

Ref: CSPPL/EXP./ENV/2024-25/102

16 Jan 24

To,

The Integrated Regional Office (IRO),  
Ministry of Environment, Forests & Climate Change,  
Govt. Of India  
Aranya Bhawan, North Block,  
Sector-19, Atal Nagar  
Naya Raipur (C.G.) - 492002

Sub.:- Submission of 6 Monthly compliance reports pertaining to the Environmental Clearance of our proposed expansion of Steel Plant.

Ref.:- Environmental Clearance issued by Ministry of Environment vide Letter No. J-11011/753/2008-IA(i) dated 27.08.2010.

Respected Sir,

As informed earlier, we wish to state that against our above Environmental Clearance issued by the Honorable Ministry of Environment and Forest, Government of India, New Delhi, our project was in under NCLT & Construction was stopped by earlier management due to some delayed financial arrangements. Presently the plant is taken over by new management through NCLT. We are submitting herewith the Compliance Report from July to Dec 23 as follows: -

1. Point wise compliance status is enclosed as **Annexure – 1**.
2. Present status of Project work is enclosed as **Annexure-2**.
3. The information required as per the Data Sheet is enclosed as **Annexure-3**.

We hope you will find the above in line with your requirement.

Thanking you,

Yours faithfully

For CREST STEEL & POWER PRIVATE LTD.,

  
B. Venkata Narayana

Chief Operating Officer

Encl : a/a.

Copy : The Member Secretary, CECB, Nava Raipur



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## Compliance status to the conditions stipulated vide Environmental Clearance

**Project** : Crest Steel & Power Private Limited  
 Village: Joratarai,  
 Post: Mangatta,  
 Tehsil and District: Rajnandgaon (C.G)

**Project Proponent** : Crest Steel & Power Private Limited

**Reference** : Ministry's Letter No.: J-11011/753/2008-IA II (I)  
 dated: 27.08.2010

### Specific Conditions :

Sr. No	Specific Condition	Compliance Status
1.	Compliance to all the specific and general conditions stipulated for the existing plant by the Central/State Government shall be ensured and regular reports submitted to the Ministry and its Regional Office at Bhopal.	: Yes
2.	Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted. On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz. Electrostatic precipitator (ESP), gas cleaning plant, bag filters etc. shall be provided to keep the emission levels below 50 mg/Nm <sup>3</sup> by installing energy efficient technology.	<p>: We have installed one new AAQMS in the plant &amp; connected to CPCB and CECB servers.</p> <p>AAQMS &amp; CEMS are installed &amp; connected to CPCB &amp; CECB servers.</p> <p>We have installed ESP's Bag filters to control source emission. All internal roads are concrete to minimize the fugitive emission to due to internal movement of heavy vehicles. The emission levels are maintained below 50 mg/nm<sup>3</sup>. Dust suppression is carried out by water sprinklers.</p> <p>Sufficient Air control devices Electrostatic precipitator (ESP) &amp; Bag Filters are installed. There are bag filters provided at various location for dedusting, the clean air is/will be emitted from these stacks. More stacks along with bag filter will be provided for the proposed expansion.</p> <p>Online monitoring system is installed and Display board is also installed to display the parameters.</p> <p>Regular monitoring of Ambient Air Quality is being carried out. The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 are maintained. <b>Monitoring Report for Oct. to Dec. 23 is enclosed.</b></p>

Sr. No	Specific Condition	Compliance Status
3.	As proposed, Electrostatic precipitator (ESP) shall be provided to WHRB, CFBC, DRI plants; fume extraction and dust cleaning system with bag filters shall be provided to the induction, electric arc and submerged electric arc furnaces to control particulate levels within 50 mg/Nm <sup>3</sup> . Dust extraction system with bag filters at material transfer points, crusher area, material handling area etc. shall be provided. Water sprinklers for dust suppression at unloading of raw material shall be provided.	: New management is assure you that we will install the Pollution Control equipment proposed in EIA Report & follow all the guidelines as stipulated by the Honorable CECB.
4.	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 <sup>th</sup> November, 2009 shall be followed.	: We have installed one new AAQMS in the plant & connected to CPCB and CECB servers.  AAQMS & CEMS are installed & connected to CPCB & CECB servers.  Online monitoring system is installed and Display board is also installed to display the parameters.  Regular monitoring of Ambient Air Quality is being carried out. The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 are maintained. <b>Monitoring Report for Oct. to Dec. 23 is enclosed.</b>
5.	Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines/Code of Practice issued by the CPCB shall be followed. New standards for the sponge iron plant issued by the Ministry vide G.S.R. 414 (E) dated 30 <sup>th</sup> May, 2008 should be followed.	: Gaseous emission levels including secondary fugitive emissions from all the sources is in under control within the latest permissible limits issued by the Ministry and regularly monitored.  <b>Monitoring Report for Oct. to Dec. 23 is enclosed.</b>
6.	Hot gases from DRI kiln shall be passed through Dust Settling Chamber (DSC) to remove coarse solids and After Burning Chamber (ABC) to burn CO completely and used in waste heat recovery boiler (WHRB). The gas then shall be cleaned in ESP before leaving out into the atmosphere through ID fan and stack.	: All the proposed Sponge Iron Kilns will be equipped with WHRB based boiler so as to harness the heat energy for power generation.  Flue gases from sponge iron kiln after passing DSC, ABC will pass through WHRB based boiler and thereafter cleaned gases will be went through ESP and stack.  All the aforesaid measures are already implemented in our existing sponge iron kiln and assure you that the same will be implemented in our proposed expansion too.

Sr. No	Specific Condition	Compliance Status
7.	<p>Efforts shall further be made to use maximum water from the rain water harvesting sources. Use of air-cooled condensers shall be explored and closed circuit cooling system shall be provided to reduce water consumption and water requirement shall be modified accordingly. All the effluent shall be treated and used for ash handling, dust suppression and green belt development. No effluent shall be discharged and 'zero' discharge shall be adopted. Sanitary sewage should be treated in septic tank followed by soak pit. The water consumption shall not exceed as per the standard prescribed for the steel plants.</p>	<p>: Rain water harvesting pond is constructed to collect &amp; utilization of water rain water.</p> <p>Closed circuit Air Cooled Condenser is proposed in expansion project to reduce the water consumption.</p> <p>Installation of closed cooling circuit is proposed.</p> <p>Treated effluent will be recycled for dust suppression, ash conditioning &amp; green belt development.</p> <p>We assure that we are maintaining ZERO discharge condition in our existing unit and the same will be implemented in proposed units too. The water consumption will not exceed as per the standard prescribed for the steel plants.</p>
8.	<p>Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir should be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.</p>	<p>: Agreed.</p>
9.	<p>Regular monitoring of influent and effluent surface, sub-surface and ground water (including chromite) should be ensured and treated wastewater should meet the norms prescribed by the State Pollution Control Board or described under the E (P) Act whichever are more stringent. Leachate study for the effluent generated and analysis shall also be regularly carried out and report submitted to the Ministry's Regional Office at Bhopal, Chhattisgarh Environment Conservation Board (CECB) and CPCB.</p>	<p>: At present there is no effluent generation from the existing operational facility.</p> <p>Regular monitoring of water is being carried out. &amp; the sample Reports are enclosed herewith.</p> <p>There is no source of ground water in the plant premises.</p>
10.	<p>All the coal fines, char from DRI plant and washery rejects shall be utilized in AFBC boiler of power plant and no char shall be used for briquette making or disposed off anywhere else. AFBC boiler shall be installed simultaneously along with the DRI plant to ensure full utilization of char from the beginning. All the blast furnace (BF) slag shall be provided to the cement manufacturers. Scrap shall be used in steel melting shop (SMS) and SMS</p>	<p>: Char/ dolochar is being utilized as fuel in FBC based power plant.</p> <p>AFBC boiler is proposed to installed simultaneously along with the DRI plant to ensure full utilization of char from the beginning. We assure that All the blast furnace (BF) slag shall be provided to the cement manufacturers. Scrap shall be used in steel melting shop (SMS) and SMS slag and kiln accretions shall be properly utilized. All the other solid waste including broken refractory mass shall be properly disposed off in environment-friendly manner.</p>

Sr. No	Specific Condition	Compliance Status
	slag and kiln accretions shall be properly utilized. All the other solid waste including broken refractory mass shall be properly disposed off in environment-friendly manner.	Induction furnace slag after metal recovery is being utilized for land reclamation.  Generated fly ash is being given to nearby brick manufacturers units.
11.	Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003.	: Generated fly-ash will be given to nearby ash brick manufacturers and cement plant too.
12.	Vehicular pollution due to transportation of raw material and finished products shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product.	: Dust suppression system will be installed for preventing dust emission due to vehicular movement and loading and un-loading activities within premises. Vehicular pollution due to transportation of raw material and finished products will be controlled by sprinkling water in the roads.
13.	Transportation of raw coal during the initial phase shall be by 40-T mechanically covered or tarpaulin covered trucks from the coalmines to the washery. The raw coal, washed coal and coal wastes (rejects) shall be stacked properly at earmarked site(s) within sheds/stockyards fitted with wind breakers/shields. Adequate measures shall be taken to ensure that the stored minerals do not catch fire.	: Presently the coal washery is not Commissioned. The transportation of raw material will be done in mechanically covered or tarpaulin covered trucks only.  Coal will be stacked properly in covered shed fitted with wind breakers / shields.
14.	Hoppers of the coal crushing unit at the crushing shed and washery unit shall be fitted with high efficiency bag filters/Dust extractors and mist spray water sprinkling system shall be installed and operated effectively at all times of operation to check fugitive emissions from crushing operations, transfer points of belt conveyor systems which shall be closed and from transportation roads.	: We ensure that in Proposed expansion project Hoppers of the coal crushing unit and washery unit shall be fitted with high efficiency bag filters/Dust extractors and mist spray water sprinkling system will be installed. All the transfer points will be covered & belt conveyor systems will be closed by conveyor canopy.  Regular water sprinkling will be done on coal heaps.
15.	All internal roads shall be black topped. The roads shall be regularly cleaned with mechanical sweepers. A 3-tier avenue plantation using native species shall be developed along the roads. Facilities for parking of trucks carrying raw coal from the linked coalmines shall be created within the Unit.	: <ul style="list-style-type: none"> <li>• The internal roads are of RCC &amp; the roads are regularly cleaned.</li> <li>• The Green belt of 40% will be developed.</li> <li>• CSPPL has already planted trees in the premises and proposed to plant additional no. of saplings for the proposed expansion @ 2500 per ha.</li> <li>• 24.3 ha. of area has been developed as green belt. 68800 trees are planted out of which 61920 nos. of trees are well grown till date, with survival rate of about 90%.</li> </ul>

Sr. No	Specific Condition	Compliance Status
		<ul style="list-style-type: none"> <li>• Further 1,04,550 more trees will be planted @ 2500 trees per ha.</li> </ul> <b>Photographs of green belt and internal roads are attached herewith.</b>
16.	The washery unit shall be a zero-discharge facility and no wastewater shall be discharged from the washery into the drains/natural watercourses. Recycled water shall be used for development and maintenance of green belt and in dust suppression from Plant operations.	: The proposed washery units is designed for closed circuit circulation system and entire water will be recycled in process only. No waste water will be discharge outside the system.
17.	Slag produced in Ferro Manganese (Fe-Mn) production shall be used in manufacture of Silico Manganese (Si-Mn).	: Agreed, as it is a valuable source of manganese.
18.	Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic metal content in the waste material and its composition, end use of solid/hazardous waste should be submitted to the Ministry's Regional Office at Bhopal, CECB and CPCB.	: We ensure that the Proper handling, storage, utilization and disposal of all the solid waste will be done and regular report regarding toxic metal content in the waste material will be be submitted to the Ministry's Regional Office, CECB and CPCB.  <b>Monitoring Report for Oct. to Dec. 23 is enclosed.</b>
19.	A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.	: Regarding this we hereby like to state that our project is already designed to minimize the solid waste and for their proper utilization. <b>1. Regarding minimization of char/ dolochar:</b> Quantum of wastes of sponge iron i.e. char/ dolochar/ coal fines will reduced by 40% – 45% by utilizing as fuel in own power plant . <b>2. Regarding Induction Furnaces:</b> Metal recovery from SMS Slag will also reduce its volume to 15% – 18% and non metallic slag will also in form of coarse solid. <b>3. Regarding minimization of washery reject:</b> Firstly we have reduced the size of washery so as to meet own requirement only. Secondly the quantum of Washery rejects will also reduced by consuming as fuel in own + sister concern's [located adjacent] power plant. (reduced by 40% – 45%)
20.	Risk and Disaster Management Plan along with the mitigation measures shall be prepared and a copy submitted to the Ministry's Regional Office at Bhopal, CECB and CPCB within 3 months of issue of environment clearance letter.	: Risk and Disaster Management Plan along with the mitigation measures is prepared.  <b>The copy of same is attached herewith.</b>
21.	As proposed, green belt shall be developed in 33 % of plant area as per the CPCB guidelines in	: <ul style="list-style-type: none"> <li>• The Green belt of 40% will be developed.</li> <li>• CSPPL has already planted trees in the premises and proposed to plant additional no.</li> </ul>

