

1st Dec 2021

To,

The Scientist 'C'/ Head of Office,
Govt. Of India, MOEF&CC,
Integrated Regional Office,
Aranya Bhawan, North Block,
Naya Raipur, Atal Nagar,
Chhattisgarh - 452002.

Sub.- Submission of compliance of conditions of environmental clearances for the period April 2021 to Sep 2021.

Ref.- Ecs granted to us vide no. F.NO.J-11011/267/2007-IA II(I) DATED 02.04.2009, F.NO.J-11011/267/2007-IA II (I) DATED 09.09.2010, F.NO.J-11011/267/2007-IA II(I) DATED 23.08.2012 AND 26.12.2019.

Respected Sir,

With reference to subject cited above, we are submitting herewith compliance of conditions (alongwith proper annexures) mentioned in Environmental Clearances granted to us by MOEF &CC vide above referred numbers for the period April 2021 to Sep 2021.

This is for your kind information please.

Thanking You
Yours Faithfully
For MSP Steel & Power Ltd.



Prashant Pandey
Sr. GM (Corporate co-ordination)

Encl- As above

Copy to -

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 APRIL.2021to SEPT. 2021

A. SPECIFIC CONDITIONS

SN	SPECIFIC CONDITIONS	COMPLIANCE STATUS																														
I	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 / Nm3. 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.	<div>Status of Installation Unit wise (Annex-I)</div> <table><tr><th>Capacity</th><th>ESP</th><th>BAG FILTER</th><th>VENT FILTER</th><th>DRY FOG</th></tr><tr><td>Sponge Iron 3.75 LTPA</td><td>03 nos. ESP (each 3 field)</td><td>04 nos bag house</td><td>04 nos.Vent Filter</td><td>Installed Dry Fog system</td></tr><tr><td>CPP (10+4.5 & 34 MW)</td><td>03no. ESP (3 & 5 Field)</td><td>03 no. Bag house</td><td>03 no. vent filter</td><td></td></tr><tr><td>SMS -IF+CCM 3.055 LTPA</td><td>-</td><td>01 no. Bag house</td><td></td><td></td></tr><tr><td>Pellet 12.50 LTPA</td><td>03 nos. ESP (3 Field),</td><td>02 no. Bag house</td><td></td><td></td></tr><tr><td>Rolling Mill 4.80 LTPA</td><td colspan="3">Casting of billet in CCM & hot rolling online.</td><td></td></tr></table>	Capacity	ESP	BAG FILTER	VENT FILTER	DRY FOG	Sponge Iron 3.75 LTPA	03 nos. ESP (each 3 field)	04 nos bag house	04 nos.Vent Filter	Installed Dry Fog system	CPP (10+4.5 & 34 MW)	03no. ESP (3 & 5 Field)	03 no. Bag house	03 no. vent filter		SMS -IF+CCM 3.055 LTPA	-	01 no. Bag house			Pellet 12.50 LTPA	03 nos. ESP (3 Field),	02 no. Bag house			Rolling Mill 4.80 LTPA	Casting of billet in CCM & hot rolling online.			
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II	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/Nm3 Gas cleaning plant having dust catcher and bag filter shall be provided to blast furnace (BF) and BF gas shall he used for power generation. Ventury scrubbers shall be provided to Rolling Mill.	<div>- Complied</div> <div>- ESP capacity reported earlier is adequate to maintain emission within permissible level.</div> <div>- Blast Furnace condition noted & shall follow on establishment of project.</div> <div>- On line rolling process is adopted and unit is not using re-heating furnace in the Rolling Mills.</div>																														
III	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.	<div>- Complied</div> <div>- All kilns is equipped with DSC & ABC to burn CO and hot gases used in WHRB.</div> <div>- Gas sucked through I D Fan is cleaned in ESP before finally discharged to atmosphere.</div> <div>- Emission control system is installed as mentioned in clause (I)</div> <div>- Condition for BF will be followed while establish the</div>																														

		plant.
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"> - Noted the conditions. - Norms will be followed while establish the BF project & Sinter plant project.
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"> - Complied. <p><u>Control of vehicular pollution</u></p> <p>-Raw material: Transported in covered vehicle and water spraying system at unloading point of ground hopper.</p> <ul style="list-style-type: none"> - Finish Product: Covered vehicle and stored in silo. Telescopic chute is installed to prevent emission of dust during loading of Sponge iron. - Fly ash transfer to silo through pneumatic conveying system, moisturize during loading and transported in enclosed condition.
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"> - Complied. - Proper control & monitoring devices are installed as shown in Annex. I - Fugitive emission monitored and all records maintained. - Additional water spraying system (Road side) installed where it is required. <p><i>Annex- II (Fugitive dust Monitoring report)</i></p>
VII	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	<ul style="list-style-type: none"> - Complied. - Water consumption does not exceed the quantity approved in EC - Water bill is paid to WRD regularly.

