL_W_FTG2	HARYANA	HARYANA	-30.50250	30.50250	SECI_Trader	NR/30092023/120820 46/L NR 2022 19
N/A	KWHFP	HARYANA	HARYANA	-221.05942	212.43740	PTC	NR/30092023/120920 46/LT-25
N/A	KWHIP	HARYANA	HARYANA	-128.21330	128.21330	PTC	NR/30092023/120920 46/LT-51
N/A	KWHFP	PUNJAB	PUNJAB	-221.05942	212.43740	PTC	NR/30092023/120920 46/LT-56

↑ Long term

Short term

KWHNP

Karshan



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Northern Regional Power Committee
Provisional REA for the Month of DECEMBER, 2023

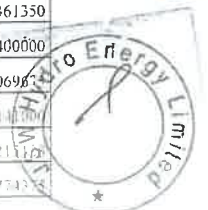
Table - K

Details of Scheduled Energy Exchange (LUs) Through Power Exchange

Power Exchange	To Entity	EX-NR Periphery	EX-NR State Periphery
GDAM IEX	DELHI	522.712275	502.220575
GDAM IEX	HARYANA	22.482600	21.610675
GDAM IEX	PUNJAB	40.124900	38.579625
GDAM IEX	RAILWAYS	17.808625	17.118600
GDAM IEX	RAJASTHAN	46.130125	44.344125
GDAM IEX	UTTAR PRADESH	53.768200	51.689675
GDAM IEX	ADANI SE JODHPUR 2 L	-53.616225	-53.616225
GDAM IEX	ADANI SE J2PL M	-97.324650	-97.324650
GDAM IEX	ALTRA XERGI	-83.450225	-83.450225
GDAM IEX	HARYANA	-12.156000	-12.156000
GDAM IEX	HIMACHAL PRADESH	-49.827100	-49.827100
GDAM IEX	J & K	-93.996250	-93.996250
GDAM IEX	RAJASTHAN	-30.009725	-30.009725
GDAM IEX	RENEW SURYA RAVI	-92.074000	-92.074000
GDAM IEX	SINGOLI BHATWARI	-55.179225	-55.179225
GDAM IEX	SORANG HEP	-22.149825	-22.149825
GDAM IEX	UTTAR PRADESH	-138.598450	-138.598450
HPX	DELHI	20.832800	20.007725
HPX	RAJASTHAN	-1.407500	-1.407500
HPX	SCL Beawar	-16.690000	-16.690000
IEX	CHANDIGARH	18.309050	17.622350
IEX	DELHI	506.022250	486.180500
IEX	HARYANA	977.504425	939.320000
IEX	HIMACHAL PRADESH	58.748275	56.427600
IEX	J & K	2110.173625	2028.714550
IEX	NEPAL	117.385900	112.792700
IEX	PUNJAB	3082.122625	2962.782700
IEX	RAILWAYS	266.203975	255.850650
IEX	RAJASTHAN	727.959225	699.575825
IEX	UTTAR PRADESH	2869.756925	2757.724575
IEX	UTTARAKHAND	1566.506250	1504.943075
IEX	ADANI SE JODHPUR 2 L	-40.488750	-40.488750
IEX	ADANI SE J2PL M	-53.025000	-53.025000
IEX	ADHPL	-159.814375	-159.814375
IEX	AEGSPL	-28.684750	-28.684750
IEX	BUDHIL HEP	-5.929000	-5.929000
IEX	CHANDIGARH	-131.480000	-131.480000
IEX	DADRI-II TPS	-1.731000	-1.731000
IEX	DELHI	-628.772625	-628.772625
IEX	HARYANA	-670.985075	-670.985075
IEX	HIMACHAL PRADESH	-740.714575	-740.714575
IEX	J & K	-29.495750	-29.495750
IEX	KARCHAM WANGTOO	-198.113000	-198.113000
IEX	NEPAL	-22.583500	-22.583500
IEX	PUNJAB	-9.588175	-9.588175
IEX	RAJASTHAN	-1077.097350	-1077.097350
IEX	RENEW SURYA RAVI	-235.211850	-235.211850
IEX	RIHAND-II STPS	-0.648000	-0.648000



IEX	RIHAND-III STPS	-6.552000	-6.552000
IEX	SAINJ HEP	-66.868750	-66.868750
IEX	SCL Beawar	-92.886000	-92.886000
IEX	SINGOLI BHATWARI	-28.608975	-28.608975
IEX	SINGRAULI STPS	-1.392000	-1.392000
IEX	SORANG HEP	-64.240000	-64.240000
IEX	TANDA-II STPS	-0.001750	-0.001800
IEX	UNCHAHAH-I TPS	-0.204250	-0.204250
IEX	UNCHAHAH-II TPS	-3.256000	-3.256000
IEX	UNCHAHAH-III TPS	-1.274000	-1.274000
IEX	UNCHAHAH-IV TPS	-5.069950	-5.069950
IEX	UTTAR PRADESH	-5821.181925	-5821.181925
IEX	UTTARAKHAND	-33.225000	-33.225000
PXI	DELHI	3.900000	3.754400
RTM IEX	CHANDIGARH	3.053425	2.936175
RTM IEX	DELHI	381.493550	366.586625
RTM IEX	HARYANA	214.515950	206.304475
RTM IEX	HIMACHAL PRADESH	263.535900	253.261775
RTM IEX	J & K	1261.636100	1211.930375
RTM IEX	NEPAL	2.750000	2.643300
RTM IEX	PUNJAB	2328.810125	2239.096875
RTM IEX	RAILWAYS	26.410150	25.371800
RTM IEX	RAJASTHAN	500.427050	481.165450
RTM IEX	SAINJ HEP	0.160850	0.154475
RTM IEX	UTTAR PRADESH	1699.779000	1633.885550
RTM IEX	UTTARAKHAND	190.392900	182.938925
RTM IEX	ADANI SEJ2PL M	-0.080000	-0.080000
RTM IEX	ADHPL	-0.978250	-0.978250
RTM IEX	AEGSPL	-24.582000	-24.582000
RTM IEX	ALTRA XERGI	-10.118250	-10.118250
RTM IEX	BUDHIL HEP	-0.684500	-0.684500
RTM IEX	DADRI TPS	-67.088475	-67.088475
RTM IEX	DADRI-II TPS	-25.581825	-25.581825
RTM IEX	DELHI	-415.399750	-415.399750
RTM IEX	HARYANA	-214.662900	-214.662900
RTM IEX	HIMACHAL PRADESH	-167.125925	-167.125925
RTM IEX	IGSTPS-JHAJJAR	-20.693950	-20.693950
RTM IEX	J & K	-190.430200	-190.430200
RTM IEX	KARACHAM WANGTOO	-0.697500	-0.697500
RTM IEX	PUNJAB	-56.337600	-56.337600
RTM IEX	RAJASTHAN	-2103.718450	-2103.718450
RTM IEX	RENEW SURYA RAVI	-8.074250	-8.074250
RTM IEX	RIHAND STPS	-167.448800	-167.448800
RTM IEX	RIHAND-II STPS	-121.055000	-121.055000
RTM IEX	RIHAND-III STPS	-145.500225	-145.500225
RTM IEX	SAINJ HEP	-1.026250	-1.026250
RTM IEX	SCL Beawar	-27.399300	-27.399300
RTM IEX	SINGOLI BHATWARI	-10.120000	-10.120000
RTM IEX	SINGRAULI STPS	-78.361350	-78.361350
RTM IEX	SORANG HEP	-3.400000	-3.400000
RTM IEX	TANDA-II STPS	-37.811750	-39.069875
RTM IEX	UNCHAHAH-I TPS	-0.141000	-0.141000
RTM IEX	UNCHAHAH-II TPS	-15.215125	-15.215125
RTM IEX	UNCHAHAH-III TPS	-2.774375	-2.774375



Northern Regional Power Committee
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Table - I
Details of Intra-Regional Scheduled Bilateral Exchanges (LUs)

From State/Station	From Utility	To State	To Utility	Ex-Seller	Ex-Purchaser	Applicant	OA Code
N/A	RSRPL_BKN	DELHI	NDMC	-0.56400	0.54370	SJVNL	NR/01012024/010120 24/SJVN010124NR13 31
N/A	RSRPL_BKN	DELHI	NDMC	-0.82350	0.79385	SJVNL	NR/01012024/010120 24/SJVN010124NR13 32
UTTAR PRADESH	UPPCL	RAJASTHAN	RAJASTHAN	-325.00000	313.30000	RUVNL	NR/01012024/050120 24/64
DELHI	BYPL	RAJASTHAN	RAJASTHAN	-387.50000	372.47960	GMRETL	NR/01012024/310120 24/52
DELHI	BYPL	UTTARAKHAND	UTTARAKHAND	-372.00000	357.59520	APPCPL	NR/01012024/310120 24/5412UPCL/CE(Co mm)/SE/Banking
N/A	SCLTPS	RAJASTHAN	RAJASTHAN	-150.63335	144.79225	PTC	NR/01012024/310120 24/58
HARYANA	HARYANA	UTTARAKHAND	UTTARAKHAND	-669.60000	643.65120	UTTARAKHAND	NR/01012024/310120 24/5892/UPCL/CE (Com)/Banking/SE
UTTAR PRADESH	PPGCL	RAJASTHAN	RAJASTHAN	-188.48828	181.16615	TPTCL	NR/01012024/310120 24/62
PUNJAB	PUNJAB	HIMACHAL PRADESH	HIP	-1797.31800	1727.62580	APPCPL	NR/01012024/310120 24/HIP-25
DELHI	BRPL	HIMACHAL PRADESH	HP	-962.46440	925.20170	MPL	NR/01012024/310120 24/HP-26
DELHI	BRPL	HIMACHAL PRADESH	HP	-147.68400	141.96160	APPCPL	NR/01012024/310120 24/HP-27
DELHI	BYPL	HIMACHAL PRADESH	HP	-63.21520	60.76480	APPCPL	NR/01012024/310120 24/HP-28
UTTAR PRADESH	MEJA	J & K	JK&LADAKH	-740.58482	711.86322	MEJA	NR/01012024/310120 24/JKSLDC/2023- 24/MEJA/01Jan2024
UTTAR PRADESH	UPPCL	J & K	JK&LADAKH	-877.63170	843.60622	UPPCL	NR/01012024/310120 24/JKSLDC/2024/Ban king/01Jan2024
HIMACHAL PRADESH	CHANJUJI	DELHI	TPDDL	-11.35880	10.91550	DELHI	NR/01012024/310320 24/ Chanjuji
N/A	ERCPL_FIG2	DELHI	BYPL	-96.68712	96.68712	SECL_Trader	NR/01102023/021220 45/L NR 2021 13
HIMACHAL PRADESH	THPPL_RALA	DELHI	TPDDL	-10.96350	10.53995	DELHI	NR/01102023/050120 40/L NR 2020 02
UTTAR PRADESH	MEJA	UTTARAKHAND	UTTARAKHAND	-288.66292	277.46568	UTTARAKHAND	NR/01102023/071220 35/ukmeja01
N/A	AP4IPL_BHDL	DELHI	BRPL	-160.07105	160.07105	SECL_Trader	NR/01102023/080320 47/L NR 2021 14
N/A	KV HEP	RAJASTHAN	RAJASTHAN	-96.60450	92.86370	PTC	NR/01102023/120920 46/05
N/A	ERCPL_FIG2	DELHI	BRPL	-483.45098	483.45098	ERCPL_FIG2	NR/01102023/130820 46/L NR 2021 12
UTTAR PRADESH	VISHNUPRAYAG HEP	UTTARAKHAND	UTTARAKHAND	-42.11760	40.48320	UTTARAKHAND	NR/01102023/160620 41/SH-01
N/A	SINGRAULI_SOL AR	HIMACHAL PRADESH	HP	-16.03962	16.03962	HP	NR/01102023/171220 37/HP-06
HARYANA	CLP_JHAJJAR	DELHI	TPDDL	-764.74662	733.09428		NR/01102023/190720 47/L NR 2021 14-15



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Table - I
Details of Intra-Regional Scheduled Bilateral Exchanges (LUs)

From State/Station	From Utility	To State	To Utility	Ex-Seller	Ex-Purchaser	Applicant	OA Code
PUNJAB	PUNJAB	HIMACHAL PRADESH	HP	-30.60365	29.43570	HP	NR/01102023/300920 33/HP-05
N/A	SAINJ	HIMACHAL PRADESH	HP	-42.40220	40.76130	HP	NR/01102023/300920 48/HP-01
UTTAR PRADESH	UPPCL	HIMACHAL PRADESH	HP	-24.31440	23.37840	HP	NR/01102023/300920 48/HP-02
RAJASTHAN	RAJ_SOLAR	UTTAR PRADESH	UPPCL	-61.82512	61.82512	NVVNL	NR/01102023/310320 41/LT-17
UTTAR PRADESH	ALAKNANDA	UTTARAKHAND	UTTARAKHAND	-42.59520	40.94400	UTTARAKHAND	NR/01102023/310320 50/LT-38
RAJASTHAN	RAJ_SOLAR	DELHI	TPDDL	-27.16170	27.16170	SECI Trader	NR/01102023/310520 40/LT-31
N/A	AvSEPL_BHDL2	J & K	JK&LADAKH	-36.51595	36.51595	NHPCL	NR/01102023/310720 42/JKPC/L/Avaada/MT OA/20
HIMACHAL PRADESH	NHPPL	DELHI	TPDDL	-7.83335	7.52955	DELHI	NR/01102023/311020 37/L NR 2019_11
N/A	KWHEP	UTTAR PRADESH	UPPCL	-185.77895	178.58555	PTC	NR/01102023/311220 38/LT-26
UTTAR PRADESH	UPPCL	RAJASTHAN	RAJASTHAN	-4340.00000	4171.74800	RUVNL	NR/01112023/290220 24/21
UTTAR PRADESH	MEJA	CHANDIGARH	CHANDIGARH	-66.25155	63.68575	MEJA	NR/01112023/310320 24/NR/01112023/3103 2023/LT Meja
N/A	RSRPL_BKN	DELHI	NDMC	-2.64475	2.54955	SJVNL	NR/02012024/040120 24/SJVN020124NR13 33
N/A	RSRPL_BKN	DELHI	NDMC	-3.07500	2.96430	SJVNL	NR/02012024/040120 24/SJVN020124NR13 34
UTTAR PRADESH	LAPL-UP	DELHI	BRPL	-2.40000	2.31360	PXIL	NR/04012024/040120 24/DD20240104NR22 076
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-15.86400	15.24210	IAHEPL	NR/04122023/170220 25/NR/2023/18095/C/
UTTAR PRADESH	LAPL-UP	DELHI	BRPL	-2.40000	2.31360	PXIL	NR/05012024/050120 24/DD20240105NR22 085
N/A	RSRPL_BKN	DELHI	NDMC	-23.22475	22.31155	SJVNL	NR/05012024/310120 24/SJVN050124NR13 41
N/A	RSRPL_BKN	DELHI	NDMC	-26.68375	25.63510	SJVNL	NR/05012024/310120 24/SJVN050124NR13 42
UTTAR PRADESH	LAPL-UP	DELHI	BRPL	-2.40000	2.31360	PXIL	NR/06012024/060120 24/DD20240106NR22 102
UTTAR PRADESH	UPPCL	RAJASTHAN	RAJASTHAN	-92.00000	88.68800	RUVNL	NR.06012024/070120 24/65
N/A	SCLTPS	DELHI	BRPL	-1.78000	1.71600	HPXL	NR/07012024/070120 24/HPX-TAMCTG- 060124-05670
N/A	SCLTPS	RAJASTHAN	RAJASTHAN	-43.92000	42.18030	HPXL	NR/08012024/310120 24/69
UTTAR PRADESH	PPGCL	RAJASTHAN	RAJASTHAN	-38.00700	37.08000	HPXL	NR/08012024/310120 24/70



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**Table - I
Details of Intra-Regional Scheduled Bilateral Exchanges (LUs)**

From State/Station	From Utility	To State	To Utility	Ex-Seller	Ex-Purchaser	Applicant	OA Code
N/A	KWHEP	HARYANA	HARYANA	-185.77895	178.58555	PTC	NR/30092023/120920 46/LT-25
N/A	KWHEP	HARYANA	HARYANA	-107.75160	103.57715	PTC	NR/30092023/120920 46/LT-54
N/A	KWHEP	PUNJAB	PUNJAB	-185.77895	178.58555	PTC	NR/30092023/120920 46/LT-56
N/A	AP43PL_BKN	HARYANA	HARYANA	-150.62250	150.62250	SECI_Trader	NR/30092023/190820 46/L NR 2021 11
DELHI	BAWANA_GAS	PUNJAB	PUNJAB	-212.65242	204.40332	PUNJAB	NR/30092023/261220 29/SH-06
UTTAR PRADESH	MEJA	PUNJAB	PUNJAB	-328.52690	315.78132	PUNJAB	NR/30092023/290420 44/LT_MEJA_PUNJA B
RAJASTHAN	RAJ_SOLAR	PUNJAB	PUNJAB	-27.04232	27.04232	NVVNL	NR/30092023/300320 41/LT-16
N/A	BUDHIL	UTTARAKHAND	UTTARAKHAND	-39.18600	37.67000	UTTARAKHAND	NR/30092023/300420 47/IN- UK11651230213628P
RAJASTHAN	RAJ_SOLAR	HARYANA	HARYANA	-104.18508	104.18508	SECI_Trader	NR/30092023/300620 40/LT-32
DELHI	BAWANA_GAS	HARYANA	HARYANA	-202.89112	195.01740	BAWANA_GAS	NR/30092023/311220 25/SH-07
PUNJAB	PUNJAB	UTTAR PRADESH	UPPCL	-4.00000	3.84800	PUNJAB	NR/31012024/310120 170-1295

↑
Long term

Short term

1CWNCP

1Carbam 2 Enma 170-1295



Northern Regional Power Committee
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Table - K

