

**30<sup>th</sup> Nov 2022**

To,

The Regional Director,  
Central Pollution Control Board,  
4<sup>th</sup> Floor, Shankar Bhawan,  
North TT Nagar,  
Bhopal (M.P)- 462 003  
Phone- 0755-2775384

**Sub. - Submission of compliance of conditions of Environmental Clearance (EC) for the period April 2022 – Sep 2022.**

**Ref. EC granted by MOEF, New Delhi vide F.No.I-11011/267/2007IA (I) dated 02.04.2009 , 09.09.2010, 23.08.2012 and 26.12.2019.**

Dear Sir,

With reference to above, we are submitting herewith compliance of conditions (alongwith proper annexures) mentioned in Environmental Clearances granted to us by MOEF vide above referred numbers for the period **April 2022 – Sep 2022**.

This is for your kind information please.

Thanking You  
Yours Faithfully

**For MSP Steel & Power Ltd.**



**Prashant Pandey**  
**Sr. General Manager-Corporate co-ordn.**

Copy to-

1. IRO-MOEF, Atal Nagar, Raipur (C.G.)
2. The Member Secretary, CECB, Sector 19, Paryawas Bhawan, Atal Nagar, Raipur (C.G.)
3. Regional Officer, CECB, Raigarh (C.G.)

**E-COMPLIANCE OF CONDITIONS OF ENVIRONMENTAL CLEARANCE GRANTED BY MOEF, NEW DELHI VIDE F.NO.J-11011/267/2007-IA II(I) DATED 02.04.2009. Status for the period of APR.2022to SEPT. 2022**

**A. SPECIFIC CONDITIONS**

SN	SPECIFIC CONDITIONS	COMPLIANCE STATUS																																			
I	<p>Efforts should 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 and sufficient air pollution in to devices shall be provided to keep the emission levels below 100 mg / Nm<sup>3</sup>. At no time, the emission level shall be beyond the prescribed standard Interlocking facilities shall be provided so that process can be automatically stopped. In case of emission level exceeds the limit. Data on ambient air quality and stack emissions shall be regularly submitted to this Ministry Including its Regional Office at Bhopal, CPCB and Chhattisgarh Environment Conservation Board (CECB) once in six months.</p>	<p><b>Status of Installation Unit wise (Annex-I)</b></p> <table border="1"> <thead> <tr> <th data-bbox="1062 353 1208 382">Capacity</th><th data-bbox="1208 353 1410 382">ESP</th><th data-bbox="1410 353 1612 382">BAG FILTER</th><th data-bbox="1612 353 1792 382">VENT FILTER</th><th data-bbox="1792 353 2028 382">DRY FOG</th></tr> </thead> <tbody> <tr> <td data-bbox="1062 382 1208 504"><b>Sponge Iron 3.75 LTPA</b></td><td data-bbox="1208 382 1410 504">03 nos. ESP (each 3 field)</td><td data-bbox="1410 382 1612 504">04 nos bag house</td><td data-bbox="1612 382 1792 504">04 nos.Vent Filter</td><td data-bbox="1792 382 2028 504">Installed Dry Fog system</td></tr> <tr> <td data-bbox="1062 504 1208 642"><b>CPP (10+4.5 &amp; 34 MW)</b></td><td data-bbox="1208 504 1410 642">03no. ESP (3 &amp; 5 Field)</td><td data-bbox="1410 504 1612 642">03 no. Bag house</td><td data-bbox="1612 504 1792 642">03 no. vent filter</td><td data-bbox="1792 504 2028 642"></td></tr> <tr> <td data-bbox="1062 642 1208 699"><b>SMS -IF+CCM 3.84 LTPA</b></td><td data-bbox="1208 642 1410 699">-</td><td data-bbox="1410 642 1612 699">01 no. Bag house</td><td data-bbox="1612 642 1792 699"></td><td data-bbox="1792 642 2028 699"></td></tr> <tr> <td data-bbox="1062 699 1208 806"><b>Pellet 12.50 LTPA</b></td><td data-bbox="1208 699 1410 806">03 nos. ESP (3 Field),</td><td data-bbox="1410 699 1612 806">02 no. Bag house</td><td data-bbox="1612 699 1792 806"></td><td data-bbox="1792 699 2028 806"></td></tr> <tr> <td data-bbox="1062 806 1208 853"><b>Rolling Mill 4.80 LTPA</b></td><td colspan="3" data-bbox="1208 806 1410 853">Casting of billet in CCM &amp; hot rolling online.</td><td data-bbox="1792 806 2028 853"></td></tr> </tbody> </table>	Capacity	ESP	BAG FILTER	VENT FILTER	DRY FOG	<b>Sponge Iron 3.75 LTPA</b>	03 nos. ESP (each 3 field)	04 nos bag house	04 nos.Vent Filter	Installed Dry Fog system	<b>CPP (10+4.5 &amp; 34 MW)</b>	03no. ESP (3 & 5 Field)	03 no. Bag house	03 no. vent filter		<b>SMS -IF+CCM 3.84 LTPA</b>	-	01 no. Bag house			<b>Pellet 12.50 LTPA</b>	03 nos. ESP (3 Field),	02 no. Bag house			<b>Rolling Mill 4.80 LTPA</b>	Casting of billet in CCM & hot rolling online.								
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II	<p>As proposed, electrostatic precipitator (ESP) shall be provided to DRI plant, Sinter Plant, Iron Ore agglomeration unit. WHRB and ABC boilers to control air emissions within 100 mg/Nm<sup>3</sup> Gas cleaning plant having dust catcher and bag filter shall be provided to blast furnace (BF) and BF gas shall be used for power generation. Ventury scrubbers shall be provided to Rolling Mill.</p>	<ul style="list-style-type: none"> <li>- <b>Complied</b></li> <li>- ESP capacity reported earlier is adequate to maintain emission within permissible level.</li> <li>- Blast Furnace condition noted &amp; shall follow on establishment of project.</li> <li>- On line rolling process is adopted and unit is not using re-heating furnace in the Rolling Mills.</li> </ul>																																			
III	<p>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. Blast Furnace gas shall be used for power generation.</p>	<ul style="list-style-type: none"> <li>- <b>Complied</b></li> <li>- All kilns are equipped with DSC &amp; ABC to burn CO and hot gases used in WHRB.</li> <li>- Gas sucked through I D Fan is cleaned in ESP before finally discharged to atmosphere.</li> <li>- Emission control system is installed as mentioned in clause (I)</li> <li>- Condition for BF will be followed while establish the</li> </ul>																																			

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IV	Gaseous emission levels including secondary fugitive emission from blast furnace and sinter plant shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored Guidelines I Code of Practice issued by the CPCB shall be followed, The emission standards issued by the ministry in May 2008 for the sponge plants shall be followed.	<ul style="list-style-type: none"> <li>- <b>Noted the conditions.</b></li> <li>- Norms will be followed while establish the BF project &amp; Sinter plant project.</li> </ul>																
V	vehicular pollution due to transportation of raw material and finished product shall be controlled, Proper arrangements shall also be made to control dust emission during loading and unloading of the raw material and finished product, All the raw materials, including fly ash shall be transported In the closed containers only and shall not be overloaded Vehicular emission shall be regularly monitored.	<ul style="list-style-type: none"> <li>- <b>Complied</b></li> </ul> <p><b>Control of vehicular pollution</b></p> <p><b>-Raw material:</b> Transported in covered vehicle and water spraying system at unloading point of ground hopper.</p> <ul style="list-style-type: none"> <li>- <b>Finish Product:</b> Covered vehicle and stored in silo. Telescopic chute is installed to prevent emission of dust during loading of Sponge iron.</li> <li>- Fly ash transfer to silo through pneumatic conveying system, moisturize during loading and transported in enclosed condition.</li> </ul>																
VI	In plant control measures for checking fugitive emissions from all the vulnerable sources like spillage/raw materials/coal handling etc, shall be provided, Further, specific measures like provision of dust suppression system consisting of water sprinkling, suction hoods, fans and bag filters etc. shall be installed at material transfer points and other enclosed raw material handling areas to control fugitive emissions, Centralized de-dusting system i.e. collection of fugitive emissions through suction hood and subsequent treatment through bag filter or any other device and finally emitted through a stack of appropriately designed height conforming to the standards shall be provided. Dust extraction system with bag filters shall be provided in coal crushing, screening, cooler discharge areas, product separation areas etc and by providing covered sheds to control fugitive emissions Fugitive emissions shall be regularly monitored and records maintained.	<ul style="list-style-type: none"> <li>- <b>Complied</b></li> <li>- Proper control &amp; monitoring devices are installed as shown in <b>Annex. I</b> <ul style="list-style-type: none"> <li>- Fugitive emission monitored and all records maintained.</li> <li>- <b>Additional water spraying system is installed to comply the direction of IRO in Letter No. 932 dated 21.09.2022 and our ATR submitted on dated 03.10.2022 where it is advised.</b></li> </ul> </li> </ul> <table border="1" data-bbox="1170 1091 2039 1255"> <thead> <tr> <th data-bbox="1170 1091 1388 1160">Sprinkler details</th><th data-bbox="1388 1091 1605 1160">Existing No.</th><th data-bbox="1605 1091 1823 1160">Addition proposed</th><th data-bbox="1823 1091 2039 1160">Total</th></tr> </thead> <tbody> <tr> <td data-bbox="1170 1160 1388 1191">Rolling Mill</td><td data-bbox="1388 1160 1605 1191">32</td><td data-bbox="1605 1160 1823 1191">05</td><td data-bbox="1823 1160 2039 1191">37</td></tr> <tr> <td data-bbox="1170 1191 1388 1223">Pellet plant</td><td data-bbox="1388 1191 1605 1223">50</td><td data-bbox="1605 1191 1823 1223">10</td><td data-bbox="1823 1191 2039 1223">60</td></tr> <tr> <td data-bbox="1170 1223 1388 1255">Coal Washery</td><td data-bbox="1388 1223 1605 1255">36</td><td data-bbox="1605 1223 1823 1255">05</td><td data-bbox="1823 1223 2039 1255">41</td></tr> </tbody> </table> <p><b>Annex- II (Fugitive dust Monitoring report)</b></p>	Sprinkler details	Existing No.	Addition proposed	Total	Rolling Mill	32	05	37	Pellet plant	50	10	60	Coal Washery	36	05	41
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VII	<p>Total water requirement from Sapnai River / Kurnala for the expansion shall not exceed to 6701.2 m3/day as per the permission accorded by the Water Resource Department. Govt. of Chhattisgarh. No ground water shall be used in BF-GCP and coal washery water shall be treated in the thickener and properly used, Acidic and Alkaline effluent from DM water plant shall be neutralized and reused in the plant. All the other waste water shall be treated In effluent treatment Plant (ETP) and used for ash conditioning, dust suppression and green belt development. No waste water shall be discharged outside the premises and 'Zero' effluent discharge 'shall be ensured, Domestic effluent will be treated in Septic Tank followed by soak pit.</p>	<ul style="list-style-type: none"> <li>- <b>Complied</b> <ul style="list-style-type: none"> <li>- Water consumption does not exceed the quantity approved in EC - Water bill is paid to WRD regularly.</li> <li>- Coal washery is not in operation since for viability reason.</li> <li>- Waste water from RO DM plant is neutralized and re used for dust suppression and green belt development.</li> <li>- ETP, installed and waste water treated and used in ash conditioner. Test report of NABL accredited &amp; CECB approved lab.</li> </ul> </li> </ul> <p><b>Annex- III (Waste water test report)</b></p> <ul style="list-style-type: none"> <li>- Domestic effluent is treated in septic tank by soak pit.</li> <li>- We ensure Zero discharge of water outside of premises. Flow meter and camera at generation point and discharge line is installed. Online Data transmission provided to server of CPCB / CECB.</li> </ul>
VIII	<p>Prior permission for the drawl of 6,701.2 m3/day water from Sapnai River I Kurnala from the concerned department shall be obtained.</p>	<ul style="list-style-type: none"> <li>- <b>Complied</b> <p>Permission obtain for 2 MCM water from Sapnai/Kurnala from the Ministry of Water Resources Division, Raipur vide letter no. 6728 dated 11.11.2009. Our present requirement is within the permitted limit of 2MCM</p> </li> <li>- Copy of above approval in this regard is attached herewith as <b>Annex-IV (Permission for water withdrawal)</b>.</li> </ul>
IX	<p>The water consumption for the proposed steel plant shall not exceed 16 m3/Ton of steel as per prescribed standard.</p>	<ul style="list-style-type: none"> <li>- <b>Complied</b> <ul style="list-style-type: none"> <li>- Water consumption is under prescribed standard. <b>Third party water audit certificate is attached Annex. V</b></li> </ul> </li> </ul>
X	<p>Ground water monitoring around the solid waste disposal site I secured landfill (SLF) shall be carried out regularly and report submitted to the Ministry, regional Office at CECB, CPCB and SPCB.</p>	<ul style="list-style-type: none"> <li>- <b>Complied</b> <p>Ground water quality is monitored at surrounding area of plant and nearby villages on six monthly, last monitoring report is attached herewith as <b>Annex. VI (Ground water test report)</b></p> </li> <li>- Ground water quality is not adversely affected by our unit.</li> </ul>
XI	<p>All the Char, coal washery rejects and middling should be used in AFBC based power- plant,: Granulated slag shall be sold to cement plant. All the other solid</p>	<ul style="list-style-type: none"> <li>- <b>Complied</b> <ul style="list-style-type: none"> <li>- All Char &amp; reject coal is used as fuel in our own AFBC</li> </ul> </li> </ul>

	wastes including broken refractory mass shall be properly disposed off in environmental-friendly manner Oily waste shall be provided to authorized recyclers /re-processors'.	Power Plant. - Granulated slag is used in side road construction. -Broken waste refractories are sold to buyers. -Oil waste as used oil sold to authorize recyclers.
xii	AFBC Plant shall be installed before installation of Sponge Iron Plant so that utilization of char in the AFBC boiler is ensured. All the char from DRI plant and washery rejects shall be utilized in AFBC boiler of power plant and no char. shall be disposed off anywhere else. All the blast furnace (SF) slag shall be granulated and provided to cement manufacturers for further utilization. Ash from WHRB of DRI plant and AFBC boiler shall be given to brick making units/cement plants. Accretion slag, SMS slag and tailings shall be properly disposed off in environment-friendly manner.	<ul style="list-style-type: none"> <li>- <b>Complied.</b></li> <li>- Dolochar is used in our own CPP (AFBC and CFBC) Power Plants.</li> <li>- SMS slag, after metal recovery is used in the filling of low lying area within premises for upcoming project.</li> </ul> <p>- <b>Blast furnace not Established.</b></p>
xiii	No solid/hazardous waste like-fly ash and BF slag shall be disposed off in the abandoned mines Without proper permission from the concerned department. Waste oil shall be provided to registered recyclers / re-processors	<ul style="list-style-type: none"> <li>- Blast furnace is yet to be installed.</li> <li>- Used oil sold to authorize recyclers with due clearance / Authorization from CECB.</li> <li>- Used oil analyzed for toxic metal composition before its disposal to authorized recycler.</li> </ul> <p><b>Annex- VII (Solid waste analysis report)</b></p> <p><b>Annex- VIII(Used oil test report)</b></p>
xiv	A time bound action plan shall be submitted to reduce solid waste. Its proper utilization and disposal to the Ministry's Regional Office at Bhopal, CECB/CPCB.	<ul style="list-style-type: none"> <li>- <b>Complied.</b></li> <li>- The unit has submitted in the office of CPCB, Raipur and Raigarh a time bound action plan for utilization of solid waste.</li> </ul> <p><b>Annex- IX (Action plan)</b></p>
xv	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 solid/hazardous waste shall be submitted to the Ministry's Regional Office at Bhopal, SPCB and CPCB	<ul style="list-style-type: none"> <li>- <b>Complied.</b></li> <li>- All Char &amp; reject coal is used as fuel in our own AFBC Power Plant.</li> <li>- Granulated slag is used in side road construction.</li> <li>-Broken waste refractories are sold to buyers.</li> <li>- Solid waste (Fly ash, Bed ash, SMS Slag and SMS Bag filter dust tested for toxic metal composition, finding of the report is satisfying the permissible norms.</li> </ul>