	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>Annex- III (Water consumption report)</p> <ul style="list-style-type: none"> - Coal washery is not in operation since for viability reason. - Waste water from RO DM plant is neutralized and re used for dust suppression and green belt development. - ETP, installed and waste water treated and used in ash conditioner. Test report of NABL accredited & CECB approved lab. <p>Annex- IV (Waste water test report)</p> <ul style="list-style-type: none"> - Domestic effluent is treated in septic tank by soak pit. - 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.
VIII	Prior permission for the drawl of 6,701.2 m3/day water from Sapnai River I Kurnala from the concerned department shall be obtained.	<ul style="list-style-type: none"> - Complied. <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> <ul style="list-style-type: none"> - Copy of above approval in this regard is attached herewith as Annex-V (Permission for water withdrawal) .
IX	The water consumption for the proposed steel plant shall not exceed 16 m3/Ton of steel as per prescribed standard.	<ul style="list-style-type: none"> - Complied. - Water consumption is under prescribed standard.
X	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.	<ul style="list-style-type: none"> - Complied. <p>Ground water quality is monitored at surrounding area of plant and nearby villages on six monthly, last monitoring report is attached herewith as Annex. VI (Ground water test report)</p> <ul style="list-style-type: none"> - Ground water quality is not adversely affected by our unit.
XI	All the Char, coal washery rejects and middling should be used in AFBC based power- plant,: Granulated slag shall be sold to cement plant. AII	<ul style="list-style-type: none"> - Complied.

	the other solid wastes including broken refractory mass shall be properly disposed off in environmental-friendly manner Oily waste shall be provided to authorized recyclers /re-processors'.	<ul style="list-style-type: none"> - All Char & reject coal is used as fuel in our own AFBC 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"> - Complied. - Dolochar is used in our own CPP (AFBC and CFBC) Power Plants. - SMS slag, after metal recovery is used in the filling of low lying area within premises for upcoming project. - Blast furnace not Established.
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"> - Blast furnace is yet to be installed. - Used oil sold to authorize recyclers with due clearance / Authorization from CECB. - Used oil analyzed for toxic metal composition before its disposal to authorized recycler. <p>Annex- VII (Solid waste analysis report)</p> <p>Annex- VIII (Used oil test report)</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"> - Complied. - The unit has submitted in the office of CPCB, Raipur and Raigarh a time bound action plan for utilization of solid waste. <p>Annex- IX (Action plan)</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	<ul style="list-style-type: none"> - Complied. - All Char & reject coal is used as fuel in our own AFBC Power Plant.

	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"> - Granulated slag is used in side road construction. - Broken waste refractories are sold to buyers. - 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. <p>Annex- VII (Solid waste test report)</p>
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"> - Complied. - Fly ash is temporarily stored at designated area. Disposal of the same is made by supplying to cement unit, Brick making and low land filling free of cost.
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.	<ul style="list-style-type: none"> - Complied. - We have already completed 33% of green belt development as per CPCB guideline. Third party audit report in this regard submitted in the office of RO. CECB. As on date about 33% trees are planted for green belt purpose. <p>Annex- X (Green belt audit report)</p>
xviii	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Sector shall be implemented.	<ul style="list-style-type: none"> - Various CSR activities carried out under advice from District Administration. - CREP policy is not applicable at this stage.
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	<ul style="list-style-type: none"> - Complied. - At project stage temporary housing facility with all amenities are provided and removed after completion of project. - During operation stage separate housing facility provided, away from Factory premises.
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"> - The unit followed strictly the stipulations made by the CECB and the State Government. - CTE/CTO obtained on satisfactory compliance are made.
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"> - Noted and shall follow the same.
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	<ul style="list-style-type: none"> - Complied. - Gaseous emission from stack ie Sox and NOx is monitored through CEMS and data uploaded to the server of SPCB/CPCB. - Measures taken for effective control of pollution by proper

	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 lime the emission level shall go beyond the prescribed standards.	installation, maintenance of pollution control devices.
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 ₂ and NO _x are anticipated in consultation with the CECEB. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Bhopal and the CECEB/CPCB once in Six months	<p>– Complied.</p> <p>- AAQMS and CEMS are installed and data uploaded on line as per guide line.</p>
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 form tune to time, The treated waste water shall be utilized for plantation purpose	<p>– Complied.</p> <p>- Industrial waste such as boiler blow down water and used in dust conditioner and sprinklers.</p> <p>- RO reject water neutralize and used in road spraying.</p> <p>- Waste water treated in ETP and use for dust conditioner and plantation.</p>
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>– Complied.</p> <p>- Regular monitoring of vibration carried out to control Noise.</p> <p>- Acroscopic hoods, silencers are provided with DG sets</p> <p>- Environmental cell monitoring noise both work zone & Ambient air twice in a month and no abnormality has been observed.</p>
vii	Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act	<p>– Complied.</p> <p>Industry has Occupational Health centre in the premises where health checkup done periodically and record maintained.</p> <p>- Health checkup report submitted with the office of Industrial Health & Safety, Raigarh.</p>
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.	<p>– Complied.</p> <p>- The unit has adopted rain water harvesting techniques with provision for collection of roof water & runoff water for recharge of ground water level.</p> <p>Annex- XI (audit report)</p>