Details of Scheduled Energy Exchange (LUs) Through Power Exchange

Power Exchange	To Entity	EX-NR Periphery	EX-NR State Periphery
GDAM IEX	DELHI	291.249200	280.016050
GDAM IEX	HARYANA	49.372950	47.458950
GDAM IEX	PUNJAB	121.002875	116.325650
GDAM IEX	RAILWAYS	58.254550	55.992950
GDAM IEX	RAJASTHAN	45.017000	43.279250
GDAM IEX	UTTAR PRADESH	58.422000	56.158250
GDAM IEX	ADANI SE JODHPUR 2 L	-14.498750	-14.498750
GDAM IEX	ADANI SEJ2PL M	-16.102500	-16.102500
GDAM IEX	ALTRA XERGI	-393.505850	-393.505850
GDAM IEX	HARYANA	-13.803000	-13.803000
GDAM IEX	HIMACHAL PRADESH	-46.523125	-46.523125
GDAM IEX	J & K	-137.031650	-137.031650
GDAM IEX	RAJASTHAN	-27.219200	-27.219200
GDAM IEX	RENEW SURYA RAVI	-30.095950	-30.095950
GDAM IEX	RENEW SP	-11.367475	-11.367475
GDAM IEX	RSVPL	-4.167300	-4.167300
GDAM IEX	SINGOLI BHATWARI	-15.980225	-15.980225
GDAM IEX	SORANG HEP	-6.354875	-6.354875
GDAM IEX	UTTAR PRADESH	-54.539775	-54.539775
HPX	DELHI	91.140000	87.518700
HPX	RAJASTHAN	-24.450000	-24.450000
HPX	SCL Bewar	-66.690000	-66.690000
IEX	CHANDIGARH	205.751425	197.688300
IEX	DELHI	745.587175	716.354600
IEX	HARYANA	2705.409900	2600.347700
IEX	HIMACHAL PRADESH	224.505900	215.812600
IEX	J & K	3709.446125	3565.650100
IEX	NEPAL	301.365275	289.636100
IEX	PUNJAB	4884.130975	4696.485650
IEX	RAILWAYS	169.169475	162.657625
IEX	RAJASTHAN	2717.109500	2612.361900
IEX	UTTAR PRADESH	4703.067050	4520.212675
IEX	UTTARAKHAND	1971.561625	1894.360175
IEX	ADANI SE JODHPUR 2 L	-65.428750	-65.428750
IEX	ADANI SEJ2PL M	-63.500000	-63.500000
IEX	ADHPL	-127.487450	-127.487450
IEX	AEGSPL	-65.188975	-65.188975
IEX	BUDHIL HEP	-5.233000	-5.233000
IEX	CHANDIGARH	-27.000000	-27.000000
IEX	DADRI TPS	-24.620575	-24.620575
IEX	DADRI-II TPS	-2.101925	-2.101925
IEX	DELHI	-1286.337775	-1286.337775
IEX	HARYANA	-255.424675	-255.424675
IEX	HIMACHAL PRADESH	-528.975700	-528.975700
IEX	J & K	-51.742100	-51.742100
IEX	KARCHAM WANGTOO	-167.249500	-167.249500
IEX	PUNJAB	-4.000000	-4.000000
IEX	RAJASTHAN	-376.748300	-376.748300

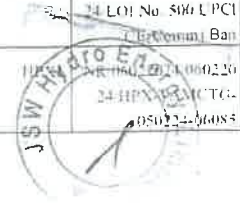


IEX	RENEW SURYA RAVI	-253.697600	-253.697600
IEX	RENEW SP	-58.602975	-58.602975
IEX	RIHAND-II STPS	-7.296000	-7.296000
IEX	RSVPL	-19.298500	-19.298500
IEX	SAINJ HEP	-54.889000	-54.889000
IEX	SCL Beawar	-215.927750	-215.927750
IEX	SINGOLI BHATWARI	-33.014750	-33.014750
IEX	SINGRAULI STPS	-30.121500	-30.121500
IEX	SORANG HEP	-62.608000	-62.608000
IEX	UNCHAHAAR-I TPS	-2.105250	-2.105250
IEX	UNCHAHAAR-II TPS	+1.113675	+1.113675
IEX	UNCHAHAAR-III TPS	-0.256000	-0.256000
IEX	UTTAR PRADESH	-2994.948350	-2994.948350
IEX	UTTARAKHAND	-9.357350	-9.357350
PXI	HARYANA	73.684200	70.832050
PXI	RAJASTHAN	12.061825	11.583400
PXI	UTTAR PRADESH	17.717625	17.031275
RTM HPX	DELHI	6.225000	5.997050
RTM HPX	UTTAR PRADESH	48.640000	46.752775
RTM IEX	CHANDIGARH	24.257575	23.315750
RTM IEX	DELHI	718.614850	690.909875
RTM IEX	HARYANA	781.786350	751.099050
RTM IEX	HIMACHAL PRADESH	538.939150	517.942475
RTM IEX	J & K	1243.509575	1195.285375
RTM IEX	NEPAL	6.385500	6.152125
RTM IEX	PUNJAB	5908.198800	5677.580600
RTM IEX	RAILWAYS	23.027900	22.138800
RTM IEX	RAJASTHAN	1859.165550	1787.792150
RTM IEX	UTTAR PRADESH	1545.162350	1485.381825
RTM IEX	UTTARAKHAND	396.478950	381.109050
RTM IEX	ADANI SE JODHPUR 2 L	-10.941250	-10.941250
RTM IEX	ADANI SEJ2PL M	-60.603750	-60.603750
RTM IEX	AEGSPL	-83.054250	-83.054250
RTM IEX	ALTRA XERGI	-36.908000	-36.908000
RTM IEX	AMPLUS AGES	-79.910000	-79.910000
RTM IEX	BUDHIL HEP	-0.205000	-0.205000
RTM IEX	CHANDIGARH	-2.400000	-2.400000
RTM IEX	DADRI TPS	-129.460400	-129.460400
RTM IEX	DADRI-II TPS	-19.675600	-19.675600
RTM IEX	DELHI	-582.479550	-582.479550
RTM IEX	GRIAN ENERGY	-92.267750	-92.267750
RTM IEX	HARYANA	-141.204650	-141.204650
RTM IEX	HIMACHAL PRADESH	-100.940650	-100.940650
RTM IEX	IGSTPS-JHAJJAR	-40.551450	-40.551450
RTM IEX	J & K	-115.473075	-115.473075
RTM IEX	KARCHAM WANGTOO	-2.880000	-2.880000
RTM IEX	ONEVOLT	-94.868750	-94.868750
RTM IEX	PUNJAB	-173.785075	-173.785075
RTM IEX	RAJASTHAN	-357.431900	-357.431900
RTM IEX	RENEW SURYA RAVI	-63.682400	-63.682400
RTM IEX	RENEW SP	-26.905850	-26.905850
RTM IEX	RIHAND STPS	-94.294450	-94.294450
RTM IEX	RIHAND-II STPS	-42.980600	-42.980600
RTM IEX	RIHAND-III STPS	-103.153650	-103.153650



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From State/Station	From Utility	To State	To Utility	Ex-Seller	Ex-Purchaser	Applicant	OA Code
HIMACHAL PRADESH	GBHHPL	DELHI	DIAPL	-117.88750	113.52708	DELHI	NR/01102023/270520 33/DIAPL(L_NR_202 3 04)
RAJASTHAN	RAJ_SOLAR	DELHI	BYPL	-30.96718	30.96718	SECI Trader	NR/01102023/300420 40/GNA LT 35
RAJASTHAN	RAJ_SOLAR	DELHI	BRPL	-31.74155	31.74155	SECI Trader	NR/01102023/300420 40/GNA LT 36
UTTARAKHAND	UTTARAKHAND	HIMACHAL PRADESH	HP	-139.26480	134.10720	HP	NR/01102023/300920 33/HP-03
PUNJAB	PUNJAB	HIMACHAL PRADESH	HP	-14.82448	14.28550	HP	NR/01102023/300920 33/HP-05
N/A	SAINJ	HIMACHAL PRADESH	HP	-37.12890	35.75350	HP	NR/01102023/300920 48/HP-01
UTTAR PRADESH	UPPCL	HIMACHAL PRADESH	HP	-39.70090	38.23112	HP	NR/01102023/300920 48/HP-02
RAJASTHAN	RAJ_SOLAR	UTTAR PRADESH	UPPCL	-73.42252	73.42252	NVVNL	NR/01102023/310320 41/LT-17
UTTAR PRADESH	ALAKNANDA	UTTARAKHAND	UTTARAKHAND	-37.42800	36.03840	UTTARAKHAND	NR/01102023/310320 50/LT-38
RAJASTHAN	RAJ_SOLAR	DELHI	TPDDL	-30.96718	30.96718	SECI Trader	NR/01102023/310520 40/LT-31
N/A	AvSEPL_BHDL2	J & K	JK&LADAKH	-39.40638	39.40638	NHPCL	NR/01102023/310720 42/JKPC/L/Avvaada/MT OA/20
HIMACHAL PRADESH	NHPPL	DELHI	TPDDL	-6.91560	6.64305	DELHI	NR/01102023/311020 37/L NR 2019 11
N/A	KWHEP	UTTAR PRADESH	UPPCL	-168.28820	162.06092	PTC	NR/01102023/311220 38/LT-26
UTTAR PRADESH	UPPCL	RAJASTHAN	RAJASTHAN	-4040.00000	3890.45400	RUVNL	NR/01112023/290220 24/21
UTTAR PRADESH	MEJA	CHANDIGARH	CHANDIGARH	-65.66505	63.22162	MEJA	NR/01112023/310320 24/NR/01112023/3103 2023/LT Meja
UTTAR PRADESH	LAPL-UP	DELHI	TPDDL	-1.80000	1.73160	PXIL	NR/02022024/020220 24/DD20240202NR22 545
N/A	SINGOLI	DELHI	BYPL	-1.49000	1.43350	HPXL	NR/02022024/020220 24/HPX-TAMCTG- 010224-06018
N/A	SINGOLI	DELHI	BRPL	-1.41500	1.36130	HPXL	NR/03022024/030220 24/HPX-TAMCTG- 020224-06046
N/A	SCLTPS	DELHI	BRPL	-9.80000	9.42760	HPXL	NR/04022024/040220 24/HPX-TAMCTG- 030224-06057
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-19.45400	18.74070	IAHEPL	NR/04122023/170220 25/NR/2023/18095/C/
N/A	SCLTPS	DELHI	BRPL	-3.55000	3.41700	HPXL	NR/05022024/050220 24/HPX-TAMCTG- 040224-06068
UTTAR PRADESH	UPPCL	UTTARAKHAND	UTTARAKHAND	-384.00000	369.66480	UTTARAKHAND	NR.05022024.200220 24 LOI No. 500 L PCI 18/Comm/Ban
N/A	SCLTPS	DELHI	BRPL	-3.53000	3.41700	HPXL	NR/05022024/050220 24/HPX-TAMCTG- 050224-06085



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From State/Station	From Utility	To State	To Utility	Ex-Seller	Ex-Purchaser	Applicant	OA Code
UTTAR PRADESH	BCMLB001	DELHI	NDMC	-0.34400	0.33200	SJVNL	NR/2024/18693/C
N/A	CHAMERA I	HIMACHAL PRADESH	HIP-GOVT	-0.29118	0.28085	TPTCL	NR/2024/18698/C
UTTAR PRADESH	BCMLB001	DELHI	NDMC	-0.34400	0.33200	SJVNL	NR/2024/18700/C
UTTAR PRADESH	BCMLUH	DELHI	NDMC	-0.28000	0.27040	SJVNL	NR/2024/18701/C
UTTAR PRADESH	UPPCL	UTTARAKHAND	UTTARAKHAND	-108.00000	104.11680	UTTARAKHAND	NR/21022024/290220 24/LOI No. 500 UPCI CE(Comm) Ban
N/A	ASEJ2PL_BKN	DELHI	TPDDL	-184.48500	184.48500	SECI_Trader	NR/22102023/110420 47/L NR 2021 16
N/A	ASEJ2PL_BKN	DELHI	BYPL	-92.17500	92.17500	SECI_Trader	NR/22102023/110420 47/L NR 2021 17
PUNJAB	PUNJAB	HIMACHAL PRADESH	HP	-37.89240	36.53040	APPCPL	NR/23022024/290220 24/HP-34
HIMACHAL PRADESH	NWHP_SJVNL	UTTARAKHAND	UTTARAKHAND	-8.64842	8.32462	SJVNL	NR/24112023/301120 53/21-11-2005
N/A	TSIPL_BKN	DELHI	BYPL	-164.45250	164.45250	SECI_Trader	NR/26072023/251220 43/L NR 2023 10
N/A	TSIPL_BKN	DELHI	BRPL	-385.99250	385.99250	SECI_Trader	NR/26072023/310720 42/L NR 2023 07
N/A	MSUPL_BHDL2	HARYANA	HARYANA	-427.55092	427.55092	SECI_Trader	NR/30092023/010220 47/L NR 2022 07
N/A	AvRJHNPL_BKN	HARYANA	HARYANA	-442.80135	442.80135	AvRJHNPL_BKN	NR/30092023/010320 47/L NR 2023 09
N/A	AHEJ2L_S_FTG2	PUNJAB	PUNJAB	-633.45000	633.45000	SECI_Trader	NR/30092023/091120 46/L NR 2022 14
N/A	AHEJ2L_W_FTG2	PUNJAB	PUNJAB	-175.65250	175.65250	SECI_Trader	NR/30092023/091120 46/L NR 2022 15
N/A	AHEJ3L_S_FTG2	PUNJAB	PUNJAB	-415.27730	415.27730	SECI_Trader	NR/30092023/091120 46/L NR 2022 16
N/A	AHEJ3L_W_FTG2	PUNJAB	PUNJAB	-136.71880	136.71880	SECI_Trader	NR/30092023/091120 46/L NR 2022 17
N/A	AvSEPL_BHDL2	PUNJAB	PUNJAB	-591.08990	591.08990	NHPCL	NR/30092023/091220 47/M NR 2023 01
RAJASTHAN	RAJ_SOLAR	PUNJAB	PUNJAB	-42.72152	42.72152	SECI_Trader	NR/30092023/110520 41/LT-42
N/A	AHEJOL_S_FTG2	HARYANA	HARYANA	-361.06165	361.06165	SECI_Trader	NR/30092023/120820 46/L NR 2022 03
N/A	AHEJOL_W_FTG2	HARYANA	HARYANA	-118.92838	118.92838	SECI_Trader	NR/30092023/120820 46/L NR 2022 04
N/A	AHEJOL_S_FTG2	HARYANA	HARYANA	-361.04908	361.04908	SECI_Trader	NR/30092023/120820 46/L NR 2022 05
N/A	AHEJOL_W_FTG2	HARYANA	HARYANA	-119.40352	119.40352	SECI_Trader	NR/30092023/120820 46/L NR 2022 06
N/A	ASEJOPL_S_FTG2	HARYANA	HARYANA	-91.08750	91.08750	SECI_Trader	NR/30092023/120820 46/L NR 2022 18
N/A	ASEJOPL_W_FTG2	HARYANA	HARYANA	-30.05750	30.05750	SECI_Trader	NR/30092023/120820 46/L NR 2022 19
N/A	KWHHP	HARYANA	HARYANA	-168.28820	162.06092	PTC	NR/30092023/120920 46/LT-25
N/A	KWHHP	HARYANA	HARYANA	-93.00592	93.99262	PTC	NR/30092023/120920 46/LT-24
N/A	KWHHP	PUNJAB	PUNJAB	-168.28820	162.06092	PTC	NR/30092023/120920 46/LT-25



N/A	KWHEP	RAJASTHAN	RAJASTHAN	-87.25365	84.02848	PTC	NR/01102023/120920 46/05
N/A	ERCPL_FTG2	DELHI	BRPL	-486.93070	486.93070	SECI_Trader	NR/01102023/130820 46/L_NR 2021 12
UTTAR PRADESH	VISHNUPRAYAG_HEP	UTTARAKHAND	UTTARAKHAND	-40.30560	38.80800	UTTARAKHAND	NR/01102023/160620 41/SH-01
N/A	SINGRAULI_SOLAR	HIMACHAL PRADESH	HP	-16.83475	16.83475	HP	NR/01102023/171220 37/HP-06
HARYANA	CLP_JHAJJAR	DELHI	TPDDL	-471.50460	453.96792	TPTCL	NR/01102023/190720 37/LT-05
RAJASTHAN	RAJ_SOLAR	HIMACHAL PRADESH	HP	-31.74155	31.74155	SECI_Trader	NR/01102023/200320 40/HP-04
N/A	AURAIYA_SOLAR	UTTAR PRADESH	UPPCL	-24.91415	24.91415	AURAIYA_SOLAR	NR/01102023/201220 43/L NR 2020 10
UTTAR PRADESH	MEJA	RAJASTHAN	RAJASTHAN	-386.96162	372.63680	RUVNL	NR/01102023/210420 44/01
HIMACHAL PRADESH	SHEPL_HP	DELHI	TPDDL	-3.90440	3.74745	DELHI	NR/01102023/220520 37/LT-59
N/A	ASE4PL	DELHI	BYPL	-92.10978	92.10978	SECI_Trader	NR/01102023/250720 45/L NR 2021 15
N/A	AURAIYA_SOLAR	UTTAR PRADESH	UPPCL	-24.91415	24.91415	AURAIYA_SOLAR	NR/01102023/260220 45/L NR 2022 13
N/A	RENEW_Bhadla	UTTAR PRADESH	UPPCL	-93.94942	93.94942	SECI_Trader	NR/01102023/270320 43/L NR 2019 13
N/A	APIPL	UTTAR PRADESH	UPPCL	-316.95750	316.95750	SECI_Trader	NR/01102023/270320 43/L NR 2019 14
N/A	SBEFPL_Bhadla	UTTAR PRADESH	UPPCL	-361.04778	361.04778	SECI_Trader	NR/01102023/270320 43/L NR 2019 15
N/A	CSP_Bhadla	UTTAR PRADESH	UPPCL	-196.15400	196.15400	SECI_Trader	NR/01102023/270320 43/L NR 2019 22
N/A	CSP_Bhadla	UTTAR PRADESH	UPPCL	-196.15378	196.15378	SECI_Trader	NR/01102023/270320 43/L NR 2020 01
N/A	CSP_Bhadla	UTTAR PRADESH	UPPCL	-196.15378	196.15378	SECI_Trader	NR/01102023/270320 43/L NR 2020 03