		Annex- VII (Solid waste test report)																				
xvi	Proper utilization of fly ash shall be ensured as per Fly ash Notification, 1999 as amendment In 2003. Ash shall be stored in silo and given to cement plants /brick manufacturers for further utilization.	<ul style="list-style-type: none"> <li><b>Complied</b></li> <li>Fly ash generated from our Captive power plants is fully utilized as per the MoEF&amp;CC norms for Brick manufacturing, civil works, road construction and filling of low lying area of projects that came up in our periphery.</li> <li><b>Fly ash generation and its utilization in the last six month is as under.</b></li> </ul> <table border="1"> <thead> <tr> <th>Total Fly ash Gen (MT)</th> <th>Brick Making (MT)</th> <th>Low lying land filling (MT)</th> <th>Road making (MT)</th> <th>Other Eco-friendly use (MT)</th> <th>% Utilization</th> </tr> </thead> <tbody> <tr> <td>107274</td> <td>52906</td> <td>26034</td> <td>7250</td> <td>21084</td> <td>100%</td> </tr> </tbody> </table> <p>The unit had granted permission by RO, CECB Raigarh wide letter no 589/RO/TS/CECB/2022 dated 03.06.2022 for 50000 MT. Copy of letter is attached as Annex-X</p> <ul style="list-style-type: none"> <li>Residual of composite ash &amp; dust comprising of bottom ash, char dust, granulated slag is stored at designated area. The storage of such ash &amp; dust are kept in scientific manner involving Geo-carpeting, water spraying, soil covering and same is compacted. The mounds are compacted and vegetation of local plants and grass grownup. There is no chance of any collapse or other adverse environmental impact noticed additional protection ATR submitted to the ministry for construction of Toe Wall and garland drain.</li> </ul> <p><b>Compliance Status made as per ATR is as under</b></p> <table border="1"> <thead> <tr> <th>Total Length of Toe wall and drain (Mtr.)</th> <th>Work done (Mtr.)</th> <th>Work to be done (Mtr.)</th> <th>Target Date</th> </tr> </thead> <tbody> <tr> <td>2760</td> <td>925</td> <td>1835</td> <td>March 2023</td> </tr> </tbody> </table> <ul style="list-style-type: none"> <li>However, for productive use of said mounds we have planned to put solar power project of 2.0 MW on the top of flat part</li> </ul>	Total Fly ash Gen (MT)	Brick Making (MT)	Low lying land filling (MT)	Road making (MT)	Other Eco-friendly use (MT)	% Utilization	107274	52906	26034	7250	21084	100%	Total Length of Toe wall and drain (Mtr.)	Work done (Mtr.)	Work to be done (Mtr.)	Target Date	2760	925	1835	March 2023
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		<p>of two mounds and develop more plantation in rest of the area.</p> <p><b>New fly ash base value added product also taken up as sustainable measure.</b></p> <p><b>(i) Fly ash Gypsum composite:</b> The unit has signed MoU with CBRI-Roorkee to transfer of technology of use of fly ash-Gypsum composite usable as plastering material for interior application as substitute of cement. Copy of agreement signed with CSIR-CBRI is attached as <b>Annex- XI</b></p> <p><b>(ii) Geo-polymer concrete Product:</b> MSPSPL is in the process of constructing Geo-polymer cement free concrete road by using fly ash nearly 60% for which hired Ex-CBRI Principal Scientist who has invented the technology and constructed the road in NTPC Dadri.</p>										
xvii	As proposed, green belt shall be developed in 180 acres (33 %) out of total 541 acres Within and around the plant premises as per the CPCB guidelines in consultation with DFO.	<p>– <b>Complied</b></p> <p>– We have already completed 33% of green belt development as per CPCB guideline but some of the plants burn due to coal fire in COVID period.</p> <table border="1"> <thead> <tr> <th><b>Total plantation required</b></th> <th><b>In existing plantation area no of Trees</b></th> <th><b>Re-plantation in progress</b></th> <th><b>Plantation to be done</b></th> <th><b>Target</b></th> </tr> </thead> <tbody> <tr> <td><b>41600</b></td> <td><b>28000</b></td> <td><b>13600</b></td> <td><b>13600</b></td> <td><b>March 2023</b></td> </tr> </tbody> </table>	<b>Total plantation required</b>	<b>In existing plantation area no of Trees</b>	<b>Re-plantation in progress</b>	<b>Plantation to be done</b>	<b>Target</b>	<b>41600</b>	<b>28000</b>	<b>13600</b>	<b>13600</b>	<b>March 2023</b>
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xviii	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Sector shall be implemented.	<p>– Various CSR activities carried out under advice from District Administration.</p> <p>– CREP policy is not applicable at this stage.</p>										
xix	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 be In the form of temporary structures to be removed after the completion of the project	<p>– <b>Complied</b></p> <p>– At project stage temporary housing facility with all amenities are provided and removed after completion of project.</p> <p>– During operation stage separate housing facility provided, away from Factory premises.</p>										

B	GENERAL CONDITIONS	
i	The project authorities must strictly adhere to the stipulations made by the Chhattisgarh Environment Conservation Board (CECB) and the State Government	<ul style="list-style-type: none"> <li>- The unit followed strictly the stipulations made by the CECB and the State Government.</li> <li>- CTE/CTO obtained on satisfactory compliance is made.</li> </ul>
ii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	<ul style="list-style-type: none"> <li>- Noted and shall follow the same.</li> </ul>
iii	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th May. 1993 and standards prescribed from time to time. The State Board 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.	<p><b>– Complied</b></p> <ul style="list-style-type: none"> <li>- Gaseous emission from stack ie Sox and NOx is monitored through CEMS and data uploaded to the server of SPCB/CPCB.</li> <li>- Measures taken for effective control of pollution by proper installation, maintenance of pollution control devices.</li> </ul>
iv	At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO <sub>2</sub> and NOx are anticipated in consultation with the CECB. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Bhopal and the CECB/CPCB once in Six months	<p><b>– Complied</b></p> <ul style="list-style-type: none"> <li>- AAQMS and CEMS are installed and data uploaded on line as per guide line.</li> </ul>
v	Industrial waste water shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May. 1993 and 31st December, 1993 or as amended from time to time, The treated waste water shall be utilized for plantation purpose	<p><b>– Complied</b></p> <ul style="list-style-type: none"> <li>- Industrial waste such as boiler blow down water treated and used in dust conditioner and sprinklers.</li> <li>- RO reject water neutralize and used in road spraying.</li> <li>- Waste water treated in ETP and use for dust conditioner and plantation.</li> </ul>
vi	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 should conform to the standards prescribed under EPA Rules. 1989 VIZ. 75 dBA (daytime). and 70 dBA (Night Time)	<p><b>– Complied</b></p> <ul style="list-style-type: none"> <li>- Regular monitoring of vibration carried out to control Noise.</li> <li>- Acoustic hoods, silencers are provided with DG sets</li> <li>- Environmental cell monitoring noise both work zone &amp; Ambient air twice in a month and no abnormality has been observed.</li> </ul>

vii	Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act	<ul style="list-style-type: none"> <li>- <b>Complied</b></li> </ul> <p>Industry has Occupational Health centre in the premises where health checkup done periodically and record maintained.</p> <ul style="list-style-type: none"> <li>- Health checkup report submitted with the office of Industrial Health &amp; Safety, Raigarh.</li> </ul>
viii	The company shall develop surface water harvesting structures to harvest the rain water for utilization In the lean season besides recharging the ground water table.	<ul style="list-style-type: none"> <li>- <b>Complied</b></li> </ul> <ul style="list-style-type: none"> <li>- The unit has adopted rain water harvesting techniques with provision for collection of roof water &amp; runoff water for recharge of ground water level.</li> </ul>
ix	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIAIEMP report. Further, the company must undertake socioeconomic development activities in the surrounding villages like community development programmes, Educational Programmes, drinking water supply and health care etc.	<ul style="list-style-type: none"> <li>- <b>Complied</b></li> </ul> <p>Community development carried out under District administration.</p> <ul style="list-style-type: none"> <li>- Health care camps.</li> <li>- Education. By providing teacher.</li> <li>- Ambulance service for villagers.</li> <li>- Drinking water.</li> </ul>
x	Adequate funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Bhopal. The funds so provided shall not be diverted for any other purpose.	<ul style="list-style-type: none"> <li>- <b>Complied</b></li> </ul> <ul style="list-style-type: none"> <li>- Proper pollution control devices as shown in the <b>Annex. I</b> are installed and maintained by our in house Environment management cell.</li> </ul>
xi	The Regional Office of the Ministry at Bhopal/ CPCB/CECB will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	<ul style="list-style-type: none"> <li>- <b>Complied</b></li> </ul> <ul style="list-style-type: none"> <li>- The Regional Officer CECB, time to time visits the plant and monitors the Environmental emissions.</li> <li>- Last Six month monitoring data for Stack Air, Ambient air, fugitive emission, Noise monitoring (Ambient &amp; work zone) and drinking water attached herewith</li> </ul> <p><b>Annex- II (Fugitive dust Monitoring report)</b></p> <p><b>Annex- XIII (Stack , Ambient &amp; Noise monitoring report)</b></p>
xii	The Project Proponent shall inform the public that the project has been accorded environmental	<ul style="list-style-type: none"> <li>- <b>Complied</b></li> </ul> <ul style="list-style-type: none"> <li>- We had made a publication of the said matter in two local</li> </ul>

	<p>clearance by the Ministry and copies of the clearance letter are available with the CECB and may also be seen at Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a>. This shall 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 should be forwarded to the Regional office</p>	<p>newspapers with a view to inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the CECB and may also be seen at Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a></p> <ul style="list-style-type: none"> <li>- Copies of EC is made available to public and administration.</li> <li>- AAQMS &amp; CEMS data is uploaded online to CECB / CPCB server.</li> <li>- Display board is installed to display operational status.</li> </ul>
xiii	<p>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.</p>	<ul style="list-style-type: none"> <li>- <b>Complied</b></li> <li>- Concerned regional authority was made aware the financial closure in due course of time.</li> </ul>
7	<p>The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory</p>	<ul style="list-style-type: none"> <li>- We have noted the point.</li> </ul>
8	<p>The Ministry reserves the right to stipulate additional conditions if found necessary the company in a time bound manner shall implement these conditions</p>	<ul style="list-style-type: none"> <li>- We have noted the point.</li> </ul>
9	<p>Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997</p>	<ul style="list-style-type: none"> <li>- We have noted the point.</li> </ul>
10	<p>The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention &amp; Control of Pollution) Act, 1974. The Air (Prevention &amp; Control of Pollution) Act, 1981. The Environment (Protection) Act. 1986, Hazardous Wastes (Management and Handling) Rules, 2003 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.</p>	<ul style="list-style-type: none"> <li>- We have noted the point.</li> </ul>

**COMPLIANCE OF CONDITIONS ADDED IN THE ENVIRONMENTAL CLEARANCE GRANTED BY MOEF, NEW DELHI VIDE F. NO.J-11011/267/2007-IA II(I) DATED 09.09.2010. Status for the period of APRIL. 2022- SEPT.2022**

<b>SN</b>	<b>Conditions</b>	<b>Compliance Status</b>
i	The company shall comply with all the conditions stipulated vide Ministry's letter no, J-11011/267/2007- IA-I! (I) dated 2 <sup>nd</sup> April, 2009	-We are complying with the conditions stipulated vide Ministry's letter no, J-11011/267/2007- IA-II (I) dated 2 <sup>nd</sup> April, 2009
ii	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 2261 E: dated 16 <sup>th</sup> November, 2009 shall be followed	<b>- Complied.</b>
iii	The water consumption shall not exceed the existing capacity of 6701.2 m <sup>3</sup> /day.	<b>Complied.</b> -No incidence of any excess consumption.
iv	The proposed change In configuration shall be implemented in the existing land area of 541 acres no additional land shall be acquired	Noted and shall follow the same.
v	Efforts shall be made to use maximum water from the rain water harvesting sources, 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.	<b>Complied.</b> - The unit has adopted rain water harvesting system with provision for collection of roof water & runoff water to recharge of ground water level and for use in plant as well.
vi	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 bell development. No effluent shall be discharged and 'zero' discharge shall be adopted.	<b>Complied.</b> - Industrial waste such as boiler blow down water, treated and used in dust conditioner and sprinklers. - RO reject water neutralize and used in road spraying. - Waste water treated in ETP and use for dust conditioner and plantation.
vii	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad I Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions I representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent	<b>Complied.</b> -Copy of clearance letter was sent to concerned local bodies.
viii	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, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely: RSPM,	<b>-Complied.</b> - PM10, PM2.5 SO <sub>2</sub> , NO <sub>x</sub> in ambient air & PM, SO <sub>2</sub> & NO <sub>x</sub> at Stack monitored & displayed at Main gate month wise. - AAQMS and CEMS installed and online data uploaded as per guide line.

	SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical 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.	
ix	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><b>- Complied</b></p> <p>-We have noted point and complied accordingly.</p>
x	The environmental statement for each financial year ending 31 <sup>st</sup> March in Form-V as 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><b>- Complied</b></p> <p>-The Environmental Statement is being submitted annually on regular basis. The copy of the same is also submitted to the office of Regional Officer, CPCB, Raigarh (C.G.)</p>
xi	In case of change in the scope of the project, the unit shall obtain fresh environmental clearance	<p>-We shall surely obtain a fresh environmental clearance if there is any change in the scope of the project.</p>

**COMPLIANCE OF CONDITIONS ADDED IN THE ENVIRONMENTAL CLEARANCE GRANTED BY MOEF, NEW DELHI VIDE F. NO.J-11011/267/2007-IA II(I) DATED 23<sup>rd</sup> August, 2012. Status for the period of APRIL 2022- SEPT.2022**

SN	Conditions	Compliance Status
i	The company shall comply with all the conditions stipulated vide Ministry's letters dated 02.04.2009 & 09.09.2010 and conditions stipulated in the consents granted by CECB.	-We are complying with the conditions stipulated, compliance attached above.
ii	The company shall submit within three months their policy towards Corporate Environment responsibility which should inter-alia address (i) Standard operating process/procedures to being into focus any infringement/deviation/violation of environmental or forest norms/conditions, (ii) Hierarchical system or administrative order of the company to deal with environmental issues and ensuring compliance to the environmental clearance conditions and (iii) System of reporting of non compliance/violation environmental norms to the Board of directors of the company and /or stakeholders or shareholders.	The unit has prepared the Hierarchical system. <b>Annex-XIV</b>

**COMPLIANCE OF CONDITIONS ADDED IN THE ENVIRONMENTAL CLEARANCE GRANTED BY MOEF, NEW DELHI VIDE F. NO.J-11011/267/2007-IA II(I) dated 26<sup>th</sup> Dec, 2019. Status for the period of APRIL- 2022- SEPT.2022**

SN	Conditions	Compliance Status
i	No Ground water drawl is permitted.	Noted and followed. The unit has permission for the use of surface water (02 MCM).
ii	Air cooled condenser in Power plant shall be used.	Closed circuit water cooling system is provided from the start. Pursuant to said EC dt 26.12.2019 for DRI capacity enhancement from 3.0 LTPA to 3.75 LTPA (25%) with conditions of Air Cooled condenser in replacement of existing water cooled system is not feasible due to lack of operational efficiency and a representation to that effect was submitted to the Ministry vide our letter dt 31.12.2019 addressed to the Joint Secretary, MoEF & CC endorsing a copy to The Director, IA Division, Industry 1 to waive off the condition. <b>Factors considered for continuing of WCC</b> i) Usually Air Cooled Condenser (ACC) is recommended in a water scarcity zone declared by the Central Ground Water Authority, GoI. Whereas our plant location in Raigarh does not fall under Water Scarcity zone.