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.	<p>– Complied.</p> <p>Community development carried out under District administration.</p> <ul style="list-style-type: none"> - Health care camps. - Education. By providing teacher. - Ambulance service for villagers. - Drinking water.
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.	<p>– Complied.</p> <ul style="list-style-type: none"> - Proper pollution control devices as shown in the Annex. I are installed and maintained by our in house Environment management cell.
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.	<p>– Complied.</p> <ul style="list-style-type: none"> - The Regional Officer CECB, time to time visits the plant and monitors the Environmental emissions. <ul style="list-style-type: none"> – Last Six month monitoring data for Stack Air, Ambient air, fugitive emission, Noise monitoring (Ambient & work zone) and drinking water attached herewith <p>Annex- II (Fugitive dust Monitoring report)</p> <p>Annex- XII (Stack Monitoring, Ambient monitoring, Noise monitoring report)</p>
xii	The Project Proponent shall 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 http://envfor.nic.in 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 III the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded	<p>– Complied</p> <ul style="list-style-type: none"> - We had made a publication of the said matter in two local 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 http://envfor.nic.in - Copies of EC is made available to public and administration. - AAQMS & CEMS data is uploaded online to CECB / CPCB server.

	to the Regional office	- Display board is installed to display operational status.
xiii	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.	- Complied - Concerned regional authority was made aware the financial closure in due course of time.
7	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory	- We have noted the point.
8	The Ministry reserves the right to stipulate additional conditions if found necessary the company in a time bound manner shall implement these conditions	- We have noted the point.
9	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	- We have noted the point.
10	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974. The Air (Prevention & 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.	- We have noted the point.

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 2021- Sept.2021

SN	Conditions	Compliance Status
i	The company shall comply with all the conditions stipulated vide Ministry's letter no, J-11011/267/2007- IA-II (I) dated 2 nd April, 2009	-We are complying with the conditions stipulated vide Ministry's letter no, J-11011/267/2007- IA-II (I) dated 2 nd April, 2009
ii	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 2261 E: dated 16 th November, 2009 shall be followed	- Complied.
iii	The water consumption shall not exceed the existing capacity of 6701.2 m ³ /day.	Complied. -No incidence of any excess consumption.
iv	The proposed change In configuration shall be implemented in the existing land area of 541 acres no	Noted and shall follow the same.

	additional land shall be acquired	
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.	Complied. - 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.	Complied. - 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 / Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions / 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	Complied. -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, SO ₂ , NO _x (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.	-Complied. - PM ₁₀ , PM _{2.5} SO ₂ , NO _x in ambient air & PM, SO ₂ & NO _x at Stack monitored & displayed at Main gate month wise. - AAQMS and CEMS installed and online data uploaded as per guide line.
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.	- Complied. -We have noted point and complied accordingly.
x	The environmental statement for each financial year ending 31 st March in Form-V as mandated to be	- Complied.

	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.	-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.)
xi	In case of change in the scope of the project, the unit shall obtain fresh environmental clearance	-We shall surely obtain a fresh environmental clearance if there is any change in the scope of the project.

OMPLIANCE OF CONDITIONS ADDED IN THE ENVIRONMENTAL CLEARANCE GRANTED BY MOEF, NEW DELHI VIDE F. NO. J-11011/267/2007-IA II(I) DATED 23rd August, 2012. Status for the period of April 2021- Sept. 2021

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 bring 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. Annex-XIII

COMPLIANCE OF CONDITIONS ADDED IN THE ENVIRONMENTAL CLEARANCE GRANTED BY MOEF, NEW DELHI VIDE F. NO. J-11011/267/2007-IA II(I) dated 26th Dec, 2019. Status for the period of April- 2021- Sept. 2021


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 preexisting water cooled system is not accepted by us 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. Decision of the Ministry is awaited. Copy of our said letter of protest is enclosed as Annex-XIV .
iii	Emission levels from Bag filter and ESP shall be 30mg/Nm ³ and 50 mg/Nm ³ 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.	Incompliance to the condition for plantation @5000 saplings a year, the company has planted about 15000 plants in 2020 & 2021 in its periphery villages namely Junadih, Navapara & Jamgaon Basti despite pandemic situation. Remaining 35000 plantations will be covered within 2025.