Sr. No	Specific Condition	Compliance Status
	consultation with the DFO.	<p>of saplings for the proposed expansion @ 2500 per ha.</p> <ul style="list-style-type: none"> <li>• 24.3 ha. of area has been developed as green belt. 68800 trees are planted out of which 61920 nos. of trees are well grown till date, with survival rate of about 90%.</li> <li>• Further 1,04,550 more trees will be planted @ 2500 trees per ha.</li> </ul> <p><b>Photographs of green belt and internal roads are attached herewith.</b></p>
22.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants should be implemented.	: Agreed
23.	All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 17 <sup>th</sup> December, 2009 should be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional Office at Bhopal.	: New management has taken over the project under consideration through NCLT procedure. However new management is committed for spending Rs. 10.0 Cr. in first phase (in 2 years) and Rs. 30.0 Cr. (in second phase) of the expansion project towards various social department activities.  No record is available for CSR activities carried out if any, by previous management.
24.	At least 5 % of the total cost of the project should be earmarked towards the corporate social responsibility and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhopal. Implementation of such program should be ensured accordingly in a time bound manner.	: New management has taken over the project under consideration through NCLT procedure. However new management is committed for spending Rs. 10.0 Cr. in first phase (in 2 years) and Rs. 30.0 Cr. (in second phase) of the expansion project towards various social department activities.  No record is available for CSR activities carried out if any, by previous management.
25.	Rehabilitation and Resettlement Plan for the project affected population including tribals, if any shall be implemented as per the policy of the State Govt. in consultation with the State Govt. of Chhattisgarh. Compensation paid in any case should not be less than the norms prescribed under the National Resettlement and Rehabilitation Policy, 2007.	: No rehabilitation and resettlement is required as the land purchased as there is no habitation within the land acquired [through purchase] and located close to the BORAI industrial area.
26.	The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may	: Agreed.



Sr. No	Specific Condition	Compliance Status
	be in the form of temporary structures to be removed after the completion of the project.	

**General Conditions :**

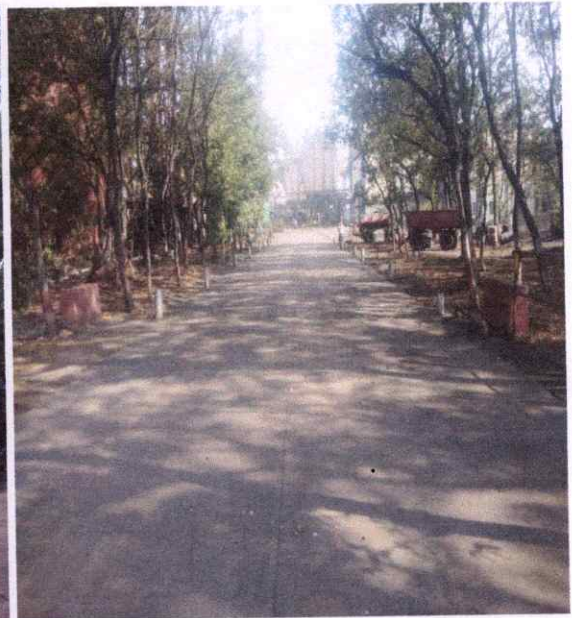
Sr. No	General Conditions	Compliance Status
1.	The project authority shall adhere to the stipulations made by Chhattisgarh Environment Conservation Board (CECB) and State Government.	: Agreed.
2.	No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.	: Agreed.
3.	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19 <sup>th</sup> May, 1993 & standards prescribed from time to time. The CECB may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time, the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.	: The project for which the EC was granted is not implemented. However, in the proposed project this issue will be complied.  Suitable interlocks will be provided for tripping of the plant in case emission values exceed pre-set values.
4.	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	: All the heavy noise generating equipment's are designed as per norms.  The noise level is being kept below 85 dBA. We have provided noise control measures silencer, enclosures, etc. at appropriate location to control noise levels.  <b>Monitoring Report for Oct. to Dec. 23 is enclosed.</b>
5.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	: The same is being done once in a quarter.

Sr. No	General Conditions	Compliance Status
6.	All the environment management measures given in the EIA/EMP shall be implemented and complied with.	: Agreed.
7.	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	: We have developed water harvesting structures within premises for recharging ground water table as well as utilization of within the process and assure you that the same will be developed in proposed expansion too.
8.	Proper housekeeping and adequate occupational health program shall be taken up as per the Factory Act.	: Proper housekeeping is being maintained and adequate occupational health programmes is being carried out as per Factory Act.
9.	The company shall undertake eco-development measures including community welfare measures in the project area.	: All Eco-development activities like additional plantation; Provision of STPs for treatment of domestic water, provision of Solar Powered lights, etc will be implemented in plant and surrounding area including various social development activities.
10.	A separate environmental management cell to carry out various management and monitoring functions shall be set up under the control of Senior Executive.	: A separate environmental management cell is set up to carry out various management and monitoring functions.  The Environmental Cell functions under the control of the General Manager along with the EMS team of the company to monitor the environmental measures.
11.	The requisite funds shall be earmarked towards total capital cost and recurring cost/annum for environmental pollution control measures and used judiciously to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.	: New management has taken over the project under consideration through NCLT procedure. However new management is committed for spending requisite funds will be earmarked towards total capital cost and recurring cost/annum for environmental pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government.
12.	The Project Authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	: New management has taken over the project under consideration through NCLT procedure. The Project Authorities will inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities.
13.	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local Body and the local NGO, if any, from whom	: Agreed

Sr. No	General Conditions	Compliance Status
	<p>suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.</p>	
14.	<p>The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.</p>	<p>: We have developed the website in 2022 after full possession of the plant. We have uploaded the monthly monitoring report &amp; six-monthly monitoring compliance report on our website.</p>
15.	<p>The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MOEF, the respective Zonal Office of CPCB and the CWCB. The Regional Office of this Ministry at Bhopal/CPCB/CECB shall monitor the stipulated conditions.</p>	<p>: Earlier we have submitted six monthly compliance report for the period of January 2023 – June 2023.</p> <p>Presently we are submitting the six monthly compliance report for the month of July to Dec.-23.</p>
16.	<p>The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.</p>	<p>: Environmental statement is being submitted regularly to CECB.</p>
17.	<p>The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the</p>	<p>: Agreed</p>

Sr. No	General Conditions	Compliance Status
	<p>clearance letter are available with the CECB and may also be seen at the Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a>. This should be advertised within seven days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office at Bhopal.</p>	

**PHOTOGRAPHS OF GREEN BELT & INTERNAL ROADS -**



**CSPPL-PROJECT STATUS AS ON JUNE 23**

<b>Land Acquisition</b>	The total land of 168.01 Ha. in possession of Crest Steel & Power Private Limited.
<b>Status of Project</b>	Operational Sponge Iron Plant, (2 x 350 TPD), SMS (2 x 15 T IF), Power Plant 16 MW WHRB + 8 MW AFBC .  Partly constructed Pellet Project, 2X350 TPD Sponge Iron Project, 1X35 M.W. Power Project, Coal Washery Project has been takeover through NCLT by new management & after getting the Environmental Clearance and Consent to Establishment the balance work will be initiated by new management.

## Data Sheet [Part – 1]

1.	Project type	:	Industry
2.	Name of the project	:	Expansion of Steel Plant at Village: Joratarai, P.O. Mangatta, The. & Dist. Rajnandgaon in C.G. by M/s Crest Steel & Power Private Limited
3.	Clearance letter (s)/OM No. and date	:	J-11011/753/2008-IA II (I) dated: 27.08.2010
4.	Location:	:	Village: Joratarai, PO: Mangatta, Tehsil: Rajnandgaon
	a. District (s)	:	Rajnandgaon
	b. State (s)	:	Chhattisgarh
	c. Location Latitude/Longitude	:	21°11'27" N 81°11'56" E
5.	Address for correspondence	:	
	a. Address of the Concerned Project Chief Engineer (with Pin Code & telephone/ telex/ fax numbers)	:	M/s Crest Steel & Power Private Limited Village: Joratarai, PO: Mangatta Tehsil & District: Rajnangaon [C.G.] PIN: 491 441.  Phone:0788-2336002
	b. Address of the Executive Project Engineer / Manager (with Pin Code & telephone/ telex/ fax numbers)	:	Mr. B.Venkata Narayana Chief Operating Officer M/s Crest Steel & Power Private Limited Village: Joratarai, PO: Mangatta Tehsil & District: Rajnangaon [C.G.] PIN: 491 441 Phone:0788-2336002
6.	Salient features	:	
	a. Of the project	:	Please refer Chapter – 2 of EIA report
	b. Of the Environmental management plans	:	Please refer Chapter – 10 of EIA report
7.	Breakup of the project area	:	
	a. Submergence area: forest & non-Forest	:	Nil
	b. Others	:	Land is directly purchased from private owners. No forest, Government land, Adivasi land involved within the site.
8.	Breakup of the project affected population with enumeration of those losing houses/ dwelling units only agricultural land only Both dwelling units & agricultural land & landless laborers/ artisans:	:	N.A. (The acquired land is free from inhabitation as close to industrial area)
	a. SC, ST/Adivasi	:	Nil
	b. Others	:	Land is directly purchased from private owners. No forest, Government involved within the site.
	(Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures, if a survey is carried out give details & year of survey)	:	----

<b>9.</b>	Financial details:	:	
	a. Project cost as originally planned and subsequent revised estimates and the year of Flee reference	:	Rs. 1106.00 Crores Originally and after revision Rs. 2079.00 Crores.
	b. Allocation made for environmental management plans with item wise and year wise break-up	:	Capital cost: Rs. 105.0 Crores Operating Cost: Rs. 5.0 Crores
	c. Benefit cost ratio/Internal rate of Return and the year of assessment	:	26.47 %
	d. Whether 'b' includes the cost of environmental management as shown in the above	:	Yes
	e. Actual expenditure incurred on the project so far.	:	Rs. 1719.41 Crores (Approx.)
	f. Actual expenditure incurred on the environmental management plans so far	:	Rs. 57.80 Crores

<b>10.</b>	Forest land requirement	:	<b>N.A.</b>
	a. The status of approval for diversion of forest land for non-forestry use	:	
	b. The status of clearing felling	:	
	c. The status of compensatory afforestation, if any	:	
	d. Comments on the viability & sustainability of compensatory afforestation program in the light of actual field experience so far	:	

<b>11.</b>	The status of clear felling in non-forest areas, if any with quantitative information required.	:	<b>N.A.</b>
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<b>12.</b>	Status of construction (Actual &/or planned)	:	
	a. Date of commencement (Actual &/or planned)	:	New management has taken over the project under consideration through NCLT procedure
	b. Date of completion (Actual &/or planned)	:	Planned-New management has taken over the project under consideration through NCLT procedure.

<b>13.</b>	Reason for the delay in if the project is yet to start.	:	Start of Project delayed due to delay in financial closure (which has been completed by end of 2011) & the prevailing sluggish steel market.
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**Note :-** At the time of taking over the unit some facilities is in operation and some facilities were underway initiated by previous management. Our EC process is underway from MoEF.



HDD-272, Phase III - Near JP Chowk  
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099  
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

<b>Name &amp; Address of The Customer</b> <b>To,</b> <b>Crest Steel And Power Private Limited</b> <b>Village: Joratarai,</b> <b>Post - Mangatta</b> <b>Rajnandgaon 491441</b>	Report No.	UES/TR/23-24/04887	
	Lab Ref No.	UES/23-24/AAQM/09123-09124	
	Date of Sampling	10/10/2023	
	Date of Receipt	11/10/2023	
	Date of Report	16/10/2023	
	Date of Analysis	Start: 11/10/2023	End: 16/10/2023

#### SAMPLE DETAILS

Monitoring For	Ambient Air Quality Monitoring
Sampling Location	1. Near Main Gate Area 2. Near Store Area
Customer Ref. No. & Date	4232200409, Dated: 25.07.2023
Duration Of Sampling	As per CPCB norms
Sample Collected By	Laboratory Chemist
Sampling Procedure	As Per Method Reference
Sample Quantity/Packing	Filter Paper (PM <sub>10</sub> ): 1X1 No., Filter Paper (PM <sub>2.5</sub> ): 1X1 No. SO <sub>2</sub> : 30mlX1 No. PVC Bottle, NO <sub>2</sub> : 30mlX1 NO. PVC Bottle.