	<p><b>ii)</b> Existing Turbine and connected cooling system is designed as per Water Cooled Condensation system. Change of Cooling system Air Cooled Condenser (ACC) would involve substantial modification of systems and mechanism and replacement of high value capital goods having an operation life of more than 10 years further.</p> <p>iii) ACC requires more space which is not available at the existing site.</p> <p>iv) ACC, having low thermal conductivity, its performance degrades under high ambient temperatures and windy condition causing loss of performance efficiency by 3% approx whereas WCC ensures consistent efficiency for high rate of heat transfer, which is demanded operationally.</p> <p>v) ACC operation consumes more Auxiliary power of about 1.3% the WCC capable of rendering equal output in addition to reduced efficiency of 3% approx. Excess consumption of power generated by greater quantity of coal affects the carbon footprint and has a proportionate adverse bearing on environment.</p> <p><b>EXPERT OPINION ON USE OF WCC ARE :</b></p> <ul style="list-style-type: none"> <li>- The unit has also consulted with SIEMENS technology provider and other CPP operation consultant M/S AKB Power Ltd and M/S Shaktipunj Engg. Pvt Ltd, they have also suggested to continue with WCC as whole system designed for WCC.</li> <li>- Further MSPSPL has engaged NIT, Raipur for their expert opinion on ACC and WCC. They have visited and inspected our CPP unit on 05.05.2022. They have also suggested continuing with WCC as Raigarh has no scarcity of water.</li> </ul> <p><b>EC Amendment application :</b> Further, we have submitted our application in PARIVESH Portal in prescribed format for amendment of EC dated 09.05.2022 with a request to amend the additional condition of 17(ii) present EC dated 26.12.2019. Ministry is also requested to provide us an opportunity to represent the matter before the Expert Appraisal Committee (EAC) for appropriate decision.</p> <p><b>15<sup>th</sup> EAC(IND-1 sector) held on dated 17-18 Oct 2022.</b> We please to inform that our request for the continuation of use of WCC is considered by EAC and recommended our proposal to continue with WCC. Extract of said MoM from <b>page 234</b> is posted below.</p> <p>(i) Strict compliance of all the conditions observed as</p>
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		<p>non-complied as per the report of IRO, MoEFCC Raipur in accordance to the submitted action plan. PP shall comply with the targets and timelines as per letter dated 14.09.2022 and affidavit dated 25.10.2022 to address the issues related to control of fugitive emission, fly ash management and greenbelt development.</p> <p>(ii) A proper action plan must be implemented to dispose of the electronic waste generated in the industry.</p> <p>(iii) The total PM generated and the percentage of this captured by the pollution control equipment per annum must be reported regularly.</p> <p>(iv) All other terms and conditions stipulated in the environmental clearance accorded shall remain unchanged.</p>			
iii	Emission levels from Bag filter and ESP shall be 30mg/Nm <sup>3</sup> and 50 mg/Nm <sup>3</sup> respectively.	The unit has installed Bag filters and ESP of adequate capacity to maintain emission level within prescribed limit. On line CEMS also installed and data communicated to the server of CECB & CPCB.			
iv	PP committed for the use of imported coal only. However, the committee felt that during non-availability of imported coal, PP shall be using Indian coal. Therefore, the pollution control equipments shall be designed for the use of Indian coal.	The unit had already installed pollution control devices of adequate capacity where Indian coal can be used.			
v	Zero liquid discharge shall be adopted.	The unit has installed ETP and treated water is used for the dust conditioning and dust suppression system.			
vi	100 % waste utilization shall be followed.	Solid wastes are utilized 100% as per the conditions of EC & CTO without causing any adverse impact on environment such as brick making, road construction & reclamation of low land with appropriate consent.			
vii	Green belt shall cover plantation of 50,000 saplings in and around the plant site in a time frame of five years.	<p><b>Compliance on addition plantation of 50000 in 05 years.</b></p> <p>- The Unit has planted about 27184 plants in 2020-21, 2021-22 &amp; 2022-23 in its inside and outside of periphery villages namely Junadih, Navapara &amp; Jamgaon Basti despite pandemic situation. Remaining 23000 plantations will be covered within 2025.</p> <p><b>Compliance on addition plantation of 50000 in 05 years is as under</b></p> <table border="1"> <thead> <tr> <th>Plantation done/Proposed</th> <th>Year</th> <th>No. of Trees</th> </tr> </thead> </table>	Plantation done/Proposed	Year	No. of Trees
Plantation done/Proposed	Year	No. of Trees			

		<b>Done</b>	<b>2020-21</b>	<b>6396</b>
		<b>Done</b>	<b>2021-22</b>	<b>7788</b>
		<b>Done</b>	<b>2022-23</b>	<b>13000</b>
		<b>Proposed</b>	<b>2023-24</b>	<b>12500</b>
		<b>Proposed</b>	<b>2024-25</b>	<b>10500</b>
		<b>Total</b>		<b>50184</b>
		Details of Plantation done in 2022-23 and proposed for coming three years is attached as <b>Annex-XV</b>		

**FUGITIVE AIR MONITORING REPORT ANNEX -II**

SI	Division	Location	Results in $\mu\text{g}/\text{m}^3$ (Limit is 2000 $\mu\text{g}/\text{m}^3$ )					
			APR-22	MAY-22	JUNE-22	JULY-22	AUG.-22	SEPT.-22
01	SMS	Near Ground hopper.	1146	1035	1644	1125	1483	1258
		Near office	1916	1562	1453	1526	1289	1731
		Near Furnace no.3	1383	1249	1914	1765	1744	1842
		Near Slag Crusher	1827	1938	1956	1898	1872	1836
02	Rolling Mill	Near Work Shop-RMD	1708	1438	1088	612	1034	1731
		Material Loading yard-RMD	1097	1454	1382	873	688	767
		Near Pusher-RMD	1522	1684	Shut down	1832	1624	1878
		Near QC lab	1361	1556	1206	1025	1106	973
		Material Loading yard -RMS	845	948	852	780	638	661
		LSM MCC Room	1354	1230	1122	833	577	779
		Material Loading yard -LSM	1148	1062	835	764	835	1343
03	SID	Between Kiln 1 & 2	1883	1368	1120	1178	1003	993
		Kiln 4 Separation House	1870	1520	1443	1532	1578	1101
		RMP-Old Circuit	1804	1620	1543	1123	1224	1504
		RMP-New Circuit	1720	1480	1336	1373	1186	941
		Kiln 1 & 2 Product House	1834	1892	1909	1648	1436	1821
04	CPP - 1	CHP area	1440	1580	1382	1416	1083	1657
		Boiler area	1890	Shut Down	1746	1346	1170	1759
		Silo Area	1805	1825	1985	1581	1744	1882
05	PELLET PLANT	Near Benification	1540	1023	1164	1023	1186	1038
		Near PCI	1788	1543	1135	1062	1153	1429
		Near P1 Cooler	1693	1230	1337	1238	1457	1886
		Near P2 Cooler	1487	1936	Shut Down	1930	1835	1867
		Near MTM	1934	1897	1934	1892	1896	1725
06	CPP - 2	Near CHP Ground Hopper	1852	1339	1282	1458	1435	1308
		Near Boiler	1388	1297	841	903	934	1244
		Silo Area	1824	1374	1667	1917	1715	1645
07	COAL WASHERY	Near Screen House	1620	1418	1042	1228	1131	1472
		Near Ground Hopper	1837	1644	1589	1446	1667	1644

Remarks:- SPM Limit is 2000 ( $\mu\text{g}/\text{m}^3$ ) As per CPCB Standards,

**E-Compliance of EC condition APRIL-22 TO SEPT-22**  
**MSP Steel and Power Limited, Jamgaon. Raigarh CG.**

Format No. : UES/FORM/09



**Ultimate**  
 ENVIROLYTICAL SOLUTIONS

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 1986

Name & Address Of The Customer		REPORT NO.	UES/TR/22-23/03932
<b>To,</b>	<b>MSP STEEL &amp; POWER LIMITED</b>	LAB REF NO.	UES/22-23/FE/09636-09645
<b>VILLAGE - JAMGAON,</b>		DATE OF SAMPLING	12/10/2022
<b>POST - JAMGAON, DIST-RAIGARH,</b>		DATE OF RECEIPT	15/10/2022
<b>496001 (CHHATTISGARH)</b>		DATE OF REPORT	19/10/2022
		DATE OF ANALYSIS	START: 15/10/2022   END: 19/10/2022
SAMPLE DETAILS			
Monitoring For	Fugitive Emission		
Customer Ref. No.	RD229-00038, DATED: 21.09.2022		
Sampling Location	MENTIONED BELOW		
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
KILN NO. 4	µg/m³	1180.2		
WHRB # 04	µg/m³	1090.4		
CPP-1 BOILER	µg/m³	840.3		
CPP-1 CHP	µg/m³	1130.0		
CPP-2 CHP	µg/m³	1131.4		
CPP-2 BOILER AREA	µg/m³	680.5		
SMS QC LAB	µg/m³	710.4		
SMS FURNACE - 3	µg/m³	1296.2		
PELLET PCI	µg/m³	910.2		
OLD BENEFICITION	µg/m³	895.3		
			2000	EPA Method 10-2.1

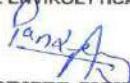
**REMARKS: N.D.- NOT DETECTED**

**Terms & conditions**

- The report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test(s) only.

  
 15/10/22

For ULTIMATE ENVIROLYTICAL SOLUTIONS



AUTHORIZED SIGNATORY

End of the test report

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

## Water Analysis Report

## Annex -III

Format No.: UES/FORM/09

Format No.: UES/FORM/09

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

Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Customer		REPORT NO	UES/TR/22-23/0848
TO, <b>MSP STEEL &amp; POWER LIMITED</b> Village - JAMGAON POST - JAMGAON, DIST-RAIGARH, 496001 (CHHATTISGARH)		LAB REF NO	UES/22-23/W/01406-01408
		DATE OF SAMPLING	15/04/2022
		DATE OF RECEIPT	16/04/2022
		DATE OF REPORT	21/04/2022
		DATE OF ANALYSIS	START:16/04/2022   END:21/04/2022
SAMPLE DETAILS			
Customer Ref. No.	RD211-00016, DATED: 07.01.2022		
Sample Type	EFFLUENT WATER		
Customer Sample ID	1. CPP-1ETP 2. CPP-2 ETP 3. Junadhi Colony (STP)		
Packing Of Sample	Plastic Bottle (Sealed)		
Sample Collected By	Laboratory Chemist		
Quantity Received	Approx. 5 Ltr. each		

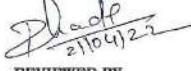
TEST REPORT							
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMITS AS PER CONSENT		RESULT	
				CPP-1	CPP-2	JUNADIHI COLONY	
1	pH Value at 25.2°C	-	IS:3025: (Part-11)	5.5 To 9.0	7.58	7.26	7.64
2	Total Suspended Solid	mg/l	IS:3025: (Part-17)	100	20.0	22.0	18.0
3	Total Dissolved Solids	mg/l	IS:3025: (Part-16)	-	418.0	246.0	192.4
4	Chemical Oxygen Demand	mg/l	IS:3025: (Part-58)	250	20.0	34.0	48.0
5	Bio-chemical Oxygen Demand at 27°C for three days	mg/l	IS:3025: (Part-44)	30	4.2	8.6	16.4
6	Oil & Grease	mg/l	IS:3025: (Part 39)	10	N.D.	N.D.	N.D.
7	Total Coliform	MPN/100ml	APHA 22 <sup>nd</sup> Edition-(9221-D)	-	Absent	Absent	Absent

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

## REMARKS: RESULTS ARE AS ABOVE

## Terms &amp; conditions

- The report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test(s) only.

		For ULTIMATE ENVIROLYTICAL SOLUTIONS  <i>sent to you</i> 21/04/22
REVIEWED BY		AUTHORIZED SIGNATORY

End of the test report

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

Format No.: UES/FORM/09

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ENVIROLYTICAL SOLUTIONS

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

Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Customer	REPORT NO	UES/TR/22-23/0966
<b>TO,</b> <b>MSP STEEL &amp; POWER LIMITED</b> Village - JAMGAON POST - JAMGAON, DIST-RAIGARH, 496001 (CHHATTISGARH)	LAB REF NO	UES/22-23/W/01617-01619
	DATE OF SAMPLING	10/05/2022
	DATE OF RECEIPT	11/05/2022
	DATE OF REPORT	17/05/2022
	DATE OF ANALYSIS	START:12/05/2022   END:17/05/2022

SAMPLE DETAILS	
Customer Ref. No.	RD211-00016, DATED: 07.01.2022
Sample Type	EFFLUENT WATER
Customer Sample ID	1. CPP-1ETP 2. CPP-2 ETP 3. Junadhi Colony (STP)
Packing Of Sample	Plastic Bottle (Sealed)
Sample Collected By	Laboratory Chemist
Quantity Received	Approx. 5 Ltr. each

TEST REPORT							
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMITS AS PER CONSENT		RESULT	
				CPP-1	CPP-2	JUNADIHI COLONY	
1	pH Value at 25.2°C	-	IS:3025: (Part-11)	5.5 To 9.0	7.48	7.16	7.54
2	Total Suspended Solid	mg/l	IS:3025: (Part-17)	100	22.0	26.0	16.0
3	Total Dissolved Solids	mg/l	IS:3025: (Part-16)	-	426.0	254.2	198.2
4	Chemical Oxygen Demand	mg/l	IS:3025: (Part-58)	250	24.0	32.0	40.0
5	Bio-chemical Oxygen Demand at 27°C for three days	mg/l	IS:3025: (Part-44)	30	4.0	7.6	12.8
6	Oil & Grease	mg/l	IS:3025: (Part 39)	10	N.D.	N.D.	N.D.
7	Total Coliform	MPN/100ml	APHA 22 <sup>nd</sup> Edition-(9221-D)	-	Absent	Absent	Absent

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

## REMARKS: RESULTS ARE AS ABOVE

## Terms &amp; conditions

- The report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test(s) only.

		For ULTIMATE ENVIROLYTICAL SOLUTIONS  <i>sent to you</i> 17/05/22
REVIEWED BY		AUTHORIZED SIGNATORY

End of the test report

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

Format No. : UES/FORM/09

**Ultimate**  
ENVIROLYTICAL SOLUTIONS

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 1986

Name & Address Of The Customer		REPORT NO	UES/TR/22-23/01028
<b>TO,</b> <b>MSP STEEL &amp; POWER LIMITED</b> <b>Village – JAMGAON</b> <b>POST - JAMGAON, DIST-RAIGARH,</b> <b>496001 (CHHATTISGARH)</b>		LAB REF NO	UES/22-23/W/01812-01815
		DATE OF SAMPLING	11/06/2022
		DATE OF RECEIPT	13/06/2022
		DATE OF REPORT	18/06/2022
		DATE OF ANALYSIS	START: 13/06/2022   END: 18/06/2022
SAMPLE DETAILS			
Customer Ref. No.	RD211-00016, DATED: 07.01.2022		
Sample Type	EFFLUENT WATER		
Customer Sample ID	1. CPP-1ETP 2. CPP-2 ETP 3. Junadihi Colony (STP)		
Packing Of Sample	Plastic Bottle (Sealed)		
Sample Collected By	Laboratory Chemist		
Quantity Received	Approx. 5 Ltr. each		

## TEST REPORT

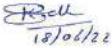
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMITS AS PER CONSENT			RESULT		
				CPP-1	CPP-2	JUNADIHI COLONY	CPP-1	CPP-2	JUNADIHI COLONY
1	pH Value at 25.2°C	-	IS:3025: (Part-11)	5.5 To 9.0	7.53	7.19	7.61	7.51	7.17
2	Total Suspended Solid	mg/L	IS:3025: (Part-17)	100	24.0	27.0	18.0	23.0	26.6
3	Total Dissolved Solids	mg/L	IS:3025: (Part-16)	-	428.0	255.6	199.6	427.0	255.2
4	Chemical Oxygen Demand	mg/L	IS:3025: (Part-58)	250	36.0	38.0	48.0	32.0	36.0
5	Bio-chemical Oxygen Demand at 27°C for three days	mg/L	IS:3025: (Part-44)	30	6.3	8.5	15.3	5.7	7.5
6	Oil & Grease	mg/L	IS:3025: (Part 39)	10	N.D.	N.D.	N.D.	N.D.	N.D.
7	Total Coliform	MPN/100ml	APHA 22 <sup>nd</sup> Edition- (9221-D)	-	Absent	Absent	Absent	Absent	Absent

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

## REMARKS: RESULTS ARE AS ABOVE

## Terms &amp; conditions

- The report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for **TEST REPORT** only

REVIEWED BY   18/06/22	 ULTIMATE ENVIROLYTICAL SOLUTIONS HDD-272, Phase III - Near JP Chowk Kabir Nagar, Raipur (C.G.) - 492099 Ph : 0771 - 4027777   Email : ultimatenviro@gmail.com	For ULTIMATE ENVIROLYTICAL SOLUTIONS   Lata
AUTHORIZED SIGNATORY		

End of the test report

Format No. : UES/FORM/09

**Ultimate**  
ENVIROLYTICAL SOLUTIONS

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 1986

Name & Address Of The Customer		REPORT NO	UES/TR/22-23/01085
<b>TO,</b> <b>MSP STEEL &amp; POWER LIMITED</b> <b>Village – JAMGAON</b> <b>POST - JAMGAON, DIST-RAIGARH,</b> <b>496001 (CHHATTISGARH)</b>		LAB REF NO	UES/22-23/W/01888-01890
		DATE OF SAMPLING	13/07/2022
		DATE OF RECEIPT	14/07/2022
		DATE OF REPORT	19/07/2022
		DATE OF ANALYSIS	START: 14/07/2022   END: 19/07/2022
SAMPLE DETAILS			
Customer Ref. No.	RD211-00016, DATED: 07.01.2022		
Sample Type	EFFLUENT WATER		
Customer Sample ID	1. CPP-1ETP 2. CPP-2 ETP 3. Junadihi Colony (STP)		
Packing Of Sample	Plastic Bottle (Sealed)		
Sample Collected By	Laboratory Chemist		
Quantity Received	Approx. 5 Ltr. each		

## TEST REPORT

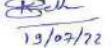
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMITS AS PER CONSENT		RESULT		
				CPP-1	CPP-2	JUNADIHI COLONY	CPP-1	CPP-2
1	pH Value at 25.2°C	-	IS:3025: (Part-11)	5.5 To 9.0	7.51	7.17	7.57	7.57
2	Total Suspended Solid	mg/L	IS:3025: (Part-17)	100	23.0	26.6	17.0	17.0
3	Total Dissolved Solids	mg/L	IS:3025: (Part-16)	-	427.0	255.2	199.2	199.2
4	Chemical Oxygen Demand	mg/L	IS:3025: (Part-58)	250	32.0	36.0	44.0	44.0
5	Bio-chemical Oxygen Demand at 27°C for three days	mg/L	IS:3025: (Part-44)	30	5.7	7.5	14.1	14.1
6	Oil & Grease	mg/L	IS:3025: (Part 39)	10	N.D.	N.D.	N.D.	N.D.
7	Total Coliform	MPN/100ml	APHA 22 <sup>nd</sup> Edition- (9221-D)	-	Absent	Absent	Absent	Absent

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

## REMARKS: RESULTS ARE AS ABOVE

## Terms &amp; conditions

- The report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for **TEST REPORT** only