FUGITIVE AIR MONITORING REPORT ANNEX – II

S l	Divisio n	Location	Results in µg/m³ (Limit is 2000 µg/m³)					
			April – 21	May – 21	June – 21	July – 21	Aug – 21	Sept – 21
01	SMS	Near Furnace no.3	1695	1721	1854	1955	1301	1425
		Near Office	1728	1787	1965	1182	946	1113
		Near Slag Crusher	1794	1837	1903	1854	1734	1785
		Near Ground Hopper	568	791	1036	513	1445	1213
02	Rolling Mill	Near Work Shop-RMD	578	1419	1788	1390	962	1030
		Material Loading yard-RMD	963	1376	732	1115	1394	1239
		Near Pusher-RMD	1485	1694	1328	988	819	1193
		Near QC lab	593	941	593	1420	985	1235
		Material Loading yard -RMS	1043	1035	957	914	1266	925
		LSM MCC Room	1563	1691	1263	1094	1795	1160
		Material Loading yard -LSM	765	1105	658	863	1919	1230
03	SID	Between Kiln 1 & 2	1780	1531	725	1917	1898	1502
		Kiln 4 Separation House	978	1032	1219	528	915	666
		RMP-Old Circuit	1576	1598	1730	1836	1721	1457
		RMP-New Circuit	970	1386	1185	1137	1148	1532
		Kiln 1 & 2 Product House	1873	1845	1262	1651	1106	1822
04	CPP – 1	CHP area	1578	1025	649	1602	1115	1789
		Boiler area	1876	1636	1045	1428	1018	1720
		Silo Area	1930	1348	1456	1740	1316	1826
05	PELLET PLANT	Near Benification	1611	971	1489	840	1125	1454
		Near PCI	1964	1387	1472	1388	1858	1488
		Near P1 Cooler	1232	1323	1523	1418	1474	1840
		Near P2 Cooler	1846	1725	1964	1722	1744	1416
		Near MTM	1794	1791	1834	1896	1816	1465
06	CPP – 2	Near CHP Ground Hopper	1879	972	1307	1786	1355	1089
		Near Boiler	1846	1284	1552	1043	1416	1115
		Silo Area	1472	1534	1557	1529	1453	1658
07	COAL WASHERY	Near Screen House	1485	1851	1737	1112	1434	1708
		Near Ground Hopper	1084	1602	1133	1883	1033	1658

Remarks:- SPM Limit is 2000 (µg/m³) As per CPCB Standards, Make :- VAHIVAB EQUIPMENTS & SERVICES Model No:- VHVS 5BL Calibrated by M/S UNIVERSAL SCIENTIFIC INSTRUMENT AND CALIBRATION, ALIGARH

	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	

To, MSP STEEL & POWER LIMITED VILLAGE - JAMGAON, POST - JAMGAON, DIST-RAIGARH, 496001 (CHHATTISGARH)	REPORT NO.	UES/TR/21-22/3018	
	LAB REF NO.	UES/21-22/FE/5415-5424	
	DATE OF SAMPLING	05/10/2021	
	DATE OF RECEIPT	06/10/2021	
	DATE OF REPORT	11/10/2021	
	DATE OF ANALYSIS	START: 06/10/2021	END: 08/10/2021
SAMPLE DETAILS			
Monitoring For	Fugitive Emission		
Customer Ref. No.	As per verbal communication		
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					
Sl No.	Location	Unit	Result (SPM)	Limit as per Moef & CC Notification	Method Reference
1	KILN NO. 4	($\mu\text{g}/\text{m}^3$)	1102.5	2000	EPA Method IO-2.1
2	WHRB # 04	($\mu\text{g}/\text{m}^3$)	1154.5		
3	CPP-1 BOILER	($\mu\text{g}/\text{m}^3$)	719.1		
4	CPP-1 CHP	($\mu\text{g}/\text{m}^3$)	1090.2		
5	CPP-2 CHP	($\mu\text{g}/\text{m}^3$)	1029.4		
6	CPP-2 BOILER AREA	($\mu\text{g}/\text{m}^3$)	650.0		
7	SMS QC LAB	($\mu\text{g}/\text{m}^3$)	652.9		
8	SMS FURNACE - 3	($\mu\text{g}/\text{m}^3$)	1331.4		
9	PELLET PCI	($\mu\text{g}/\text{m}^3$)	843.2		
10	OLD BENEFCATION	($\mu\text{g}/\text{m}^3$)	917.2		

REMARKS: N.D.- NOT DETECTED, SPM: SUSPENDED PARTICULATE MATTER

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

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

Water consumption report

Annex –III

MSP STEEL & POWER LIMITED,			
Jamgaon,Raigarh(C.G)			
Water Utilization as approved in EC 6701m3/Day			
Water Consumption Summery from April-21 to Oct-21			
SL	Month	Monthly intake water in m3	Average per day intake of water in M3
1	APRIL-21	99745	3324.8
2	MAY-21	100000	3225.8
3	JUNE-21	99823	3327.4
4	JULY-21	100210	3232.6
5	AUGUST-21	100310	3235.8
6	SEPT-21	100000	3333.3
7	OCT – 21	100000	3225.8