#### Test Method for Ambient Air Quality Monitoring

Parameter	Method Reference
Particulate Matter size less than 10 microns (PM <sub>10</sub> )	IS:5182: (Part-23):2006 &CPCB Guidelines Vol.-I
Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	IS:5182: (Part-24):2019 &CPCB Guidelines Vol.-I
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182: (Part-2):2001, RA 2006 &CPCB Guidelines Vol.-I
Nitrogen Dioxide (NO <sub>2</sub> )	IS:5182: (Part-6):2006 & CPCB Guidelines Vol.-I

#### TEST REPORT

Parameter	Unit	NAAQM Standard	Results	
			Near Main Gate Area	Near Store Area
PM <sub>10</sub>	µg/m <sup>3</sup>	100	68.26	72.54
PM <sub>2.5</sub>	µg/m <sup>3</sup>	60	31.48	33.70
SO <sub>2</sub>	µg/m <sup>3</sup>	80	17.32	18.86
NO <sub>2</sub>	µg/m <sup>3</sup>	80	21.50	20.37
CO	mg/m <sup>3</sup>	4.0	1.22	2.16

#### REMARKS: RESULTS ARE AS ABOVE

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-----End of the test report-----





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<i>Name &amp; Address of The Customer</i>		REPORT NO.	UES/TR/23-24/04888	
<b>To,</b> <b>Crest Steel And Power Private Limited</b> <b>Village: Joratarai,</b> <b>Post - Mangatta</b> <b>Rajnandgaon 491441</b>		LAB REF NO.	UES/23-24/W/09125	
		DATE OF SAMPLING	10/10/2023	
		DATE OF RECEIPT	11/10/2023	
		DATE OF REPORT	16/10/2023	
		DATE OF ANALYSIS	START: 11/10/2023	END: 16/10/2023
<b>SAMPLE DETAILS</b>				
ORDER /REFERENCE:	4232200409, DATED: 25.07.2023			
CUSTOMER SAMPLE ID / SAMPLING LOCATION	NEW POND			
SAMPLE TYPE	SURFACE WATER			
SAMPLE COLLECTED BY	LABORATORY CHEMIST			
PACKING OF SAMPLE	3 L X 1 NO. PVC CAN, 1 L X 1 NO. GLASS BOTTLE			
SAMPLING PROCEDURE	IS:3025(PART I):1987 RA 2003; APHA 22ND ED.2012, 1060-B, 1-39			
REPORT NO. - 04888				

### TEST REPORT

Sr. No.	Parameter	Unit	Method Reference	Limits as per IS 10500 : 2012	Result
1	Colour	Hazen	IS:3025:(Part-4)	5 (max)	5.0
2	Turbidity	NTU	IS 3025:(Part-10)	1.0 (max)	2.25
3	pH	-	IS:3025:(Part-11)	6.5 To 8.5	8.14
4	Residual Chlorine	mg/Lit	IS 3025(part-26)	0.2 (max)	N.D.
5	Total Dissolved Solids	mg/Lit	IS 3025:(Part-16)	500 (max)	156.0
6	Alkalinity Total (as CaCO <sub>3</sub> )	mg/Lit	IS 3025:(Part-23)	200 (max)	94.0
7	Total Hardness ( as CaCO <sub>3</sub> )	mg/Lit	IS 3025:(Part-21)	200 (max)	120.0
8	Calcium (as Ca)	mg/Lit	IS 3025:(Part-40)	75 (max)	34.47
9	Magnesium (as Mg)	mg/Lit	IS 3025:(Part-46)	30 (max)	8.26
10	Chloride (as Cl)	mg/Lit	IS 3025:(Part-32)	250 (max)	17.99
11	Sulphate (as SO <sub>4</sub> )	mg/Lit	IS 3025:(Part-24)	200 (max)	23.05
12	Nitrate (NO <sub>3</sub> )	mg/Lit	IS 3025(part-34)	45 (max)	19.72
13	Boron (as B)	mg/Lit	IS 3025(part-57)	0.5 (max)	N.D.
14	Iron (as Fe)	mg/Lit	IS 3025(part-53)	0.3 (max)	N.D.
15	Fluoride (as F)	mg/Lit	IS 3025(part-60)	1.0 (max)	N.D.
16	Manganese (as Mn)	mg/Lit	IS 3025(part-59)	0.1 (max)	N.D.
17	Lead (as Pb)	mg/Lit	IS 3025(part-47)	0.01 (max)	N.D.
18	Zinc (as Zn)	mg/Lit	IS 3025(part-49)	5.0 (max)	N.D.
19	Copper (as Cu)	mg/Lit	IS 3025(part-42)	0.05 (max)	N.D.
20	Aluminium (as Al)	mg/Lit	IS 3025(part-55)	0.03 (max)	N.D.
21	Mercury (as Hg)	mg/Lit	IS 3025(part-48)	0.001(max)	N.D.
22	Arsenic (as As)	mg/Lit	IS 3025(part-37)	0.01 (max)	N.D.
23	Selenium (as Se)	mg/Lit	IS 3025(part-56)	0.1 (max)	N.D.
24	Chromium (as Cr)	mg/Lit	Annex J of IS:13428	0.001(max)	N.D.
25	Sulphide (as S)	mg/Lit	APHA 22 <sup>nd</sup> Ed.2012,4500 <sup>S</sup> -C,4-175 & F 4-178	0.01 (max)	N.D.
26	Cyanide (as CN)	mg/Lit	IS 3025(part-27)	0.05 (max)	N.D.
27	Anionic Detergent (as MBAS)	mg/Lit	Annex K of IS:13428	0.02 (max)	N.D.
28	Phenolic Compound (as C <sub>6</sub> H <sub>5</sub> OH)	mg/Lit	IS 3025(part-43)	0.001(max)	N.D.



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REPORT NO. - 04888

TEST REPORT					
Sr. No.	Parameter	Unit	Method Reference	Limits as per IS 10500 : 2012	Result
29	Poly-nuclear Aromatic Hydrocarbon (PAH)	µg/Lit	APHA 22 <sup>nd</sup> Ed.2012,6440-6-93	0.0001(max)	N.D.
30	Mineral Oil	mg/Lit	IS:3025 (part-39):1991, RA 2003, Ed. 2.1	0.05 (max)	N.D.
Microbial Parameter					
1	Total Coliform	MPN/100 ML	IS: 1622:1981:RA:2019	Shall not be detectable in any 100 ml sample	27.0
2	E - Coli	MPN/100 ML	IS: 1622:1981:RA:2019	Shall not be detectable in any 100 ml sample	< 2.0

Note: mg/lit.: milligram per liter.

REMARKS: N.D.- NOT DETECTED

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 16/10/23 <b>REVIEWED BY</b>		For ULTIMATE ENVIROLYTICAL SOLUTIONS  <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report.....



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<b>Name &amp; Address Of The Customer</b> <b>To,</b> <b>Crest Steel And Power Private Limited</b> <b>Village: Joratarai,</b> <b>Post - Mangatta</b> <b>Rajnandgaon 491441</b>	REPORT NO.	UES/TR/23-24/04889
	LAB REF NO.	UES/23-24/N/09126-09127
	DATE OF REPORT	16/10/2023
	DATE OF SAMPLING	10/10/2023
<b>SAMPLE DETAILS</b>		
Monitoring For	Noise Level Monitoring	
Customer Ref. No. & Date	4232200409, Dated: 25.07.2023	
Sampling Location	1. Near Main Gate Area 2. Near Store Area	
Sample Collected By	Laboratory Chemist	
Sampling Procedure	Manufacturer's Instruction	

### TEST REPORT

LOCATION	UNIT	RESULT		LIMIT (INDUSTRIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
Near Main Gate Area	dB(A)	61.7	45.2	75	70
Near Store Area	dB(A)	57.4	42.1		

**REMARKS: RESULTS ARE AS ABOVE**

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-----End of the test report-----



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<i>Name &amp; Address Of The Customer</i> <b>To,</b> <b>Crest Steel And Power Private Limited</b> <b>Village: Joratarai,</b> <b>Post - Mangatta</b> <b>Rajnandgaon 491441</b>	REPORT NO.	UES/TR/23-24/04890	
	LAB REF NO.	UES/23-24/FE/09128	
	DATE OF SAMPLING	10/10/2023	
	DATE OF RECEIPT	11/10/2023	
	DATE OF REPORT	16/10/2023	
	DATE OF ANALYSIS	START: 11/10/2023	END: 16/10/2023
<b>SAMPLE DETAILS</b>			
Monitoring For	Fugitive Emission		
Customer Ref. No.	4232200409, Dated: 25.07.2023		
Sampling Location	Near Boiler Area		
Duration Of Sampling	8 Hours		
Sample Collected by	Laboratory Chemist		
Sampling Procedure	As Per Method Reference		
Sample Quantity/Packing	GMF Filter Paper (8 X 10 Inch): 1x1 No.		

### TEST REPORT

Locations	Unit	Suspended Particulate Matter (SPM)	Limit as per Moef & CC Notification	Method Reference
Near Boiler Area	$\mu\text{g}/\text{m}^3$	806	2000	EPA Method IO-2.1

**REMARKS: N.D. - NOT DETECTED**

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-----End of the test report-----



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<b>Name &amp; Address Of The Customer</b> <b>To,</b> <b>Crest Steel And Power Private Limited</b> <b>Village: Joratarai,</b> <b>Post - Mangatta</b> <b>Rajnandgaon 491441</b>	Report No	UES/TR/23-24/04891	
	Lab. Ref. No.	UES/23-24/W/09129	
	Date of Sampling	10/10/2023	
	Date of Receipt	11/10/2023	
	Date of Report	16/10/2023	
	Date of Analysis	Start: 11/10/2023	End: 16/10/2023

**SAMPLE DETAILS**

Customer Sample ID	SID - Kiln Effluent Water	Customer Ref. No. & Date	4232200409, Dated: 25.07.2023
Sample Type	Effluent Water	Sample Condition At Receipt	Ok
Packing of Sample	Jerry Cane (3 ltr.*1) Glass bottle (1 ltr.*1)	Sample Collected By	Laboratory Chemist
Other Details	Sealed	Quantity Received	Approx. 5Ltr.

**TEST REPORT**

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMITS AS PER CONSENT	RESULT
1	pH Value at 25.2°C	-	IS:3025: (Part-11): 1983, RA 2012	5.5 To 9.0	8.22
2	Total Suspended Solid	mg/L	IS:3025: (Part-17): 1984, RA 2012	100	23.0
3	Chemical Oxygen Demand	mg/L	IS:3025: (Part-58):2006, RA 2012	250	88.0
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025: (Part-44):1993 RA 2014	30	15.6
5	Oil & Grease	mg/L	IS:3025: (Part-39):1986	10	Absent

Note:mg/lit.: milligram per liter. N.D.: Not Detected.

**REMARKS: RESULTS ARE AS ABOVE**

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-----End of the test report-----



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Name & Address Of The Customer

To,  
**Crest Steel And Power Private Limited**  
**Village: Joratarai,**  
**Post - Mangatta**  
**Rajnandgaon 491441**

REPORT NO	UES/TR/23-24/04892	
LAB REF NO	UES/23-24/ST/09130	
DATE OF SAMPLING	10/10/2023	
DATE OF RECEIPT	11/10/2023	
DATE OF REPORT	16/10/2023	
DATE OF ANALYSIS	START:11/10/2023	END:16/10/2023

#### SAMPLE DETAILS

MONITORING FOR	STACK EMISSION MONITORING
SAMPLING LOCATION	STACK NO. - 1 (WHRB+AFBC)
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO., SO <sub>2</sub> : 30 ML X 1 NO. PVC BOTTLE, NOX: 25 ML X 1 NO. PVC BOTTLE, RUBBER BLADDER: 1 X 1 NO., HG: 500ML X 1 NO. GLASS BOTTLE & 500ML X 3 NO. PVC BOTTLE.