↑
Long term

Short term :
Karnam 2 ex hira 152.9175



IEX	HIMACHAL PRADESH	-440.808625	-440.808625
IEX	IGSTPS-JHAJJAR	-0.217000	-0.217000
IEX	J & K	-28.665125	-28.665125
IEX	KARCHAM WANGTOO	-149.326250	-149.326250
IEX	ONEVOLT	-116.532000	-116.532000
IEX	RAJASTHAN	-2970.269275	-2970.269275
IEX	RENEW SURYA RAVI	-341.450975	-341.450975
IEX	RENEW SP	-171.124000	-171.124000
IEX	RENEW SURYA AYAAN	-112.697250	-112.697250
IEX	RSVPL	-89.456000	-89.456000
IEX	SAINJ HEP	-47.630000	-47.630000
IEX	SCL Beawar	-234.508000	-234.508000
IEX	SINGOLI BHATWARI	-21.078000	-21.078000
IEX	SORANG HEP	-41.380000	-41.380000
IEX	UNCHAHAAR-I TPS	-0.121750	-0.121750
IEX	UNCHAHAAR-II TPS	-0.481750	-0.481750
IEX	UNCHAHAAR-III TPS	-0.064750	-0.064750
IEX	UNCHAHAAR-IV TPS	-0.483000	-0.483000
IEX	UTTAR PRADESH	-7400.567500	-7400.567500
IEX	UTTARAKHAND	-11.590250	-11.590250
PXI	HARYANA	11.245250	10.823050
PXI	RAJASTHAN	0.821175	0.790025
PXI	UTTAR PRADESH	1.372500	1.320325
PXI	DELHI	-0.350000	-0.350000
PXI	UTTAR PRADESH	-3.057500	-3.057500
RTM IEX	CHANDIGARH	7.842300	7.547225
RTM IEX	DELHI	334.220700	321.811075
RTM IEX	HARYANA	1036.507600	997.866900
RTM IEX	HIMACHAL PRADESH	306.977100	295.642425
RTM IEX	J & K	1163.977900	1120.620200
RTM IEX	NEPAL	4.773600	4.593475
RTM IEX	PUNJAB	5417.544650	5217.618750
RTM IEX	RAILWAYS	21.895825	21.082775
RTM IEX	RAJASTHAN	320.456225	308.535750
RTM IEX	UTTAR PRADESH	1745.513075	1681.051200
RTM IEX	UTTARAKHAND	216.402875	208.337825
RTM IEX	ADANI SE JODHPUR 2 L	-8.428750	-8.428750
RTM IEX	ADANI SEJ2PL M	-35.570000	-35.570000
RTM IEX	ADEPT RENEWABLE	-71.117500	-71.117500
RTM IEX	ADHPL	-1.780000	-1.780000
RTM IEX	AEGSPL	-52.625750	-52.625750
RTM IEX	AMPLUS AGES	-58.605750	-58.605750
RTM IEX	ASERJ2PL	-7.569750	-7.569750
RTM IEX	BUDHIL HEP	-0.058000	-0.058000
RTM IEX	CHANDIGARH	-2.837500	-2.837500
RTM IEX	DADRI TPS	-39.055400	-39.055400
RTM IEX	DADRI-II TPS	-14.306200	-14.306200
RTM IEX	DELHI	-812.232200	-812.232200
RTM IEX	GRIAN ENERGY	-37.670500	-37.670500
RTM IEX	HARYANA	-148.882225	-148.882225
RTM IEX	HIMACHAL PRADESH	-99.746500	-99.746500
RTM IEX	IGSTPS-JHAJJAR	-14.111150	-14.111150
RTM IEX	I & K	-247.608675	-247.608675
RTM IEX	KARCHAM WANGTOO	-2.692500	-2.692500



**Northern Regional Power Committee
Provisional REA for the Month of MARCH, 2024**

**Table - I
Details of Intra-Regional Scheduled Bilateral Exchanges (LUs)**

From State/Station	From Utility	To State	To Utility	Ex-Seller	Ex-Purchaser	Applicant	OA Code
HIMACHAL PRADESH	CHANJUII	DELHI	TPDDL	-32.21030	31.07455	DELHI	NR/01012024/310320 24/ChanjuII
PUNJAB	PUNJAB	HIMACHAL PRADESH	HP	-332.57100	320.28000	APPCPL	NR/01032024/150320 24/HP-47
PUNJAB	PUNJAB	HIMACHAL PRADESH	IIP	-139.89600	134.72400	APPCPL	NR/01032024/150320 24/HP-51
DELHI	BRPL	HIMACHAL PRADESH	HP	-122.41200	117.88960	MPL	NR/01032024/150320 24/HP-62
DELHI	BRPL	HIMACHAL PRADESH	HP	-139.90240	134.81120	APPCPL	NR/01032024/220320 24/HP-56
DELHI	BYPL	HIMACHAL PRADESH	HP	-59.89280	57.71440	APPCPL	NR/01032024/220320 24/HP-59
UTTAR PRADESH	MEJA	HIMACHAL PRADESH	HP	-46.62960	44.97840	HP	NR/01032024/310320 24/HP-52
UTTAR PRADESH	MEJA	J & K	JK&LADAKH	-714.31440	688.93440	MEJA	NR/01032024/310320 24/JKSLDC/2023- 24/MEJA/01Mar2-31
N/A	RSRPL_BKN	DELHI	NDMC	-26.78125	25.82718	SJVNL	NR/01032024/310320 24/SJVNO10324NR15 88
N/A	RSRPL_BKN	DELHI	NDMC	-32.13775	30.99048	SJVNL	NR/01032024/310320 24/SJVNO10324NR15 89
N/A	ERCPL_FTG2	DELHI	BYPL	-118.39252	118.39252	SECL_Trader	NR/01102023/021220 45/L NR 2021 13
HIMACHAL PRADESH	THPPL_RALA	DELHI	TPDDL	-11.44990	11.05075	DELHI	NR/01102023/050120 40/L NR 2020 02
UTTAR PRADESH	MEJA	UTTARAKHAND	UTTARAKHAND	-291.64800	281.28960	UTTARAKHAND	NR/01102023/071220 35/ukmeja01
N/A	AP41PL_BHDL	DELHI	BRPL	-218.42920	218.42920	SECL_Trader	NR/01102023/080320 47/L NR 2021 14
N/A	KWIEP	RAJASTHAN	RAJASTHAN	-113.58862	109.57180	PTC	NR/01102023/120920 46/05
N/A	ERCPL_FTG2	DELHI	BRPL	-591.96842	591.96842	SECL_Trader	NR/01102023/130820 46/L NR 2021 12
UTTAR PRADESH	VISHNUPRAYAG_HEP	UTTARAKHAND	UTTARAKHAND	-51.95040	50.11200	UTTARAKHAND	NR/01102023/160620 41/SH-01
N/A	SINGRAULI_SOLAR	HIMACHAL PRADESH	HP	-21.33195	21.33195	HP	NR/01102023/171220 37/HP-06
HARYANA	CLP_JHAJAR	DELHI	TPDDL	-304.87952	294.07198	TPCTL	NR/01102023/190720 37/LT-05
RAJASTHAN	RAJ_SOLAR	HIMACHAL PRADESH	IIP	-38.56635	38.56635	SECL_Trader	NR/01102023/200320 40/HP-04
N/A	AURAIYA_SOLAR	UTTAR PRADESH	UPPCL	-33.68395	33.68395	AURAIYA_SOLAR	NR/01102023/201220 43/L NR 2020 10
UTTAR PRADESH	MEJA	RAJASTHAN	RAJASTHAN	-426.97770	411.80730	RUVNL	NR/01102023/210420 44/01
HIMACHAL PRADESH	SHEPL_HP	DELHI	TPDDL	-12.26510	11.83822	DELHI	NR/01102023/220520 37.LT-59
N/A	ASE4PL	DELHI	BYPL	-109.17185	109.17185	SECL_Trader	NR/01102023/250720 45/L NR 2021 15
N/A	AURAIYA_SOLAR	UTTAR PRADESH	UPPCL	-33.68395	33.68395	AURAIYA_SOLAR	NR/01102023/260220 45/L NR 2022 11
N/A	RENEW_Bhadda	UTTAR PRADESH	UPPCL	-109.83498	109.83498	SECL_Trader	NR/01102023/270320 47/L NR 2019 13



**Northern Regional Power Committee
Provisional REA for the Month of MARCH, 2024**

**Table - I
Details of Intra-Regional Scheduled Bilateral Exchanges (LUs)**

From State/Station	From Utility	To State	To Utility	Ex-Seller	Ex-Purchaser	Applicant	OA Code
RAJASTHAN	RAJ_SOLAR	DELHI	TPDDL	-37,62428	37,62428	SECI_Trade	NR/01102023/310520 40/LT-31
N/A	AvSEPL_BHDL2	J & K	IK&LADAKH	-46,13010	46,13010	NHPCL	NR/01102023/310720 42/JKPC/L/Avvaada/MT OA/20
HIMACHAL PRADESH	NHPPL	DELHI	TPDDL	-12,16180	11,73570	DELHI	NR/01102023/311020 37/L NR 2019 11
N/A	KWHEP	UTTAR PRADESH	UPPCL	-218,43852	210,71372	PTC	NR/01102023/311220 38/LT-26
UTTAR PRADESH	MEJA	CHANDIGARH	CHANDIGARH	-68,98895	66,54630	MEJA	NR/01112023/310320 24/NR/01112023/3103 2023/LT Meja
HIMACHAL PRADESH	IAHEPL	HARYANA	HARYANA	-85,00825	82,03132	IAHEPL	NR/04122023/170220 25/NR/2023/18095/C/
N/A	SINGOLI	UTTARAKHAND	UTTARAKHAND	-32,69750	21,89795	UTTARAKHAND	NR/09102023/301120 55/Singoli- Uttarakhand
J & K	BAGHLIAR	HARYANA	HARYANA	-492,94000	475,60070	JKSPDCL	NR/10112023/310320 31/NR/2023/17952/C
PUNJAB	PUNJAB	HIMACHAL PRADESH	HP	-123,91470	119,53890	APPCPL	NR/16032024/220320 24/HP-48
PUNJAB	PUNJAB	HIMACHAL PRADESH	HP	-46,24340	44,60970	APPCPL	NR/16032024/220320 24/HP-53
DELHI	BRPL	HIMACHAL PRADESH	HP	-45,70160	44,08560	MPL	NR/16032024/220320 24/HP-63
PUNJAB	PUNJAB	HIMACHAL PRADESH	HP	-2,72020	2,61835	APPCPL	NR/2024/18668/A/664 9
PUNJAB	PUNJAB	HIMACHAL PRADESH	HP	-2,72020	2,61835	APPCPL	NR/2024/18668/A/679 2
PUNJAB	PUNJAB	HIMACHAL PRADESH	HP	-2,72020	2,62640	APPCPL	NR/2024/18668/A/689 3
PUNJAB	PUNJAB	HIMACHAL PRADESH	HP	-2,72020	2,62640	APPCPL	NR/2024/18668/A/697 1
PUNJAB	PUNJAB	HIMACHAL PRADESH	HP	-2,72020	2,62640	APPCPL	NR/2024/18668/A/706 3
PUNJAB	PUNJAB	HIMACHAL PRADESH	HP	-2,72020	2,62640	APPCPL	NR/2024/18668/A/715 6
PUNJAB	PUNJAB	HIMACHAL PRADESH	HP	-2,72020	2,62640	APPCPL	NR/2024/18668/A/724 5
PUNJAB	PUNJAB	HIMACHAL PRADESH	HP	-5,45685	5,26855	APPCPL	NR/2024/18668/A/733 6
PUNJAB	PUNJAB	HIMACHAL PRADESH	HP	-5,45685	5,26855	APPCPL	NR/2024/18668/A/742 7
PUNJAB	PUNJAB	HIMACHAL PRADESH	HP	-5,45685	5,27660	APPCPL	NR/2024/18668/A.749 8
PUNJAB	PUNJAB	HIMACHAL PRADESH	HP	-5,45685	5,27660	APPCPL	NR/2024/18668/A.760 1
PUNJAB	PUNJAB	HIMACHAL PRADESH	HP	-5,45685	5,27660	APPCPL	NR/2024/18668 A.769 4
PUNJAB	PUNJAB	HIMACHAL PRADESH	HP	-5,45685	5,27660	APPCPL	NR/2024/18668/A.779 2
PUNJAB	PUNJAB	HIMACHAL PRADESH	HP	-5,45685	5,27660	APPCPL	NR/2024/18668/A.787 2
PUNJAB	PUNJAB	HIMACHAL PRADESH	HP	-5,45685	5,27660	APPCPL	NR/2024/18668/A.794 1



RAJASTHAN	RAJ_SOLAR	PUNJAB	PUNJAB	-53.52032	53.52032	SECI_Trader	NR/30092023/110520 41/LT-42
HIMACHAL PRADESH	MALANA2-HP	PUNJAB	PUNJAB	-66.93852	64.60538	PTC	NR/30092023/120720 52/L NR 2019 20
N/A	AHEJOL_S_FTG2	HARYANA	HARYANA	-443.10822	443.10822	SECI_Trader	NR/30092023/120820 46/L NR 2022 03
N/A	AHEJOL_W_FTG2	HARYANA	HARYANA	-128.65892	128.65892	SECI_Trader	NR/30092023/120820 46/L NR 2022 04
N/A	AHEJOL_S_FTG2	HARYANA	HARYANA	-443.09500	443.09500	SECI_Trader	NR/30092023/120820 46/L NR 2022 05
N/A	AHEJOL_W_FTG2	HARYANA	HARYANA	-129.16735	129.16735	SECI_Trader	NR/30092023/120820 46/L NR 2022 06
N/A	ASEJOPL_S_FTG2	HARYANA	HARYANA	-109.47750	109.47750	SECI_Trader	NR/30092023/120820 46/L NR 2022 18
N/A	ASEJOPL_W_FTG 2	HARYANA	HARYANA	-32.75750	32.75750	SECI_Trader	NR/30092023/120820 46/L NR 2022 19
N/A	KWHEP	HARYANA	HARYANA	-218.36852	210.64638	PTC	NR/30092023/120920 46/LT-25
N/A	KWHEP	HARYANA	HARYANA	-126.65102	122.17305	PTC	NR/30092023/120920 46/LT-54
N/A	KWHEP	PUNJAB	PUNJAB	-218.36852	210.64638	PTC	NR/30092023/120920 46/LT-56
N/A	AP43PL_BKN	HARYANA	HARYANA	-221.04250	221.04250	SECI_Trader	NR/30092023/190820 46/L NR 2021 11
DELHI	BAWANA_GAS	PUNJAB	PUNJAB	-197.91532	190.87890	PUNJAB	NR/30092023/261220 29/SH-06

↑
Long term :

Short term :

1cwnep

1cwnbar

2 cwnbar

197.22825



IEX	DADRI TPS	-10.836525	-10.836525
IEX	DADRI-II TPS	-19.397225	-19.397225
IEX	DELHI	-1199.342600	-1199.342600
IEX	GRIAN ENERGY	-95.650625	-95.650625
IEX	HARYANA	-1096.252825	-1096.252825
IEX	HIMACHAL PRADESH	-747.721650	-747.721650
IEX	IGSTPS-JHAJJAR	-4.405900	-4.405900
IEX	J & K	-7.811950	-7.811950
IEX	KARCHAM WANGTOO	-187.512500	-187.512500
IEX	ONEVOLT	-211.103750	-211.103750
IEX	PUNJAB	-19.566825	-19.566825
IEX	RAJASTHAN	-1460.271525	-1460.271525
IEX	RENEW SURYA RAVI	-453.477700	-453.477700
IEX	RENEW SURYA ROSHNI	-463.986000	-463.986000
IEX	RENEW SP	-300.552550	-300.552550
IEX	RENEW SURYA AYAAN	-456.262800	-456.262800
IEX	RIHAND STPS	-5.520000	-5.520000
IEX	RIHAND-II STPS	-3.360000	-3.360000
IEX	RSVPL	-166.425225	-166.425225
IEX	SAINJ HEP	-63.432750	-63.432750
IEX	SCL Beawar	-63.804000	-63.804000
IEX	SINGOLI BHATWARI	-45.325250	-45.325250
IEX	SINGRAULI STPS	-11.136000	-11.136000
IEX	SORANG HEP	-40.385000	-40.385000
IEX	TANDA-II STPS	-1.021750	-1.056600
IEX	TPSL BKN2	-6.077975	-6.077975
IEX	TRANSITION CLEAN	-16.997250	-16.997250
IEX	UNCHAAR-I TPS	-25.407475	-25.407475
IEX	UNCHAAR-II TPS	-15.631625	-15.631625
IEX	UNCHAAR-III TPS	-31.413400	-31.413400
IEX	UNCHAAR-IV TPS	-43.691175	-43.691175
IEX	UTTAR PRADESH	-6666.784000	-6666.784000
IEX	UTTARAKHAND	-20.347775	-20.347775
PXI	UTTAR PRADESH	-0.437500	-0.437500
RTM HPX	UTTAR PRADESH	1.062500	1.027500
RTM IEX	CHANDIGARH	1.575000	1.516875
RTM IEX	DELHI	496.784925	479.128125
RTM IEX	HARYANA	269.176050	259.376675
RTM IEX	HIMACHAL PRADESH	149.426225	144.070950
RTM IEX	J & K	904.115825	871.295625
RTM IEX	NEPAL	0.895000	0.865450
RTM IEX	PUNJAB	4973.697900	4795.549825
RTM IEX	RAILWAYS	25.077175	24.191575
RTM IEX	RAJASTHAN	2144.141725	2067.592350
RTM IEX	RENEW SURYA RAVI	16.798750	16.219075
RTM IEX	SAINJ HEP	0.418500	0.404700
RTM IEX	UTTAR PRADESH	1931.017925	1862.711300
RTM IEX	UTTARAKHAND	321.699125	310.356300
RTM IEX	ADANI SE JODHPUR 2 L	-6.660250	-6.660250
RTM IEX	ADANI SEJ2PL M	-10.701500	-10.701500
RTM IEX	ADEPT RENEWABLE	-9.598250	-9.598250
RTM IEX	ADHPL	-2.293000	-2.293000
RTM IEX	AEGSPL	-27.030500	-27.030500
RTM IEX	AMPLUS AGES	-32.496000	-32.496000