REVIEWED BY   19/07/22	 ULTIMATE ENVIROLYTICAL SOLUTIONS HDD-272, Phase III - Near JP Chowk Kabir Nagar, Raipur (C.G.) - 492099 Ph : 0771 - 4027777   Email : ultimatenviro@gmail.com	For ULTIMATE ENVIROLYTICAL SOLUTIONS   Lata
AUTHORIZED SIGNATORY		

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

Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Customer		REPORT NO	UES/TR/22-23/01122
<b>TO,</b> <b>MSP STEEL &amp; POWER LIMITED</b> <b>Village - JAMGAON</b> <b>POST - JAMGAON, DIST-RAIGARH,</b> <b>496001 (CHHATTISGARH)</b>		LAB REF NO	UES/22-23/W/02046-02048
		DATE OF SAMPLING	08/08/2022
		DATE OF RECEIPT	09/08/2022
		DATE OF REPORT	13/08/2022
		DATE OF ANALYSIS	START: 09/08/2022   END: 13/08/2022
SAMPLE DETAILS			
Customer Ref. No.	RD211-00016, DATED: 07.01.2022		
Sample Type	EFFLUENT WATER		
Customer Sample ID	1. CPP-1ETP 2. CPP-2 ETP 3. Junadhi Colony (STP)		
Packing Of Sample	Plastic Bottle (Sealed)		
Sample Collected By	Laboratory Chemist		
Quantity Received	Approx. 5 Ltr. each		

#### TEST REPORT

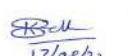
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMITS AS PER CONSENT			RESULT		
				CPP-1	CPP-2	JUNADHI COLONY	CPP-1	CPP-2	JUNADHI COLONY
1	pH Value at 25.2°C	-	IS:3025: (Part-11)	5.5 To 9.0	7.49	7.15	7.53	7.47	7.14
2	Total Suspended Solid	mg/L	IS:3025: (Part-17)	100	22.0	26.2	16.2	21.0	25.8
3	Total Dissolved Solids	mg/L	IS:3025: (Part-16)	-	426.0	254.8	198.4	424.0	254.0
4	Chemical Oxygen Demand	mg/L	IS:3025: (Part-58)	250	28.0	30.0	40.0	24.0	32.0
5	Bio-chemical Oxygen Demand at 27°C for three days	mg/L	IS:3025: (Part-44)	30	4.8	6.7	12.7	4.1	7.6
6	Oil & Grease	mg/L	IS:3025: (Part 39)	10	N.D.	N.D.	N.D.	N.D.	N.D.
7	Total Coliform	MPN/100ml	APHA 22 <sup>nd</sup> Edition-(9221-D)	-	Absent	Absent	Absent	Absent	Absent

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

#### REMARKS: RESULTS ARE AS ABOVE

##### Terms & conditions

- The report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test(s) only

  
13/08/22  
REVIEWED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS  
  
AUTHORIZED SIGNATORY

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

Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Customer		REPORT NO	UES/TR/22-23/01250
<b>TO,</b> <b>MSP STEEL &amp; POWER LIMITED</b> <b>Village - JAMGAON</b> <b>POST - JAMGAON, DIST-RAIGARH,</b> <b>496001 (CHHATTISGARH)</b>		LAB REF NO	UES/22-23/W/02165-02167
		DATE OF SAMPLING	21/09/2022
		DATE OF RECEIPT	22/09/2022
		DATE OF REPORT	27/09/2022
		DATE OF ANALYSIS	START: 22/09/2022   END: 27/09/2022
SAMPLE DETAILS			
Customer Ref. No.	RD211-00016, DATED: 07.01.2022		
Sample Type	EFFLUENT WATER		
Customer Sample ID	1. CPP-1ETP 2. CPP-2 ETP 3. Junadhi Colony (STP)		
Packing Of Sample	Plastic Bottle (Sealed)		
Sample Collected By	Laboratory Chemist		
Quantity Received	Approx. 5 Ltr. each		

#### TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMITS AS PER CONSENT			RESULT		
				CPP-1	CPP-2	JUNADHI COLONY	CPP-1	CPP-2	JUNADHI COLONY
1	pH Value at 25.2°C	-	IS:3025: (Part-11)	5.5 To 9.0	7.47	7.14	7.49	7.47	7.14
2	Total Suspended Solid	mg/L	IS:3025: (Part-17)	100	21.0	25.8	16.2	21.0	25.8
3	Total Dissolved Solids	mg/L	IS:3025: (Part-16)	-	424.0	254.0	197.6	424.0	254.0
4	Chemical Oxygen Demand	mg/L	IS:3025: (Part-58)	250	24.0	32.0	40.0	24.0	32.0
5	Bio-chemical Oxygen Demand at 27°C for three days	mg/L	IS:3025: (Part-44)	30	4.1	7.6	12.7	4.1	7.6
6	Oil & Grease	mg/L	IS:3025: (Part 39)	10	N.D.	N.D.	N.D.	N.D.	N.D.
7	Total Coliform	MPN/100ml	APHA 22 <sup>nd</sup> Edition-(9221-D)	-	Absent	Absent	Absent	Absent	Absent

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

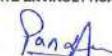
#### REMARKS: RESULTS ARE AS ABOVE

##### Terms & conditions

- The report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test(s) only

  
27/09/22  
REVIEWED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS  
  
AUTHORIZED SIGNATORY

End of the test report

## Water Draw Approval

## Annex-IV

चत्तीसगढ़ शासन  
जल संसाधन विभाग  
मंत्रालय  
केपिटल कॉम्प्लेक्स, महानदी भवन,  
नया रायपुर (छ.ग.)

क्रमांक...../273/जस/तशा/औजप्र/05/डी-4, नया रायपुर दिनांक /04/2013  
प्रति.

मुख्य अभियंता,  
हसदेव काछार,  
जल संसाधन विभाग,  
बिलासपुर (छ.ग.)

विषय:- मेसर्स एम.एस.पी. स्टील एण्ड पॉवर लि., कोलकाता द्वारा, जिला एवं ब्लॉक-रायगढ़ द्वारा, ग्राम-जामगाँव के निकट स्थापित एवं विस्तार हेतु प्रस्तावित इंटीग्रेटेड स्टील एवं 96 मेगावाट कंट्रिव पॉवर प्लाट हेतु कुर नाला से स्वीकृति 15.00 मि.घ.मी. वार्षिक जल आवंटन को कम कर 2.00 मि.घ.मी. वार्षिक करने बाबत स्वीकृति।

संदर्भ:- 1. शासन का पत्र क्रमांक-6727-6728/273/जस/तशा/औजप्र/05/डी-4, दिनांक 11.11.2009.  
2. प्र.अ.का पत्र क्रमांक-3451411/औजप्र/छ.ग./2012/15209-15210, दिनांक 25.10.2012.  
3. शासन का पत्र क्रमांक-2704-2705/7/जस/तशा/औजप्र/01/डी-4, दिनांक 07.03.2013.

विषयांतर्गत प्रकरण में राज्य जल संसाधन उपयोग समिति की 32वीं बैठक दिनांक 08.11.2012 में लिए गए निर्णयानुसार, मेसर्स एम.एस.पी. स्टील एण्ड पॉवर लि., कोलकाता (संस्थान) द्वारा जिला एवं ब्लॉक-रायगढ़, ग्राम-जामगाँव के निकट स्थापित एवं विस्तार हेतु प्रस्तावित इंटीग्रेटेड स्टील एवं 96 मेगावाट कंट्रिव पॉवर प्लाट हेतु कुर नाला में विभाग द्वारा निर्मित बहेरापाली एनीकृत से आवंटित 15.00 मि.घ.मी. वार्षिक जल की मात्रा को कम कर 2.00 मि.घ.मी. वार्षिक करने की स्वीकृति प्रदान की जाती है।

संरथान को आवंटित पुनरीक्षित 2.00 मि.घ.मी. वार्षिक जल के उपयोग के एवज में शासन द्वारा समय-समय पर शासकीय स्त्रोत से जल प्रदाय हेतु निर्धारित जलदर पर देय योग्य जलकर का नियमानुसार भूगतान करने की संस्थान को बाल्यता होगी। प्रकरण में जल प्रदाय की शेष शर्तें शासन के मूल स्वीकृति पत्र क्रमांक-6727-6728/273/जस/तशा/औजप्र/05/डी-4, दिनांक 11.11.2009 के अनुसार यथावत रहेगी।

सहपत्र- शून्य।

.....  
(याकूब खेसस)  
उप सचिव  
जल संसाधन विभाग,  
मंत्रालय, रायपुर

.....  
पृ.फ...../273/जस/तशा/औजप्र/05/डी-4, नया रायपुर दिनांक/04/2013  
प्रतिलिपि:-

- प्रमुख अभियंता, जल संसाधन विभाग, रायपुर को संदर्भित पत्रों के परिप्रेक्ष्य में सूचनार्थ एवं आवश्यक कार्यवाही हेतु अभियंता।
- अधीक्षण अभियंता, जल संसाधन मण्डल, रायगढ़, एवं
- कार्यपालन अभियंता, जल संसाधन संभाग, रायगढ़(छ.ग.)  
को संदर्भित पत्र क्र-1 के परिप्रेक्ष्य में सूचनार्थ एवं शीघ्र आवश्यक कार्यवाही हेतु अभियंता।
- संयुक्त संचालक, राज्य निवेश प्रोत्साहन बोर्ड, रेणुका द्वारा, शास्त्री चौक, रायपुर को संदर्भित पत्र क्र-1 के परिप्रेक्ष्य में सूचनार्थ अभियंता।
- महाप्रबंधक, एम.एस.पी. स्टील एण्ड पॉवर लि., ग्राम तथा पोरट-जामगाँव, जिला-रायगढ़ (छ.ग.)-496001 को उनके पत्र दिनांक 10.08.2012 के सदर्भ में सूचनार्थ एवं शीघ्र आवश्यक कार्यवाही हेतु अभियंता।

सहपत्र- शून्य।

.....  
उप सचिव  
जल संसाधन विभाग  
मंत्रालय, रायपुर

## Water audit Certificate

Annex-V



BONGS

PRAYUKTI INTERNATIONAL PVT. LTD.

CIN No. U74900WB2016PTC209098

### CERTIFICATE

We certify the following

- The report is based on the data collected during Audit and information provided by the MSP Steel and Power Limited, Village Jamgaon, Chhattisgarh.
- The data collection has been carried out diligently and truthfully.
- All data measuring devices used by the team are in good working condition, have been calibrated and have valid certificate from the authorized approved agencies and tampering of such devices has not occurred.
- All reasonable professional skill, care and diligence have been taken in preparing the water audit report and the contents thereof are a true representation of the facts and figures.
- Average Specific Water Consumption in terms of Freshwater used during the production of Steel and Captive thermal power plant during FY 2020-21(for 12 months averaged) Steel production is  $1.39 \text{ m}^3/\text{MT}$  (Limit is  $16 \text{ m}^3/\text{MT}$ ) and SWC of thermal power plant is  $2.6 \text{ m}^3/\text{MW}$  (Limit is  $3.5 \text{ m}^3/\text{MW}$ ) because the existing thermal power plant installed before the year of 2017.

Dr Yogendra Kumar

Team Leader  
Industrial Projects

Bongs Prayukti International Pvt Ltd

PRAYUKTI GROUP

Corporate Office:  
323A, Motilal Gupta Road, Kolkata – 8, INDIA  
Tel: (91) 8697377923 Email: [info@prayuktigroup.com](mailto:info@prayuktigroup.com)

Site Office:  
206, Orchid – 5, Green Earth City, Raipur, C.G., India  
Tel: (91) 70990 99410 Email: [info@prayuktigroup.com](mailto:info@prayuktigroup.com)

## Ground Water Analysis Report Annex -VI

Ground water analysis report for the month of June-22 & Sept.-22							
SI.No	PARAMETER S	Unit	Limit	June-22		Sept-22	
				JAMGA	MANUWA PALI	JAMGA	MANUWA PALI
				Clear	Clear	Clear	Clear
2	Odour	-	--	Odorless	Odorless	Odorless	Odorless
3	pH	-	6.5-8.5	6.8	6.7	6.7	6.6
4	TSS	Mg/l	--	2	3	3	2
5	TDS	Mg/l	500-2000	77	82	245	253
6	Turbidity	NTU	1-5	0.8	0.6	0.9	0.8
7	Conductivity	µs/cm	--	118	124	372	384
8	T.Alkalinity	PPM	200-600	32	30	40	36
9	T.Hardness	PPM	300-600	28	28	44	40
10	Calcium	PPM	75-200	18	18	29	26
11	Magnesium	PPM	30-100	10	10	15	14
12	Chloride	PPM	250-1000	12	10.0	18	20
13	Silica	PPM	--	14	14	16	18
14	Iron	PPM	0.30-1.0	0.052	0.058	0.318	0.308
Drinking water specification Limit as per IS:10500,2012							

E-Compliance of EC condition APRIL-22 TO SEPT-22  
MSP Steel and Power Limited, Jamgaon, Raigarh CG.

## Solid Waste Analysis Report Annex – VII

Format No. : UES/FORM/09

 <b>Ultimate</b> ENVIROLYTICAL SOLUTIONS	HDD-272, Phase III - Near JP Chowk Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099 Ph : 0771 - 4027777   Email : ultimatenviro@gmail.com
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Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Customer <b>To,</b> <b>MSP STEEL &amp; POWER LIMITED</b> <b>VILLAGE – JAMGAON,</b> <b>POST - JAMGAON, DIST-RAIGARH,</b> <b>496001 (CHHATTISGARH)</b>		REPORT NO. : UES/TR/22-23/04147 LAB REF NO. : UES/22-23/MISC/010156 DATE OF SAMPLING : 23/09/2022 DATE OF RECEIPT : 24/09/2022 DATE OF REPORT : 27/09/2022 DATE OF ANALYSIS : START: 24/09/2022   END: 27/09/2022
Customer Sample Id / Sampling Location : 1. CPP FLY ASH 2. CPP BOTTOM ASH		Customer Ref. No. & Date : RD229-00038, DATED: 21-09-2022
Sample Type : Miscellaneous	Sample Condition At Receipt : Ok	Quantity Received : 1 kg
<b>SAMPLE DETAILS</b>		
Sample Collected By : Lab. Chemist	Customer Ref. No. & Date : RD229-00038, DATED: 21-09-2022	Sample Condition At Receipt : Ok

### TEST REPORT

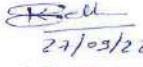
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMIT	RESULT	
					CPP Fly Ash	CPP BOTTOM ASH
1	Arsenic as As	mg/kg	USEPA METHOD-1311	5.0	N.D.	N.D.
2	Cadmium as Cd	mg/kg	USEPA METHOD-1311	1.0	0.12	0.19
3	Lead as Pb	mg/kg	USEPA METHOD-1311	5.0	N.D.	N.D.
4	Cobalt as Co	mg/kg	USEPA METHOD-1311	80.0	N.D.	N.D.
5	Mercury as Hg	mg/kg	USEPA METHOD-1311	0.2	N.D.	N.D.
6	Nickel as Ni	mg/kg	USEPA METHOD-1311	20.0	N.D.	N.D.
7	Chromium as Cr	mg/kg	USEPA METHOD-1311	5.0	2.9	2.4
8	Zinc as Zn	mg/kg	USEPA METHOD-1311	250.0	0.32	156
9	Copper as Cu	mg/kg	USEPA METHOD-1311	25.0	17.5	19.1

Note: N.D. – Not Detected

#### REMARKS: RESULTS ARE AS ABOVE

##### Terms & conditions

- The report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test(s) only.

 REVIEWED BY		For ULTIMATE ENVIROLYTICAL SOLUTIONS  AUTHORIZED SIGNATORY
--	---	---

End of the test report

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

E-Compliance of EC condition APRIL-22 TO SEPT-22  
MSP Steel and Power Limited, Jamgaon, Raigarh CG.

Format No. : UES/FORM/09



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 1986

Name & Address Of The Customer		REPORT NO.	UES/TR/22-23/04148	
To, <b>MSP STEEL &amp; POWER LIMITED</b> <b>VILLAGE - JAMGAON,</b> <b>POST - JAMGAON, DIST-RAIGARH,</b> <b>496001 (CHHATTISGARH)</b>		LAB REF NO.	UES/22-23/MISC/010157	
		DATE OF SAMPLING	23/09/2022	
		DATE OF RECEIPT	24/09/2022	
		DATE OF REPORT	27/09/2022	
		DATE OF ANALYSIS	START: 24/09/2022	END: 27/09/2022
SAMPLE DETAILS				
Customer Sample Id / Sampling Location	1. SMS SLAG 2. SMS BAG FILTER DUST	Customer Ref. No. & Date	RD229-00038, DATED: 21-09-2022	
Sample Type	Miscellaneous	Sample Condition At Receipt	Ok	
Sample Collected By	Lab. Chemist	Quantity Received	1 kg	

**TEST REPORT**

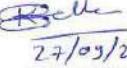
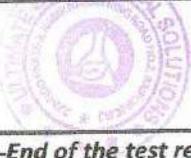
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMIT	RESULT	
					SMS SLAG	SMS BAG FILTER DUST
1	Arsenic as As	mg/kg	USEPA METHOD-1311	5.0	N.D.	N.D.
2	Cadmium as Cd	mg/kg	USEPA METHOD-1311	1.0	N.D.	N.D.
3	Lead as Pb	mg/kg	USEPA METHOD-1311	5.0	N.D.	N.D.
4	Cobalt as Co	mg/kg	USEPA METHOD-1311	80.0	N.D.	N.D.
5	Mercury as Hg	mg/kg	USEPA METHOD-1311	0.2	N.D.	N.D.
6	Nickel as Ni	mg/kg	USEPA METHOD-1311	20.0	N.D.	N.D.
7	Chromium as Cr	mg/kg	USEPA METHOD-1311	5.0	0.9	2.6
8	Zinc as Zn	mg/kg	USEPA METHOD-1311	250.0	0.73	86.0
9	Copper as Cu	mg/kg	USEPA METHOD-1311	25.0	8.4	3.6

Note: N.D. - Not Detected

**REMARKS: RESULTS ARE AS ABOVE**

**Terms & conditions**

- The report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test(s) only.