### TEST REPORT

#### Stack details

STACK IDENTITY	STACK NO. - 1 (WHRB+AFBC)
STACK ATTACHED TO	ESP
MATERIAL OF CONSTRUCTION	RCC
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	75
STACK DIAMETER	3.5
STACK SHAPE AT TOP	CIRCULAR
TYPE OF FUEL	COAL

Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	94.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	7.84	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	Nm <sup>3</sup> /h	220381.2	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	40.2	50	IS 11255 (Part 1):1985, RA 2003
SULPHUR DIOXIDE (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	196.4	600	IS 11255 (Part 2):1985, RA 2003
OXIDES OF NITROGEN (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	114.5	300	IS 11255 (Part 7):2005, RA 2012
CARBON MONOXIDE (CO)	mg/Nm <sup>3</sup>	0.1	-	IS 13270 RA 2019

REMARKS: : N.D. : NOT DETECTED

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*[Signature]*  
16/10/23

REVIEWED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS

*[Signature]*

AUTHORIZED SIGNATORY

-----End of the test report.....



HDD-272, Phase III - Near JP Chowk  
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Name & Address Of The Customer		REPORT NO	UES/TR/23-24/04893
<b>To,</b> <b>Crest Steel And Power Private Limited</b> <b>Village: Joratarai,</b> <b>Post - Mangatta</b> <b>Rajnandgaon 491441</b>		LAB REF NO	UES/23-24/ST/09131
		DATE OF SAMPLING	10/10/2023
		DATE OF RECEIPT	11/10/2023
		DATE OF REPORT	16/10/2023
		DATE OF ANALYSIS	START: 11/10/2023      END: 16/10/2023
<b>SAMPLE DETAILS</b>			
MONITORING FOR	STACK EMISSION MONITORING		
SAMPLING LOCATION	STACK NO - 2 (WHRE)		
SAMPLE COLLECTED BY	LABORATORY CHEMIST		
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003		
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO., SO <sub>2</sub> : 30 ML X 1 NO. PVC BOTTLE, NOX: 25 ML X 1 NO. PVC BOTTLE, RUBBER BLADDER: 1 X 1 NO., HG: 500ML X 1 NO. GLASS BOTTLE & 500ML X 3 NO. PVC BOTTLE.		

## TEST REPORT

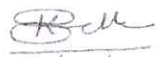

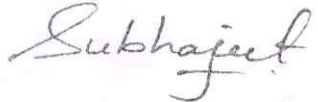
### Stack details

STACK IDENTITY	STACK NO - 2 (WHRE)			
STACK ATTACHED TO	ESP			
MATERIAL OF CONSTRUCTION	RCC			
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	65			
STACK DIAMETER	2.13			
STACK SHAPE AT TOP	CIRCULAR			
TYPE OF FUEL	COAL			
Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	82.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	10.38	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	Nm <sup>3</sup> /h	111716.3	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	39.8	50	IS 11255 (Part 1):1985, RA 2003
SULPHUR DIOXIDE (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	184.0	600	IS 11255 (Part 2):1985, RA 2003
OXIDES OF NITROGEN (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	120.6	300	IS 11255 (Part 7):2005, RA 2012
CARBON MONOXIDE (CO)	mg/Nm <sup>3</sup>	0.1	-	IS 13270 RA 2019

REMARKS: : N.D. : NOT DETECTED

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 16/10/23 <b>REVIEWED BY</b>		For ULTIMATE ENVIROLYTICAL SOLUTIONS  <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report-----

AN ISO : 9001:2015 / ISO: 14001:2015 / ISO 45001:2018 CERTIFIED LABORATORY



HDD-272, Phase III - Near JP Chowk  
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099  
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

<b>Name &amp; Address of The Customer</b> <b>To,</b> <b>Crest Steel And Power Private Limited</b> <b>Village: Joratarai,</b> <b>Post - Mangatta</b> <b>Rajnandgaon 491441</b>	Report No.	UES/TR/23-24/06222	
	Lab Ref No.	UES/23-24/AAQM/011739-011740	
	Date of Sampling	10/11/2023	
	Date of Receipt	11/11/2023	
	Date of Report	15/11/2023	
	Date of Analysis	Start: 11/11/2023	End: 15/11/2023

## SAMPLE DETAILS

Monitoring For	Ambient Air Quality Monitoring
Sampling Location	1. Near Main Gate Area 2. Near Store Area
Customer Ref. No. & Date	4232200409, Dated: 25.07.2023
Duration Of Sampling	As per CPCB norms
Sample Collected By	Laboratory Chemist
Sampling Procedure	As Per Method Reference
Sample Quantity/Packing	Filter Paper (PM <sub>10</sub> ): 1X1 No., Filter Paper (PM <sub>2.5</sub> ): 1X1 No. SO <sub>2</sub> : 30mlX1 No. PVC Bottle, NO <sub>2</sub> : 30mlX1 NO. PVC Bottle.

## Test Method for Ambient Air Quality Monitoring

Parameter	Method Reference
Particulate Matter size less than 10 microns (PM <sub>10</sub> )	IS:5182:(Part-23):2006 &CPCB Guidelines Vol.-I
Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	IS:5182:(Part-24):2019 &CPCB Guidelines Vol.-I
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182:(Part-2):2001, RA 2006 &CPCB Guidelines Vol.-I
Nitrogen Dioxide (NO <sub>2</sub> )	IS:5182:(Part-6):2006 & CPCB Guidelines Vol.-I

## TEST REPORT

Parameter	Unit	NAAQM Standard	Results	
			Near Main Gate Area	Near Store Area
PM <sub>10</sub>	µg/m <sup>3</sup>	100	69.38	72.61
PM <sub>2.5</sub>	µg/m <sup>3</sup>	60	32.62	34.84
SO <sub>2</sub>	µg/m <sup>3</sup>	80	18.47	19.92
NO <sub>2</sub>	µg/m <sup>3</sup>	80	22.59	23.44
CO	mg/m <sup>3</sup>	4.0	1.41	2.26

REMARKS: RESULTS ARE AS ABOVE

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 15/11/23 <b>REVIEWED BY</b>	 <b>ULTIMATE ENVIROLYTICAL SOLUTIONS</b> RAIPUR (C.G.)	For ULTIMATE ENVIROLYTICAL SOLUTIONS  <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report-----





HDD-272, Phase III - Near JP Chowk  
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099  
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

<i>Name &amp; Address of The Customer</i>		REPORT NO.	UES/TR/23-24/06223
<b>To,</b>		LAB REF NO.	UES/23-24/W/011741
<b>Crest Steel And Power Private Limited</b>		DATE OF SAMPLING	10/11/2023
<b>Village: Joratarai,</b>		DATE OF RECEIPT	11/11/2023
<b>Post - Mangatta</b>		DATE OF REPORT	15/11/2023
<b>Rajnandgaon 491441</b>		DATE OF ANALYSIS	START:11/11/2023    END:15/11/2023
SAMPLE DETAILS			
ORDER /REFERENCE:	4232200409, DATED: 25.07.2023		
CUSTOMER SAMPLE ID / SAMPLING LOCATION	NEW POND		
SAMPLE TYPE	SURFACE WATER		
SAMPLE COLLECTED BY	LABORATORY CHEMIST		
PACKING OF SAMPLE	3 L X 1 NO. PVC CAN, 1 L X 1 NO. GLASS BOTTLE		
SAMPLING PROCEDURE	IS:3025(PART I):1987 RA 2003; APHA 22ND ED.2012, 1060-B, 1-39		
REPORT NO. - 06223			

### TEST REPORT

Sr. No.	Parameter	Unit	Method Reference	Limits as per IS 10500 : 2012	Result
1	Colour	Hazen	IS:3025:(Part-4)	5 (max)	5.0
2	Turbidity	NTU	IS:3025:(Part-10)	1.0 (max)	2.13
3	pH	-	IS:3025:(Part-11)	6.5 To 8.5	8.06
4	Residual Chlorine	mg/Lit	IS:3025:(part-26)	0.2 (max)	N.D.
5	Total Dissolved Solids	mg/Lit	IS:3025:(Part-16)	500 (max)	172.0
6	Alkalinity Total (as CaCO <sub>3</sub> )	mg/Lit	IS:3025:(Part-23)	200 (max)	104.0
7	Total Hardness ( as CaCO <sub>3</sub> )	mg/Lit	IS:3025:(Part-21)	200 (max)	132.0
8	Calcium (as Ca)	mg/Lit	IS:3025:(Part-40)	75 (max)	37.68
9	Magnesium (as Mg)	mg/Lit	APHA 23 <sup>rd</sup> Ed.2012,3500-Mg-B	30 (max)	9.23
10	Chloride (as Cl)	mg/Lit	IS:3025:(Part-32)	250 (max)	18.9
11	Sulphate (as SO <sub>4</sub> )	mg/Lit	IS:3025:(Part-24)	200 (max)	25.41
12	Nitrate (NO <sub>3</sub> )	mg/Lit	IS:3025:(part-34)	45 (max)	13.74
13	Boron (as B)	mg/Lit	IS:3025:(part-57)	0.5 (max)	N.D.
14	Iron (as Fe)	mg/Lit	IS:3025:(part-53)	0.3 (max)	N.D.
15	Fluoride (as F)	mg/Lit	IS:3025:(part-60)	1.0 (max)	N.D.
16	Manganese (as Mn)	mg/Lit	IS:3025:(part-59)	0.1 (max)	N.D.
17	Lead (as Pb)	mg/Lit	IS:3025:(part-47)	0.01 (max)	N.D.
18	Zinc (as Zn)	mg/Lit	IS:3025:(part-49)	5.0 (max)	N.D.
19	Copper (as Cu)	mg/Lit	IS:3025:(part-42)	0.05 (max)	N.D.
20	Aluminium (as Al)	mg/Lit	IS:3025:(part-55)	0.03 (max)	N.D.
21	Mercury (as Hg)	mg/Lit	IS:3025:(part-48)	0.001(max)	N.D.
22	Arsenic (as As)	mg/Lit	IS:3025:(part-37)	0.01 (max)	N.D.
23	Selenium (as Se)	mg/Lit	IS:3025:(part-56)	0.1 (max)	N.D.
24	Chromium (as Cr)	mg/Lit	Annex J of IS:13428	0.001(max)	N.D.
25	Sulphide (as S)	mg/Lit	APHA 22 <sup>nd</sup> Ed.2012,4500 <sup>S</sup> -C,4-175 & F 4-178	0.01 (max)	N.D.
26	Cyanide (as CN)	mg/Lit	IS:3025:(part-27)	0.05 (max)	N.D.
27	Anionic Detergent (as MBAS)	mg/Lit	Annex K of IS:13428	0.02 (max)	N.D.
28	Phenolic Compound (as C <sub>6</sub> H <sub>5</sub> OH)	mg/Lit	IS:3025:(part-43)	0.001(max)	N.D.



HDD-272, Phase III - Near JP Chowk  
 Ring Road No -2, Kabir Nagar, Raipur (C.G.) - 492099  
 Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

REPORT NO. - 06223

**TEST REPORT**

Sr. No.	Parameter	Unit	Method Reference	Limits as per IS 10500 : 2012	Result
29	Poly-nuclear Aromatic Hydrocarbon (PAH)	µg/Lit	APHA 22 <sup>nd</sup> Ed.2012,6440-6-93	0.0001(max)	N.D.
30	Mineral Oil	mg/Lit	IS:3025 (part-39):1991, RA 2003, Ed. 2.1	0.05 (max)	N.D.
<b>Microbial Parameter</b>					
1	Total Coliform	MPN/100 ML	IS:1622:1981:RA:2019	Shall not be detectable in any 100 ml sample	30.0
2	E - Coli	MPN/100 ML	IS:1622:1981:RA:2019	Shall not be detectable in any 100 ml sample	<2.0

Note: mg/lit.: milligram per liter.

**REMARKS: N.D.- NOT DETECTED***Terms & conditions*

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 15/11/23 <b>REVIEWED BY</b>		For ULTIMATE ENVIROLYTICAL SOLUTIONS  <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report.....