RTM IEX	ASERJ2PL	-3,254250	-3.254250
RTM IEX	ASERJ2PL BHDL	-1.365000	-1.365000
RTM IEX	ASERJ2PL_INFRM	-13.525750	-13.525750
RTM IEX	BUDHIL HEP	-2.032250	-2.032250
RTM IEX	CHANDIGARH	-7.334450	-7.334450
RTM IEX	DADRI TPS	-11.705825	-11.705825
RTM IEX	DADRI-II TPS	-27.378300	-27.378300
RTM IEX	DELHI	-510.613925	-510.613925
RTM IEX	GRIAN ENERGY	-23.558250	-23.558250
RTM IEX	HARYANA	-364.712525	-364.712525
RTM IEX	HIMACHAL PRADESH	-408.604000	-408.604000
RTM IEX	IGSTPS-JHAJJAR	-42.983900	-42.983900
RTM IEX	J & K	-483.846250	-483.846250
RTM IEX	KARCHAM WANGTOO	-9.715750	-9.715750
RTM IEX	ONEVOLT	-36.009750	-36.009750
RTM IEX	PUNJAB	-97.547575	-97.547575
RTM IEX	RAJASTHAN	-1107.225600	-1107.225600
RTM IEX	RENEW SURYA RAVI	-71.486500	-71.486500
RTM IEX	RENEW SURYA ROSHNI	-48.820000	-48.820000
RTM IEX	RENEW SP	-45.692750	-45.692750
RTM IEX	RENEW SURYA AYAAN	-55.330000	-55.330000
RTM IEX	RIHAND STPS	-87.713625	-87.713625
RTM IEX	RIHAND-II STPS	-61.477325	-61.477325
RTM IEX	RIHAND-III STPS	-39.377575	-39.377575
RTM IEX	RSPPL FTG3 INF	-3.375000	-3.375000
RTM IEX	RSVPL	-16.340500	-16.340500
RTM IEX	SAINJ HEP	-9.449500	-9.449500
RTM IEX	SCL Beawar	-3.875500	-3.875500
RTM IEX	SINGOLI BHATWARI	-26.158500	-26.158500
RTM IEX	SINGRAULI STPS	-69.696850	-69.696850
RTM IEX	SORANG HEP	-9.187500	-9.187500
RTM IEX	TANDA-II STPS	-114.475750	-114.475750
RTM IEX	TPSL BKNZ	-14.798750	-14.798750
RTM IEX	TRANSITION CLEAN	-46.524250	-46.524250
RTM IEX	UNCHAJIAR-I TPS	-14.925775	-14.925775
RTM IEX	UNCHAHAR-II TPS	-26.863350	-26.863350
RTM IEX	UNCHAHAR-III TPS	-10.070175	-10.070175
RTM IEX	UNCHAHAR-IV TPS	-31.048750	-31.048750
RTM IEX	UTTAR PRADESH	-2258.660450	-2258.660450
RTM IEX	UTTARAKHAND	-221.757175	-221.757175
RTM PXI	UTTAR PRADESH	1.000000	0.967000



Summary of monthwise DSA/ UI during 2023-24

Qty in Lakh units

Month	KWHEP			GoHP			
	Scheduled Injection	Actual Injection	UI_Units	Actual Entitlement	Scheduled Injection - IEX	Scheduled injection- Bilateral	UI_Units
Apr-23	1,216.19	1,234.13	-17.94	148.10	147.28	-	0.82
May-23	2,054.35	2,089.68	-35.33	250.76	249.67	-	1.10
Jun-23	5,382.96	5,403.64	-20.68	649.65	278.14	380.50	-8.99
Jul-23	7,579.14	7,484.88	94.26	901.30	855.43	62.27	-16.41
Aug-23	8,246.93	8,238.04	8.89	991.38	895.78	103.38	-7.78
Sep-23	5,381.00	5,445.37	-64.37	660.34	662.92	-	-2.58
Oct-23	2,201.87	2,247.40	-45.54	404.53	399.20	-	5.33
Nov-23	1,439.20	1,461.41	-22.21	263.05	259.66	-	3.39
Dec-23	1,105.15	1,120.85	-15.70	201.75	198.81	-	2.94
Jan-24	931.82	944.82	-13.00	170.07	170.13	-	-0.06
Feb-24	841.74	848.96	-7.22	152.81	152.02	-	0.80
Mar-24	1,092.64	1,098.83	-6.19	197.79	196.60	-	1.19
Total	37,473.00	37,618.02	-145.03	4,991.54	4,465.63	546.16	-20.25

Units in Mus

Corresponding to		1045 MW	1000 MW	45 MW
Actual generation		3786.17	3691.94	94.23
Actual aux cons.		-24.37	-23.78	0.61
Actual injection		3761.80	3668.17	93.62
Free power to GoHP *		-501.25	-489.58	-11.67
Net scheduled energy		3260.55	3178.59	81.98
Long term	As per REA	3164.06	3,164.06	-
Short term	As per REA	81.98	-	81.98
DSM	As per DSM	14.50	14.50	-
		3260.55	3178.56	81.98

* Corresponding to 1000MW, free power to GoHP is scheduled @ 18% wef 30.9.2023.
 Difference between 18% & 12% is about 49.06 Mus (489.58 - 440.52)



Karcham Wangtoo HEP - 1045 MW

Qty in Lakh units

Date	Scheduled Injection KWHEP	Actual Injection KWHEP	UI_Units	Entitlement (GoHP)	Scheduled Injection IEX (GoHP)	Scheduled Bilateral (GoHP)	Differential GoHP Portion
01-04-23	36.44133	35.83113	0.61019	4.29978	4.36850	-	-0.06872
02-04-23	37.78778	38.21826	-0.43047	4.58620	4.53125	-	0.05495
Sub total	74.22910	74.04939	0.17972	8.88598	8.89975	-	-0.01377
Week 1							
03-04-23	34.37953	34.48582	-0.10632	4.13834	4.12300	-	0.01534
04-04-23	35.56455	35.89069	-0.32621	4.30692	4.26475	-	0.04217
05-04-23	34.37950	34.43716	-0.05767	4.13244	4.12300	-	0.00944
06-04-23	34.37950	35.18924	-0.80978	4.22272	4.12300	-	0.09972
07-04-23	34.37950	35.11222	-0.73277	4.21351	4.12300	-	0.09051
08-04-23	34.37950	35.10109	-0.72157	4.21219	4.12300	-	0.08919
09-04-23	34.37950	34.56851	-0.18906	4.14822	4.12300	-	0.02522
Sub total	241.84158	244.78475	-2.94338	29.37434	29.00275	-	0.37159
Week 2							
10-04-23	34.37950	34.30102	0.07847	4.11614	4.12300	-	-0.00686
11-04-23	34.37950	34.98393	-0.60444	4.19812	4.12300	-	0.07512
12-04-23	35.56483	35.92276	-0.35801	4.31076	4.26500	-	0.04576
13-04-23	34.37950	35.52589	-1.14647	4.26317	4.12300	-	0.14017
14-04-23	36.75040	39.35455	-2.60420	4.72260	4.40725	-	0.31535
15-04-23	42.24133	44.49841	-2.25705	5.33981	5.06493	-	0.27489
16-04-23	44.98725	46.01978	-1.03251	5.52240	5.39425	-	0.12815
Sub total	262.68230	270.60635	-7.92421	32.47300	31.50043	-	0.97257
Week 3							
17-04-23	46.41200	47.20975	-0.79770	5.66519	5.56500	-	0.10019
18-04-23	47.43318	48.25069	-0.81754	5.79006	5.68750	-	0.10256
19-04-23	52.77598	53.51520	-0.73922	6.42186	6.32825	-	0.09361
20-04-23	62.51878	64.17382	-1.65509	7.70090	6.77570	-	0.92520
21-04-23	48.83813	48.51818	0.31992	5.82217	6.53425	-	-0.71208
22-04-23	48.37815	48.21840	0.15979	5.78621	6.09050	-	-0.30429
23-04-23	44.12323	43.64749	0.47575	5.23776	5.64100	-	-0.40324
Sub total	350.47943	353.53353	-3.05409	42.42415	42.62220	-	-0.19805
Week 4							
24-04-23	41.70895	40.92175	0.78718	4.91067	5.53975	-	-0.62908
25-04-23	40.09860	40.38306	-0.28442	4.84598	4.97275	-	-0.12677
26-04-23	40.49930	41.65156	-1.15225	4.99814	4.85575	-	0.14239
27-04-23	41.37430	41.95833	-0.58409	5.03497	4.96075	-	0.07422
28-04-23	41.82013	42.20357	-0.38348	5.06446	5.16175	-	-0.09729
29-04-23	39.11925	40.67804	-1.55876	4.88132	4.68875	-	0.19257
30-04-23	42.34035	43.36102	-1.02068	5.20335	5.07350	-	0.12985
Sub total	286.96088	291.15733	-4.19650	34.93889	35.25300	-	-0.31411
Week 5							
Total - April	1,216.19328	1,234.13135	-17.93846	148.09636	147.27813	-	0.81823
01-05-23	42.74860	43.22946	-0.48092	5.18762	5.12500	-	0.06262
02-05-23	48.25950	48.56095	-0.30144	5.82735	5.78350	-	0.04385
03-05-23	43.06940	43.56197	-0.49252	5.22744	5.16100	-	0.06644
04-05-23	44.75950	45.71258	-0.95309	5.48555	5.36350	-	0.12205
05-05-23	44.35405	44.99476	-0.64066	5.39936	5.31625	-	0.08311
06-05-23	43.70013	44.25448	-0.55433	5.31052	5.23700	-	0.07352
07-05-23	43.55013	43.97149	-0.42138	5.27655	5.21900	-	0.05755
Sub total	310.44130	314.28569	-3.84434	37.71439	37.20525	-	0.50914
Week 6							
08-05-23	42.67090	42.85680	-0.18590	5.14285	5.11150	-	0.03135
09-05-23	41.36680	41.68778	-0.32100	5.00250	5.11150	-	-0.10900
10-05-23	41.36680	41.78160	-0.41483	5.01380	5.11150	-	-0.09770
11-05-23	41.48573	41.40043	0.08530	4.96804	4.96975	-	-0.00171



Date	Scheduled Injection KWHEP	Actual Injection KWHEP	UI_Units	Entitlement (GoHP)	Scheduled Injection IEX (GoHP)	Scheduled Bilateral (GoHP)	Differential GoHP Portion
12-05-23	41.80100	42.42698	-0.62598	5.09125	5.00825	-	0.08300
13-05-23	50.78745	52.41774	-1.63036	6.29015	6.08525	-	0.20490
14-05-23	53.89630	53.32495	0.57132	6.39902	6.45825	-	-0.05923
Sub total	313.37498	315.89629	-2.52145	37.90761	37.85600	-	0.05161
Week 7							
15-05-23	54.04363	54.62094	-0.57729	6.55453	6.47425	-	0.08028
16-05-23	53.06395	55.06691	-2.00300	6.60807	6.30825	-	0.29982
17-05-23	62.19570	63.36218	-1.16654	7.60345	7.45000	-	0.15345
18-05-23	66.84653	69.56073	-2.71429	8.34729	8.00575	-	0.34154
19-05-23	68.42825	69.27382	-0.84555	8.31283	8.19650	-	0.11633
20-05-23	75.31945	76.74153	-1.42207	9.20899	9.02325	-	0.18574
21-05-23	83.49723	86.12619	-2.62902	10.33509	10.05050	-	0.28459
Sub total	463.39473	474.75229	-11.35776	56.97025	55.50850	-	1.46175
Week 8							
22-05-23	101.85280	103.67171	-1.81888	12.44058	12.21400	-	0.22658
23-05-23	116.52195	117.60916	-1.08720	14.11309	13.96925	-	0.14384
24-05-23	135.22875	136.86633	-1.63757	16.42406	16.22250	-	0.20156
25-05-23	104.43085	104.81105	-0.38019	12.57732	14.22275	-	-1.64543
26-05-23	91.63298	92.88763	-1.25470	11.14648	11.94375	-	-0.79727
27-05-23	84.90618	86.58240	-1.67630	10.38990	10.65525	-	-0.26535
28-05-23	77.05438	78.58102	-1.52667	9.42975	9.23850	-	0.19125
Sub total	711.62788	721.00931	-9.38151	86.52118	88.46600	-	-1.94482
Week 9							
29-05-23	79.48933	82.90734	-3.41807	9.94888	9.52975	-	0.41913
30-05-23	80.60473	84.44793	-3.84328	10.13370	9.65815	-	0.47555
31-05-23	95.41560	96.38269	-0.96716	11.56595	11.44140	-	0.12455
Sub total	255.50965	263.73796	-8.22851	31.64853	30.62930	-	1.01923
Total - May	2,054.34853	2,089.68154	-35.33357	250.76196	249.66505		1.09691
01-06-23	76.43247	76.96538	-0.53286	9.23585	1.48050	8.04983	-0.29448
02-06-23	71.25565	71.80233	-0.54667	8.61630	1.48050	8.04983	-0.91403
03-06-23	68.33153	67.65753	0.67400	8.11896	1.19625	8.04983	-1.12712
04-06-23	62.35290	63.85986	-1.50696	7.66323	1.54300	7.70183	-1.58160
Sub total	278.37255	280.28509	-1.91249	33.63434	5.70025	31.85130	-3.91721
Week 10							
05-06-23	62.90215	63.45731	-0.55516	7.61489	1.54300	7.70183	-1.62994
06-06-23	73.11220	73.21134	-0.09915	8.78540	1.42873	7.70183	-0.34515
07-06-23	74.71185	74.81193	-0.10011	8.97751	1.42875	7.70183	-0.15307
08-06-23	80.95195	81.53912	-0.58715	9.78470	2.00875	7.70183	0.07413
09-06-23	88.99073	91.61367	-2.62295	10.99361	2.97275	7.70183	0.31904
10-06-23	107.08133	110.02451	-2.94317	13.20297	5.14000	7.70183	0.36115
11-06-23	122.02388	125.73361	-3.70979	15.08798	6.92900	7.70183	0.45716
Sub total	609.77408	620.39149	-10.61748	74.44706	21.45098	53.91278	-0.91669
Week 11							
12-06-23	138.30070	139.69680	-1.39615	16.76362	3.45025	13.14400	0.16937
13-06-23	183.39450	186.20095	-2.80649	22.34410	8.85300	13.14400	0.34710
14-06-23	211.83428	215.66007	-3.82582	25.87924	12.27150	13.14400	0.46374
15-06-23	203.40100	208.12516	-4.72416	24.97498	11.88100	13.14400	-0.05002
16-06-23	166.40225	166.88443	-0.48217	20.02614	6.46900	18.55680	-4.99966
17-06-23	168.85290	171.29826	-2.44530	20.55574	1.69900	18.55680	0.29994
18-06-23	211.40795	214.38894	-2.98101	25.72673	9.21400	15.77280	0.73993
Sub total	1,283.59358	1,302.25462	-18.66110	156.27055	53.83775	105.46240	-3.02960
Week 12							
19-06-23	230.01408	234.13047	-4.11644	28.09561	11.81550	15.77280	0.80031
20-06-23	256.18350	253.60865	2.57483	30.47871	14.94275	15.77280	-0.27684
21-06-23	272.10940	272.18683	-0.07745	32.77944	17.02800	15.77280	0.02136
22-06-23	272.54640	271.59578	0.95058	32.70825	17.04000	15.77280	-0.10455
23-06-23	272.54640	271.74218	0.80422	32.72591	17.04000	15.77280	-0.08689