 27/09/22 REVIEWED BY		For ULTIMATE ENVIROLYTICAL SOLUTIONS  AUTHORIZED SIGNATORY
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End of the test report

E-Compliance of EC condition APRIL-22 TO SEPT-22  
MSP Steel and Power Limited, Jamgaon, Raigarh CG.

## Used Oil Analysis Report Annex -VIII

Format No. : UES/FORM/09

 <b>Ultimate</b> ENVIROLYTICAL SOLUTIONS	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>Recognized by Ministry of Environment Forest and Climate Change under EP act 1986</b>		
Name & Address Of The Customer <b>To,</b> <b>MSP STEEL &amp; POWER LIMITED</b> <b>VILLAGE - JAMGAON,</b> <b>POST - JAMGAON, DIST-RAIGARH,</b> <b>496001 (CHHATTISGARH)</b>		REPORT NO UES/22-23/04145  LAB REF NO UES/22-23/MISC/010154  DATE OF SAMPLING 23/09/2022  DATE OF RECEIPT 24/09/2022  DATE OF REPORT 27/09/2022  DATE OF ANALYSIS START: 24/09/2022 END: 27/09/2022
<b>SAMPLE DETAILS</b>		
Customer Ref. No. RD229-00038, DATED: 21-09-2022	Customer Sample Id / Sampling Location Main Store	Sample Type Used Oil
Sample Collected By Laboratory Chemist	Packing of Sample Plastic Bottle (Sealed)	Quantity received Approx. 250 ml

### TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMIT	RESULT
1	Iron as Fe	mg/kg	USEPA METHOD-1311	—	N.D.
2	Manganese as Mn	mg/kg	USEPA METHOD-1311	10.0	4.2
3	Zinc as Zn	mg/kg	USEPA METHOD-1311	250.0	12.6
4	Lead as Pb	mg/kg	USEPA METHOD-1311	5.0	3.18
5	Cadmium as Cd	mg/kg	USEPA METHOD-1311	1.0	0.24
6	Copper as Cu	mg/kg	USEPA METHOD-1311	25.0	0.59
7	Tin as Sn	mg/kg	USEPA METHOD-1311	—	N.D.
8	Chromium as Cr	mg/kg	USEPA METHOD-1311	5.0	3.24
9	Arsenic as As	mg/kg	USEPA METHOD-1311	5.0	N.D.
10	Mercury as Hg	mg/kg	USEPA METHOD-1311	0.2	N.D.
11	Barium as Ba	mg/kg	USEPA METHOD-1311	100	N.D.
12	Aluminium as Al	mg/kg	USEPA METHOD-1311	—	N.D.

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

**REMARKS: RESULTS ARE AS ABOVE**

**Terms & conditions**

- The report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test(s) only

  
 27/09/22

REVIEWED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS



AUTHORIZED SIGNATORY

—End of the test report—

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

E-Compliance of EC condition APRIL-22 TO SEPT-22  
MSP Steel and Power Limited, Jamgaon, Raigarh CG.

## Action plan for Fly ash management Annex -IX



### MSP STEEL & POWER LIMITED

(An ISO 9001 : 2008, 14001 : 2004 OHSAS 18001 : 2007 Certified Company)

Corporate Office : 16/S, Block - A, New Alipore, Kolkata - 700 053, Ph.: +91-33-4005 7777, 4014 5678  
Fax: +91-33-4005 7799, 2398 2239, E-mail : contactus@mspsteel.com, Web : www.mspsteel.com

QC

29th July 2020

To,

The Member Secretary  
Chhattisgarh Environment Conservation Board,  
Raipur (C.G.)

Sub. Submission of Amended Action plan in connection with Notice no. 153 dated 03.06.2020 issued by RO, CECB, Raigarh.

Ref. Our reply submitted on 26.06.2020 and 27.07.2020.

Dear Sir,

With reference to notice no 153 dated 03.06.2020 and further visit to our plant by Regional Officer, Raigarh on 23.07.2020, we are submitting herewith Amended Action Plan (Short term & Long term) of Flyash utilization as directed by him. We hereby also intimate you that at Balbhadrapur site, leveling is being done and a water tanker has been engaged fulltime for sprinkling water regularly.

The utilization of flyash 83400 Ton per year other than Brick Plants (Own & Others), shall be made in abandoned mines, civil work and road construction as mentioned in long term action plan and 15930 Ton per month in Civil work and Road construction as per short term action plan of MSP Steel & Power Ltd.

The utilization of flyash 16200 Ton per year other than Brick Plants (Own & Others), shall be made in abandoned mines, civil work and road construction as mentioned in long term action plan and 1350 Ton per month in Civil work and Road construction as mentioned in short term action plan of MSP Sponge Iron Ltd.

As such, we would request your good office to withdraw the direction of closure and revoke the notice in the interest of justice.

Thanking You  
Yours Faithfully  
For MSP Steel & Power Ltd.

Prashant Pandey  
Sr. GM-Corporate co-ordination



Encl. -As above

Copy to - The Regional Officer, CECB, Raigarh for kind information and necessary action please.

Regd. Office :  
1, Crooked Lane, Kolkata- 700 069, Ph.: +91-33-2248 3795, Fax : +91-33-2248 1720  
Works :  
Village & P.O.: Jamgaon, Dist. : Raigarh, Pin - 496 001, Chhattisgarh  
Ph.: 07762-264449 / 51 / 52 / 53, Fax : 07762-264450

**MSP Gold**  
THERMEX TMT BARS  
STRUCTURAL STEEL

IS : 1786  
2062  
ISI



BUILDING THE NATION

**E-Compliance of EC condition APRIL-22 TO SEPT-22  
MSP Steel and Power Limited, Jamgaon. Raigarh CG.**

**MSP STEEL & POWER LIMITED JAMGAON , RAIGARH  
ACTION PLAN FOR FLYASH UTILISATION FOR THE YEAR 2021-22 TO 2024-25**

Sr. No.	Year	Ash Generation ( Approx in MT)				Categorywise Utilisation (approx in MT)			
		4.5 MW CPP	10 MW CPP	34 MW CPP	Total	Bricks	Abandoned Mines, Civil Work and Road Construction	Total Utilisation	Percent Utilisation
Own	Other brick Manufacturers								
1	2	3	4	5	6	7	8	9	10
1	2021-22	20000	75000	190000	285000	43200	158400	83400	285000
2	2022-23	20000	75000	190000	285000	43200	158400	83400	285000
3	2023-24	20000	75000	190000	285000	43200	158400	83400	285000
4	2024-25	20000	75000	190000	285000	43200	158400	83400	285000
	<b>TOTAL</b>	<b>80000</b>	<b>300000</b>	<b>760000</b>	<b>1140000</b>	<b>172800</b>	<b>633600</b>	<b>333600</b>	

NOTE:-

- 1 OTHER BRICK PLANTS INSTALLED BY M/S ATHARV BRICKS (70 TRD) M/S JAI DURGA BRICKS (70 TRD) AND LINK DISTRIBUTORS (300 TRD) WILL CONSUME 440 T FLYASH PER DAY, SO 158400 TON PER YEAR.
- 2 MSP STEEL HAS TWO BRICK PLANTS HAVING CAPACITY OF 24000 EACH TO CONSUME APPROX 120 T / DAY I.E. 43200 PER YEAR
- 3 REMAINING QUANTITY OF FLYASH 83400 TON WILL BE USED MAINLY BACK FILLING OF ABANDONED MINES AND PARTIALLY ROAD CONSTRUCTION AND CIVIL WORK
- 4 EXPECTED TOTAL FLYASH GENERATION CALCULATED FOR THE INSTALLED CAPACITY OF POWER PLANT AND MAXIMUM POWER GENERATION

## Grant Permission for low laying filling Annex – X

<div style="text-align: center;">  <p><b>REGIONAL OFFICE</b>  <b>CHHATTISGARH ENVIRONMENT CONSERVATION BOARD,</b>  <b>T.V. TOWER ROAD, RAIGARH (C.G.)</b></p> <p>No. 589 /RO/TS/CECB/2022      Raigarh, Date 01.06.2022</p> <p>email id:raigarh.cecb@gmail.com</p> <p>To, ✓ M/s MSP Steel &amp; Power Limited,  Vill.-Jamgaon,  Teh. &amp; District- Raigarh (C.G.)</p> <p>Subject :- Permission for filling in low lying areas with pond ash/Fly Ash.</p> <p>Ref.: 1. CPCB Guidelines for disposal/utilization of fly ash for reclamation of Low lying Areas and in stowing of Abandoned mines/Quarries.  2. MoEF &amp; CC GOI O.M. No. 22-13/2019-I.A.III dated 28.08.2019.  3. Head Office, Nawa Raipur Atal Nagar Raipur, letter no. 8332 dated 12.12.2020.  4. Collector order letter dated 22.07.2021.  5. Your application dated 11.04.2021.</p> <p>-----00-----</p> <p>With reference to the above, committee formed by Collector Raigarh has examined the proposal of quantity amendment in details submitted by you having areas Khasra No. 84/1, 91/1, 229/25, 229/27, &amp; 229/28 Rakba- 9.242 Hect. in Village-Balbadrapur, Tehsil &amp; District-Raigarh. Permission for filling in low lying areas with Fly Ash in Khasra No. 91/1 &amp; 84/1 Rakba- 4.022 Hect. in Village-Balbadrapur, Tehsil &amp; District-Raigarh (C.G.) for quantity 50,000 MT subject to the following terms &amp; conditions.</p> <p><b>Terms &amp; Conditions :-</b></p> <ol style="list-style-type: none"> <li>1. M/s MSP Steel &amp; Power Limited, 48.5 MW Power Plant at Jamgaon, District-Raigarh (C.G.) shall have to abide by the CPCB Guidelines for disposal/utilization of fly ash for reclamation of Low Lying areas. Industry shall ensure compliance of MoEF &amp; CC GOI O.M. No. 22-13/2019-IA. III Dated 28.08.2019 in case of violation, EC will be imposed to the industry.</li> <li>2. This permission is valid for a period of 60 days from date of issue of this letter.</li> <li>3. As per the Fly Ash notification by MOEF &amp; CC dated 31.12.2021 it shall be the responsibility of the transporters of vehicle owner to deliver ash to authorized purchaser or user agency and if it is not complied, then an environmental compensation of Rs. 1500 per ton on such quantity as mis-delivered to unauthorised users or non-delivered to authorized users will be imposed besides prosecution of such non-compliant transporters by State Pollution Control Board (SPCB) of Pollution Control Committee (PCC).</li> <li>4. Vehicle used for transportaion of FlyAsh/Bottom Ash will be equipped with GPS system.</li> </ol> <p style="text-align: center;">A</p> </div>	<p>5. The Power Plant shall ensure that fly ash/bottom ash will be filled in areas Khasra No. 91/1 &amp; 84/1 Rakba- 4.022 Hect. in Village-Balbadrapur, Tehsil &amp; District-Raigarh (C.G.)</p> <p>6. The transportation of fly ash/Bottom ash for filling low lying areas need to be done by tankers/bulkers or mechanically designed covered trucks.</p> <p>7. Proper water sprinkling activities shall be done on haul road and transportation road by dumping of fly ash in the aforesaid areas for mitigation of air pollution.</p> <p>8. After filling fly ash the low-lying areas shall be covered by 500 mm topsoil.</p> <p>9. After completion of fly ash filling work in low lying area, Industry shall submit Work-Completion Certificate to Chhattisgarh Environment Conservation Board, Raigarh.</p> <p>10. Industry shall submit details (quantity of fly ash &amp; bill T of transporation) of fly ash transported to Khasra No. 91/1 &amp; 84/1 Rakba- 4.022 Hect. in Village-Balbadrapur, Tehsil &amp; District-Raigarh (C.G.) every 15 days.</p> <p>11. Industry shall ensure proper wind breaking shield to avoid dust nuisance near by area.</p> <p>12. Industry Shall ensure display board near dumping site having information such as name of industry Khasra No., area quantity of fly ash granted etc.</p> <p>13. M/s MSP Steel &amp; Power Limited, 48.5 MW Power Plant at Jamgaon, District-Raigarh (C.G.) shall have to abide by the guidelines of the Central Goverment/State Government regarding fly ash utilization issued from time to time.</p> <p>14. The issuance of this permission does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Central/State laws or regulations.</p> <p>15. The above permission shall be revoke, if any conditions are violated by the M/s MSP Steel &amp; Power Limited, 48.5 MW Power Plant at Jamgaon, District-Raigarh (C.G.) with immediate effect.</p> <p>This "Permission" is being issued only for the purpose of ash filling in low-lying areas of aforesaid Khasra Nos. mentioned in above and this shall not be treated as consent under Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act 1981.</p> <p style="text-align: right;">Signature</p> <p>Regional Officer  C.G. Environment Conservation Board, Raigarh  Raigarh, Date .....</p> <p>Endt. No. /RO/TS/CECB/2022  Copy To :-</p> <ol style="list-style-type: none"> <li>1. The Member Secretary, C.G. Environment Conservation Board, Raipur for information please.</li> <li>2. Collector District – Raigarh for information please.</li> </ol> <p style="text-align: right;">Signature</p> <p>Regional Officer  C.G. Environment Conservation Board, Raigarh</p>
--	---

MOU with CBRI, Roorkee Annex – XI



केन्द्रीय भवन अनुसंधान संस्थान, रुड़की  
**CENTRAL BUILDING RESEARCH INSTITUTE**  
(A CONSTITUENT ESTABLISHMENT OF CSIR)  
ROORKEE 247 667, U.A. (INDIA)  
Email: [csir@csir.res.in](mailto:csir@csir.res.in); [www.csir.res.in](http://www.csir.res.in); Fax: (01332) 272272, 272643  
Phones: (01332) 272235, 272113, 272630, 272655

**Dr. NEERAJ JAIN**  
Principal Scientist &  
Functional Group Leader  
Associate Professor in AcSIR  
Email: [neerajest@csir.res.in](mailto:neerajest@csir.res.in)

Ref. No. 101/EST/NJ  
Dated: 26.4.2022

**TO WHOM IT MAY CONCERN**

It is certified that MSP STEEL & POWER LTD., PO & VILL. JAMGAON, RAIGARH, CHATTISGARH has sponsored a project entitled **Development of High Volume Fly Ash-Gypsum Composite Plaster for interior Applications** to CSIR-CBRI, Roorkee in April 2022. The signing of MoU is under process. The cost of the project is Rs. 10.0 Lakhs plus GST and duration is nine months. The major objectives of the project are as under:

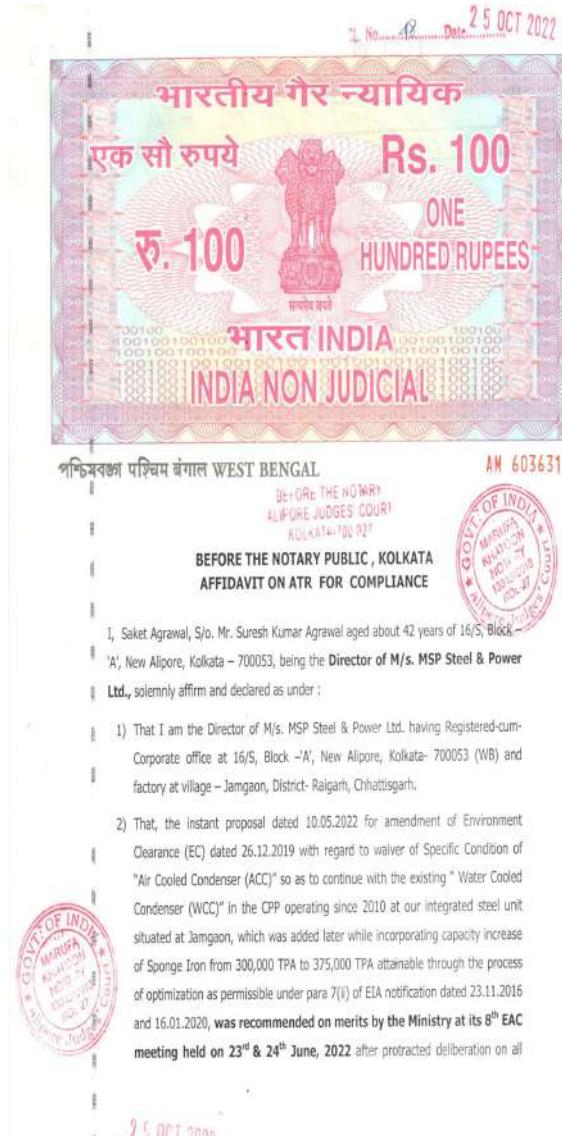
1. Collection and characterization of raw materials
2. Development of high volume fly ash-gypsum composite plaster
3. Evaluation of physical, chemical and Engineering properties of plaster.
4. Communication of the interim report
5. Durability studies of plaster
6. Comparison of properties of developed product with various similar products available in the market.
7. Application Procedure of plaster
8. Final presentation and report submission

As deliverable of the project, a composite plaster will be developed having about 60-70 % of fly ash for interior applications.