HDD-272, Phase III - Near JP Chowk  
 Ring Road No -2, Kabir Nagar, Raipur (C.G.) - 492099  
 Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

<b>Name &amp; Address Of The Customer</b> <b>To,</b> <b>Crest Steel And Power Private Limited</b> <b>Village: Joratarai,</b> <b>Post - Mangatta</b> <b>Rajnandgaon 491441</b>	REPORT NO.	UES/TR/23-24/06224
	LAB REF NO.	UES/23-24/N/011742-011743
	DATE OF REPORT	15/11/2023
	DATE OF SAMPLING	10/11/2023

## SAMPLE DETAILS

Monitoring For	Noise Level Monitoring
Customer Ref. No. & Date	4232200409, Dated: 25.07.2023
Sampling Location	1. Near Main Gate Area 2. Near Store Area
Sample Collected By	Laboratory Chemist
Sampling Procedure	Manufacturer's Instruction

## TEST REPORT

LOCATION	UNIT	RESULT		LIMIT (INDUSTRIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
Near Main Gate Area	dB(A)	63.4	47.1	75	70
Near Store Area	dB(A)	58.6	43.5		

## REMARKS: RESULTS ARE AS ABOVE

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-----End of the test report-----



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Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

<i>Name &amp; Address Of The Customer</i>		REPORT NO.	UES/TR/23-24/06225	
<b>To,</b> <b>Crest Steel And Power Private Limited</b> <b>Village: Joratarai,</b> <b>Post - Mangatta</b> <b>Rajnandgaon 491441</b>		LAB REF NO.	UES/23-24/FE/011744	
		DATE OF SAMPLING	10/11/2023	
		DATE OF RECEIPT	11/11/2023	
		DATE OF REPORT	15/11/2023	
		DATE OF ANALYSIS	START: 11/11/2023	END: 15/11/2023
<b>SAMPLE DETAILS</b>				
Monitoring For	Fugitive Emission			
Customer Ref. No.	4232200409, Dated: 25.07.2023			
Sampling Location	Near Boiler Area			
Duration Of Sampling	8 Hours			
Sample Collected by	Laboratory Chemist			
Sampling Procedure	As Per Method Reference			
Sample Quantity/Packing	GMF Filter Paper (8 X 10 Inch): 1x1 No.			

### TEST REPORT

Locations	Unit	Suspended Particulate Matter (SPM)	Limit as per Moef & CC Notification	Method Reference
Near Boiler Area	$\mu\text{g}/\text{m}^3$	814	2000	EPA Method IO-2.1

**REMARKS:N.D.- NOT DETECTED**

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 15/11/23 <b>REVIEWED BY</b>	 <b>AUTHORIZED SIGNATORY</b>	For ULTIMATE ENVIROLYTICAL SOLUTIONS  <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report-----



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<i>Name &amp; Address Of The Customer</i>		Report No	UES/TR/23-24/06226	
<b>To, Crest Steel And Power Private Limited Village: Joratarai, Post - Mangatta Rajnandgaon 491441</b>		Lab. Ref. No.	UES/23-24/W/011745	
		Date of Sampling	10/11/2023	
		Date of Receipt	11/11/2023	
		Date of Report	15/11/2023	
		Date of Analysis	Start: 11/11/2023	End: 15/11/2023
<b>SAMPLE DETAILS</b>				
Customer Sample ID	SID - Kiln Effluent Water	Customer Ref. No. & Date	4232200409, Dated: 25.07.2023	
Sample Type	Effluent Water	Sample Condition At Receipt	Ok	
Packing of Sample	Jerry Cane (3 ltr.*1) Glass bottle (1 ltr.*1)	Sample Collected By	Laboratory Chemist	
Other Details	Sealed	Quantity Received	Approx. 5ltr.	

### TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMITS AS PER CONSENT	RESULT
1	pH Value at 25.2°C	-	IS:3025:(Part-11): 1983, RA 2012	5.5 To 9.0	8.14
2	Total Suspended Solid	mg/L	IS:3025:(Part-17): 1984, RA 2012	100	21.9
3	Chemical Oxygen Demand	mg/L	IS:3025:(Part-58):2006, RA 2012	250	76.0
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025:(Part-44):1993 RA 2014	30	13.8
5	Oil & Grease	mg/L	IS:3025:(Part-39):1986	10	Absent

Note:mg/lit.: milligram per liter. N.D.: Not Detected.

#### REMARKS: RESULTS ARE AS ABOVE

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-----End of the test report-----



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Name & Address Of The Customer		REPORT NO	UES/TR/23-24/06227	
<b>To,</b> <b>Crest Steel And Power Private Limited</b> <b>Village: Joratarai,</b> <b>Post - Mangatta</b> <b>Rajnandgaon 491441</b>		LAB REF NO	UES/23-24/ST/011746	
		DATE OF SAMPLING	10/11/2023	
		DATE OF RECEIPT	11/11/2023	
		DATE OF REPORT	15/11/2023	
		DATE OF ANALYSIS	START: 11/11/2023	END: 15/11/2023
<b>SAMPLE DETAILS</b>				
MONITORING FOR	STACK EMISSION MONITORING			
SAMPLING LOCATION	STACK NO. - 1 (WHRB+AFBC)			
SAMPLE COLLECTED BY	LABORATORY CHEMIST			
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003			
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO., SO <sub>2</sub> : 30 ML X 1 NO. PVC BOTTLE, NOX: 25 ML X 1 NO. PVC BOTTLE, RUBBER BLADDER: 1 X 1 NO., HG: 500ML X 1 NO. GLASS BOTTLE & 500ML X 3 NO. PVC BOTTLE.			

## TEST REPORT

Stack details				
STACK IDENTITY	STACK NO. - 1 (WHRB+AFBC)			
STACK ATTACHED TO	ESP			
MATERIAL OF CONSTRUCTION	RCC			
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	75			
STACK DIAMETER	3.5			
STACK SHAPE AT TOP	CIRCULAR			
TYPE OF FUEL	COAL			
Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	108.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	10.57	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	Nm <sup>3</sup> /h	286203.2	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	41.4	50	IS 11255 (Part 1):1985, RA 2003
SULPHUR DIOXIDE (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	190.8	600	IS 11255 (Part 2):1985, RA 2003
OXIDES OF NITROGEN (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	112.6	300	IS 11255 (Part 7):2005, RA 2012
CARBON MONOXIDE (CO)	mg/Nm <sup>3</sup>	0.1	-	IS 13270 RA 2019

REMARKS: :N.D.: NOT DETECTED

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 15/11/23		For ULTIMATE ENVIROLYTICAL SOLUTIONS   <b>AUTHORIZED SIGNATORY</b>
<b>REVIEWED BY</b>		

-----End of the test report.....



HDD-272, Phase III - Near JP Chowk  
 Ring Road No-2, Kabir Nagar, Raipur (C.G.) - 492099  
 Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Name & Address Of The Customer  <b>To,</b> <b>Crest Steel And Power Private Limited</b> <b>Village: Joratarai,</b> <b>Post - Mangatta</b> <b>Rajnandgaon 491441</b>	REPORT NO	UES/TR/23-24/06228	
	LAB REF NO	UES/23-24/ST/011747	
	DATE OF SAMPLING	10/11/2023	
	DATE OF RECEIPT	11/11/2023	
	DATE OF REPORT	15/11/2023	
	DATE OF ANALYSIS	START: 11/11/2023	END: 15/11/2023

SAMPLE DETAILS	
MONITORING FOR	STACK EMISSION MONITORING
SAMPLING LOCATION	STACK NO - 2 (WHRB)
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO., SO2: 30 ML X 1 NO. PVC BOTTLE, NOX: 25 ML X 1 NO. PVC BOTTLE, RUBBER BLADDER: 1 X 1 NO., HG: 500ML X 1 NO. GLASS BOTTLE & 500ML X 3 NO. PVC BOTTLE.

### TEST REPORT

Stack details				
STACK IDENTITY	STACK NO - 2 (WHRB)			
STACK ATTACHED TO	ESP			
MATERIAL OF CONSTRUCTION	RCC			
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	65			
STACK DIAMETER	2.13			
STACK SHAPE AT TOP	CIRCULAR			
TYPE OF FUEL	COAL			
Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	166.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	7.45	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	Nm <sup>3</sup> /h	64839.5	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	40.6	50	IS 11255 (Part 1):1985, RA 2003
SULPHUR DIOXIDE (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	188.3	600	IS 11255 (Part 2):1985, RA 2003
OXIDES OF NITROGEN (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	122.9	300	IS 11255 (Part 7):2005, RA 2012
CARBON MONOXIDE (CO)	mg/Nm <sup>3</sup>	0.1	-	IS 13270 RA 2019

REMARKS: :N.D.: NOT DETECTED

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 15/11/23 <b>REVIEWED BY</b>	 <b>For ULTIMATE ENVIROLYTICAL SOLUTIONS</b>	 <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report.....



HDD-272, Phase III - Near JP Chowk  
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099  
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

<b>Name &amp; Address of The Customer</b> <b>To,</b> <b>Crest Steel And Power Private Limited</b> <b>Village: Joratarai,</b> <b>Post - Mangatta</b> <b>Rajnandgaon 491441</b>	<b>Report No.</b>	UES/TR/23-24/06678	
	<b>Lab Ref No.</b>	UES/23-24/AAQM/012704-012705	
	<b>Date of Sampling</b>	20/12/2023	
	<b>Date of Receipt</b>	21/12/2023	
	<b>Date of Report</b>	25/12/2023	
	<b>Date of Analysis</b>	Start: 21/12/2023	End: 25/12/2023

## SAMPLE DETAILS

<b>Monitoring For</b>	Ambient Air Quality Monitoring
<b>Sampling Location</b>	1. Near Main Gate Area 2. Near Store Area
<b>Customer Ref. No. &amp; Date</b>	4232200409, Dated: 25.07.2023
<b>Duration Of Sampling</b>	As per CPCB norms
<b>Sample Collected By</b>	Laboratory Chemist
<b>Sampling Procedure</b>	As Per Method Reference
<b>Sample Quantity/Packing</b>	Filter Paper (PM <sub>10</sub> ): 1X1 No., Filter Paper (PM <sub>2.5</sub> ): 1X1 No. SO <sub>2</sub> : 30mlX1 No. PVC Bottle, NO <sub>2</sub> : 30mlX1 NO. PVC Bottle.

## Test Method for Ambient Air Quality Monitoring

Parameter	Method Reference
Particulate Matter size less than 10 microns (PM <sub>10</sub> )	IS:5182:(Part-23):2006 &CPCB Guidelines Vol.-I
Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	IS:5182:(Part-24):2019 &CPCB Guidelines Vol.-I
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182:(Part-2):2001, RA 2006 &CPCB Guidelines Vol.-I
Nitrogen Dioxide (NO <sub>2</sub> )	IS:5182:(Part-6):2006 & CPCB Guidelines Vol.-I

## TEST REPORT

Parameter	Unit	NAAQM Standard	Results	
			Near Main Gate Area	Near Store Area
PM <sub>10</sub>	µg/m <sup>3</sup>	100	76.5	81.4
PM <sub>2.5</sub>	µg/m <sup>3</sup>	60	35.62	38.41
SO <sub>2</sub>	µg/m <sup>3</sup>	80	16.24	17.44
NO <sub>2</sub>	µg/m <sup>3</sup>	80	20.16	25.61
CO	mg/m <sup>3</sup>	4.0	1.34	2.11

## REMARKS: RESULTS ARE AS ABOVE

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 25/12/23 <b>REVIEWED BY</b>	 <b>AUTHORIZED SIGNATORY</b>	For ULTIMATE ENVIROLYTICAL SOLUTIONS  <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report-----





HDD-272, Phase III - Near JP Chowk  
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Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

<b>Name &amp; Address of The Customer</b>  <b>To,</b> <b>Crest Steel And Power Private Limited</b> <b>Village: Joratarai,</b> <b>Post - Mangatta</b> <b>Rajnandgaon 491441</b>	<b>REPORT NO.</b>	UES/TR/23-24/06679	
	<b>LAB REF NO.</b>	UES/23-24/W/012706	
	<b>DATE OF SAMPLING</b>	20/12/2023	
	<b>DATE OF RECEIPT</b>	21/12/2023	
	<b>DATE OF REPORT</b>	25/12/2023	
	<b>DATE OF ANALYSIS</b>	START: 21/12/2023	END: 25/12/2023
<b>SAMPLE DETAILS</b>			
<b>ORDER /REFERENCE:</b>	4232200409, DATED: 25.07.2023		
<b>CUSTOMER SAMPLE ID / SAMPLING LOCATION</b>	NEW POND		
<b>SAMPLE TYPE</b>	SURFACE WATER		
<b>SAMPLE COLLECTED BY</b>	LABORATORY CHEMIST		
<b>PACKING OF SAMPLE</b>	3 L X 1 NO. PVC CAN, 1 L X 1 NO. GLASS BOTTLE		
<b>SAMPLING PROCEDURE</b>	IS:3025(PART I):1987 RA 2003; APHA 22ND ED.2012, 1060-B, 1-39		