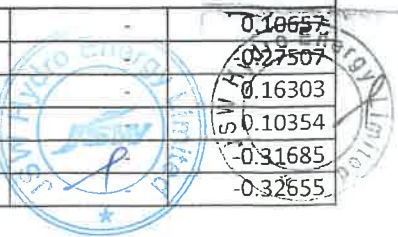
Date	Scheduled Injection KWHEP	Actual Injection KWHEP	UI_Units	Entitlement (GoHP)	Scheduled Injection IEX (GoHP)	Scheduled Bilateral (GoHP)	Differential GoHP Portion
24-06-23	272.54640	272.31425	0.23213	32.79483	17.04000	15.77280	-0.01797
25-06-23	272.54640	271.04662	1.49978	32.64214	17.04000	15.77280	-0.17066
Sub total	1,848.49258	1,846.62479	1.86765	222.22489	111.94625	110.40960	-0.13096
Week 13							
26-06-23	272.54640	271.94356	0.60285	32.75021	17.04000	15.77280	-0.06259
27-06-23	272.54640	270.24720	2.29920	32.54583	17.04000	15.77280	-0.26697
28-06-23	272.54640	271.61302	0.93333	32.71038	17.04000	15.77280	-0.10242
29-06-23	272.54640	270.38247	2.16393	32.56216	17.04000	15.77280	-0.25064
30-06-23	272.54640	269.89811	2.64829	32.50385	17.04000	15.77280	-0.30895
Sub total	1,362.73200	1,354.08436	8.64760	163.07243	85.20000	78.86400	-0.99157
Total-Jun	5,382.96478	5,403.64034	-20.67582	649.64927	278.13523	380.50008	-8.98603
01-07-23	272.54160	271.43869	1.10290	32.68937	27.45600	5.35200	-0.11863
02-07-23	272.54160	271.70508	0.83657	32.72143	27.45600	5.35200	-0.08657
Sub total	545.08320	543.14377	1.93947	65.41080	54.91200	10.70400	-0.20520
Week 14							
03-07-23	272.54160	271.48691	1.05469	32.69519	27.45600	5.35200	-0.11281
04-07-23	272.54160	270.68618	1.85544	32.59871	27.45600	5.35200	-0.20929
05-07-23	272.54160	266.26145	6.28016	32.06587	27.45600	5.35200	-0.74213
06-07-23	272.55060	268.54582	4.00487	32.34094	27.45600	5.35200	-0.46706
07-07-23	272.55060	271.29295	1.25775	32.67182	27.45600	5.35200	-0.13618
08-07-23	272.54160	271.24189	1.29966	32.66561	27.45600	5.35200	-0.14239
09-07-23	240.83633	218.17331	22.66302	26.27468	25.11143	4.68300	-3.51975
Sub total	1,876.10393	1,837.68852	38.41559	221.31282	189.84743	36.79500	-5.32961
Week 15							
10-07-23	5.25428	0.01876	5.23565	0.00230	5.25428	-	-5.25198
11-07-23	-	-0.00523	0.00523	-0.00057	-	-	-0.00057
12-07-23	152.15928	135.30764	16.85166	16.28458	17.21775	1.11500	-2.04817
13-07-23	100.64320	101.71571	-1.07249	12.20590	9.11425	2.95475	0.13690
14-07-23	266.68560	261.38378	5.30186	31.42394	26.70000	5.35200	-0.62806
15-07-23	272.54160	271.20284	1.33878	32.66097	27.45600	5.35200	-0.14703
16-07-23	272.54160	269.99563	2.54597	32.51558	32.80800	-	-0.29242
Sub total	1,069.82555	1,039.61914	30.20666	125.09270	118.55028	14.77375	-8.23133
Week 16							
17-07-23	272.54160	271.19214	1.34949	32.65967	32.80800	-	-0.14833
18-07-23	272.54160	271.93287	0.60872	32.74888	32.80800	-	-0.05912
19-07-23	272.54160	271.63309	0.90855	32.71282	32.80800	-	-0.09518
20-07-23	272.54155	270.63622	1.90533	32.59272	32.80795	-	-0.21523
21-07-23	272.54158	272.37687	0.16473	32.80231	32.80798	-	-0.00566
22-07-23	272.54158	271.46051	1.08106	32.69201	32.80798	-	-0.11597
23-07-23	272.54160	271.49040	1.05126	32.69554	32.80800	-	-0.11246
Sub total	1,907.79110	1,900.72211	7.06914	228.90395	229.65590	-	-0.75195
Week 17							
24-07-23	272.54160	271.98764	0.55399	32.75547	32.80800	-	-0.05253
25-07-23	272.54158	271.50785	1.03374	32.69768	32.80798	-	-0.11030
26-07-23	272.54153	270.73462	1.80693	32.60455	32.80793	-	-0.20338
27-07-23	272.54160	268.97367	3.56796	32.39252	32.80800	-	-0.41548
28-07-23	272.54160	269.51454	3.02709	32.45767	32.80800	-	-0.35033
29-07-23	272.54160	270.29651	2.24505	32.55182	32.80800	-	-0.25618
30-07-23	272.54160	269.23702	3.30462	32.42421	32.80800	-	-0.38379
Sub total	1,907.79110	1,892.25185	15.53938	227.88392	229.65590	-	-1.77198
Week 18							
31-07-23	272.54160	271.45353	1.08810	32.69114	32.80800	-	-0.11686
Sub total	272.54160	271.45353	1.08810	32.69114	32.80800	-	-0.11686
Total -July	7,579.13648	7,484.87892	94.25834	901.29533	855.42950	62.27275	-16.40692
01-08-23	272.54158	271.51440	1.02726	32.69848	32.80798	-	-0.10950
02-08-23	272.54160	271.73368	0.80795	32.72492	32.80800	-	-0.08308
03-08-23	272.54160	272.80713	-0.26553	32.85419	32.80800	-	0.04619



Date	Scheduled Injection KWHEP	Actual Injection KWHEP	UI_Units	Entitlement (GoHP)	Scheduled Injection IEX (GoHP)	Scheduled Bilateral (GoHP)	Differential GoHP Portion
04-08-23	272.54160	272.36880	0.17283	32.80136	32.80800	-	-0.00664
05-08-23	272.54160	272.65397	-0.11233	32.83577	32.80800	-	0.02777
06-08-23	272.54160	271.66625	0.87536	32.71674	32.80800	-	-0.09126
Sub total	1,635.24958	1,632.74421	2.50554	196.63146	196.84798	-	-0.21651
Week 19							
07-08-23	272.55355	272.30488	0.24880	32.79368	32.80795	-	-0.01427
08-08-23	272.55358	272.87738	-0.32376	32.86261	32.80798	-	0.05464
09-08-23	272.55355	273.01113	-0.45758	32.81628	32.80795	-	0.00833
10-08-23	272.55248	272.42422	0.12835	32.69085	32.80788	-	-0.11703
11-08-23	272.55003	271.45331	1.09673	32.63267	32.80780	-	-0.17513
12-08-23	272.55248	268.78407	3.76847	32.36969	32.64000	-	-0.27031
13-08-23	272.54673	272.48138	0.06533	32.81488	32.80800	-	0.00688
Sub total	1,907.86238	1,903.33636	4.52634	228.98066	229.48755	-	-0.50689
Week 20							
14-08-23	272.54848	272.31229	0.23616	32.79457	27.06800	5.74350	-0.01693
15-08-23	272.54510	272.91317	-0.36804	32.86696	27.06800	5.74350	0.05546
16-08-23	272.55710	271.94488	0.61230	32.75032	27.06800	5.74350	-0.06118
17-08-23	272.55705	270.49244	2.06469	32.57546	27.06795	5.74350	-0.23599
18-08-23	272.55710	268.88095	3.67623	32.38134	27.06800	5.74350	-0.43016
19-08-23	272.55710	271.03942	1.51771	32.64125	27.06800	5.74350	-0.17025
20-08-23	272.55710	272.25251	0.30465	32.78737	27.06800	5.74350	-0.02413
Sub total	1,907.87903	1,899.83565	8.04370	228.79727	189.47595	40.20450	-0.88318
Week 21							
21-08-23	272.55710	273.09273	-0.53562	32.88854	27.06800	5.74350	0.07704
22-08-23	272.55458	271.65230	0.90233	32.71511	27.06798	5.74350	-0.09637
23-08-23	266.81690	265.61215	1.20480	31.98025	27.06800	5.74350	-0.83125
24-08-23	272.55710	272.30836	0.24882	32.79414	27.06800	5.74350	-0.01736
25-08-23	272.55705	272.55906	-0.00195	32.82429	27.06795	5.74350	0.01284
26-08-23	261.09085	260.41440	0.67646	31.35057	27.06800	5.74350	-1.46093
27-08-23	251.81233	250.85106	0.96134	30.11300	25.70650	5.74350	-1.33700
Sub total	1,869.94590	1,866.49005	3.45618	224.66590	188.11443	40.20450	-3.65303
Week 22							
28-08-23	245.94523	243.83345	2.11182	29.28144	24.53200	5.74350	-0.99406
29-08-23	231.43010	234.37178	-2.94169	28.12452	23.05400	5.74350	-0.67298
30-08-23	219.86525	223.05185	-3.18661	26.76620	22.55500	5.74350	-1.53230
31-08-23	228.75280	234.37877	-5.62592	28.13290	21.71375	5.74350	0.67565
Sub total	925.99338	935.63585	-9.64240	112.30506	91.85475	22.97400	-2.52369
Total-Aug.	8,246.93025	8,238.04212	8.88936	991.38035	895.78065	103.38300	-7.78330
01-09-23	249.49218	252.50138	-3.00915	30.33192	30.02075	-	0.31117
02-09-23	262.68910	264.19767	-1.50858	31.79617	31.60200	-	0.19417
03-09-23	267.24680	266.67556	0.57131	32.08989	32.13075	-	-0.04086
Sub total	779.42808	783.37461	-3.94642	94.21798	93.75350	-	0.46448
Week 23							
04-09-23	248.31688	244.43214	3.88480	29.36079	30.58650	-	-1.22571
05-09-23	230.97965	230.33040	0.64926	27.63964	28.44100	-	-0.80136
06-09-23	204.04268	203.80233	0.24040	24.45633	26.44600	-	-1.98967
07-09-23	191.38450	191.58065	-0.19617	22.98969	24.18250	-	-1.19281
08-09-23	179.73433	182.86102	-3.12677	21.94332	21.60000	-	0.34332
09-09-23	190.58208	194.37928	-3.79720	23.32553	22.84850	-	0.47703
10-09-23	191.86943	193.47687	-1.60748	23.21716	22.99800	-	0.21916
Sub total	1,436.90953	1,440.86270	-3.95316	172.93246	177.10250	-	-4.17004
Week 24							
11-09-23	193.87248	196.89906	-3.02662	23.62789	23.25050	-	0.37739
12-09-23	204.91095	210.46211	-5.55115	25.25547	24.57300	-	0.68247
13-09-23	219.12703	224.31556	-5.18855	26.91780	26.28748	-	0.63033
14-09-23	227.55810	232.99200	-5.43388	27.95907	26.57400	-	1.38507
15-09-23	220.80525	225.90524	-5.09998	27.10862	26.48700	-	0.62162



Date	Scheduled Injection KWHEP	Actual Injection KWHEP	UI_Units	Entitlement (GoHP)	Scheduled Injection IEX (GoHP)	Scheduled Bilateral (GoHP)	Differential GoHP Portion
16-09-23	209.38078	210.41869	-1.03792	25.25021	25.83800	-	-0.58779
17-09-23	66.77855	67.66603	-0.88752	8.11989	8.24600	-	-0.12611
Sub total	1,342.43313	1,368.65869	-26.22562	164.23895	161.25598	-	2.98298
Week 25							
18-09-23	184.94710	185.15738	-0.21035	22.21888	22.18800	-	0.03088
19-09-23	176.33275	177.97986	-1.64716	21.35757	21.14300	-	0.21457
20-09-23	164.71770	165.78851	-1.07080	19.89463	21.32400	-	-1.42937
21-09-23	160.61483	160.34880	0.26607	19.24182	19.61898	-	-0.37716
22-09-23	149.37673	155.55207	-6.17538	18.66626	17.91750	-	0.74876
23-09-23	154.11195	156.02029	-1.90840	18.72243	18.48100	-	0.24143
24-09-23	136.43045	135.16451	1.26602	16.21978	19.57500	-	-3.35522
Sub total	1,126.53150	1,136.01143	-9.48000	136.32137	140.24748	-	-3.92611
Week 26							
25-09-23	128.03303	132.66175	-4.62876	15.91943	15.35375	-	0.56568
26-09-23	128.03303	128.23898	-0.20593	15.38873	15.35375	-	0.03498
27-09-23	116.00033	116.84378	-0.84348	14.02126	14.50175	-	-0.48049
28-09-23	104.31275	112.43651	-8.12381	13.49241	12.50073	-	0.99169
29-09-23	110.24995	115.35971	-5.10978	13.84315	13.22073	-	0.62243
30-09-23	109.06858	110.92516	-1.85661	19.96654	19.62848	-	0.33807
Sub total	695.69765	716.46590	-20.76837	92.63152	90.55918	-	2.07235
Total -Sep.	5,380.99988	5,445.37332	-64.37357	660.34228	662.91863	-	-2.57634
01-10-23	95.64890	96.37418	-0.72531	17.34733	17.06375	-	0.28358
Sub total	95.64890	96.37418	-0.72531	17.34733	17.06375	-	0.28358
Week 27							
02-10-23	99.19913	92.85862	6.34053	16.71456	18.33700	-	-1.62244
03-10-23	86.53525	90.00676	-3.47159	16.20121	15.56500	-	0.63621
04-10-23	86.53358	89.12596	-2.59245	16.04265	15.56325	-	0.47940
05-10-23	78.24513	81.90960	-3.66453	14.74372	14.08000	-	0.66372
06-10-23	78.23855	79.97040	-1.73188	14.39467	14.07375	-	0.32092
07-10-23	85.35018	91.45745	-6.10734	16.46232	15.35225	-	1.11007
08-10-23	90.09655	89.51956	0.57701	16.11343	16.20825	-	-0.09482
Sub total	604.19835	614.84835	-10.65025	110.67256	109.17950	-	1.49306
Week 28							
09-10-23	84.15980	86.12269	-1.96292	15.50210	15.13550	-	0.36660
10-10-23	79.42763	80.67426	-1.24673	14.52136	14.29175	-	0.22961
11-10-23	79.42763	81.27841	-1.85084	14.63011	14.29175	-	0.33836
12-10-23	75.42605	76.09134	-0.66534	13.69647	14.29175	-	-0.59528
13-10-23	73.87250	74.27018	-0.39770	13.36866	13.86475	-	-0.49609
14-10-23	68.75638	69.19702	-0.44069	12.45549	12.36850	-	0.08699
15-10-23	65.19898	71.17178	-5.97287	12.81090	11.72650	-	1.08440
Sub total	526.26895	538.80568	-12.53709	96.98509	95.97050	-	1.01459
Week 29							
16-10-23	66.38460	69.52865	-3.14409	12.51516	11.94025	-	0.57491
17-10-23	67.57040	70.79477	-3.22438	12.74304	12.15425	-	0.58879
18-10-23	66.38465	68.39695	-2.01229	12.31145	11.94325	-	0.36820
19-10-23	66.38465	67.95273	-1.56810	12.23150	11.94325	-	0.28825
20-10-23	64.01025	64.94837	-0.93818	11.69072	11.51125	-	0.17947
21-10-23	61.63760	62.07687	-0.43931	11.17386	11.08300	-	0.09086
22-10-23	61.63790	62.72051	-1.08264	11.28967	11.08300	-	0.20667
Sub total	454.01005	466.41885	-12.40899	83.95540	81.65825	-	2.29715
Week 30							
23-10-23	60.44960	60.96982	-0.52027	10.97457	10.86800	-	0.10657
24-10-23	59.59985	61.24517	-1.64535	11.02418	11.29925	-	-0.27507
25-10-23	60.44980	61.28335	-0.83358	11.03103	10.86800	-	0.16303
26-10-23	60.44980	60.95302	-0.50326	10.97154	10.86800	-	0.10354
27-10-23	57.29975	57.34822	-0.04846	10.32265	10.63950	-	-0.31685
28-10-23	56.37323	57.88865	-1.51549	10.41995	10.74650	-	-0.32655



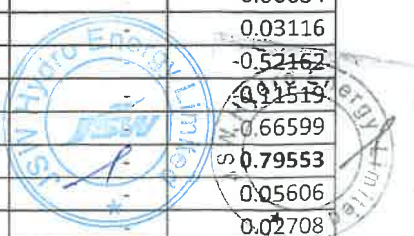
Date	Scheduled Injection KWHEP	Actual Injection KWHEP	UI_Units	Entitlement (GoHP)	Scheduled Injection IEX (GoHP)	Scheduled Bilateral (GoHP)	Differential GoHP Portion
29-10-23	55.70578	56.69847	-0.99274	10.20568	10.01350	-	0.19218
Sub total	410.32780	416.38668	-6.05915	74.94960	75.30275	-	-0.35315
Week 31							
30-10-23	55.70578	56.72749	-1.02181	10.21092	10.01350	-	0.19742
31-10-23	55.70578	57.83913	-2.13332	10.41105	10.01350	-	0.39755
Sub total	111.41155	114.56661	-3.15513	20.62197	20.02700	-	0.59497
Total- Oct	2,201.86560	2,247.40036	-45.53592	404.53195	399.20175	-	5.33020
01-11-23	56.89150	57.77105	-0.87960	10.39874	10.22700	-	0.17174
02-11-23	55.70738	57.85681	-2.14941	10.41420	10.01500	-	0.39920
03-11-23	54.52218	55.88226	-1.36010	10.05886	9.80200	-	0.25686
04-11-23	53.33698	54.83738	-1.50040	9.87071	9.58900	-	0.28171
05-11-23	50.96670	51.42502	-0.45835	9.25650	9.16300	-	0.09350
Sub total	271.42473	277.77251	-6.34786	49.99901	48.79600	-	1.20301
Week 32							
06-11-23	50.96670	51.30021	-0.33352	9.23403	9.16300	-	0.07103
07-11-23	50.96708	52.29840	-1.33135	9.41369	9.16325	-	0.25044
08-11-23	50.96708	52.25651	-1.28944	9.40621	9.16325	-	0.24296
09-11-23	52.15215	53.68385	-1.53167	9.66307	9.37625	-	0.28682
10-11-23	52.15215	52.31018	-0.15799	9.41583	9.37625	-	0.03958
11-11-23	50.96725	51.17193	-0.20468	9.21092	9.16350	-	0.04742
12-11-23	51.26345	52.06560	-0.80219	9.37182	9.21650	-	0.15532
Sub total	359.43585	365.08668	-5.65084	65.71557	64.62200	-	1.09357
Week 33							
13-11-23	51.26345	51.92225	-0.65881	9.34605	9.21650	-	0.12955
14-11-23	50.61105	51.71585	-1.10484	9.30883	9.98450	-	-0.67567
15-11-23	49.78278	49.74415	0.03862	8.95396	8.95125	-	0.00271
16-11-23	48.59758	48.49876	0.09877	8.72976	8.73825	-	-0.00849
17-11-23	47.41320	47.93498	-0.52180	8.62832	8.52600	-	0.10232
18-11-23	45.04268	45.87884	-0.83618	8.25824	8.09975	-	0.15849
19-11-23	45.04280	45.34015	-0.29733	8.16124	8.10000	-	0.06124
Sub total	337.75353	341.03498	-3.28157	61.38640	61.61625	-	-0.22985
Week 34							
20-11-23	43.85773	43.84866	0.00910	7.89278	7.88700	-	0.00578
21-11-23	43.85773	44.72596	-0.86832	8.05068	7.88700	-	0.16368
22-11-23	46.22753	47.33018	-1.10265	8.51943	8.31250	-	0.20693
23-11-23	45.04280	46.04618	-1.00341	8.28830	8.10000	-	0.18830
24-11-23	43.85773	44.05985	-0.20214	7.93079	7.88700	-	0.04379
25-11-23	42.67255	42.81753	-0.14503	7.70719	7.67400	-	0.03319
26-11-23	42.67255	42.98030	-0.30772	7.73646	7.67400	-	0.06246
Sub total	308.18860	311.80865	-3.62017	56.12563	55.42150	-	0.70413
Week 35							
27-11-23	41.48740	42.30153	-0.81415	7.61430	7.46100	-	0.15330
28-11-23	40.30280	40.59644	-0.29363	7.30737	7.24850	-	0.05887
29-11-23	40.30280	40.86065	-0.55791	7.35493	7.24850	-	0.10643
30-11-23	40.30280	41.94764	-1.64489	7.55056	7.24850	-	0.30206
Sub total	162.39580	165.70625	-3.31058	29.82716	29.20650	-	0.62066
Total - Nov	1,439.19850	1,461.40906	-22.21102	263.05377	259.66225	-	3.39152
01-12-23	42.67300	44.30269	-1.62976	7.97447	7.67450	-	0.29997
02-12-23	41.48785	41.79971	-0.31187	7.52394	7.46150	-	0.06244
03-12-23	41.48785	42.16037	-0.67253	7.58893	7.46150	-	0.12743
Sub total	125.64870	128.26277	-2.61416	23.08734	22.59750	-	0.48984
Week 36							
04-12-23	40.30273	41.00423	-0.70147	7.38080	7.24850	-	0.13230
05-12-23	40.30273	41.44735	-1.14465	7.46060	7.24850	-	0.21210
06-12-23	37.93293	38.67143	-0.73849	6.96085	6.82300	-	0.13785
07-12-23	35.56305	35.91971	-0.35666	6.46549	6.39750	-	0.06799
08-12-23	33.19320	34.30516	-1.11201	6.17489	5.97200	-	0.20289