Water Analysis Report Annex -IV

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

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Name & Address Of The Customer		REPORT NO	UES/TR/21-22/0369	
TO, MSP STEEL & POWER LIMITED Village - JAMGAON POST - JAMGAON, DIST-RAIGARH, 496001 (CHHATTISGARH)		LAB REF NO	UES/21-22/W/0413-0415	
		DATE OF SAMPLING	27/08/2021	
		DATE OF RECEIPT	27/08/2021	
		DATE OF REPORT	28/08/2021	
		DATE OF ANALYSIS	START: 27/08/2021	END: 28/08/2021
SAMPLE DETAILS				
Customer Ref. No.	RD203-00037, DATED: 17.03.2021			
Sample Type	EFFLUENT WATER			
Customer Sample ID	1. CPP-1 ETP 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
1	pH Value at 25.5°C	-	IS: 3025: (Part-11)	5.5 To 9.0	7.30	7.27	8.17
2	Total Suspended Solid	mg/L	IS: 3025: (Part-17)	100	7.8	23.5	6.5
3	Total Dissolved Solids	mg/L	IS: 3025: (Part-16)	-	150.9	205.4	214.3
4	Chemical Oxygen Demand	mg/L	IS: 3025: (Part-58)	250	8.0	6.4	12
5	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS: 3025: (Part-44)	30	2.2	4.0	3.8
6	Oil & Grease	mg/L	IS: 3025: (Part-39)	10	N.D.	N.D.	N.D.
7	Total Coliform	MPN/100ml	APHA 22nd Edition-(9221-D)	-	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 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

 PREPARED BY	 For ULTIMATE ENVIROLYTICAL SOLUTIONS	 AUTHORIZED SIGNATORY
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End of the test report

 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 TO, MSP STEEL & POWER LIMITED Village - JAMGAON POST - JAMGAON, DIST-RAIGARH, 496001 (CHHATTISGARH)	REPORT NO	UES/TR/21-22/512	
	LAB REF NO	UES/21-22/W/564-566	
	DATE OF SAMPLING	30/09/2021	
	DATE OF RECEIPT	01/10/2021	
	DATE OF REPORT	08/10/2021	
	DATE OF ANALYSIS	START: 01/10/2021	END: 08/10/2021
SAMPLE DETAILS			
Customer Ref. No.	RD203-00037, DATED: 17.03.2021		
Sample Type	EFFLUENT WATER		
Customer Sample ID	1. CPP-1 ETP 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
1	pH Value at 25.2°C	-	IS:3025: (Part-11)	5.5 To 9.0	7.25	7.22	7.27
2	Total Suspended Solid	mg/L	IS:3025: (Part-17)	100	32.0	26.0	22.0
3	Total Dissolved Solids	mg/L	IS:3025: (Part-16)	-	114.8	191.8	172.0
4	Chemical Oxygen Demand	mg/L	IS:3025: (Part-58)	250	16.00	32.00	38.0
5	Bio-chemical Oxygen Demand at 27°C for three days	mg/L	IS:3025: (Part-44)	30	4.26	8.45	14.2
6	Oil & Grease	mg/L	IS:3025: (Part-39)	10	N.D.	N.D.	N.D.
7	Total Coliform	MPN/100ml	APHA 22nd Edition-(9221-D)	-	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 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

 08/10/21 REVIEWED BY		For ULTIMATE ENVIROLYTICAL SOLUTIONS  08/10/21 AUTHORIZED SIGNATORY
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-----End of the test report-----

Water Draw Approval

Annex-V

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

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

मुख्य अभियंता,
हसदेव कछार,
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 केप्टिव पॉवर प्लांट हेतु कुर नाला से स्वीकृति 15.00 मि.घ.मी. वार्षिक जल आबंटन को कम कर 2.00 मि.घ.मी. वार्षिक करने बाबत स्वीकृति।

संदर्भ:-1. शासन का पत्र क्रमांक-6727-6728/273/जसं/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/जसं/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 केप्टिव पॉवर प्लांट हेतु कुर नाला में विभाग द्वारा निर्मित बहेरापाली एनीकट से आबंटित 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।

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

सहपत्र:- शून्य।

सही
(याकुब खैरस)
उप सचिव
जल संसाधन विभाग,
मंत्रालय, रायपुर

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पृ.क्र.3330/273/जसं/तशा/औजप्र/05/डी-4, नया रायपुर दिनांक/04/2013
प्रतिलिपि:-

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

सहपत्र:- शून्य।

उप सचिव
जल संसाधन विभाग
मंत्रालय, रायपुर

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Ground Water Analysis report