  
(Neeraj Jain) 26/4/2022

डॉ. नीरज जैन/Dr. Neeraj Jain  
कैर्यालय/Scientist  
पर्यावरण विज्ञान एवं हाजनीली समूह  
Environmental S & T Group  
सीरिएसआर-कन्ट्रीप. भवन अनुसंधान संस्थान  
CSIR-Central Building Research Institute  
रुड़की/Roorkee-247667

## Affidavit for Plantation



2

relevant parameters and factors explained in our representation to IRO, Raipur vide letter dated 10.05.2022.

- 3) That the same proposal for amendment of EC sought for waiver of Air Cooled Condenser is further examined by the Ministry (MoEF & CC) at the 15<sup>th</sup> EAC Meeting held on 17<sup>th</sup>, & 18<sup>th</sup> Oct'22 from the point of view of implementation of Action Taken Report (ATR) proposed by the PP (Declarant) to IRO, Raipur for mitigation of non-compliance reported by the IRO, with regard to fly ash management (Ash mounds) and additional green belt development of 50,000 in and around the plant site in a time frame of five years as per EC dated 26.12.2019 and our subsequent representations to this Ministry implementation of work in progress as per our stated schedule of ATR.
- 4) That, in the said EAC meeting the Hon'ble Chairman directed the company to affirm the time line i.e. the completion dates of actions taken / to be taken for accomplishing outstanding work for closure of Ash Mounds and development of Green belt by an affidavit to this Ministry for consideration of instant EC amendment proposal.
- 5) Thus, as directed by the EAC in its 15<sup>th</sup> meeting held on 17<sup>th</sup>, & 18<sup>th</sup> Oct'22, the PP (Declarant) hereunder furnish the points of non-compliance observed and reported by the IRO, Raipur, and corresponding compliances made upto 15<sup>th</sup> October'22 along with targeted date of completion of outstanding work in the table hereunder for information and record.

Non-compliance observed by IRO/Raipur & reported	Details of non-compliance reported by IRO/Raipur vide letter dt. 30.03.22 & 21.09.2022	Compliance status made as per ATR (upto 15.10.2022)	Completion dates of work as per ATR for 100% compliance
Permanent Water Sprinkler in high dust area.	Control measures has not been observed for fugitive emission near Coal washer, Pellet plant and near Rolling Mill area. In report dated 26.07.2022, IRO suggested to install some more Sprinklers.	Permanent Sprinklers existed in entire plant area - 463 before IRO's visit. In Rolling Mill - 32 Nos. In Pellet Plant - 50 Nos. In Coal Washery - 36 Nos. Additional installation of new Sprinklers done by 12 <sup>th</sup> Oct'22 - 20 Nos.	20 nos. Sprinklers installed by 12 <sup>th</sup> Oct'22



25 OCT 2022

## Annex -XII

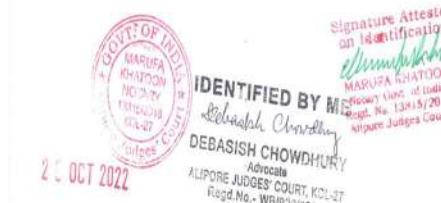
Non-compliance observed by IRO/Raipur & reported	Details of non-compliance reported by IRO/Raipur vide letter dt. 30.03.22 & 26.07.2022	Compliance status made as per ATR (upto 15.10.2022)	Completion dates of work as per ATR for 100% compliance
Management of Ash Mounds / Fly Ash	Ash Mounds (2 locations) were not managed / closed following eco-friendly norms.	Closure Action Toe-wall & Drain-Garland drain	Toe-wall & Drain-Drain- March'23 Solar Plant Structure erection- May'23
		Plantation of bushes/ Trees	Plantation of bushes/ Trees (sunviri ng)
		Solar Plant	Solar Panel Installation - June'23 Setting Pond Completed
Green Belt Development	As per EC dt. 26.12.2019 there should be planted 50,000 saplings in 5 years in and around the plant site.	41.60 Acres is earmarked for plantation within 126 Acres of total project area approved under EC Plantations Status Within project area	Plantation to be made: Up to Mar'23: 13,600 In 2023-24: 20,000 In 2024-25: 15,000
		Saplings planted (About 28,000 plants damaged for fire in Coal stock yard during Coal years)	
		To be Done 13,600	
		In Nearby village	
		23,000	16,000
		In Ash Mounds	2,200 19,000
			53,200 48,600
		TOTAL :	48,600

- 6) That, the facts, circumstances and action taken or to be taken for satisfactory compliance of EC conditions stated hereinabove are correct and true to the best of my knowledge.

Place : KOLKATA

Date : 25/10/2022

For MSP Steel & Power Ltd  
Suresh Kumar Agrawal  
Director  
Signature of the Declarant



25 OCT 2022

Signature Attested  
on Identification  
Debasish Chowdhury  
IDENTIFIED BY M.  
Debasish Chowdhury  
Advocate  
Alipore JUDGES' COURT, KOL-27  
Regd. No. - WB/92/air/...

## Environmental Monitoring Report

## Annex -XIII

MSP STEEL & POWER LIMITED										
Drinking Water Testing Report Annex -XIII										
SL.NO	PARAMETERS	UNIT	Limit	APRIL -22				MAY -22		
				Guest House	ADMIN BUILDING	PELLET PLANT CANTEEN	MSP COLONY	Guest House	ADMIN BUILDING	PELLET PLANT CANTEEN
1	Appearance	-	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
2	Odour	-	**	O dour less	O dour less	O dour less	O dour less	O dour less	O dour less	O dour less
3	pH	--	6.5 – 8.5	6.5	6.6	6.7	6.5	6.5	6.5	6.8
4	TSS	mg/l	**	0	1	2	1	1	1	3
5	TDS	mg/l	500 – 2000	54	194	436	58	54	194	441
6	Turbidity	NTU	1 – 5	0.2	0.1	0.3	0.1	0.2	0.2	0.4
7	conductivity	µs/cm	**	91.3	294	662	96	91.2	292	669
8	T. Alkalinity	ppm	200 – 600	26	62	94	74	22	54	88
9	T. Hardness	ppm	300 – 600	20	58	88	64	18	48	72
10	Calcium	ppm	75 – 200	13	38	58	42	12	32	48
11	Magnesium	ppm	30 – 100	7	20	30	22	6	16	24
12	Chloride	ppm	250 – 1000	12	18	16	18	14	16	16
13	Silica	ppm	**	14	16	14	16	12	14	18
14	Iron	ppm	0.30 – 1.0	0.198	0.082	0.074	0.044	0.188	0.087	0.072

Note:-\*\* Limit Not mention. Drinking water Specification Tolerance Limit as per IS:10500,2012.

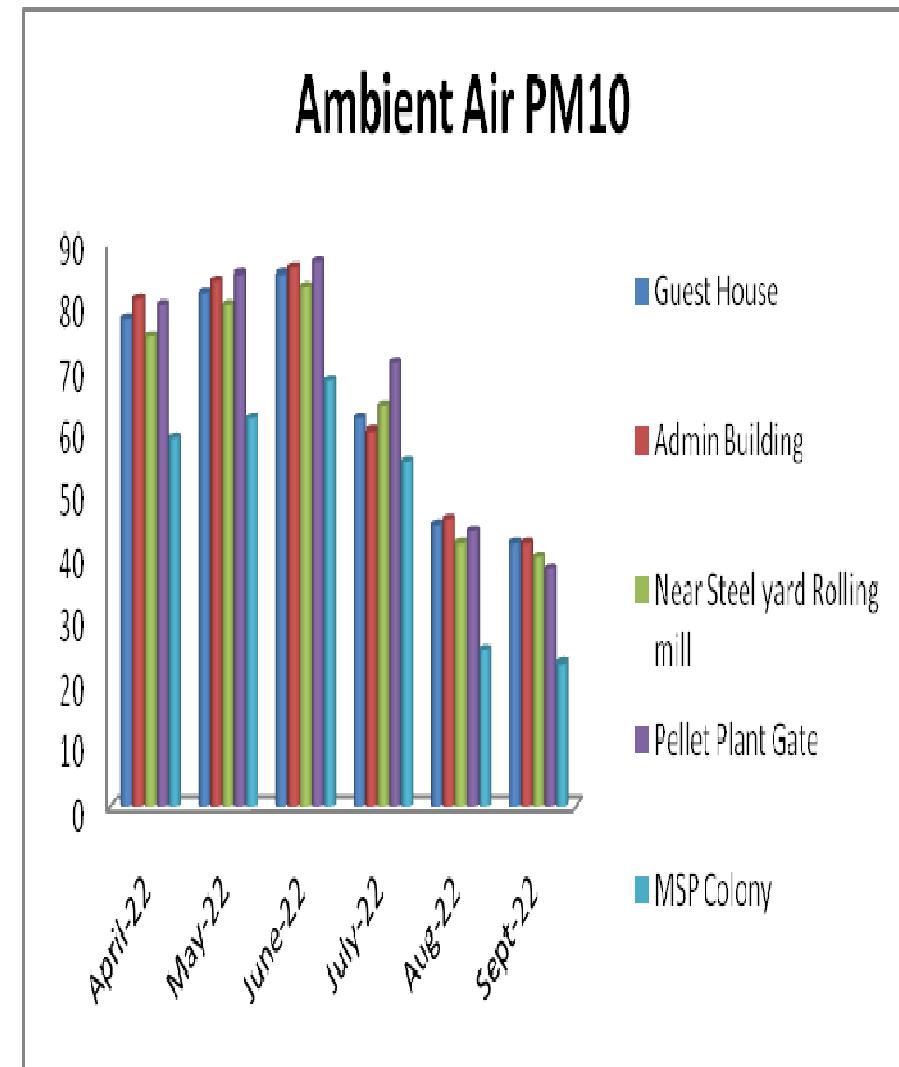
MSP STEEL & POWER LIMITED											
Drinking Water Testing Report Annex -XIII											
SL.NO	PARAMETERS	UNIT	Limit	JUNE-22				JULY-22			
				Guest House	ADMIN BUILDING	PELLET PLANT CANTEEN	MSP COLONY	Guest House	ADMIN BUILDING	PELLET PLANT CANTEEN	MSP COLONY
1	Appearance	-	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
2	Odour	-	**	O dour less	O dour less	O dour less	O dour less	O dour less	O dour less	O dour less	O dour less
3	pH	--	6.5 – 8.5	6.5	6.6	6.8	6.9	6.5	6.5	6.7	6.5
4	TSS	mg/l	**	1	1	2	1	1	0	2	1
5	TDS	mg/l	500 – 2000	67	194	432	294	64	170	397	261
6	Turbidity	NTU	1 – 5	0.3	0.2	0.3	0.4	0.2	0.1	0.3	0.1
7	conductivity	µs/cm	**	112	292	654	446	108	284	662	436
8	T. Alkalinity	ppm	200 – 600	20	52	82	72	22	46	78	104
9	T. Hardness	ppm	300 – 600	16	48	78	78	16	42	72	118
10	Calcium	ppm	75 – 200	10	32	51	51	10	28	47	78
11	Magnesium	ppm	30 – 100	6	16	27	27	6	14	25	40
12	Chloride	ppm	250 – 1000	14	16	16	22	12	14	16	28
13	Silica	ppm	**	10	14	14	18	9	12	12	18
14	Iron	ppm	0.30 – 1.0	0.181	0.089	0.076	0.092	0.178	0.083	0.074	0.062

Note:-\*\* Limit Not mention. Drinking water Specification Tolerance Limit as per IS:10500,2012.

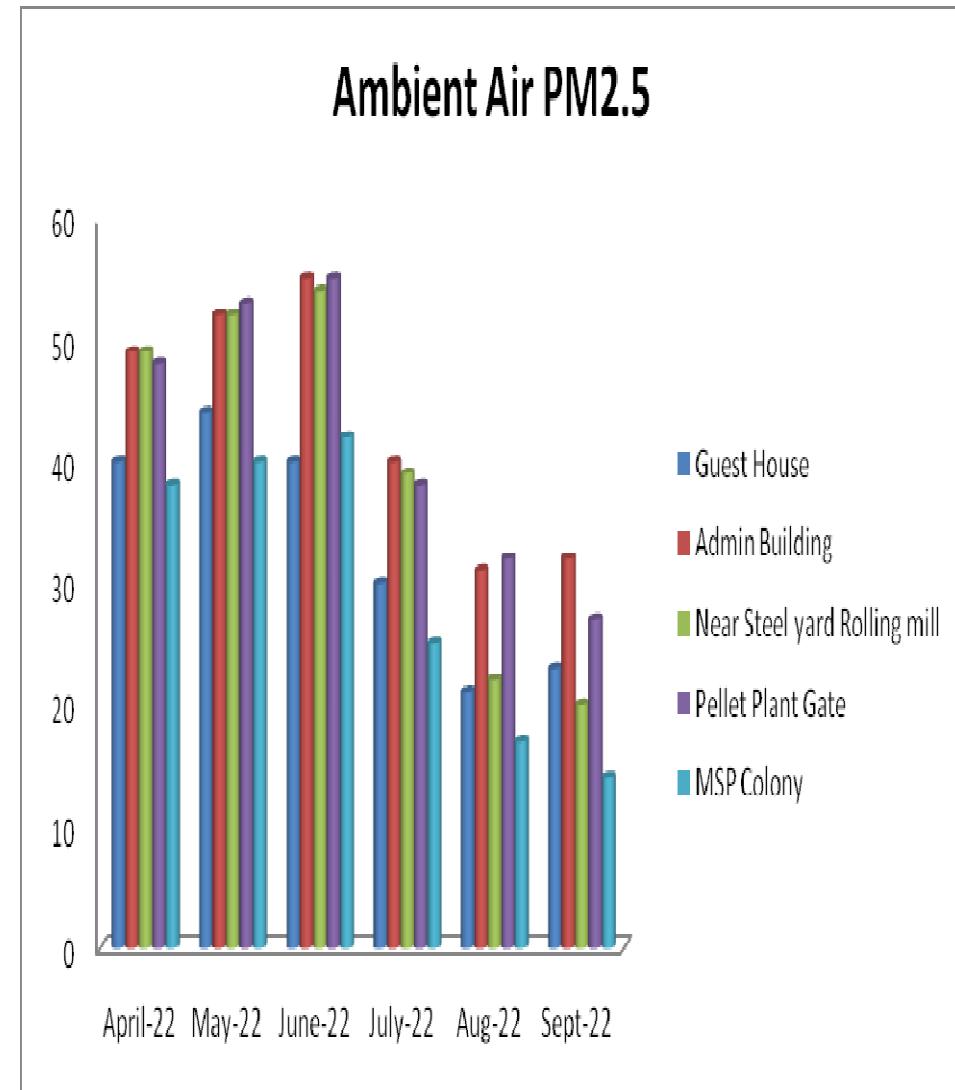
MSP STEEL & POWER LIMITED											
Drinking Water Testing Report											
SL.NO	PARAMETERS	UNIT	Limit	AUGUST-22				SEPTEMBER-22			
				Guest House	ADMIN BUILDING	PELLET PLANT CANTEEN	MSP COLONY	Guest House	ADMIN BUILDING	PELLET PLANT CANTEEN	MSP COLONY
1	Appearance	-	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
2	Odour	-	**	O dour less	O dour less	O dour less	O dour less	O dour less	O dour less	O dour less	O dour less
3	pH	--	6.5 – 8.5	7.1	6.5	6.7	6.5	7	6.5	6.8	6.6
4	TSS	mg/l	**	0	0	2	1	0	1	3	1
5	TDS	mg/l	500 – 2000	78	160	434	283	80	171	430	289
6	Turbidity	NTU	1 – 5	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.3
7	conductivity	µs/cm	**	131.2	268	658	430	133.8	259	652	438
8	T. Alkalinity	ppm	200 – 600	28	40	72	108	32	38	70	106
9	T. Hardness	ppm	300 – 600	30	38	66	112	34	36	64	116
10	Calcium	ppm	75 – 200	20	25	44	74	22	24	42	76
11	Magnesium	ppm	30 – 100	10	13	22	38	12	12	22	40
12	Chloride	ppm	250 – 1000	7.12	12	16	24	7.16	10	14	22
13	Silica	ppm	**	9.16	10	12	16	9.24	12	10	18
14	Iron	ppm	0.30 – 1.0	0.064	0.082	0.078	0.068	0.068	0.080	0.076	0.071
Note:-** Limit Not mention. Drinking water Specification Tolerance Limit as per IS:10500,2012											