Date	Scheduled Injection KWHEP	Actual Injection KWHEP	UI_Units	Entitlement (GoHP)	Scheduled Injection IEX (GoHP)	Scheduled Bilateral (GoHP)	Differential GoHP Portion
09-12-23	33.19320	33.57448	-0.38128	6.04340	5.97200	-	0.07140
10-12-23	34.37813	35.09455	-0.71648	6.31706	6.18475	-	0.13231
Sub total	254.86595	260.01691	-5.15104	46.80309	45.84625	-	0.95684
Week 37							
11-12-23	34.37813	35.04066	-0.66253	6.30739	6.18475	-	0.12264
12-12-23	34.37813	35.10852	-0.73040	6.31955	6.18475	-	0.13480
13-12-23	34.37813	35.75521	-1.37703	6.43599	6.18475	-	0.25124
14-12-23	35.56305	36.47783	-0.91475	6.56606	6.39750	-	0.16856
15-12-23	35.56305	36.40298	-0.83996	6.55263	6.39750	-	0.15513
16-12-23	34.37795	34.40379	-0.02586	6.19268	6.18450	-	0.00818
17-12-23	36.37795	36.01200	0.36592	6.48216	6.54450	-	-0.06234
Sub total	245.01638	249.20099	-4.18461	44.85646	44.07825	-	0.77821
Week 38							
18-12-23	35.56360	36.02619	-0.46256	6.48470	6.39800	-	0.08670
19-12-23	35.56360	35.85469	-0.29114	6.45385	6.39800	-	0.05585
20-12-23	35.56360	35.47681	0.08677	6.38589	6.39800	-	-0.01211
21-12-23	34.37840	35.16241	-0.78403	6.32924	6.18500	-	0.14424
22-12-23	33.19320	33.51012	-0.31690	6.03181	5.97200	-	0.05981
23-12-23	33.19320	33.30633	-0.11317	5.99515	5.97200	-	0.02315
24-12-23	33.19320	32.74647	0.44665	5.89438	5.97200	-	-0.07762
Sub total	240.64880	242.08301	-1.43438	43.57502	43.29500	-	0.28002
Week 39							
25-12-23	33.19320	33.68640	-0.49323	6.06355	5.97200	-	0.09155
26-12-23	33.19320	33.55877	-0.36562	6.04056	5.97200	-	0.06856
27-12-23	35.06823	35.49971	-0.43162	6.38994	6.30950	-	0.08044
28-12-23	35.56360	35.99411	-0.43052	6.47889	6.39800	-	0.08089
29-12-23	34.37850	34.46706	-0.08859	6.20410	6.18500	-	0.01910
30-12-23	34.37850	34.59142	-0.21303	6.22649	6.18500	-	0.04149
31-12-23	33.19320	33.48720	-0.29406	6.02772	5.97200	-	0.05572
Sub total	238.96843	241.28467	-2.31667	43.43125	42.99350	-	0.43775
Total- Dec	1,105.14825	1,120.84835	-15.70086	201.75316	198.81050	-	2.94266
Week 40							
01-01-24	33.19320	33.01615	0.17703	5.94287	5.97200	-	-0.02913
02-01-24	33.19320	34.34074	-1.14761	6.18139	5.97200	-	0.20939
03-01-24	33.19320	33.71477	-0.52157	6.06863	5.97200	-	0.09663
04-01-24	32.00865	32.23398	-0.22531	5.80217	5.75950	-	0.04267
05-01-24	31.61600	31.72102	-0.10502	5.70983	6.50700	-	-0.79717
06-01-24	31.61600	31.58117	0.03483	5.68467	6.50700	-	-0.82233
07-01-24	31.61600	31.53383	0.08211	5.67613	6.50700	-	-0.83087
Sub total	226.43625	228.14165	-1.70554	41.06569	43.19650	-	-2.13081
Week 41							
08-01-24	30.82340	30.91005	-0.08661	5.56387	5.54650	-	0.01737
09-01-24	29.63830	29.65747	-0.01913	5.33840	5.33350	-	0.00490
10-01-24	29.63830	29.49099	0.14733	5.30840	5.33350	-	-0.02510
11-01-24	29.63830	29.41572	0.22262	5.29488	5.33350	-	-0.03862
12-01-24	29.63830	30.22647	-0.58818	5.44079	5.33350	-	0.10729
13-01-24	29.63830	30.58888	-0.95053	5.50604	5.33350	-	0.17254
14-01-24	29.63830	30.01615	-0.37780	5.40301	5.33350	-	0.06951
Sub total	208.65320	210.30573	-1.65253	37.85539	37.54750	-	0.30789
Week 42							
15-01-24	29.63830	30.28343	-0.64509	5.45105	5.33350	-	0.11755
16-01-24	29.63830	30.50794	-0.86959	5.49146	5.33350	-	0.15796
17-01-24	29.63830	30.45295	-0.81462	5.48153	5.33350	-	0.14803
18-01-24	29.63830	30.04037	-0.40209	5.40731	5.33350	-	0.07381
19-01-24	29.63830	30.73615	-1.09790	5.53254	5.33350	-	0.19904
20-01-24	29.63830	30.02313	-0.38486	5.40419	5.33350	-	0.07069
21-01-24	29.63830	29.94480	-0.30655	5.39003	5.33350	-	0.05653



Date	Scheduled Injection KWHEP	Actual Injection KWHEP	UI_Units	Entitlement (GoHP)	Scheduled Injection IEX (GoHP)	Scheduled Bilateral (GoHP)	Differential GoHP Portion
Sub total	207.46810	211.98876	-4.52070	38.15811	37.33450	-	0.82361
Week 43							
22-01-24	29.63830	30.46539	-0.82709	5.48379	5.33350	-	0.15029
23-01-24	29.63830	30.65367	-1.01541	5.51769	5.33350	-	0.18419
24-01-24	29.63830	30.83782	-1.19955	5.55082	5.33350	-	0.21732
25-01-24	29.63830	29.95200	-0.31374	5.39140	5.33350	-	0.05790
26-01-24	28.45195	28.29622	0.15568	5.09338	5.11950	-	-0.02612
27-01-24	28.45195	29.21848	-0.76652	5.25936	5.11950	-	0.13986
28-01-24	28.45195	28.29055	0.16134	5.09228	5.11950	-	-0.02722
Sub total	203.90905	207.71413	-3.80529	37.38872	36.69250	-	0.69622
Week 44							
29-01-24	28.45195	28.56633	-0.11447	5.14198	5.11950	-	0.02248
30-01-24	28.45195	29.26539	-0.81347	5.26782	5.11950	-	0.14832
31-01-24	28.45195	28.84102	-0.38909	5.19139	5.11950	-	0.07189
Sub total	85.35585	86.67274	-1.31703	15.60119	15.35850	-	0.24269
Total - Jan	931.82245	944.82300	-13.00086	170.06910	170.12950	-	-0.06040
01-02-24	29.63830	30.45164	-0.81332	5.48125	5.33350	-	0.14775
02-02-24	29.63830	30.46408	-0.82583	5.48358	5.33350	-	0.15008
03-02-24	30.56910	31.15027	-0.58113	5.60712	5.54650	-	0.06062
04-02-24	28.45195	28.29295	0.15904	5.09278	5.11950	-	-0.02672
Sub total	118.29765	120.35894	-2.06124	21.66473	21.33300	-	0.33173
Week 45							
05-02-24	28.45195	28.95404	-0.50214	5.21171	5.11950	-	0.09221
06-02-24	28.45195	28.96910	-0.51720	5.21448	5.11950	-	0.09498
07-02-24	28.45195	29.00008	-0.54818	5.22007	5.11950	-	0.10057
08-02-24	28.45195	29.07623	-0.62430	5.23374	5.11950	-	0.11424
09-02-24	28.45195	28.88336	-0.43139	5.19905	5.11950	-	0.07955
10-02-24	28.45195	28.73935	-0.28738	5.17314	5.11950	-	0.05364
11-02-24	27.26620	27.16670	0.09943	4.89004	4.90600	-	-0.01596
Sub total	197.97790	200.78885	-2.81116	36.14223	35.62300	-	0.51923
Week 46							
12-02-24	27.26620	27.03666	0.22948	4.86663	4.90600	-	-0.03937
13-02-24	27.26620	26.88460	0.38163	4.83927	4.90600	-	-0.06673
14-02-24	29.64643	29.45783	0.18861	5.30245	5.33425	-	-0.03180
15-02-24	29.72960	29.34503	0.38459	5.28211	5.34575	-	-0.06364
16-02-24	27.26678	27.49768	-0.23093	4.94963	4.90625	-	0.04338
17-02-24	29.76678	30.67877	-0.91199	5.52219	5.35625	-	0.16594
18-02-24	32.63843	33.00983	-0.37139	5.94182	5.87350	-	0.06832
Sub total	203.58040	203.91039	-0.33000	36.70410	36.62800	-	0.07610
Week 47							
19-02-24	29.63835	29.31163	0.32669	5.27612	5.33350	-	-0.05738
20-02-24	27.26713	28.36953	-1.10241	5.10650	4.90650	-	0.20000
21-02-24	27.26713	27.57427	-0.30708	4.96340	4.90650	-	0.05690
22-02-24	29.63840	30.34058	-0.70218	5.46132	5.33350	-	0.12782
23-02-24	29.63840	30.55005	-0.91166	5.49902	5.33350	-	0.16552
24-02-24	29.63840	29.86888	-0.23046	5.37636	5.33350	-	0.04286
25-02-24	29.63840	29.62342	0.01500	5.33224	5.33350	-	-0.00126
Sub total	202.72620	205.63835	-2.91210	37.01496	36.48050	-	0.53446
Week 48							
26-02-24	29.63840	29.29506	0.34327	5.27316	5.33350	-	-0.06034
27-02-24	29.63840	29.80364	-0.16524	5.36466	5.33350	-	0.03116
28-02-24	30.24860	30.18219	0.06635	5.43288	5.95450	-	-0.52162
29-02-24	29.63738	28.98633	0.65099	5.21756	5.33275	-	-0.11537
Sub total	119.16278	118.26722	0.89537	21.28826	21.95425	-	-0.66599
Total - Feb	841.74493	848.96374	-7.21913	152.81428	152.01875	-	0.79553
01-03-24	29.63770	29.93913	-0.30145	5.38906	5.33300	-	0.05606
02-03-24	29.63770	29.77811	-0.14049	5.36008	5.33300	-	0.02708



Date	Scheduled Injection KWHEP	Actual Injection KWHEP	UI_Units	Entitlement (GoHP)	Scheduled Injection IEX (GoHP)	Scheduled Bilateral (GoHP)	Differential GoHP Portion
03-03-24	29.63770	29.36117	0.27652	5.28500	5.33300	-	-0.04800
Sub total	88.91310	89.07840	-0.16542	16.03414	15.99900	-	0.03514
Week 49							
04-03-24	29.63770	29.72836	-0.09066	5.35114	5.33300	-	0.01814
05-03-24	29.63770	29.76196	-0.12428	5.35716	5.33300	-	0.02416
06-03-24	28.38315	28.02285	0.36030	5.04413	5.33300	-	-0.28887
07-03-24	28.40780	28.42146	-0.01368	5.11583	5.33300	-	-0.21717
08-03-24	29.66635	29.61230	0.05402	5.33024	5.33800	-	-0.00776
09-03-24	29.66635	29.19077	0.47558	5.25436	5.33800	-	-0.08364
10-03-24	29.63770	29.77092	-0.13315	5.35877	5.33300	-	0.02577
Sub total	205.03675	204.50861	0.52813	36.81163	37.34100	-	-0.52937
Week 50							
11-03-24	41.12833	42.48720	-1.35886	7.64771	7.40125	-	0.24646
12-03-24	33.19493	33.49223	-0.29737	6.02863	5.97350	-	0.05513
13-03-24	36.42713	37.50001	-1.07282	6.75001	6.61325	-	0.13676
14-03-24	33.19493	33.40931	-0.21434	6.01369	5.97350	-	0.04019
15-03-24	38.91740	39.57775	-0.66041	7.12403	7.00300	-	0.12103
16-03-24	36.75123	36.96765	-0.21645	6.65423	6.61325	-	0.04098
17-03-24	33.19503	32.85687	0.33813	5.91431	5.97350	-	-0.05919
Sub total	252.80895	256.29103	-3.48212	46.13261	45.55125	-	0.58136
Week 51							
18-03-24	33.19490	33.48525	-0.29037	6.02734	5.97350	-	0.05384
19-03-24	34.38103	34.31454	0.06654	6.17667	6.18725	-	-0.01058
20-03-24	33.19515	32.82852	0.36664	5.90914	5.97350	-	-0.06436
21-03-24	34.38045	34.69047	-0.31003	6.24431	6.18675	-	0.05756
22-03-24	36.19558	36.48415	-0.28859	6.56718	6.51400	-	0.05318
23-03-24	40.34660	41.48313	-1.13657	7.46702	7.36975	-	0.09727
24-03-24	40.36650	40.54756	-0.18113	7.29858	7.26325	-	0.03533
Sub total	252.06020	253.83361	-1.77351	45.69024	45.46800	-	0.22224
Week 52							
25-03-24	35.56490	35.65550	-0.09059	6.41799	6.39925	-	0.01874
26-03-24	35.56490	36.03207	-0.46721	6.48577	6.39925	-	0.08652
27-03-24	39.86500	39.94582	-0.08080	7.19026	7.17325	-	0.01701
28-03-24	40.30608	40.50371	-0.19765	7.29067	7.25175	-	0.03892
29-03-24	44.82253	45.04364	-0.22108	8.10788	7.43775	-	0.67013
30-03-24	45.28058	45.28386	-0.00328	8.15112	8.14775	-	0.00337
31-03-24	52.42050	52.65382	-0.23332	9.47763	9.43300	-	0.04463
Sub total	293.82448	295.11843	-1.29393	53.12132	52.24200	-	0.87932
Total- Mar	1,092.64348	1,098.83008	-6.18685	197.78994	196.60125	-	1.18869
2023-24	37,472.99638	37,618.02217	-145.02836	4,991.53775	4,465.63118	546.15583	-20.24925



Date	Scheduled Injection KWHEP	Actual Injection KWHEP	UI_Units	Entitlement (GoHP)	Scheduled Injection IEX (GoHP)	Scheduled Bilateral (GoHP)	Differential GoHP Portion
03-03-24	29.63770	29.36117	0.27652	5.28500	5.33300	-	-0.04800
Sub total	88.91310	89.07840	-0.16542	16.03414	15.99900	-	0.03514
Week 49							
04-03-24	29.63770	29.72836	-0.09066	5.35114	5.33300	-	0.01814
05-03-24	29.63770	29.76196	-0.12428	5.35716	5.33300	-	0.02416
06-03-24	28.38315	28.02285	0.36030	5.04413	5.33300	-	-0.28887
07-03-24	28.40780	28.42146	-0.01368	5.11583	5.33300	-	-0.21717
08-03-24	29.66635	29.61230	0.05402	5.33024	5.33800	-	-0.00776
09-03-24	29.66635	29.19077	0.47558	5.25436	5.33800	-	-0.08364
10-03-24	29.63770	29.77092	-0.13315	5.35877	5.33300	-	0.02577
Sub total	205.03675	204.50861	0.52813	36.81163	37.34100	-	-0.52937
Week 50							
11-03-24	41.12833	42.48720	-1.35886	7.64771	7.40125	-	0.24646
12-03-24	33.19493	33.49223	-0.29737	6.02863	5.97350	-	0.05513
13-03-24	36.42713	37.50001	-1.07282	6.75001	6.61325	-	0.13676
14-03-24	33.19493	33.40931	-0.21434	6.01369	5.97350	-	0.04019
15-03-24	38.91740	39.57775	-0.66041	7.12403	7.00300	-	0.12103
16-03-24	36.75123	36.96765	-0.21645	6.65423	6.61325	-	0.04098
17-03-24	33.19503	32.85687	0.33813	5.91431	5.97350	-	-0.05919
Sub total	252.80895	256.29103	-3.48212	46.13261	45.55125	-	0.58136
Week 51							
18-03-24	33.19490	33.48525	-0.29037	6.02734	5.97350	-	0.05384
19-03-24	34.38103	34.31454	0.06654	6.17667	6.18725	-	-0.01058
20-03-24	33.19515	32.82852	0.36664	5.90914	5.97350	-	-0.06436
21-03-24	34.38045	34.69047	-0.31003	6.24431	6.18675	-	0.05756
22-03-24	36.19558	36.48415	-0.28859	6.56718	6.51400	-	0.05318
23-03-24	40.34660	41.48313	-1.13657	7.46702	7.36975	-	0.09727
24-03-24	40.36650	40.54756	-0.18113	7.29858	7.26325	-	0.03533
Sub total	252.06020	253.83361	-1.77351	45.69024	45.46800	-	0.22224
Week 52							
25-03-24	35.56490	35.65550	-0.09059	6.41799	6.39925	-	0.01874
26-03-24	35.56490	36.03207	-0.46721	6.48577	6.39925	-	0.08652
27-03-24	39.86500	39.94582	-0.08080	7.19026	7.17325	-	0.01701
28-03-24	40.30608	40.50371	-0.19765	7.29067	7.25175	-	0.03892
29-03-24	44.82253	45.04364	-0.22108	8.10788	7.43775	-	0.67013
30-03-24	45.28058	45.28386	-0.00328	8.15112	8.14775	-	0.00337
31-03-24	52.42050	52.65382	-0.23332	9.47763	9.43300	-	0.04463
Sub total	293.82448	295.11843	-1.29393	53.12132	52.24200	-	0.87932
Total- Mar	1,092.64348	1,098.83008	-6.18685	197.78994	196.60125	-	1.18869
2023-24	37,472.99638	37,618.02217	-145.02836	4,991.53775	4,465.63118	546.15583	-20.24925



Annexure

Re: Reply by Mausam Kendra Shimla.