MSP STEEL & POWER LIMITED							
Jamgaon, Raigarh. C.G.							
Ground Water Testing Report for the Month of JUNE-21 & SEPTEMBER -21							
SL.NO	PARAMETERS	UNIT	Limit	JUNE -21		SEPTEMBER-21	
				JAMGA	MANUAPALI	JAMGA	MANUAPALI
1	Appearance	-	Clear	Clear	Clear	Clear	Clear
2	Odour	-	**	odorless	odorless	odorless	Odorless
3	pH	--	6.5 – 8.5	6.8	6.8	6.7	6.8
4	TSS	mg/l	**	1	2	2	1
5	TDS	mg/l	500 – 2000	64	212	60	211
6	Turbidity	NTU	1 – 5	0.5	0.4	0.5	0.3
7	conductivity	µs/cm	**	98	322	92	321
8	T. Alkalinity	ppm	200 – 600	30	24	28	26
9	T. Hardness	ppm	300 – 600	38	74	32	70
10	Calcium	ppm	75 – 200	25	48	21	46
11	Magnesium	ppm	30 – 100	13	26	12	24
12	Chloride	ppm	250 – 1000	14	30	16	24
13	Silica	ppm	**	22	24	20	22
14	Iron	ppm	0.30 – 1.0	0.038	0.410	0.032	0.312

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

Annex – VI



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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Name & Address Of The Customer		Report No	UES/TR/21-22/3031	
To, MSP STEEL & POWER LIMITED VILLAGE - JAMAGAON, POST - JAMAGAON, DIST-RAIGARH, 496001 (CHHATTISGARH)		Lab Ref No	UES/21-22/W/5376	
		Date of Sampling	06/10/2021	
		Date of Receipt	07/10/2021	
		Date of Report	12/10/2021	
		Date of analysis	Start:07/10/2021	END:12/10/2021
SAMPLE DETAILS				
Customer Sample Id /Sampling Location	Jamagaon Village			
Customer Ref. No. & Date	As per verbal communication			
Sample Type	Borewell Water			
Packing of Sample	Plastic Bottle (5ltr.) Glass Bottle (350 ml)			
Sample Collected By	Laboratory Chemist			
Sample Condition At Receipt	Ok			

REPORT NO. 3031

TEST REPORT						
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source	
A. Organoleptic & Physical Parameters						
1	Colour	Hazen	IS:3025:(Part-4)	5	15	<1
2	Odour	-	IS:3025(part-5)	Agreeable	Agreeable	Agreeable
3	pH Value at 24.7°C	-	IS:3025:(Part-11)	6.5-8.5	No Relaxation	7.27
4	Taste	-	IS:3025(part-8)	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	IS:3025:(Part-10)	1	5	0.68
6	Total Dissolved Solids	mg/L	IS:3025:(Part-16)	500	2000	219.5
B. General Parameters Concerning Substances undesirable in excessive amounts						
1	Aluminium (as Al)	mg/L	IS:3025(part-55)	0.03	0.2	N.D.
2	Ammonia (as total ammonia-N)	mg/L	IS:3025(part-34)	0.5	No Relaxation	N.D.
3	Anionic Detergent (as MBAS)	mg/L	Annex K of IS:13428	0.2	1.0	N.D.
4	Barium (as Ba)	mg/L	Annex F of IS:13428	0.7	No Relaxation	N.D.
5	Boron (as B)	mg/L	IS 3025:(Part-57)	0.5	1.0	N.D.
6	Calcium (as Ca)	mg/L	IS 3025:(Part-40)	75	200	38.4
7	Chloramines (as Cl ₂)	mg/L	IS 3025:(Part-26)	4.0	No Relaxation	N.D.
8	Chloride (as Cl)	mg/L	IS 3025:(Part-32)	250	1000	16.9
9	Copper (as Cu)	mg/L	IS 3025(part-42)	0.05	1.5	N.D.
10	Fluoride (as F)	mg/L	IS 3025(part-60)	1	1.5	0.08
11	Free Residual Chlorine	mg/L	IS 3025:(Part-26)	0.2	1	N.D.
12	Iron (as Fe)	mg/L	IS 3025(part-53)	0.3	No Relaxation	0.21
13	Magnesium (as Mg)	mg/L	IS 3025:(Part-46)	30	100	6.86