MSP Steel & Power Limited, Jamgaon, Raigarh(C.G)												
Ambient Air Noise Monitoring Report for the period of APRIL-22 to SEPTEMBER-22												
Location	Apr-22		May-22		June-22		July-22		August-22		September-22	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time						
Guest House	64.4	59.3	64.8	58.7	64.4	58.4	64.2	58.8	64.5	58.7	64.6	58.8
Admin Building	64.8	59.8	65.1	58.9	65.2	58.6	65.1	59.2	65.3	59.1	65.1	59.3
Steel Yard RMS	64.1	58.8	64.3	59.2	64.2	59.4	64.3	59.3	64.2	59.4	64.6	59.7
Gate No.3	66.3	59.8	66.2	59.6	66.8	59.5	66.5	59.5	65.6	60.7	65.4	60.3
CPP(34MW) Gate	65.6	59.7	65.5	60.2	65.4	60.3	65.7	60.8	65.9	60.7	66.1	60.4
Pellet Plant Gate	66.2	59.9	66.3	60.1	66.1	60.1	66.2	60.3	66.4	60.5	66.3	60.7
Back Side of Coal washery Road	65.9	59.7	65.8	59.9	65.4	59.4	65.6	59.7	65.7	59.3	65.9	59.8
<b>Remarks:-</b> As per CPCB Standards Day Time Norms-Max. 75 dB(A) & Night time Norms-Max. 70 dB(A) make:- Envirotech Model No: SLM100 Calibrated by M/S Universal Scientific Equipment and services, Aligarh, Calibration date 01.01.2022 validity 31.12.2022												

Annex -XIII						
MSP Steel and Power Limited						
Jamgaon, Raigarh. C.G.						
Ambient air monitoring (PM10) Report for the period of APRIL -22 to SEPT -22						
LOCATION	APR-22	MAY-22	JUNE-22	JULY-22	AUG-22	SEPT-22
Guest House	78	82	85	62	45	42
Admin Building	81	84	86	60	46	42
Near Steel yard Rolling mill	75	80	83	64	42	40
Pellet Plant Gate	80	85	87	71	44	38
MSP Colony	59	62	68	55	25	23
<b>Remarks:- PM10 Limit 100 (<math>\mu\text{g}/\text{m}^3</math>) As per CPCB Standards, Make :- Envirotech, Model No:- APM550, Calibrated by M/S UNIVERSAL SCIENTIFIC INSTRUMENT AND CALIBRATION, ALIGARH</b>						



Annex -XIII						
MSP Steel and Power Limited						
Jamgaon, Raigarh. C.G.						
Ambient air monitoring (PM2.5) Report for the period of April -22 to Sept-22						
LOCATION	APR-22	MAY-22	JUNE-22	JULY-22	AUG-22	SEPT-22
Guest House	40	44	40	30	21	23
Admin Building	49	52	55	40	31	32
Near Steel yard Rolling mill	49	52	54	39	22	20
Pellet Plant Gate	48	53	55	38	32	27
MSP Colony	38	40	42	25	17	14
Remarks:- PM2.5 Limit 60 ( $\mu\text{g}/\text{m}^3$ ) As per CPCB Standards, Make :- Envirotech, Model No:- APM550, Calibrated by M/S UNIVERSAL SCIENTIFIC INSTRUMENT AND CALIBRATION, ALIGARH						



Ultimate  
ENVIROLYTICAL SOLUTIONSHDD-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 1986

Name & Address Of The Customer		REPORT NO	UES/TR/22-23/04144
TO,		LAB REF NO	UES/22-23/AAQM/010150-010153
MSP STEEL & POWER LIMITED		DATE OF SAMPLING	22/09/2022 - 23/09/2022
VILLAGE - JAMGAON,		DATE OF RECEIPT	24/09/2022
POST - JAMGAON, DIST-RAIGARH,		DATE OF REPORT	27/09/2022
496001 (CHHATTISGARH)		DATE OF ANALYSIS	START: 24/09/2022   END: 27/09/2022
SAMPLE DETAILS			
Customer Ref. No.	RD229-00038, DATED: 21-09-2022		
Monitoring For	Ambient Air Quality Monitoring		
Sampling Location	1. Near Guest House 3. Near Admin Building	2. Near Pellet Plant Training House 4. Near MSP Family Colony	
Sampling Procedure	As Per Method Reference		
Sample	Filter Paper (PM <sub>10</sub> ): 1X1 NO., Filter Paper (PM <sub>2.5</sub> ): 1X1 NO.		
Quantity/Packing	SO <sub>2</sub> : 30mlX1 NO. PVC Bottle, NO <sub>2</sub> : 30mlX1 NO. PVC Bottle, Rubber Bladder: 1X1 NO.		

## Test Method and NAAQM Standard for Ambient Air Quality Monitoring

Parameter	Method Reference	NAAQM Standard
Particulate Matter size less than 10 microns (PM <sub>10</sub> )	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I	100
Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	IS 5182 (Part 24): 2019 & CPCB Guidelines Vol.-I	60
Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I	80
Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I	80
Carbon Monoxide (CO)	IS 5182 (Part 10): 1999, RA 2003	4.0

## TEST REPORT

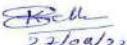
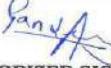
Sampling Location	PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO* mg/m <sup>3</sup>
Near Guest House	65.4	35.1	18.1	34.6	0.32
Near Pellet Plant Training House	61.1	31.2	19.2	31.2	0.56
Near Admin Building	58.8	33.7	16.4	24.5	0.61
Near MSP Family Colony	51.4	19.9	14.5	29.4	0.53

Note: All results are on the basis of 24 hour sampling. \* except CO.

## REMARKS: RESULTS ARE AS ABOVE

## Terms &amp; conditions

- The report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 07 days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test(s) only.

 27/09/22		For ULTIMATE ENVIROLYTICAL SOLUTIONS  AUTHORIZED SIGNATORY
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End of the test report.....

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

Annex - XIII

<b>MSP STEEL &amp; POWER LIMITED</b>							
<b>Jamgaon, Raigarh. C.G.</b>							
<b>Stack monitoring Report for the period of APRIL-22 to SEPT -22</b>							
Stack Name	Stack Attached with	APR-22	MAY-22	JUNE-22	JULY-22	AUG-22	SEPT-22
Stack -1	WHRB 1 & 2 (2LTPA)	38	31	36	39	42	34
Stack -2	WHRB 4 (1 LTPA)	47	45	42	44	47	41
Stack -3	AFBC 4.5MW & CFBC 10 MW	35	32	38	41	44	38
Stack -4	34 MW-CPP	47	46	43	46	47	45
Stack -5	Pellet -1	24	40	26	22	22	23
Stack -6	Pellet -2	25	42	28	26	24	26

**Remarks:- PM Limit is 50 MG/Nm3 As per CPCB Standards, Make :- Vyobdhan Model No:-VSS 1, Calibrated by by M/S UNIVERSAL SCIENTIFIC INSTRUMENT AND CALIBRATION,ALIGARH**



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Ring Road No-2, Kabir Nagar, Raipur (C.G.) - 492099  
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Name & Address Of The Customer		REPORT NO	UES/TR/22-23/04149
<b>To,</b> <b>MSP Steel &amp; Power Limited</b> <b>Village - Jamgaon,</b> <b>Post - Jamgaon, Dist. - Raigarh,</b> <b>496001(Chhattisgarh)</b>		LAB REF NO	UES/22-23/AAQM/010158
		DATE OF SAMPLING	23/09/2022
		DATE OF RECEIPT	24/09/2022
		DATE OF REPORT	27/09/2022
		DATE OF ANALYSIS	START: 24/09/2022 END: 27/09/2022
SAMPLE DETAILS			
MONITORING FOR	STACK EMISSION MONITORING	CUSTOMER REF. NO. & DATE	RD229-00038, DATED: 21-09-2022
SAMPLING LOCATION	PELLET-1 STACK		
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

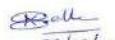
Stack details				
STACK IDENTITY	PELLET-1 STACK			
STACK ATTACHED TO	KILN # 1			
MATERIAL OF CONSTRUCTION	RCC			
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	50			
STACK DIAMETER	3.0			
STACK SHAPE AT TOP	CIRCULAR			
TYPE OF FUEL	COAL			
Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	118	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	17.1	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	Nm <sup>3</sup> /h	331240.03	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	23.6	30	IS 11255 (Part 1):1985, RA 2003
SULPHUR DIOXIDE (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	269	600	IS 11255 (Part 2):1985, RA 2003
OXIDES OF NITROGEN (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	98	300	IS 11255 (Part 7):2005, RA 2012
CARBON MONOXIDE (CO)	mg/Nm <sup>3</sup>	5.2	-	IS 13270 RA 2019

REMARKS: N.D. : NOT DETECTED

## Terms &amp; conditions

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For ULTIMATE ENVIROLYTICAL SOLUTIONS

  
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End of the test report.....

Name & Address Of The Customer		REPORT NO	UES/TR/22-23/04150
<b>To,</b> <b>MSP Steel &amp; Power Limited</b> <b>Village - Jamgaon,</b> <b>Post - Jamgaon, Dist. - Raigarh,</b> <b>496001(Chhattisgarh)</b>		LAB REF NO	UES/22-23/AAQM/010159
		DATE OF SAMPLING	23/09/2022
		DATE OF RECEIPT	24/09/2022
		DATE OF REPORT	27/09/2022
		DATE OF ANALYSIS	START: 24/09/2022 END: 27/09/2022
SAMPLE DETAILS			
MONITORING FOR	STACK EMISSION MONITORING	CUSTOMER REF. NO. & DATE	RD229-00038, DATED: 21-09-2022
SAMPLING LOCATION	PELLET-2 STACK		
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	PELLET-2 STACK			
STACK ATTACHED TO	KILN # 2			
MATERIAL OF CONSTRUCTION	RCC			
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	50			
STACK DIAMETER	3.0			
STACK SHAPE AT TOP	CIRCULAR			
TYPE OF FUEL	COAL			
Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	116	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	16.8	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	Nm <sup>3</sup> /h	327101.95	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	26.9	30	IS 11255 (Part 1):1985, RA 2003
SULPHUR DIOXIDE (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	229	600	IS 11255 (Part 2):1985, RA 2003
OXIDES OF NITROGEN (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	79	300	IS 11255 (Part 7):2005, RA 2012
CARBON MONOXIDE (CO)	%	5.1	-	IS 13270 RA 2019

REMARKS: N.D. : NOT DETECTED

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End of the test report.....

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Name & Address Of The Customer		REPORT NO	UES/TR/22-22/04142
<b>To,</b> <b>MSP Steel &amp; Power Limited</b> <b>Village – Jamgaon,</b> <b>Post - Jamgaon, Dist. - Raigarh,</b> <b>496001(Chhattisgarh)</b>		LAB REF NO	UES/22-23/ST/010148
		DATE OF SAMPLING	23/09/2022
		DATE OF RECEIPT	24/09/2022
		DATE OF REPORT	27/09/2022
		DATE OF ANALYSIS	START: 24/09/2022 END: 27/09/2022

## SAMPLE DETAILS

MONITORING FOR	STACK EMISSION MONITORING	CUSTOMER REF. NO. & DATE	RD229-00038, DATED: 21-09-2022
SAMPLING LOCATION	4.5 MW & 10 MW STACK		
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

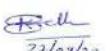
STACK IDENTITY	4.5 MW & 10 MW STACK		
STACK ATTACHED TO	BOILER		
MATERIAL OF CONSTRUCTION	RCC		
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	57		
STACK DIAMETER	2.43		
STACK SHAPE AT TOP	CIRCULAR		
TYPE OF FUEL	RICE HUSK & COAL		

Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	124	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	13.4	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	Nm <sup>3</sup> /h	167654.04	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	42.5	50	IS 11255 (Part 1):1985, RA 2003
SULPHUR DIOXIDE (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	255	600	IS 11255 (Part 2):1985, RA 2003
OXIDES OF NITROGEN (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	83.4	300	IS 11255 (Part 7):2005, RA 2012
CARBON MONOXIDE (CO)	mg/Nm <sup>3</sup>	5.9	-	IS 13270 RA 2019

REMARKS: : N.D. : NOT DETECTED

## Terms &amp; conditions

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- Test sample will be retained for 07 days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test(s) only.

  
27/03/22  
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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

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Name & Address Of The Customer		REPORT NO	UES/TR/22-23/04143
<b>To,</b> <b>MSP Steel &amp; Power Limited</b> <b>Village – Jamgaon,</b> <b>Post - Jamgaon, Dist. - Raigarh,</b> <b>496001(Chhattisgarh)</b>		LAB REF NO	UES/22-23/ST/010149
		DATE OF SAMPLING	23/09/2022
		DATE OF RECEIPT	24/09/2022
		DATE OF REPORT	27/09/2022
		DATE OF ANALYSIS	START: 24/09/2022 END: 27/09/2022

## SAMPLE DETAILS

MONITORING FOR	STACK EMISSION MONITORING	CUSTOMER REF. NO. & DATE	RD229-00038, DATED: 21-09-2022
SAMPLING LOCATION	CPP-2 STACK(34 MW)		
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	CPP-2 STACK		
STACK ATTACHED TO	BOILER		
MATERIAL OF CONSTRUCTION	RCC		
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	87		
STACK DIAMETER	3.0		
STACK SHAPE AT TOP	CIRCULAR		
TYPE OF FUEL	COAL		

Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	128	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	19.3	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	Nm <sup>3</sup> /h	364532.62	-	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>	259	600	IS 11255 (Part 2):1985, RA 2003
OXIDES OF NITROGEN (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	107	300	IS 11255 (Part 7):2005, RA 2012
CARBON MONOXIDE (CO)	mg/Nm <sup>3</sup>	5.2	-	IS 13270 RA 2019

REMARKS: : N.D. : NOT DETECTED

## Terms &amp; conditions

- The report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 07 days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test(s) only.

  
27/03/22  
REVIEWED BY

For ULTIMATE ENVIROLYTICAL SOLUTIONS  
  
AUTHORIZED SIGNATORY

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

Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Customer		REPORT NO	UES/TR/22-23/04149
<b>To,</b> <b>MSP Steel &amp; Power Limited</b> <b>Village - Jamgaon,</b> <b>Post - Jamgaon, Dist. - Raigarh,</b> <b>496001(Chhattisgarh)</b>		LAB REF NO	UES/22-23/AAQM/010158
		DATE OF SAMPLING	23/09/2022
		DATE OF RECEIPT	24/09/2022
		DATE OF REPORT	27/09/2022
		DATE OF ANALYSIS	START: 24/09/2022 END: 27/09/2022
SAMPLE DETAILS			
MONITORING FOR	STACK EMISSION MONITORING	CUSTOMER REF. NO. & DATE	RD229-00038, DATED: 21-09-2022
SAMPLING LOCATION	PELLET-1 STACK		
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

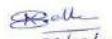
Stack details				
Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	118	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	17.1	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	Nm <sup>3</sup> /h	331240.03	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	23.6	30	IS 11255 (Part 1):1985, RA 2003
SULPHUR DIOXIDE (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	269	600	IS 11255 (Part 2):1985, RA 2003
OXIDES OF NITROGEN (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	98	300	IS 11255 (Part 7):2005, RA 2012
CARBON MONOXIDE (CO)	mg/Nm <sup>3</sup>	5.2	-	IS 13270 RA 2019

REMARKS: N.D. : NOT DETECTED

#### Terms & conditions

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For ULTIMATE ENVIROLYTICAL SOLUTIONS

  
27/09/22  
REVIEWED BY

  
For ULTIMATE ENVIROLYTICAL SOLUTIONS  
AUTHORIZED SIGNATORY

End of the test report.....

Format No. : UES/FORM/09

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 1986

Name & Address Of The Customer		REPORT NO	UES/TR/22-23/04150
<b>To,</b> <b>MSP Steel &amp; Power Limited</b> <b>Village - Jamgaon,</b> <b>Post - Jamgaon, Dist. - Raigarh,</b> <b>496001(Chhattisgarh)</b>		LAB REF NO	UES/22-23/AAQM/010159
		DATE OF SAMPLING	23/09/2022
		DATE OF RECEIPT	24/09/2022
		DATE OF REPORT	27/09/2022
		DATE OF ANALYSIS	START: 24/09/2022 END: 27/09/2022
SAMPLE DETAILS			
MONITORING FOR	STACK EMISSION MONITORING	CUSTOMER REF. NO. & DATE	RD229-00038, DATED: 21-09-2022
SAMPLING LOCATION	PELLET-2 STACK		
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

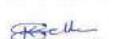
Stack details				
Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	116	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	16.8	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	Nm <sup>3</sup> /h	327101.95	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm <sup>3</sup>	26.9	30	IS 11255 (Part 1):1985, RA 2003
SULPHUR DIOXIDE (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	229	600	IS 11255 (Part 2):1985, RA 2003
OXIDES OF NITROGEN (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	79	300	IS 11255 (Part 7):2005, RA 2012
CARBON MONOXIDE (CO)	%	5.1	-	IS 13270 RA 2019

REMARKS: N.D. : NOT DETECTED

#### Terms & conditions

- The report for publication, arbitration or as legal dispute is forbidden.
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- This is for information as the party has asked for above test(s) only

For ULTIMATE ENVIROLYTICAL SOLUTIONS  
AUTHORIZED SIGNATORY

  
27/09/22  
REVIEWED BY

End of the test report.....