Mausam Kendra Shimla <metcentresml@gmail.com>

Wed 26/06/2024 14:17

To: Anurag Agarwal <agarwal.anurag@jsw.in>

📎 2 attachments (819 KB)

To Sh Anurag Agarwal G.M JSW Energy commercial purpose.docx; Kalpa & Wangtoo.xlsx;

Sir,

With respect to your e-mail kindly find required rainfall/snowfall in an attachment. Kindly acknowledge the receipt of the same

With regards,

Ramesh Chand, Meteorologist-B
For Head/Scientist-F
Met Centre Shimla

On Tue, Jun 25, 2024 at 5:49 PM Anurag Agarwal <agarwal.anurag@jsw.in> wrote:

Dear Ramesh Chand ji

PFA signed declaration form along with payment receipts of data cost and GST.

Kindly arrange to send us the rain fall data and snowfall data for the period 2019 to 2024 for Kalpa and Wangtoo stations of IMD.

Regards

Anurag Agarwal
9004046998

From: Kanwar Bhanu Uday <kanwar.bhanu@jsw.in>

Sent: 25 June 2024 16:45

To: Anurag Agarwal <agarwal.anurag@jsw.in>

Cc: Gyan Kumar <gyan.kumar@jsw.in>; Kaushik Maulik <kaushik.maulik@jsw.in>; Rajender Kumar Pirta, <rajender.pirta@jsw.in>

Subject: Reply by Mausam Kendra Shimla.

Dear Sir,

Please see the trailing email and attached documents received from Mausam Kendra, Shimla.

Warm Regards

Kanwar Bhanu Uday Singh

Get [Outlook for Android](#)

From: Mausam Kendra Shimla <metcentresml@gmail.com>

Sent: Tuesday, June 25, 2024 4:38:57 PM

To: Kanwar Bhanu Uday <kanwar.bhanu@jsw.in>

Subject: Re: Request for rainfall and snowfall data of Kinnaur for FY2019-2024.

महोदय/महोदया,



भारत सरकार
 भारत मौसम विज्ञान विभाग
 मौसम केंद्र
 दूसरी मंजिल, क्लेयरमार्ट बिल्डिंग
 चौडा मैदान, शिमला-171004
 दूरभाष :- 0177-2654724
 फैक्स :- 0177-2654211 ईमेल:-



Govt of India
 Ministry of Earth Sciences
 India Meteorological Department
 Meteorological Centre
 Sibra House, Cliff-end Estate, SHIMLA - 171 004
 Phone : 0177-2628211, 0177-2624878
 Fax : 0177-2628211
 E-Mail: metcentre@rediffmail.com

metcentre@rediffmail.com

मौसम केंद्र शिमला आश्वासन सं- TS (Data Supply)/

दिनांक- 26-06-2024

सेवा में,
 Sh. Anurag Agarwal, General Manager
 JSW Hydro Energy Ltd 4th floor NTH complex, A-2,
 Shaheed Jeeb Singh Marg, Qutab Institutional Area
 New Delhi-110067.

विषय:- आपके द्वारा मान गए मौसम के आंकड़े।

संदर्भ:- पत्र संख्या- 10-06-2024

महोदय, [Redacted Name]

मौसम के आंकड़ों की सप्लाई हेतु हम कार्यालय द्वारा आपको भेज गए संबंधित estimate के अनुसार हम कार्यालय को आपके द्वारा किया गया निम्नलिखित भुगतान प्राप्त हुआ है :-

Item	Details (Amount / Date/ Ref. No.)
Bharatkosh receipt	Rs. 4420/- on dt 25-06-2024 Transaction ref no 2506240045713
GST on line on Data Cost	Rs. 796/- on dt 25-06-2024 CPIN: 24060700292776

उपरोक्त भुगतान एक आवश्यक Certificate of Undertaking प्राप्त होने के उपरोक्त आंकड़ों निम्नलिखित मौसम के आंकड़े व्यवसायिक उद्देश्य हेतु उपयोग करवाए जा रहे हैं-
 कक्षा श्रील कॉन्ट्रैक्ट के मासिक बर्षों के आंकड़े अप्रैल 2019 से मार्च 2024

अंकित हम पत्र के साथ संलग्न है।

प्रत्युत्तर।

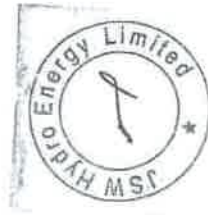
(रमेश चंद)
 सी. वि.- बी
 कृते प्रमुख/ वैज्ञानिक 'एफ'



KALPA RF(mm)							
Month	2019	2020	2021	2022	2023	2024	
Jan	131.0	168.4	106.6	134.4	76.2	1.0	
Feb	180.2	15.4	21.4	69.2	36.2	53.3	
March	124.4	124.2	65.2	11.6	35.2	153.4	
April	18.7	58.2	153.4	14.6	105.4	85.9	
May	79.7	25.4	86.6	39.7	77.8	10.2	
June	64.6	19.6	38.2	11.0	30.2		
July	27.6	44.9	62.0	54.2	191.6		
Aug	91.0	21.4	48.4	46.4	15.3		
Sep	19.0	2.4	97.8	94.8	13.8		
Oct	21.0	0.0	86.0	14.8	7.2		
Nov	99.2	74.4	0.0	9.7	7.6		
Dec	40.5	8.3	34.8	5.2	0.2		

WANGTOO RF(mm)							
Month	2019	2020	2021	2022	2023	2024	
Jan	102.8	186.0	49.0	133.0	93.9	0.0	
Feb	183.8	0.0	16.6	74.2	57.2	102.5	
March	68.0	133.7	98.8	0.0	70.2	90.2	
April	26.6	61.4	180.8	40.0	153.0	82.2	
May	51.4	44.2	74.6	81.8	92.2	3.0	
June	32.8	46.0	90.2	34.0	114.0		
July	81.2	150.2	161.0	225.4	315.2		
Aug	97.8	101.6	96.9	129.6	120.6		
Sep	32.0	18.2	133.4	131.8	25.0		
Oct	15.0	0.0	75.0	29.8	29.6		
Nov	67.2	63.0	0.0	21.6	7.6		
Dec	38.0	22.0	21.6	11.8	0.0		

Snowfall kalpa							
Month	2019	2020	2021	2022	2023	2024	
Jan	131.8	168.4	106.2	134.4	76.3	1.0	
Feb	161.0	15.4	17.4	69.2	34.4	53.3	
March	92.7	74.2	20.4	10.0	11.1	120.5	
April	0.0	7.4	80.8	0.0	4.4	0.0	
May	0.0	0.0	0.0	0.0	4.0		
Oct	0.0	0.0	0.2	0.0	0.0		
Nov	50.0	64.6	0.0	2.3	0.0		
Dec	40.5	8.9	23.6	5.2	0.2		



JSW Hydro Energy Limited (Karcham Wangtoo HEP 1045 MW)

Planned outages of units at Karcham Wangtoo HEP for annual maintenance during FY 2023-24

1. Regarding planned / forced machine outage data in respect of KWHEP, the petitioner had requested M/s NRLDC vide its letter dated 6 6 2019 for certification of planned / forced machine outages during the FY 2023-24. In response to our letter, NRLDC vide its letter dated 13 6 2019, had intimated that it publishes various reports on its website in accordance with various provisions of CERC (IEGC) Regulations 2010 and subsequent amendments thereof. Further they advised that there is neither any regulation nor any procedure in vogue for certification of planned /forced outages of generating stations by RLDCs. They also clarified that NRLDC does not certify any desired data for specific purposes.

2. Based on the information available at & extracted from NRLDC website and other information which were not updated by NRLDC on its website, details in respect of planned / forced outage of machine of KWHEP is submitted herewith.

Sl. No	Request by	Element Owner	Element Type	Element Name	Mode	Reason	Outage Request			Total Hours	SLDC Comment	NRLDC Comment	NLDC Comment	Owner Comment	OCC Comment	Status	Last OCC Number
							From Date	From Time	To Time								
Report for Outage Approval by OCC meeting no. 215																	
1	JSW	JSW	GENCO	Karcham Wangtoo-U/2/261.25	CONTINUOUS	Annual Maintenance of Unit-2	14/02/2024	00:00	28/02/2024 23:59	359:59	--	--	--	--	APPROVED	APPROVED	--
Report for Outage Approval by OCC meeting no. 216																	
1	JSW	JSW	GENCO	Karcham Wangtoo-U/1/261.25	CONTINUOUS	Annual maintenance of Unit-1	03-01-2024	00:00	15/2/2024 23:59	359:59	--	--	--	--	APPROVED	APPROVED	--

Actual Outage of Units at Karcham Wangtoo HEP for annual maintenance

1	JSW	JSW	GENCO	Karcham Wangtoo-U 4/261.25	CONTINUOUS	Annual Maintenance of Unit-4	28/10/2023	00:00	13/11/2023 19:10	403:10	--	--	--	--	N/A	N/A	--
2	JSW	JSW	GENCO	Karcham Wangtoo-U 1/261.25	CONTINUOUS	Annual Maintenance of Unit-1	16/02/2024	00:00	27/02/2024 21:09	285:09	--	--	--	--	N/A	N/A	--
3	JSW	JSW	GENCO	Karcham Wangtoo-U 2/261.25	CONTINUOUS	Annual Maintenance of Unit-2	03-11-2024	00:00	24/03/2024 11:40	323:40	--	--	--	--	N/A	N/A	--



JSW Hydro Energy Limited (Karcham Waugtoo HEP 1045 MW)
Shutdown of units at Karcham Waugtoo due to tripping in FY 2023-24

Date	Name of P.H./S.S	CB No./Line/ Unit Tripped	System	Reason (External/Internal)	Flags/annunciation control/ Relay Panel	Settings of applicable Relays	Observation/Analysis	Action taken	Generation Loss (MWh)	Remarks
20.06.2023 19:12 Hrs to 21:03 Hrs	KWHEP	Unit-1	Excitation system	Internal	Excitation temp	-	Excitation transformer RTD get malfunctioned and MIV service seal failed to engage properly, due to which unit could not come to standstill position.	Excitation transformer RTD replaced with new one, and service seal engaged by providing the external pressure to achieve the standstill condition of unit	504	Unit down time 01:51 Hrs
05.07.2023 08:08 Hrs to 09:48 Hrs	KWHEP	Unit-4	Generator	Internal	100% stator earth fault	-	100% stator earth fault. IR value of W phase PT checked & found failure.	W- phase PT replace with new one.	478	Unit down time 01:40 Hrs
06.07.2023 07:40 Hrs to 08:30 Hrs	KWHEP	Unit-1	Generator	Internal	100% stator earth fault	-	100% stator earth fault. IR value of W phase PT checked & found failure.	W- phase PT replace with new one.	240	Unit down time 00:50 Hrs
14.07.2023 00:01 Hrs to 01:45 Hrs	KWHEP	Unit-1	DYG	Internal	Shaft seal RTD signal error	-	Malfunction of shaft seal RTD	RTD replaced with new one.	500	Unit down time 01:44 Hrs
27.07.2023 17:45 Hrs to 18:03 Hrs		Unit-3								Unit down time 00:18 Hrs
27.07.2023 18:12 Hrs to 18:32 Hrs	KWHEP	Unit-3	DYG	Internal	DTG emergency shutdown active DTG QSD active	-	Accumulator Nitrogen pressure high	Reset DTG & MIV	255	Unit down time 00:20 Hrs
27.07.2023 20:53 Hrs to 21:10 Hrs		Unit-3								Unit down time 00:17 Hrs
28.07.2023 01:07 Hrs to 01:35 Hrs	KWHEP	Unit-3	DYG	Internal	DTG emergency shutdown active DTG QSD active.	-	Accumulator Nitrogen pressure high	Checked all hydraulic circuit and released nitrogen pressure from accumulator (135-128)	230	Unit down time 00:48 Hrs
12.08.2023 22:43 Hrs to 23:30 Hrs	KWHEP	Unit-3	Generator	Internal	U3 Excitation trip	-	Mal functioning of Excitation Transformer RTD	RTD replaced with new one	217	Unit down time 00:47 Hrs
27.08.2023 13:15 Hrs to 15:04 Hrs	KWHEP	Unit-4	Unit Protection	Internal	U4 Prot. CB TC-1 faulty	-	Trip circuit-1 Y-phase Relay burnt	Replaced with new one	228	Unit down time 01:49 Hrs
28.08.2023 04:05 Hrs to 04:40 Hrs	KWHEP	Unit-4	MIV control system	Internal	U4 MIV control system Disturbed	-	Wicket gate position sensor disturbed from its position.	Reset DTG & MIV	169	Unit down time 00:35 Hrs
29.08.2023 15:51 Hrs to 17:03 Hrs	KWHEP	Unit-1	Turbine	Internal	U1 DTG Level Head Cover Overflow	-	Excessive leakage from Stud of face plate in turbine pit causing overflow sensor operation	Stud leakage area plugged with wooden piece	90	Unit down time 01:12 Hrs
10.09.2023 19:15 Hrs to 20:02 Hrs	KWHEP	Unit-2	BFV	Internal	BFV watchdog alarm	-	Unit-2 not able to synchronized due to BFV watchdog active.	Reset BFV watchdog alarm	110	Unit down time 00:47 Hrs
24.10.2023 06:15 Hrs to 09:15 Hrs	KWHEP	Unit-4	MIV	Internal	QSD, ESD activated	-	Accumulator pressure drain while putting the machine into standstill, MIV not fully closed. Penstock pressure got drained.	Service seal removed by giving external pressure. MIV fully closed and filling the penstock.	0	Unit down time 03:00 Hrs
27.10.2023 18:15 Hrs to 20:00 Hrs	KWHEP	Unit-4	MIV	Internal	QSD, ESD activated	-	Accumulator pressure drain while putting the machine into standstill, the MIV not fully closed. Penstock pressure got drained.	MIV service seal found damaged and maintenance seal not able to engaged	0	Unit down time 01:45 Hrs (After the management's decision, at 20:00 Hrs the machine has been put into the annual maintenance)
Total									3021	MWh





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Generation at hydel projects drops by 85% in rain-deficit Himachal

By Gaurav Bisht, Shimla

Jan 20, 2024 08:50 AM IST

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MeT dept says the state has got lowest rainfall in January in over a century, sparking concerns of energy security as power generation drops from 160 lakh million units to 110 lakh units

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The prolonged dry spell this winter has led to an 85% fall in power production in Himachal Pradesh.

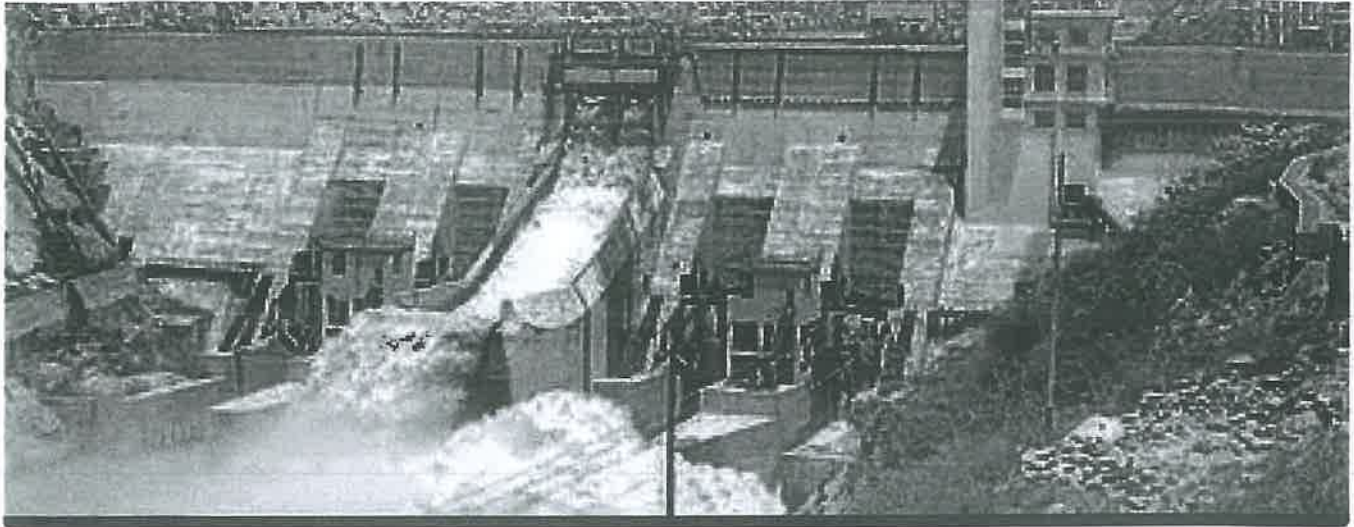




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Power production in winter usually declines to 40% in Himachal. (HR File)

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“With a rain deficit of 99.7% so far in January, there has been a significant reduction in water levels in the state’s five perennial river basins, Chenab, Ravi, Sutlej, Yamuna and Beas, adversely affecting generation in all power projects,” said principal secretary (power) Bharat Khera. He added that there was no need to panic as Himachal was buying electricity from other states.