REPORT NO. - 06679

<b>TEST REPORT</b>					
Sr. No.	Parameter	Unit	Method Reference	Limits as per IS 10500 : 2012	Result
1	Colour	Hazen	IS:3025:(Part-4)	5 (max)	5.0
2	Turbidity	NTU	IS:3025:(Part-10)	1.0 (max)	0.89
3	pH	-	IS:3025:(Part-11)	6.5 To 8.5	7.89
4	Residual Chlorine	mg/Lit	IS:3025:(part-26)	0.2 (max)	N.D.
5	Total Dissolved Solids	mg/Lit	IS:3025:(Part-16)	500 (max)	188
6	Alkalinity Total (as CaCO <sub>3</sub> )	mg/Lit	IS:3025:(Part-23)	200 (max)	96.0
7	Total Hardness ( as CaCO <sub>3</sub> )	mg/Lit	IS:3025:(Part-21)	200 (max)	144
8	Calcium (as Ca)	mg/Lit	IS:3025:(Part-40)	75 (max)	33.67
9	Magnesium (as Mg)	mg/Lit	APHA 23 <sup>nd</sup> Ed.2012,3500-Mg-B	30 (max)	14.58
10	Chloride (as Cl)	mg/Lit	IS:3025:(Part-32)	250 (max)	20.9
11	Sulphate (as SO <sub>4</sub> )	mg/Lit	IS:3025:(Part-24)	200 (max)	36.07
12	Nitrate (NO <sub>3</sub> )	mg/Lit	IS:3025:(part-34)	45 (max)	13.12
13	Boron (as B)	mg/Lit	IS:3025:(part-57)	0.5 (max)	N.D.
14	Iron (as Fe)	mg/Lit	IS:3025:(part-53)	0.3 (max)	N.D.
15	Fluoride (as F)	mg/Lit	IS:3025:(part-60)	1.0 (max)	N.D.
16	Manganese (as Mn)	mg/Lit	IS:3025:(part-59)	0.1 (max)	N.D.
17	Lead (as Pb)	mg/Lit	IS:3025:(part-47)	0.01 (max)	N.D.
18	Zinc (as Zn)	mg/Lit	IS:3025:(part-49)	5.0 (max)	N.D.
19	Copper (as Cu)	mg/Lit	IS:3025:(part-42)	0.05 (max)	N.D.
20	Aluminium (as Al)	mg/Lit	IS:3025:(part-55)	0.03 (max)	N.D.
21	Mercury (as Hg)	mg/Lit	IS:3025:(part-48)	0.001(max)	N.D.
22	Arsenic (as As)	mg/Lit	IS:3025:(part-37)	0.01 (max)	N.D.
23	Selenium (as Se)	mg/Lit	IS:3025:(part-56)	0.1 (max)	N.D.
24	Chromium (as Cr)	mg/Lit	Annex J of IS:13428	0.001(max)	N.D.
25	Sulphide (as S)	mg/Lit	APHA 22 <sup>nd</sup> Ed.2012,4500 <sup>-S</sup> -C,4-175 & F 4-178	0.01 (max)	N.D.
26	Cyanide (as CN)	mg/Lit	IS:3025:(part-27)	0.05 (max)	N.D.
27	Anionic Detergent (as MBAS)	mg/Lit	Annex K of IS:13428	0.02 (max)	N.D.
28	Phenolic Compound (as C <sub>6</sub> H <sub>5</sub> OH)	mg/Lit	IS:3025:(part-43)	0.001(max)	N.D.



HDD-272, Phase III - Near JP Chowk  
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099  
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

REPORT NO. - 06679

**TEST REPORT**

Sr. No.	Parameter	Unit	Method Reference	Limits as per IS 10500 : 2012	Result
29	Poly-nuclear Aromatic Hydrocarbon (PAH)	µg/Lit	APHA 22 <sup>nd</sup> Ed.2012,6440-6-93	0.0001(max)	N.D.
30	Mineral Oil	mg/Lit	IS:3025 (part-39):1991, RA 2003, Ed. 2.1	0.05 (max)	N.D.
Microbial Parameter					
1	Total Coliform	MPN/ 100 ML	IS:1622:1981:RA: 2019	Shall not be detectable in any 100 ml sample	40.0
2	E - Coli	MPN/ 100 ML	IS:1622:1981:RA: 2019	Shall not be detectable in any 100 ml sample	<2.0

Note: mg/lit.: milligram per liter.

**REMARKS: N.D. - NOT DETECTED****Terms & conditions**

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- This is for information as the party has asked for the above test(s) only

 25/12/23 <b>REVIEWED BY</b>		For ULTIMATE ENVIROLYTICAL SOLUTIONS  <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report.....



**Ultimate**  
ENVIROLYTICAL SOLUTIONS

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<i>Name &amp; Address Of The Customer</i>		REPORT NO.	UES/TR/23-24/06680
<b>To,</b>		LAB REF NO.	UES/23-24/N/012707-012708
<b>Crest Steel And Power Private Limited</b>		DATE OF REPORT	25/12/2023
<b>Village: Joratarai,</b>		DATE OF SAMPLING	20/12/2023
<b>Post - Mangatta</b>			
<b>Rajnandgaon 491441</b>			
<b>SAMPLE DETAILS</b>			
Monitoring For	Noise Level Monitoring		
Customer Ref. No. & Date	4232200409, Dated: 25.07.2023		
Sampling Location	1. Near Main Gate Area 2. Near Store Area		
Sample Collected By	Laboratory Chemist		
Sampling Procedure	Manufacturer's Instruction		

### TEST REPORT

LOCATION	UNIT	RESULT		LIMIT (INDUSTRIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
Near Main Gate Area	dB(A)	65.6	47.5	75	70
Near Store Area	dB(A)	59.3	44.7		

#### REMARKS: RESULTS ARE AS ABOVE

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-----End of the test report-----



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HDD-272, Phase III - Near JP Chowk  
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099  
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Name & Address Of The Customer <b>To,</b> <b>Crest Steel And Power Private Limited</b> <b>Village: Joratarai,</b> <b>Post - Mangatta</b> <b>Rajnandgaon 491441</b>	Report No	UES/TR/23-24/06682	
	Lab. Ref. No.	UES/23-24/W/012710	
	Date of Sampling	20/12/2023	
	Date of Receipt	21/12/2023	
	Date of Report	25/12/2023	
	Date of Analysis	Start: 21/12/2023	End: 25/12/2023

**SAMPLE DETAILS**

Customer Sample ID	SID - Kiln Effluent Water	Customer Ref. No. & Date	4232200409, Dated: 25.07.2023
Sample Type	Effluent Water	Sample Condition At Receipt	Ok
Packing of Sample	Jerry Cane (3 ltr.*1) Glass bottle (1 ltr.*1)	Sample Collected By	Laboratory Chemist
Other Details	Sealed	Quantity Received	Approx. 5Ltr.

**TEST REPORT**

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMITS AS PER CONSENT	RESULT
1	pH Value at 25.2°C	-	IS: 3025: (Part-11)	5.5 To 9.0	7.54
2	Total Suspended Solid	mg/L	IS: 3025: (Part-17)	100	32.0
3	Chemical Oxygen Demand	mg/L	IS: 3025: (Part-58)	250	84.0
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS: 3025: (Part-44)	30	16.4
5	Oil & Grease	mg/L	IS: 3025: (Part-39)	10	Absent

Note:mg/lit.: milligram per liter. N.D.: Not Detected.

**REMARKS: RESULTS ARE AS ABOVE**

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 25/12/23		For ULTIMATE ENVIROLYTICAL SOLUTIONS  
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-----End of the test report-----



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<i>Name &amp; Address Of The Customer</i>		<b>REPORT NO.</b>	UES/TR/23-24/06681	
<b>To,</b>		<b>LAB REF NO.</b>	UES/23-24/FE/012709	
<b>Crest Steel And Power Private Limited</b>		<b>DATE OF SAMPLING</b>	20/12/2023	
<b>Village: Joratarai,</b>		<b>DATE OF RECEIPT</b>	21/12/2023	
<b>Post - Mangatta</b>		<b>DATE OF REPORT</b>	25/12/2023	
<b>Rajnandgaon 491441</b>		<b>DATE OF ANALYSIS</b>	START: 21/12/2023	END: 25/12/2023
<b>SAMPLE DETAILS</b>				
<b>Monitoring For</b>	Fugitive Emission			
<b>Customer Ref. No.</b>	4232200409, Dated: 25.07.2023			
<b>Sampling Location</b>	Near Boiler Area			
<b>Duration Of Sampling</b>	8 Hours			
<b>Sample Collected by</b>	Laboratory Chemist			
<b>Sampling Procedure</b>	As Per Method Reference			
<b>Sample Quantity/Packing</b>	GMF Filter Paper (8 X 10 Inch): 1x1 No.			

### TEST REPORT

Locations	Unit	Suspended Particulate Matter (SPM)	Limit as per Moef & CC Notification	Method Reference
Near Boiler Area	µg/m <sup>3</sup>	862	2000	EPA Method IO-2.1

**REMARKS:N.D.- NOT DETECTED**

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-----End of the test report-----



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Name & Address Of The Customer  <b>To,</b> <b>Crest Steel And Power Private Limited</b> <b>Village: Joratarai,</b> <b>Post - Mangatta</b> <b>Rajnandgaon 491441</b>	REPORT NO	UES/TR/23-24/06683	
	LAB REF NO	UES/23-24/ST/012711	
	DATE OF SAMPLING	20/12/2023	
	DATE OF RECEIPT	21/12/2023	
	DATE OF REPORT	25/12/2023	
	DATE OF ANALYSIS	START: 21/12/2023	END: 25/12/2023
<b>SAMPLE DETAILS</b>			
MONITORING FOR	STACK EMISSION MONITORING		
SAMPLING LOCATION	STACK NO. - 1 (WHRB+AFBC)		
SAMPLE COLLECTED BY	LABORATORY CHEMIST		
SAMPLING PROCEDURE	IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003		
SAMPLE QUANTITY/PACKING	THIMBLE: 1 X 1 NO., SO2: 30 ML X 1 NO. PVC BOTTLE, NOX: 25 ML X 1 NO. PVC BOTTLE, RUBBER BLADDER: 1 X 1 NO., HG: 500ML X 1 NO. GLASS BOTTLE & 500ML X 3 NO. PVC BOTTLE.		

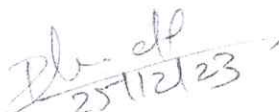

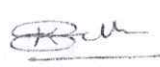
## TEST REPORT

Stack details				
STACK IDENTITY	STACK NO. - 1 (WHRB+AFBC)			
STACK ATTACHED TO	ESP			
MATERIAL OF CONSTRUCTION	RCC			
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	75			
STACK DIAMETER	3.5			
STACK SHAPE AT TOP	CIRCULAR			
TYPE OF FUEL	COAL			
Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	111.5	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	11.21	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	Nm <sup>3</sup> /h	300769.5	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	44.5	50	IS 11255 (Part 1):1985, RA 2003
SULPHUR DIOXIDE (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	194.6	600	IS 11255 (Part 2):1985, RA 2003
OXIDES OF NITROGEN (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	116.4	300	IS 11255 (Part 7):2005, RA 2012
CARBON MONOXIDE (CO)	mg/Nm <sup>3</sup>	0.3	-	IS 13270 RA 2019

REMARKS: :N.D.: NOT DETECTED

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 25/12/23		For ULTIMATE ENVIROLYTICAL SOLUTIONS    <b>AUTHORIZED SIGNATORY</b>
<b>REVIEWED BY</b>		

-----End of the test report-----



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Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099  
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

<b>Name &amp; Address Of The Customer</b>  <b>To,</b> <b>Crest Steel And Power Private Limited</b> <b>Village: Joratarai,</b> <b>Post - Mangatta</b> <b>Rajnandgaon 491441</b>	<b>REPORT NO</b>	UES/TR/23-24/06684	
	<b>LAB REF NO</b>	UES/23-24/ST/012712	
	<b>DATE OF SAMPLING</b>	20/12/2023	
	<b>DATE OF RECEIPT</b>	21/12/2023	
	<b>DATE OF REPORT</b>	25/12/2023	
	<b>DATE OF ANALYSIS</b>	START: 21/12/2023	END: 25/11/2023

#### SAMPLE DETAILS

<b>MONITORING FOR</b>	STACK EMISSION MONITORING
<b>SAMPLING LOCATION</b>	STACK NO - 2 (WHRB)
<b>SAMPLE COLLECTED BY</b>	LABORATORY CHEMIST
<b>SAMPLING PROCEDURE</b>	IS 11255 PART 1,2:1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012, IS 5182 (PART 10) :2003
<b>SAMPLE QUANTITY/PACKING</b>	THIMBLE: 1 X 1 NO., SO <sub>2</sub> : 30 ML X 1 NO. PVC BOTTLE, NOX: 25 ML X 1 NO. PVC BOTTLE, RUBBER BLADDER: 1 X 1 NO., HG: 500ML X 1 NO. GLASS BOTTLE & 500ML X 3 NO. PVC BOTTLE.

