



WASTE WATER POLICY

WASTE WATER MANAGEMENT POLICY

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PREFACE

As part of our efforts to deliver our Sustainability Vision, we at JSW Energy Limited ('JSW') have established this Policy to demonstrate our commitment to the prevention, effective treatment and safe, responsible disposal of waste water.

Background of the Issue

The impacts of industrial waste water can be many and varied, depending on what pollutants are present in the water, the quantities involved and the nature and means of how the waste water makes its way back into the wider environment. Harmful pollutants* in waste water discharged from industrial premises have, for decades, been directly linked to incidents of both acute and chronic ill health amongst local populations and there is now widespread recognition that poorly managed waste water discharges have resulted in serious ground contamination, adversely affecting crops, livestock and livelihoods, across many countries of the world.

How it Relates to JSW

As one of India's leading power producers, all of our sites and activities produce waste water. Some of this waste can contain different substances which, if released directly into local watercourses without any form of treatment, could pollute those watercourses and result in health issues and unwanted environmental impacts. Whilst we have always sought to manage all our waste water discharges and disposal activities within any relevant regulatory framework relating to waste water management and disposal, we recognise that we have a moral and social need to do much more.

In pursuance of our stated commitments to prevent, effectively treat and safely dispose off waste water, we have adopted a number of aims towards which we will strive. These aims are supported by a range of actions and improvements through which they are to be achieved.

We aim to gain a full and detailed understanding of the nature, scale and impacts of all waste water produced at our sites.

To do this we will:

- Undertake assessment of:
 - All the sources of waste water on all our sites to determine where the different waste waters are coming from;
 - The potential pollutants that each waste water stream may contain;
 - All treatment mechanisms employed at our sites, including an evaluation of their effectiveness at removing pollutants;
 - Places, if any, where our sites discharge or dispose of waste water into the wider environment;
 - The nature and scale of the 'receiving waters'** in terms of their susceptibility to the impacts of pollution, engaging with local stakeholders whilst doing so.
- Develop programmes to:
 - Prevent or minimise the creation of waste water in the first place through improved efficiency, the use of new technologies, changes in processes;
 - Use technology and innovation to improve the means by which waste water is treated on our sites, thereby improving the quality of any waste water that is eventually discharged;
 - Eliminate or minimise any potential impacts associated with the discharge of waste water from our sites into the wider environment through innovative technologies, changes in infrastructure, etc.;
- Monitor, on regular basis, both the quantities of waste water we produce and discharge/dispose of, and the quantities of pollutants within that waste water to see how we are progressing, reporting on this in our annual reports.

In the meantime:

We aim to continue our current efforts to prevent or minimise the amount of waste water we produce and reuse or recycle that waste water we cannot avoid.

To do this we will continue to:

- Exploit existing opportunities to prevent and minimise the creation of waste water on our sites;
- Exploit existing opportunities to reuse and recycle waste water within our processes;
- Educate our employees about the causes and impacts of waste water so they can, with our help, minimise their own impacts both at work and, if possible, at home;
- Support research into and development of new and innovative technologies within our industries that will contribute to reductions in waste water at our sites.

We also aim to continue our current efforts to reduce the potential impact of our waste water discharges and disposal activities through effectively treating and responsibly disposing off the waste water we cannot avoid.

To do this we will continue to:

- Exploit existing opportunities to improve the efficiency and effectiveness of waste water treatment activities on our sites;
- Dispose off the waste water, if any, in a safe and responsible manner, closely monitoring the quantity and quality of our discharges to ensure pre-defined limits are not exceeded;
- Exploit existing opportunities to reduce any adverse impacts our discharges may have on 'receiving waters'** through new technologies and changes in infrastructure.

We aim to promote waste water prevention, effective treatment and responsible disposal across all our suppliers and business partners.

To do this we will:

- Define and openly share in a Code of Practice the minimum expectations we have of our suppliers and business partners in relation to waste water prevention, treatment and disposal;
- Evaluate suppliers & partners for their attitude, risk profile and performance towards sustainability & waste water prevention
- Encourage those suppliers and business partners whose attitudes and performance most closely matches our own aims and aspirations.

We will continue to be fully committed to our statutory and voluntary obligations relating to waste water.

These include:

- All local and national statutory regulations relating to waste water prevention, effective treatment and responsible disposal;
- Reporting of our performance on the issue of waste through GRI (Global Reporting Initiative) and against the United Nation's Sustainable Development Goals.

We will prohibit the discharge of any untreated waste water to any receiving water from any of our sites.**

The achievement of our aims, the delivery of the improvements to achieve these aims, and the fulfilling of our compliance obligations, will all be managed through the Sustainability Framework that JSW Energy is committed to implement and maintain across all our sites.

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**SHARAD MAHENDRA
JMD & CEO
JSW ENERGY LIMITED**

* Harmful pollutants that can be present in industrial waste water include suspended solids, nutrients (nitrogen, phosphate), heavy metals (lead, mercury), oils, chemical compounds.

** Receiving waters can be defined as a river, lake, ocean, stream or other watercourse into which wastewater or treated effluent is discharged.