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power production in winter usually declines to 40% in all river projects, but this time
generation has dropped by 90% in the 1,500MW Nathpa Jhakri hydel plant, the largest
underground hydropower project in the country. At present, only one of its six turbines is
operational.

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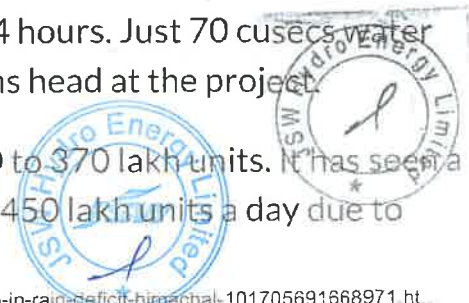
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Abhay Deol makes
'controversial'

Built on the Sutlej River, the Nathpa Jhakri project is run by the Sutlej Jal Vidyut Nigam Limited (SJVNL) and is a major contributor to the northern grid to meet energy requirements of Punjab, Haryana, Rajasthan, Uttar Pradesh, Chandigarh and Delhi. The water flow in the Sutlej has fallen to 70 cusecs.

"We require 450 cusecs water flow to run the turbines 24 hours. Just 70 cusecs water fulfills need to run one unit," said Manoj Kumar, operations head at the project.

Himachal's daily electricity requirement ranges from 360 to 370 lakh units. It has seen a sharp drop in generation from 2,500 lakh units to a mere 450 lakh units a day due to





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To meet its power requirements, the hill state buys 25 to 30 lakh units daily from the open market every winter. Additionally, it relies on Punjab for 200 lakh units daily as a banking measure. In the banking measure, Himachal supplies electricity to other states, and instead of accepting monetary payment, it takes back the power to meet its deficit in winter months.

Energy security concerns

The Nathpa Jhakri project management attributes the decline in water level in the Sutlej to heavy silting since August, when floods struck the state. They said the situation had worsened since November last year, and the current situation is similar to that of 2006-07, raising concerns about the state's energy security.

"If the situation persists, the power deficit could have far-reaching consequences. There is a critical need for a weather turnaround," said Suneel Grover, a former manager of the State Load Dispatch Centre.

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“As of now, there are no power cuts and the situation is normal,” said BDM Industries chief executive officer Atharva Chadha. The unit is located in Una.

Record low rain, says IMD

The India Meteorological Department (IMD), Shimla, director Surender Paul said dry weather is expected to continue till January 24, while cold wave and ground frost conditions are expected to persist in Una, Kangra, Bilaspur, and Mandi till January 20. Specific locations, including Bilaspur, Una, Nupur, Paonta Sahib, Dhaula Kuandh, Baddi, and Nalagarh, may experience dense fog in the mornings over the next two days.

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“According to IMD records, a similar drought-like situation was witnessed in Jan. 1901. The consequences of this weather extremity are far-reaching,” he said. The meteorological department has compiled a list of top 10 years with the least rainfall in January since 1901. According that, January 2024 stands out with a significant 99.7% deviation from the historical average. Other notable years include 1966 with 99.6% less rainfall, 1902 with 98.5%, 1986 with 92.4%, 2007 with 91.4% 2018 with 90.5%, 1916 with 87.8%, 1936 with 86.5%, 1963 with 83.5%, 1998 with 83.5% and 1914 with 83.4% less rainfall.

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Himachal Pradesh Rainfall



News / Cities / Chandigarh / Generation at hydel projects drops by 85% in rain-deficit Himachal

Water flow in Sulej low, power generation hit

Tilwani . 18.1.24

RAMPUR, JANUARY 17

Hydropower generation in run-of-the-river projects in Himachal Pradesh has been severely affected following a record fall in the water flow of the perennial Sulej due to an exceptionally dry winter.

The extreme weather conditions prevailing in the Himalayan regions have dramatically depleted the water flow in the Sulej, shrinking it to one seventeenth, and bringing down electricity generation at the 1,500 MW Nathpa Jhakri hydropower project to a record low.

"The wintry drought in Himachal Pradesh has caused a water discharge crunch in the Sulej. During peak months of July and August, an average water volume reads 1,200 cumecs, which has, nowadays, shrunk to a meager 70 cumecs only," said Manoj Kumar, Executive Director of SJVNL, which runs the 1,500 MW hydropower project built on the Sulej in Shimla and Kinnaur districts. The highest fall in the water flow of the Sulej now had been registered after 17 years, he added.

Manoj said that electricity generation in the Nathpa Jhakri hydropower project had fallen to below six million units, less than one sixth of the peak season production that touches 39 million units during the summer. — OC



हिमाचल में सूखे की मार : नदियों में घटा जलस्तर, 85 फीसदी तक गिर गया बिजली परियोजनाओं में उत्पादन

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सार

शिमला

बीते लंबे समय से बारिश और बर्फबारी नहीं होने से नदियों में घटे जलस्तर के कारण बिजली परियोजनाओं में उत्पादन मात्र 15 फीसदी तक ही हो रहा है।



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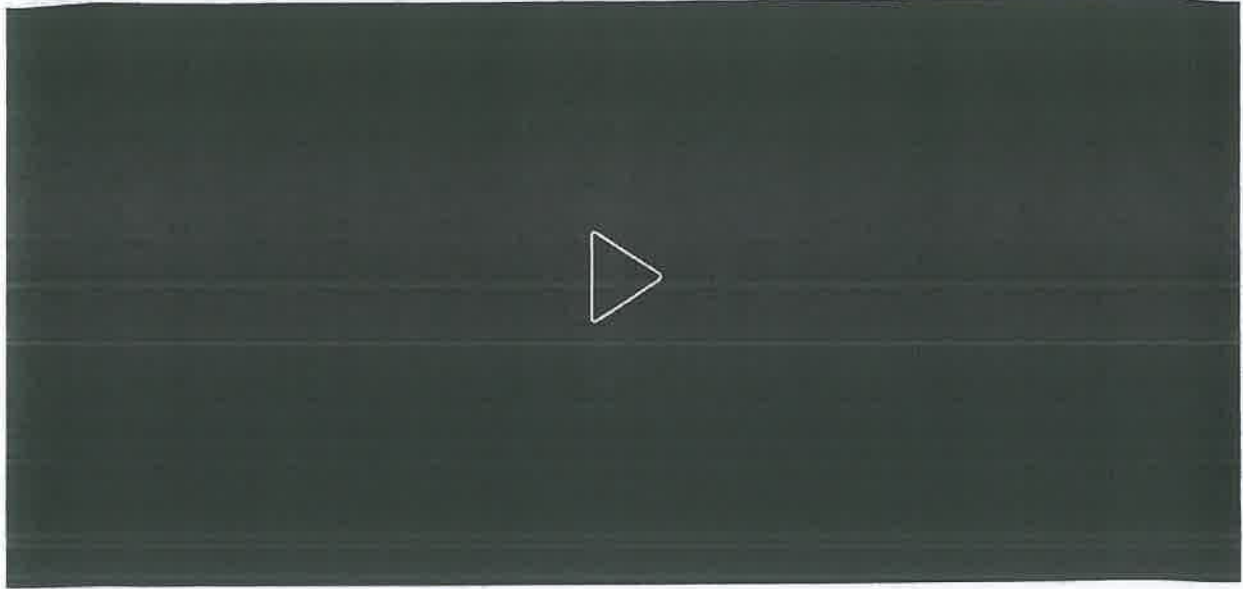
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सूखे की मार झेल रहे हिमाचल प्रदेश में बिजली उत्पादन 85 फीसदी तक घट गया है। बीते लंबे समय से बारिश और बर्फबारी नहीं होने से नदियों में घटे जलस्तर के कारण बिजली परियोजनाओं में उत्पादन मात्र 15 फीसदी तक ही हो रहा है। इस सीजन के दौरान आमतौर पर प्रदेश में बिजली उत्पादन 40 फीसदी तक होता रहा है। देश की सबसे बड़ी भूमिगत 1,500 मेगावाट की जलविद्युत परियोजना नाथपा झाकड़ी में 90 फीसदी तक बिजली उत्पादन गिरने से उत्तर भारत के नौ राज्यों में बिजली संकट गहराने के आसार बन गए हैं।

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इस परियोजना की छह में से एक ही टरबाइन चल रही है। यह परियोजना सतलुज नदी पर बनी है और नदी में 70 क्यूमैक्स तक पानी का बहाव गिर गया है। इस परियोजना में ऐसे हालात करीब 17 वर्ष पूर्व बने थे। प्रदेश में अभी रोजाना 360 से 370 लाख यूनिट बिजली की आवश्यकता है। प्रदेश में बिजली उत्पादन 2,500 लाख यूनिट से गिरकर 450 लाख यूनिट तक पहुंच गया है। 450 लाख यूनिट में से निजी बिजली कंपनियां और भारत सरकार के उपक्रम काफी यूनिट बिजली को उत्तरी ग्रिड में बेच भी रहे हैं।

विज्ञापन



प्रदेश में अभी पंजाब से रोजाना 200 लाख यूनिट बिजली बैंकिंग के तौर पर ली जा रही है। इसके अलावा प्रदेश के अपने उत्पादन से बिजली सप्लाई लेकर काम चलाया जा रहा है। रोजाना 25 से 30 लाख यूनिट बिजली की खरीद भी ओपन मार्केट से करनी पड़ रही है। जल्द ही अगर बारिश और बर्फबारी नहीं हुई तो प्रदेश को बाजार से और अधिक बिजली की खरीद शुरू करनी पड़ेगी। लघु

सतलुज नदी में जितना पानी आ रहा है, उससे छह में से केवल एक टरबाइन ही काम कर पा रही है।

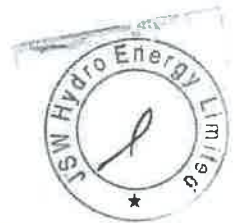
इस तरह 360 लाख यूनिट रोजाना बिजली पैदा करने वाली परियोजना अभी 60 लाख यूनिट बिजली ही रोजाना तैयार कर रही है। यदि बारिश और बर्फबारी न होने का सिलसिला लंबा चला तो आने वाले समय में बिजली संकट की समस्या हो सकती है। इसका सबसे अधिक असर उत्तर भारत के नौ राज्यों हरियाणा, जम्मू-कश्मीर, पंजाब, राजस्थान, उत्तर प्रदेश, उत्तराखंड, चंडीगढ़, दिल्ली और हिमाचल प्रदेश में होगा।

परियोजना प्रबंधन के अनुसार बीते अगस्त से नदी में पानी का स्तर कम चल रहा है, जबकि नवंबर से स्थिति और भी खराब हो गई है। परियोजना में इस तरह की स्थिति वर्ष 2006-07 में बनी थी। यही नहीं, यहां साथ लगती सतलुज जल विद्युत निगम लिमिटेड (एसजेवीएनएल) की 412 मेगावाट की रामपुर परियोजना में भी बिजली उत्पादन गिर गया है। इस परियोजना के लिए भी पानी की सप्लाई नाथपा झाकड़ी परियोजना के पानी से ही होती है। रामपुर उपमंडल में एक दर्जन के करीब छोटी परियोजनाओं में भी पानी की कमी से विद्युत उत्पादन गिरा है।

बारिश-बर्फबारी न होने के कारण सतलुज में पानी का स्तर 70 क्यूमैक्स तक रह गया है, जो परियोजना की सभी छह टरबाइनों को घुमाने लिए नाकाफी है। यदि स्थिति ऐसी ही बनी रही तो आने वाले दिनों में बिजली संकट की समस्या हो सकती है। - मनोज कुमार, परियोजना प्रमुख, एसजेवीएन, नाथपा झाकड़ी

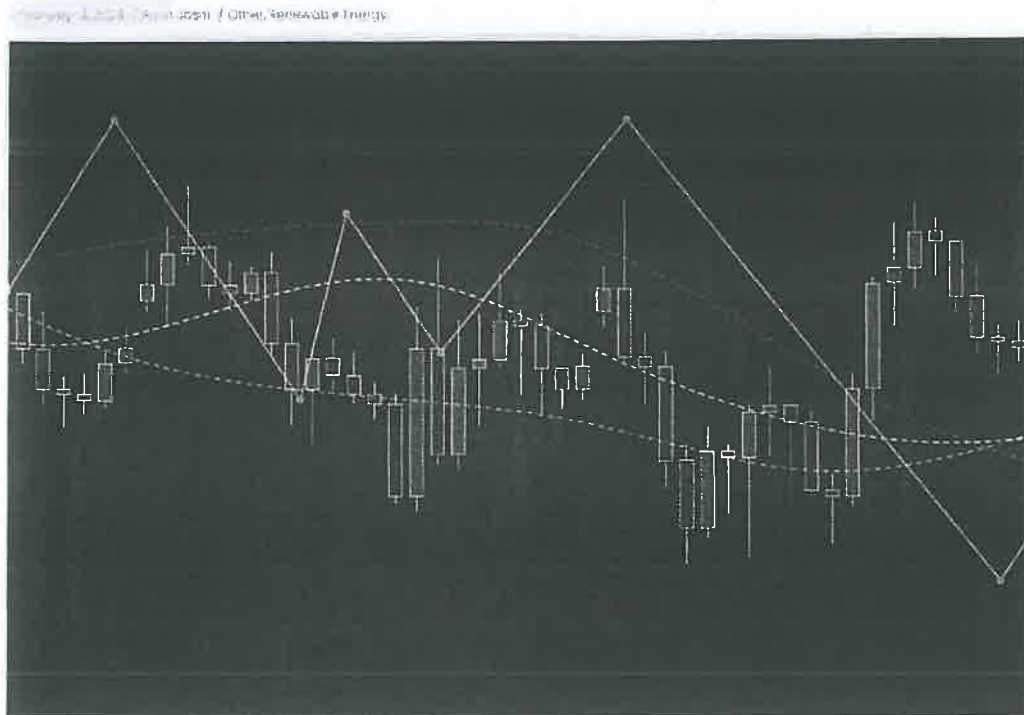
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SJVN's Q3 Net Profit Plunges 52% as Hydropower Generation Drops

SJVN generated 1206.97 MU of hydropower during the quarter



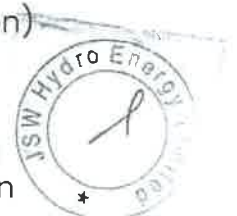
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SJVN has recorded a net profit of ₹1.39 billion (~\$16.74 million) during the third quarter (Q3) of the financial year (FY) 2023-24, a year-over-year (YoY) decrease of 51.6% from ₹2.87 billion (~\$34.57 million).

The fall in profits was mainly due to less generation from SJVN's two main hydropower projects, which decreased by 13.36% and 12.79%, respectively. This was mainly due to low precipitation in the catchment areas and, subsequently, low discharge in the Sutlej River.

The company recorded a revenue of ₹6.08 billion (~\$73.25 million) during Q3 FY24, a 14.5% YoY decrease from ₹7.11 billion (~\$85.66 million).

The company saw its expense increase by 7% YoY to ₹4.09 billion (~\$49.27 million) during the quarter.





1,512 MW in the state. The government issued a water cess bill amounting to ₹2.46 billion (~\$29.63 million).

However, the Ministry of Power has categorically deemed this imposition illegal and unconstitutional. In response, it advised states against imposing any taxes or duties that contravene constitutional provisions, urging the withdrawal of such measures.

SJVN generated 1,206.97 million units (MU) of hydropower during the quarter compared to 1,376.83 MU a year ago. The company generated 35.28 MU of solar and 18.29 MU of wind during the period.

9M FY 2024

SJVN recorded a profit of ₹8.5 billion (~\$102.4 million) during the first nine months (9M) of FY24, a YoY decrease of 37% compared to ₹13.42 billion (~\$161.68 million).

The revenue for the April–December period was ₹23.04 billion (~\$277.59 million), a YoY decrease of 15% from ₹27 billion (~\$325.3 million).

SJVN generated 7,355.43 MU of hydropower during 9M FY 2024 compared to 8,331.9 MU a year ago. The company generated 121.16 MU of solar and 130.43 MU of wind during the period.

In a first-of-its-kind transaction undertaken by a public sector undertaking, SJVN secured ₹100 billion (~\$1.2 billion) construction financing facility to fund its upcoming renewable energy projects. The financing was raised by Deutsche Bank, State Bank of India, Punjab National Bank, Bank of India and, Mitsubishi and United Financial of Japan Financial Group Bank.

Last September, the government announced its plan to divest up to 4.92% of its stake in the state-owned power company SJVN through an Offer for Sale (OFS). The floor price for this stake was set at ₹69 (~\$0.83)/share. This OFS involves the government's sale of a base offer comprising 2.46% of the company's equity, with an additional 2.46% retained as an oversubscription option.

In April last year, the Ministry of New and Renewable Energy designated SJVN as the implementing agency responsible for floating tenders for renewable energy projects. It will also act as the intermediary procurer of power. SJVN will work with other