### TEST REPORT

<b>Stack details</b>					
<b>STACK IDENTITY</b>	STACK NO - 2 (WHRB)				
<b>STACK ATTACHED TO</b>	ESP				
<b>MATERIAL OF CONSTRUCTION</b>	RCC				
<b>STACK HEIGHT ABOVE GROUND LEVEL (MTR.)</b>	65				
<b>STACK DIAMETER</b>	2.13				
<b>STACK SHAPE AT TOP</b>	CIRCULAR				
<b>TYPE OF FUEL</b>	COAL				
<b>Parameter</b>	<b>Unit</b>	<b>Result</b>	<b>Limit</b>	<b>Method Reference</b>	
FLUE GAS TEMPERATURE	°C	157.8	-	IS 11255 (Part 3):2008	
FLUE GAS VELOCITY	M/s	7.23	-	IS 11255 (Part 3):2008	
TOTAL GAS QUANTITY	Nm <sup>3</sup> /h	64122.5	-	IS 11255 (Part 3):2008	
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	42.7	50	IS 11255 (Part 1):1985, RA 2003	
SULPHUR DIOXIDE (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	206.4	600	IS 11255 (Part 2):1985, RA 2003	
OXIDES OF NITROGEN (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	130.7	300	IS 11255 (Part 7):2005, RA 2012	
CARBON MONOXIDE (CO)	mg/Nm <sup>3</sup>	0.2	-	IS 13270 RA 2019	

REMARKS: :N.D.: NOT DETECTED

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 25/12/23		For ULTIMATE ENVIROLYTICAL SOLUTIONS  
<b>REVIEWED BY</b>		<b>AUTHORIZED SIGNATORY</b>

-----End of the test report-----



# RISK & DISASTER MANAGEMENT PLAN

Crest Steel & Power Pvt.Ltd.





**1. Purpose**

An DISASTER MANAGEMENT PLAN has been prepared to act as a guideline to channelize personnel & resources for optimum use in critical situation to minimise the adverse effect of disaster.

**2. Scope**

The scope of this DISASTER MANAGEMENT PLAN extends to various types of crisis and prospective emergency scenarios that may be experienced at site, factors affecting them, Emergency Procedures, Typical Organizational structure, Responsibilities of various Coordinators and Mobilization of emergency resources. It includes the following: -

- Working Plan during crisis
- Emergency Control Plan for Emergencies

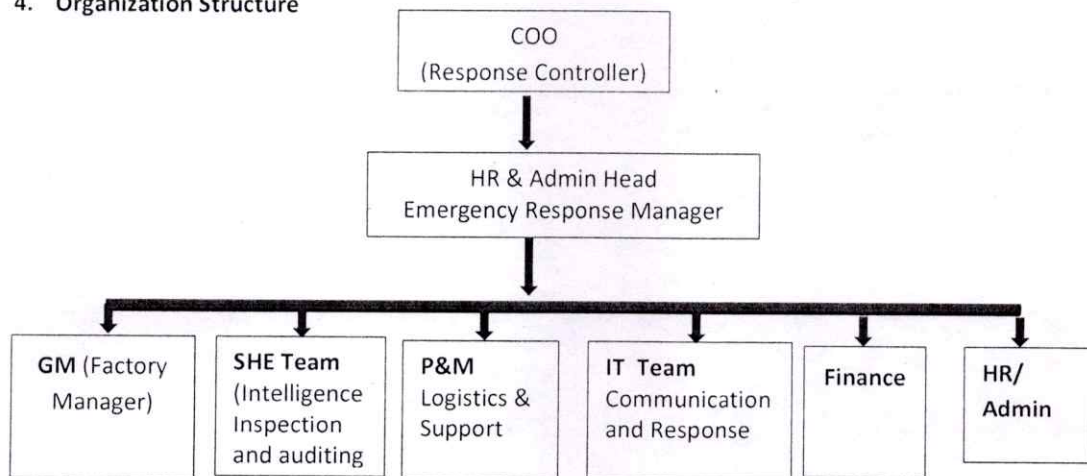
This procedure is applicable at all our project sites, stores, offices which gives guidance about emergency evacuation.

**3. Types of Emergencies**

The possible emergency situation may arise in project sites are as below: -

1. Fire Explosion
2. Earthquake
3. Gas/Toxic Release
4. Lighting, storm & Floods
5. Bomb Threats
6. Contagious Plan
7. Electrical Shocks
8. Fall from Height
9. Hit by moving Vehicles or Running train.
10. Protest by local peoples
11. Riots and Rowdyism
12. Incidents
13. Fatalities

**4. Organization Structure**



		REVIEWED BY:	APPROVED BY
SIGNATURE :		SIGNATURE :	:
NAME :	RAGHVENDRA	NAME :	DGM(HR&ADM)
			NAME :
			Factory Manager

Crest Steel & Power Private Limited.		
<b>RISK &amp; Disaster Management Plan</b>		

Roles	Responsibilities
<b>COO (Response Controller)</b>	Overall lead and coordinator of the disaster or emergency response and recovery.
<b>Emergency Response Manager</b>	To manage and coordinate to all the channel to work effectively at the time of emergency and communicate outside domain.
<b>Project Managers (Execution/ Operations)</b>	To provide support to Emergency Response Team. To manage and task additional resources to support operations. To manage the staff deployments at site and overview the flow of information to, and from, the Management. To manage the deployment of staff to other agencies as required.
<b>Safety Team (Intelligence, inspection and auditing)</b>	To collate, analyse and display information and intelligence to support situational awareness and decision making. To prepare Briefs and internal ERP Plan as required. To inspect and audit the emergency prone area.
<b>P&amp;M In-charge &amp; MM (Logistics)</b>	To securing resources and external services to support and sustain response operations and assist in the restoration of educational services.
<b>Emergency Response Team (Communication)</b>	To execute the Emergency Response plan. To evacuate the peoples from emergency. To create awareness on emergency by training and other communication medium. To manage the development of communications and briefs subsequent of information across the Department and externally during the response to a disaster or emergency.
<b>Finance</b>	Supports the other functional areas through the financing of operations as well providing administrative support and management of the Coordination Centre. Responsible for tracking of response costs for corporate accounting.
<b>HR and ADM</b>	Conduct activities to support staff resilience. Monitoring the management of risk, welfare SHE of all staff through the advice on entitlements, welfare and wellbeing support. To provide administrative support and management of the Coordination Centre.

#### 5. Emergency Response Procedure

		<b>REVIEWED BY:</b>		<b>APPROVED BY</b>	
SIGNATURE :		SIGNATURE :		:	
NAME :	RAGHVENDRA	NAME :	DGM(HR&ADM)	NAME :	Factory Manager

Crest Steel & Power Private Limited.	
<b>RISK &amp; Disaster Management Plan</b>	

A site-specific emergency procedure has been made at site as per activities and likelihood of emergencies. This plan be communicated to all personnel via the Site Induction Training and will be appended to all Site notice boards.

The Emergency Preparedness procedure will be reviewed by COO and Emergency Control Manager at least once in a year or immediate after emergency.

An onsite emergency response team may be established. External emergency services will be utilized to support the emergency response team, as their responsibility will be to stabilize the emergency until external assistance arrives.

Each Contractor will be required to make personnel available to the site to fulfil the duties associated with being a member of the Site Emergency Response Team. Team members to be required to participate in emergency response training as required by the CSPPL team.

CSPPL ERT team will conduct regular mock drills and emergency rescue training by external training providers, if required, will provide other specific emergency response training.

#### 6. Fire Prevention and Protection Plan

Sufficient no's of Fire extinguishers to be provided at site during the execution of hot work activity as necessary & required. Designated Fire man or Fire watch personnel to be trained and certified by SHE Department, proof of training and certification shall be provided. Fire watch personnel will be identified by wearing Red overalls and SHE helmets. L&T shall ensure that necessary fire preventive measures are being implemented.

Firefighting equipment such as extinguishers and fire blanket shall be made available.

- Work involving welding, burning or use of open flames.
- All the entrance and emergency exits of the buildings.
- On all equipment having diesel or gasoline engines.
- At all fuel and combustible materials storage areas.
- All fire extinguishers are to be inspected prior to project execution.

#### 7. Disaster Management Plan

##### 7.1. FIRE

In Case you notice a fire does the following:

- Rush to the spot and take charge of the rescue and control work.
- Be concerned about your own Safety and that of others
- Shout, "Fire Fire", raise an alarm and call for help from colleagues
- If the fire is small, attempt it to extinguish by using the nearest fire extinguishers available, without undue personal risk.
- At the same time, inform fire station, main gate and COO/Safety Officer.

		<b>REVIEWED BY:</b>		<b>APPROVED BY</b>	
SIGNATURE :		SIGNATURE :		:	
NAME :	RAGHVENDRA	NAME :	DGM(HR&ADM)	NAME :	Factory Manager

Crest Steel & Power Private Limited.	
<b>RISK &amp; Disaster Management Plan</b>	

- While reporting state:
  - Your name
  - What happened?
  - Location of Incident
- Instruct security staff to cordon off the affected area and guide the fire brigade personnel to the exact location of the fire and render all possible assistance to them.
- Keep all spectators and non – essential employees away from fire.
- If required, switch off the electrical supply, taking adequate care
- Try to remove flammable / dangerous materials lying in the vicinity without endangering yourself.
- If explosive type materials are involved immediately evacuate all personnel
- Count number of people involved and organize rescue of any trapped personnel with the help of the fire brigade.
- Make no comments. Refer all inquiries to the company Project Manager.

**Self-protective Measures**

- If your clothes catch on fire—STOP, DROP, & ROLL
- If you are caught in smoke, drop to your hands and knees and crawl.
- If you are trapped in a room, place cloth and material under the door to prevent smoke from entering.
- Retreat and close as many doors as possible between you and the fire.
- Be prepared to signal for help.

**Preventive Measures**

- Learn at least two escape routes and emergency exits from your area.
- Familiarize yourself with the location of firefighting equipment (e.g. fire extinguishers)
- Learn how to use fire extinguishers\*

\* Note: Use the acronym PASS to remember how to use an extinguisher.

P - Pull the safety pin.

A - Aim at the base of the fire.

S - Squeeze the trigger handles together.

S - Sweep from side to side across the fire.

**When a Fire Occurs (If you discover a fire):**

- Notify the fire department by dialling 101. Give your location, the nature of the fire, and your name.
- Notify your ERP Team Representative and/or other occupants.

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SIGNATURE :		SIGNATURE :		:	
NAME :	RAGHVENDRA	NAME :	DGM(HR&ADM)	NAME :	Factory Manager

	Crest Steel & Power Private Limited.	
	<b>RISK &amp; Disaster Management Plan</b>	

- Evacuate the area.

**If you are informed about a fire:**

- Evacuate the area. Close windows, and close doors as you leave.
- Leave the building; move away from exits and out of the way of emergency operations.
- Assemble in the designated marshal area.
- Report to the ERP Team Representative so they can determine that all personnel have evacuated your area.
- Remain outside until competent authority (Fire Fighter, Ambulance Attendant, or your supervisor) states that it is safe to re-enter.

**Fight the fire ONLY if:**

- The fire department has been notified of the fire, AND
- You have a way out and can fight the fire with your back to the exit, AND
- You have the proper extinguisher, in good working order, AND know how to use it.
- If you are not sure of your ability or the fire extinguisher's capacity to contain the fire, leave the area.

**7.2. EARTHQUAKE**

If you are inside the office building when an earthquake occurs:

- Stay under until the shaking stops.
- Stay away from windows, large panels of glass, ceiling tiles, file cabinets, book cases, heavy furniture, electrical equipment and appliances.
- Crawl under a desk or sturdy table and hold onto it. If it moves, move with it.
- Watch out for falling plaster or ceiling tiles.

If you are outside in the construction field when an earthquake occurs:

- Move to a clear area from unbalanced/ unsupported / partly erected structure / equipment's / buildings and electrical wires and poles that may fall.
- Stay clear of falling objects and find a place duck, cover and hold on.
- Stay near an interior wall and protect your head with your arm.
- Do not try to leave until the shaking is over.

**7.3. GAS/ TOXIC RELEASE**

- Try to identify the source of leak, if possible.