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



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

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REPORT NO. 3031

TEST REPORT						
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source	
14	Manganese (as Mn)	mg/L	IS 3025 (part-59)	0.1	0.3	N.D.
15	Mineral Oil	mg/L	Clause 6 of IS 3025 (Part-39) Infrared partition method	0.5	No Relaxation	N.D.
16	Nitrate (as NO ₃)	mg/L	IS 3025 (part-34)	45	No Relaxation	0.86
17	Phenolic Compound (as C ₆ H ₅ OH)	mg/L	IS 3025 (part-43)	0.001	0.002	N.D.
18	Selenium (as Se)	mg/L	IS 3025 (part-56)	0.01	No Relaxation	N.D.
19	Silver (as Ag)	mg/L	Annex J of IS 13428	0.1	No Relaxation	N.D.
20	Sulphate (as SO ₄)	mg/L	IS 3025: (Part-24)	200	400	18.4
21	Sulphide (as H ₂ S)	mg/L	IS 3025: (Part-29)	0.05	No Relaxation	N.D.
22	Total Alkalinity (as CaCO ₃)	mg/L	IS 3025: (Part-23)	200	600	124.0
23	Total Hardness (as CaCO ₃)	mg/L	IS 3025: (Part-21)	200	600	138.0
24	Zinc (as Zn)	mg/L	IS 3025 (part-49)	5	15	N.D.
C. Parameters concerning toxic substances:-						
1	Cadmium (as Cd)	mg/L	IS 3025 (part-41)	0.003	No Relaxation	N.D.
2	Cyanide (as CN)	mg/L	IS 3025 (part-27)	0.05	No Relaxation	N.D.
3	Lead (as Pb)	mg/L	IS 3025 (part-47)	0.01	No Relaxation	N.D.
4	Mercury (as Hg)	mg/L	IS 3025 (part-48)	0.001	No Relaxation	N.D.
5	Molybdenum (as Mo)	mg/L	IS 3025 (part-2)	0.07	No Relaxation	N.D.
6	Nickel (as Ni)	mg/L	IS 3025 (part-54)	0.02	No Relaxation	N.D.
7	Polychlorinated biphenyls	mg/L	ASTM 5175	0.0005	No Relaxation	N.D.
8	Polynuclear aromatic hydrocarbons (as PAH)	mg/L	APHA 6440	0.0001	No Relaxation	N.D.
9	Arsenic (as As)	mg/L	IS 3025 (part-37)	0.01	0.05	N.D.
10	Chromium (as Cr)	mg/L	IS 3025 (part-52)	0.05	No Relaxation	N.D.
11	Trihalomethanes:					
a)	Bromoform	mg/L	APHA 6232	0.1	No Relaxation	N.D.
b)	Dibromochloromethane	mg/L	APHA 6232	0.1	No Relaxation	N.D.
c)	Bromodichloromethane	mg/L	APHA 6232	0.06	No Relaxation	N.D.
d)	Chloroform	mg/L	APHA 6232	0.2	No Relaxation	N.D.
D. Radioactive Materials						
1	Alpha emitters	Bq/l	Part 2	0.1	No relaxation	N.D.
2	Beta emitters	Bq/l	Part 1	1.0	No relaxation	N.D.
E. Pesticides:-						
1	Alpha HCH	µg/l	USEPA 508	0.01		N.D.
2	Beta HCH	µg/l	USEPA 508	0.04		N.D.

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



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

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REPORT NO. 3031

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source	
3	Delta HCH	µg/l	USEPA 508	0.04		N.D.
4	Alachlor	µg/l	USEPA 525.2, 507	20		N.D.
5	Aldrin / Dieldrin	µg/l	USEPA 508	0.03		N.D.
6	Atrazine	µg/l	USEPA 525.2, 8141 A	2		N.D.
7	Butachlor	µg/l	USEPA 525.2, 8141 A	125		N.D.
8	Chlorpyrifos	µg/l	USEPA 525.2, 8141 A	30		N.D.
9	DDT (o,p and p, p- Isomers of DDT, DDE and DDD)	µg/l	USEPA 508	1		N.D.
10	Gamma HCH	µg/l	USEPA 508	2		N.D.
11	2,4-Dichlorophenoxyacetic Acid	µg/l	USEPA 515.1	30		N.D.
12	Endosulphan (alpha, beta and sulphate)	µg/l	USEPA 508	0.4		N.D.
13	Ethion	µg/l	USEPA 1657 A	3		N.D.
14	Isoproturon	µg/l	USEPA 532	9		N.D.
15	Malathion	µg/l	USEPA 8141 A	190		N.D.
16	Methyl Parathion	µg/l	USEPA 8141 A	0.3		N.D.
17	Monocrotophos	µg/l	USEPA 8141 A	1		N.D.
18	Phorate	µg/l	USEPA 8141 A	2		N.D.
F. Microbial Parameters						
1	Total Coliform	MPN/100ml	IS:1622:1981:RA:2019	Shall not be detectable in any 100 ml Sample		Absent
2	E. Coli	MPN/100ml	IS:1622:1981:RA:2019			Absent

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

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- The use of 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.

 PREPARED 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

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Name & Address Of The Customer		Report No	UES/TR/21-22/3032	
To, MSP STEEL & POWER LIMITED VILLAGE – JAMAGAON, POST – JAMAGAON, DIST-RAIGARH, 496001 (CHHATTISGARH)		Lab Ref No	UES/21-22/W/5377	
		Date of Sampling	06/10/2021	
		Date of Receipt	07/10/2021	
		Date of Report	12/10/2021	
		Date of analysis	Start:07/10/2021	END:12/10/2021
SAMPLE DETAILS				
Customer Sample Id /Sampling Location	Manuwapali Village			
Customer Ref. No. & Date	As per verbal communication			
Sample Type	Borewell Water			
Packing of Sample	Plastic Bottle (5ltr.) Glass Bottle (350 ml)			
Sample Collected By	Laboratory Chemist.			
Sample Condition At Receipt	Ok			