<b>MSP STEEL &amp; POWER LIMITED</b>						
<b>Jamgaon, Raigarh. C.G.</b>						
Work Zone noise monitoring Report for the period of APR -22 to SEPT -22						
LOCATION / Division -SMS	APR-22	MAY-22	JUNE-22	JULY-22	AUG-22	SEPT-22
Store	68.9	76.3	68.5	76.7	75.3	74.5
CCM1	83.9	84.7	83.7	83.5	84.7	83.8
CCM2	83.1	83.6	83.3	82.9	83.5	84.5
18Ton furnace	83.7	83.9	83.8	84.4	83.4	84.1
18 ton mcc room	80.5	80.4	80.6	78.4	78.1	80.4
Crusher area	83.8	83.7	83.8	83.4	83.4	83.8
Workshop	79.1	80.2	81.6	80.6	81.0	80.5
Office	66.8	66.5	66.4	66.6	66.7	66.6
QC	81.2	81.3	80.6	80.6	75.3	78.1
<b>Recommendation: Use ear plug while working at high Noise area</b>						
<b>Remarks:-</b> As per CPCB Standards 85dB(A) in Work Zone Area, Calibrated by M/S Universal Scientific Equipment and services, Aligarh,						

**E-Compliance of EC condition APRIL-22 TO SEPT-22**  
**MSP Steel and Power Limited, Jamgaon. Raigarh CG.**

<b>MSP STEEL &amp; POWER LIMITED</b>						
<b>Jamgaon, Raigarh. C.G.</b>						
Work Zone noise monitoring Report for the period of APRIL -22 to SEPT -22						
LOCATION / Division - SID &RMP	APR-22	MAY-22	JUNE-22	JULY-22	AUG-22	SEPT-22
Compressor room (K-4)	84.2	83.4	83.4	84.1	84.2	84.3
Separation	83.1	82.9	83.1	81.6	82.5	82.3
Kiln 1	84.0	84.0	84.3	83.2	83.8	82.9
Kiln 2	83.6	84.2	84.7	83.2	84.3	83.5
Kiln 4	82.3	83.4	83.5	82.2	83.5	82.8
Product house	81.2	80.6	80.5	80.3	80.0	74.2
Transformer room	83.9	84.1	83.5	82.0	82.3	84.1
Old day bin	80.9	81.0	80.4	78.4	78.4	79.0
Iron crusher	83.1	82.9	84.5	84.3	84.0	83.5
Coal crusher	83.6	84.4	83.8	83.6	83.3	83.4
Iron screen	83.7	82.3	83.9	84.1	83.4	83.0
Tippler circuit	79.2	78.3	78.1	77.6	76.0	74.9
Coal sizer	81.2	83.0	81.5	80.8	81.5	81.4
RMP office	67.0	66.3	65.3	65.9	65.8	66.0
New Daybin	79.0	77.2	77.4	77.3	78.7	78.4
<b>Remarks:-</b> As per CPCB Standards 85dB(A) in Work Zone Area, Calibrated by M/S Universal Scientific Equipment and services, Aligarh,						

**E-Compliance of EC condition APRIL-22 TO SEPT-22**  
**MSP Steel and Power Limited, Jamgaon. Raigarh CG.**

<b>MSP STEEL &amp; POWER LIMITED</b>						
<b>Jamgaon, Raigarh. C.G.</b>						
Work Zone noise monitoring Report for the period of APRIL -22 to SEPT -22						
LOCATION / Division - CPP -1	APR-22	MAY-22	JUNE-22	JULY-22	AUG-22	SEPT-22
CPP steel office	65.3	66.0	63.5	60.8	64.0	60.9
Boiler-4	77.5	77.6	77.9	78.3	77.7	76.2
Ground floor	83.9	84.5	84.3	84.0	84.1	84.2
Electrical panel	77.8	78.2	78.7	74.4	75.8	75.0
Turbine 1	83.9	82.2	Shutdown	Shutdown	83.2	84.0
Turbine 2	Shutdown	82.2	83.8	84.6	83.6	83.1
Turbine 3	83.4	82.8	82.6	83.5	83.7	82.4
Compressor house(18mw)	84.1	83.5	83.2	82.1	83.9	82.0
<b>Recommendation: Use ear plug while working at high Noise area</b>						
<b>Remarks:-</b> As per CPCB Standards 85dB(A) in Work Zone Area, Calibrated by M/S Universal Scientific Equipment and services, Aligarh,						

**E-Compliance of EC condition APRIL-22 TO SEPT-22  
MSP Steel and Power Limited, Jamgaon. Raigarh CG.**

<b>MSP STEEL &amp; POWER LIMITED</b>						
<b>Jamgaon, Raigarh. C.G.</b>						
Work Zone noise monitoring Report for the period of APRIL -22 to SEPT -22						
LOCATION / Division - CPP -2	APR-22	MAY-22	JUNE-22	JULY-22	AUG-22	SEPT-22
Coal hopper	81.4	80.8	80.4	80.1	80.6	79.3
CHP	81.9	82.4	81.5	81.6	82.8	81.7
Boiler Area	83.4	83.3	83.6	83.5	83.6	82.7
Turbine Floor	83.8	83.4	83.8	83.6	83.8	84.0
Office	66.3	66.0	65.8	67.5	70.2	65.4
Store	65.1	64.8	64.7	69.6	67.8	66.5
Control room	68.4	68.9	70.9	73.5	74.3	71.6
Ground floor	84.4	84.2	84.4	84.5	84.6	84.5
<b>COAL WASHERY</b>						
Coal hopper	81.3	81.3	81.1	80.7	78.8	78.3
Screen	84.5	84.4	84.2	84.3	83.7	83.6
RMP	82.8	83.0	82.7	82.3	82.3	82.0
Crusher	83.4	84.7	84.6	84.7	84.4	84.3
Office	66.4	66.3	67.2	66.5	66.3	65.7
Coal shade	77.6	76.9	78.5	78.2	78.0	78.4
<b>Recommendation: Use ear plug while working at high Noise area</b>						
<b>Remarks:-</b> As per CPCB Standards 85dB(A) in Work Zone Area, Make :- Envirotech, Calibrated by M/S Universal Scientific Equipment and services, Aligarh,						

**E-Compliance of EC condition APRIL-22 TO SEPT-22  
MSP Steel and Power Limited, Jamgaon. Raigarh CG.**

<b>MSP STEEL &amp; POWER LIMITED</b>						
<b>Jamgaon, Raigarh. C.G.</b>						
Work Zone noise monitoring Report for the period of APRIL -22 to SEPT -22						
LOCATION / Division - <b>PELLET -1</b>	APR-22	MAY-22	JUNE-22	JULY-22	AUG-22	SEPT-22
Benification	83.0	82.7	82.7	82.8	83.4	84.4
Cooler	83.7	83.8	82.8	83.1	84.3	82.1
Kiln	84.3	83.7	83.8	83.7	83.6	82.8
TG	78.8	78.8	79.3	78.1	78.3	79.7
PCI	83.6	83.4	83.3	83.4	84.1	83.9
Balling Disc	75.6	76.4	76.0	77.9	77.8	76.3
PGP	81.4	81.7	81.1	81.0	80.8	80.4
Product house	84.2	84.2	84.5	84.0	84.5	80.3
Thickener	71.7	72.0	72.4	71.3	73.1	74.4
<b>PELLET -2</b>						
ESP	82.5	82.8	82.5	81.3	81.8	80.5
Balling Disc	77.5	77.0	78.2	78.6	77.5	78.4
TG Building	80.5	80.5	79.7	79.2	78.7	79.3
PCI	83.7	84.0	83.1	82.4	84.4	82.5
Cooler	84.4	84.6	84.5	83.2	82.8	83.6
PGP	80.8	80.7	81.1	80.6	81.0	80.7
Benification	83.4	83.7	83.8	83.4	83.7	84.0
Kiln	83.1	83.4	84.6	83.9	84.4	83.5
Store	68.5	68.8	67.7	68.4	67.3	68.3
Office	66.7	67.0	66.5	66.9	66.7	66.6
<b>Recommendation: Use ear plug while working at high Noise area</b>						
<b>Remarks:- As per CPCB Standards 85dB(A) in Work Zone Area, Calibrated by M/S Universal Scientific Equipment and services, Aligarh,</b>						

**E-Compliance of EC condition APRIL-22 TO SEPT-22**  
**MSP Steel and Power Limited, Jamgaon. Raigarh CG.**

<b>MSP STEEL &amp; POWER LIMITED</b>						
<b>Jamgaon, Raigarh. C.G.</b>						
Work Zone noise monitoring Report for the period of APRIL-22 to SEPT-22						
LOCATION / Division RMD	APR-22	MAY-22	JUNE-22	JULY-22	AUG-22	SEPT-22
Store	77.1	77.5	77.9	76.4	77.4	77.9
Pusher	83.9	83.6	80.2	84.2	84.0	83.8
Injector door	84.6	84.4	84.5	84.8	84.6	84.4
Roughing stand	83.9	83.5	83.8	82.2	82.9	83.8
Workshop	84.4	84.4	84.4	83.4	83.8	84.2
Electrical MCC room	78.3	77.7	79.1	79.4	78.5	78.4
QC	75.4	75.3	75.2	76.8	76.0	76.6
Cooling Bed	84.2	84.6	84.4	84.0	83.7	84.5
Office	66.7	66.3	67.5	68.5	68.3	68.2
<b>RMS</b>						
Degree chair 1	83.4	83.8	83.7	83.4	82.8	83.5
Degree chair 2	83.8	83.9	84.3	83.8	83.3	82.0
Stand 4	82.5	84.6	84.4	83.4	83.6	83.1
Store	80.9	81.5	81.7	83.4	83.3	82.1
Lathe machine	84.1	84.6	84.4	82.4	83.0	83.6
Cooling Bed	84.5	83.4	84.2	83.8	83.4	83.5
Stand 7	83.3	84.3	83.6	82.4	83.7	82.0
Office	66.2	66.3	66.5	66.6	66.3	66.1
<b>Recommendation: Use ear plug while working at high Noise area</b>						
<b>Remarks:-</b> As per CPCB Standards 85dB(A) in Work Zone Area. Calibrated by M/S Universal Scientific Equipment and services, Aligarh,						

## Hierarchical System

Annex -XIV

<b>MSP STEEL &amp; POWER LIMITED</b> CORP OFF : 16/S, Block-'A', New Alipore, Kolkata.	WORKS : Jamgaon, Raigarh (CG)	
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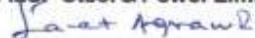
### ENVIRONMENT POLICY

As has been resolved by the Board of Directors of MSP Steel & Power Limited (MSPSPL), the objective of the company is to operate its integrated unit with utmost regard for Safety and care for the Environment, in its meeting held on 5<sup>th</sup> September, 2020 at the Corporate Office, Kolkata.

MSPSPL is, therefore, committed to:

1. Adhere to National laws and regulations related to Environment Protection and Prevention & Control of Pollution for ensuring healthy & safe workplace.
2. Design, construct and operate the plant by adopting technology and process that are sustainable and environmentally acceptable in the country.
3. Initiate measures to prevent, minimize and control discharges to air, water and land of substances, which could adversely affect health and the environment.
4. Operate facilities and conduct activities taking into consideration of efficient usage and conservation of natural resources.
5. Establish Standard Operating Procedure (SOP) for effective Environment management through awareness and participation of employees, Contractors & Suppliers for prompt corrective measures and their compliances.
6. Employ qualified and competent personnel to oversee and maintain healthy and safe workplace environment for all employees.
7. Adopt measures to ensure that, all its contractors and business associates also comply with National laws and regulations related to Environment Protection and Prevention & Control of Pollution.
8. Adopt environmental conservation initiatives for preservation of bio-diversity around areas of operation.
9. Focus on continual improvement of environmental performance and ensure involvement of employees at all levels by providing training & awareness.

For MSP Steel & Power Limited



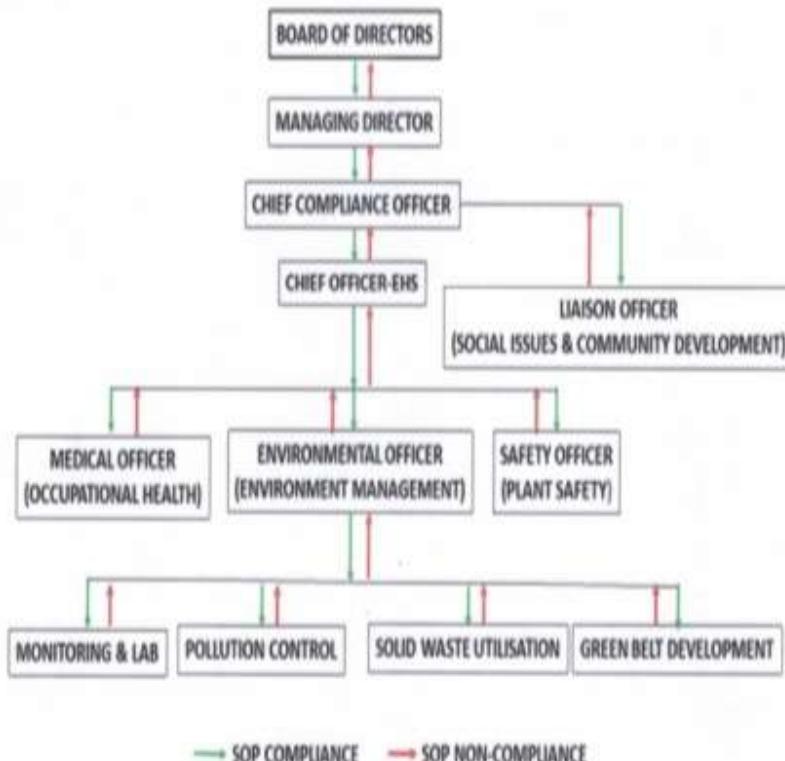
(Saket Agrawal)

Managing Director

Dated: 05.09.2020



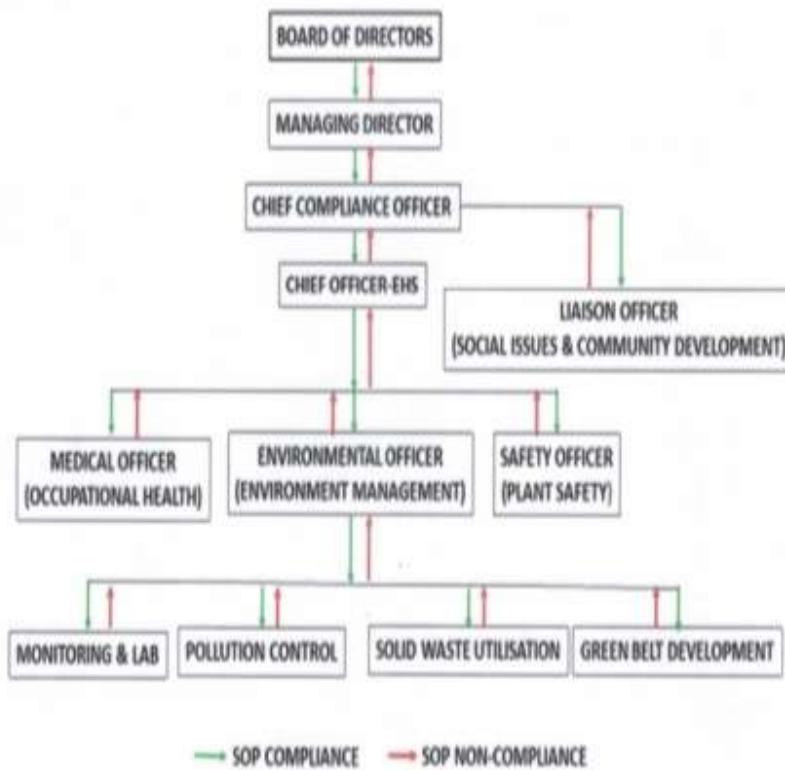
### Institutional Set-Up for Environmental Management



*S. Kumar Agrawal*



### Institutional Set-Up for Environmental Management



*S. Kumar Agrawal*

**Plantation Schedule**

**Annex –XV**

<b>S.No.</b>	<b>Species</b>	<b>Plantation done in 2022-23</b>		
		<b>Inside Plant Premises</b>	<b>Out Side Plant Premises</b>	<b>Total Plantation</b>
1	Pelta farm	946	3433	4379
2	Gulmohar	565	301	866
3	Casiacemia	86	0	86
4	Neem	10	0	10
5	karanj	0	355	355
6	Mango	11	73	84
7	Jack fruit	140	0	140
9	Arjun	0	6568	6568
10	Imli	0	210	210
11	Ratanjut	0	160	160
12	Seemar	0	142	142
<b>TOTAL</b>		<b>1758</b>	<b>11242</b>	<b>13000</b>

<b>Sl.</b>	<b>Plantation Done</b>	<b>Year</b>	<b>No. of Plants</b>
1	Done	2020-21	6396
2	Done	2021-22	7788
3	Done	2022-23	13000
4	Proposed	2023-24	12500
5	Proposed	2024-25	10500
<b>Total</b>			<b>50184</b>