		REVIEWED BY:		APPROVED BY	
SIGNATURE :		SIGNATURE :		:	
NAME :	RAGHVENDRA	NAME :	DGM(HR&ADM)	NAME :	Factory Manager

	Crest Steel & Power Private Limited.	
	<b>RISK &amp; Disaster Management Plan</b>	

- Find out facts about:
  - Precise location
  - Material involved & quantity
  - Wind directions
- Warn people in the vicinity/neighbouring environment.
- Inform seniors
- Inform fire station. Instruct main gate to blow emergency siren.
- Take charge of the site and direct efforts to contain and control the leak by getting isolating valve closed, specific machinery is switched off. If leak isolation is not possible; arrange transfer of materials into another tank of low level and pressure.
- Get the movement of vehicles away from the source and cordon off the area.
- Use a wet cloth to cover your nose in case of breathing difficulty and move away from the source of toxic release.
- Do not touch or walk over the spilled liquid.
- Rush the affected persons to hospital and arrange medical care.
- Assess the effects of release in terms of fire, explosion, and toxicity and take preventive steps.
- Record all possible information about the toxic release and causalities.
- Make no comments. Refer all inquiries to the company project manager.

#### 7.4. LIGHTNING, STORM & FLOODS

In case of any:

- All employees to leave the work areas and take shelter under strong (RCC) roof.
- In case of heavy rain and indication of floods, people should take shelter on lying top floors of the buildings.
- People should not stay by the side of weak walls, loose structures, trees, electric poles, metal objects etc.
- People should try to carry drinking water, food stuff available, protective clothing, and battery powered radio, first aid kit etc., to safe locations where they are going to take shelter.
- Follow the instructions given by local authorities over radios / TVs / Public announcements.
- Avoid using any electrical appliances and disconnect power supply to electrical appliances.

		<b>REVIEWED BY:</b>		<b>APPROVED BY</b>	
SIGNATURE :		SIGNATURE :		:	
NAME :	RAGHVENDRA	NAME :	DGM(HR&ADM)	NAME :	Factory Manager

	Crest Steel & Power Private Limited.	
	<b>RISK &amp; Disaster Management Plan</b>	

- Avoid using telephone, in case of lightning.

**7.5. BOMB THREATS**

When a bomb threat is received for the first time:

- Local police, fire or bomb disposal authorities will be immediately notified.
- The project or office shall be evacuated immediately.
- Evacuation will be made of all personnel on the project or in the office.
- A personnel count should be made to ensure that all are present and accounted for.
- Do not allow anyone except authorized personnel to re-enter the area.
- If necessary to stop or detour traffic away from the affected area, utilize police or flag man.
- A search of the premises will be made by the appropriate authorities. No company personnel shall be involved in the search.
- Notify other business people or residents who may be endangered by the threat.
- Appoint one person as the company spokesperson.
- Allow no photograph on site.
- Make no comments.
- Notify the company's local office immediately.
- Assist the authorities with information and in every other possible ways to anyone without danger.
- If a suspicious article is found do not touch it. Inform the appropriate authorities to handle the situation.
- Enter the premises only after careful evaluation of the circumstances, (to be made by the company's senior management in consultation with appropriate law enforcement authorities) and permission of local management.

**7.6. Contagious Diseases**

- Bar all entry to visitors
- Inform Medical Regulatory bodies about the incident immediately
- Isolate the area from Personnel Movement except those related to Medical Relief
- Declare Emergency Situation if required
- Control Mob / onlookers
- Mobilize Medical teams, Medical Supplies, Movement Vehicles, Associated Hospitals / Labs
- Ensure Electricity supply and Communication

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- Ensure Essential supply of Medical Team
- Inform Relatives of the affected people and arrange their travel as required
- Check for communication to interested parties including neighbours and statutory and regulatory bodies
- Open Helpline at affected site
- Upon deciding shifting affected persons to identified hospitals, shift the personnel
- Deploy assistance teams at the hospitals as required
- OHS coordinator shall report formally both internally and to statutory and regulatory bodies about the incident
- Handle Media and External communication as per policies
- Prepare Report of the situation

**7.7. Electric Shocks**

- Isolate the affected circuit from electric supply
- Provide first-aid to the injured for
  - ✓ Shock
  - ✓ Burns
  - ✓ Temporary breathlessness
- Declare Emergency Situation if required
- Control Mob / onlookers
- Depending on the nature of injury, decide to shift the patient to the Medical assistance or request Medical assistance on-site through ambulance
- Inform relatives of the affected person
- Install sign boards on the affected circuits
- Repair, Rectify and Restore the healthiness of the circuit involved
- If required, informed statutory and regulatory bodies for any checks and validations before using the affected facility.
- Update records for further analysis for corrective and preventive actions

**7.8. Fall from Height**

- Provide First-Aid to the injured personnel
- Isolate area from operations
- Declare Emergency Situation if required

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- Control Mob / onlookers
- Mobilize support and shift injured to medical room
- Arrange for taking injured home after Out-patient treatment
- If necessary, admit injured to the hospital. Coordinate patient / Hospital Needs
- Inform statutory and regulatory bodies as needed
- Rectify and check for healthiness of the area
- Restore site condition to safe normal situation
- Prepare Report of the situation
- Handle Media and External communication as per policies
- Update records for further analysis for corrective and preventive actions

**7.9. Hit by Moving Vehicles or Train**

- Provide First-Aid to the injured personnel
- Isolate area\vehicle from operations
- Control Mob / onlookers
- Mobilize support and shift injured to medical room/Hospital
- Arrange for taking injured home after Out-patient treatment
- If necessary, admit injured to the hospital. Coordinate patient / Hospital Needs
- Inform relatives
- Inform Police
- Prepare Report of the situation
- Handle Media and External communication as per policies
- Update records for further analysis for corrective and preventive actions

**7.10. Riots or Rowdyism**

- Immediately Inform to Site Engineer, Supervisor, SHE officer for assistance.
- Approach to reach near police station.
- Be prepared for unforeseen situations.
  - Get familiar with your area and peoples.
  - Think about your possible escape routes.
  - If you work in a volatile environment, make sure you know several routes for getting home so that you have a number of methods of escape in the event of a riot.
  - Carry small amounts of cash with you in case you need to quickly arrange transportation, pay off looters, or address your basic needs.
- Remain calm.

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- Avoid confrontation by keeping your head down.
- Walk at all times. If you run or move too quickly, you might attract unwanted attention.
- Don't get involved.
- Drive appropriately if you're in a car.
- Move away from the riot as calmly as possible.
- Continue to move with the crowd until you can escape into a doorway, an alley, a side street, or a safe building.
- If you're in the middle of a crowd, it's especially important to try to move in the direction of the crowd until you make your way to the outside of the crowd.
- Avoid heavy-traffic areas.
- Move to a safe enclosed area.
- **Stay informed.**
  - ❖ Use the social media to alert you as to where to stay away from, as well as the local radio and news.
  - ❖ Messages informing you of which streets and areas are currently being targeted provide you with instantaneous warnings of where to avoid.
  - ❖ Social media may provide new information as rapidly as possible, though it may not be as accurate, so keep your bases covered.
- **Additional Precautions for High-Risk Areas**
  - Wear safe clothes.
  - Carry a solution for rinsing your eyes in case you're exposed to tear gas.
  - Keep your ID Card.
  - Carry cell phone.
  - Have sugar candy on hand to keep up your energy.
  - Avoid being hit by riot control chemicals or weapons.

#### 7.11. Injuries

In the event that a medical emergency does occur, the 1st Aid attendant must be notified immediately.

If this requires contact via a telephonic, use the following procedures:

- Ensure the communication properly.
- Stay calm; Speak slowly and clearly.
- State that there is an emergency and that you require.
- Provide the 1st Aid attendant with: location, number of injured, type of injury and any
- Special equipment that may be required
- DO NOT GIVE OUT THE INJURED PERSON(S)' NAME(S)
- If possible; stay within telephonic contact and with the injured person

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### 7.12. Fatalities

In the event that a fatality does occur use the following procedures:

- Ensure the scene is safe to approach.
- Do not disturb the incident scene except to conduct 1st Aid
- If possible, sensitive information should be relayed by telephone, cell phone or any other type of secure link.
- Never relay the name of the subject over the radio.
- Notify safety officer with all of the facts, etc.
- Cover the body.
- Seal off the area.
- Make notes as to your observations of the incident and photograph or sketch the scene before any disturbance takes place; and gather witness information.
- Do not leave the scene unless relieved or advised by the Project Manager or, if staying at that location will place you at personal risk.
- Do not release any details to the media.

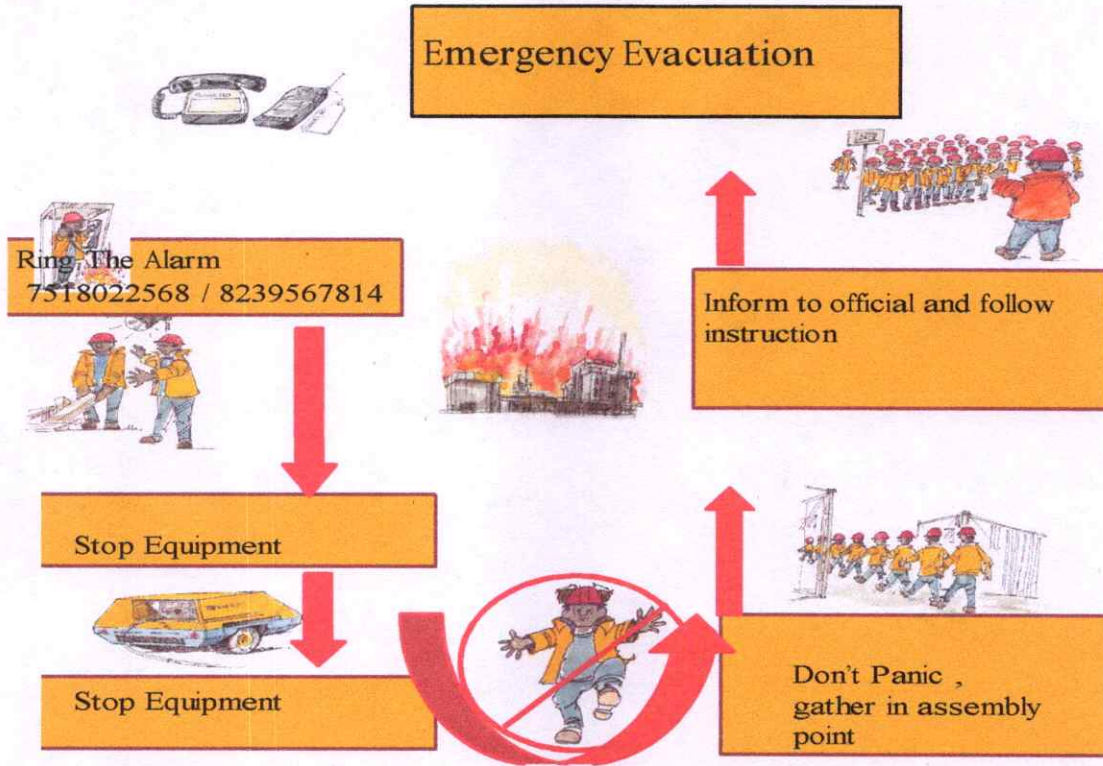
### 8. First Aid

First Aid Boxes – First Aid boxes will be located at all the various locations. The Content of First aid boxes would be as per the DFCCIL procedures & Govt. of India first aid leaflet. L&T will provide and ensure a suitably equipped First Aid facility for the duration of the Project. A register would be maintained by Doctor/ male nurse.

Ambulance facilities to be ensured by tie-up with the nearest hospital. The maximum distance covered within the radius of 20 km. if not possible, L&T shall engage ambulance for high risk activities. Ensure that the Ambulance would be equipped with the medical care facilities. First aid centre would be developed as per Part-2 “Employer’s Requirement, section VI, Volume 6, Appendix 10- First Aid Base”.

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9. Emergency Evacuation Plan



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10. Emergency Contacts

**EMERGENCY CONTACT NUMBER**

S.N.	NAME	Designation	Contact Nos
1	B V Narayanan	COO	9109118804
2	R N Mishra	Sr. SHE Manager	7006367436
3	Kranti Kumar Rishi	HR Admin Head	9617770669
4	Police		100
5	Ambulance		101/108
6	Fire		101/7906327626

**EMERGENCY RESPONSE TEAM - ERT**

S.N.	NAME	Designation	Contact Nos
1	K N Rout	Factory Manager	9522302165
2	Mahesh Sahu	DGM	9522177149
3	Sukhdev Biswas	Manager	9617701783
4	Mantosh Kumar	Manager	9522177141
5	Akash Pateria	AGM	9617701225
6	S P Sharma	Sr. Manager	9617702746
7	C N Vema	Manager	9617701781
8	Santosh Pandey	Asst. Manager	9617701231
9	Manoj Sharma	Store Manager	9617701708
10	K D Surendran	Manager	9617701240

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