REPORT NO. 3032

TEST REPORT						
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source	
A. Organoleptic & Physical Parameters						
1	Colour	Hazen	IS:3025:(Part-4)	5	15	<1
2	Odour	-	IS:3025(part-5)	Agreeable	Agreeable	Agreeable
3	pH Value at 24.7°C	-	IS:3025:(Part-11)	6.5-8.5	No Relaxation	6.97
4	Taste	-	IS:3025(part-8)	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	IS:3025:(Part-10)	1	5	0.82
6	Total Dissolved Solids	mg/L	IS:3025:(Part-16)	500	2000	256.9
B. General Parameters Concerning Substances undesirable in excessive amounts						
1	Aluminium (as Al)	mg/L	IS:3025(part-55)	0.03	0.2	N.D.
2	Ammonia (as total ammonia-N)	mg/L	IS:3025(part-34)	0.5	No Relaxation	N.D.
3	Anionic Detergent (as MBAS)	mg/L	Annex K of IS:13428	0.2	1.0	N.D.
4	Barium (as Ba)	mg/L	Annex F of IS:13428	0.7	No Relaxation	N.D.
5	Boron (as B)	mg/L	IS 3025:(Part-57)	0.5	1.0	N.D.
6	Calcium (as Ca)	mg/L	IS 3025:(Part-40)	75	200	42.2
7	Chloramines (as Cl ₂)	mg/L	IS 3025:(Part-26)	4.0	No Relaxation	N.D.
8	Chloride (as Cl)	mg/L	IS 3025:(Part-32)	250	1000	29.9
9	Copper (as Cu)	mg/L	IS 3025(part-42)	0.05	1.5	N.D.
10	Fluoride (as F)	mg/L	IS 3025(part-60)	1	1.5	0.06
11	Free Residual Chlorine	mg/L	IS 3025:(Part-26)	0.2	1	N.D.
12	Iron (as Fe)	mg/L	IS 3025(part-53)	0.3	No Relaxation	0.18
13	Magnesium (as Mg)	mg/L	IS 3025:(Part-46)	30	100	10.4

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



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

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

REPORT NO. 3032

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source	
14	Manganese (as Mn)	mg/L	IS 3025(part-59)	0.1	0.3	N.D.
15	Mineral Oil	mg/L	Clause 6 of IS 3025 (Part-39) Infrared partition method	0.5	No Relaxation	N.D.
16	Nitrate (as NO ₃)	mg/L	IS 3025(part-34)	45	No Relaxation	0.64
17	Phenolic Compound (as C ₆ H ₅ OH)	mg/L	IS 3025(part-43)	0.001	0.002	N.D.
18	Selenium (as Se)	mg/L	IS 3025(part-56)	0.01	No Relaxation	N.D.
19	Silver (as Ag)	mg/L	Annex J of IS 13428	0.1	No Relaxation	N.D.
20	Sulphate (as SO ₄)	mg/L	IS 3025:(Part-24)	200	400	19.4
21	Sulphide (as H ₂ S)	mg/L	IS 3025:(Part-29)	0.05	No Relaxation	N.D.
22	Total Alkalinity (as CaCO ₃)	mg/L	IS 3025:(Part-23)	200	600	98.0
23	Total Hardness (as CaCO ₃)	mg/L	IS 3025:(Part-21)	200	600	126.0
24	Zinc (as Zn)	mg/L	IS 3025(part-49)	5	15	N.D.
C. Parameters concerning toxic substances: -						
1	Cadmium (as Cd)	mg/L	IS 3025(part-41)	0.003	No Relaxation	N.D.
2	Cyanide (as CN)	mg/L	IS 3025(part-27)	0.05	No Relaxation	N.D.
3	Lead (as Pb)	mg/L	IS 3025(part-47)	0.01	No Relaxation	N.D.
4	Mercury (as Hg)	mg/L	IS 3025(part-48)	0.001	No Relaxation	N.D.
5	Molybdenum (as Mo)	mg/L	IS 3025(part-2)	0.07	No Relaxation	N.D.
6	Nickel (as Ni)	mg/L	IS 3025(part-54)	0.02	No Relaxation	N.D.
7	Polychlorinated biphenyls	mg/L	ASTM 5175	0.0005	No Relaxation	N.D.
8	Polynuclear aromatic hydrocarbons (as PAH)	mg/L	APHA 6440	0.0001	No Relaxation	N.D.
9	Arsenic (as As)	mg/L	IS 3025(part-37)	0.01	0.05	N.D.
10	Chromium (as Cr)	mg/L	IS 3025(part-52)	0.05	No Relaxation	N.D.
11	Trihalomethanes:					
a)	Bromoform	mg/L	APHA 6232	0.1	No Relaxation	N.D.
b)	Dibromochloromethane	mg/L	APHA 6232	0.1	No Relaxation	N.D.
c)	Bromodichloromethane	mg/L	APHA 6232	0.06	No Relaxation	N.D.
d)	Chloroform	mg/L	APHA 6232	0.2	No Relaxation	N.D.
D. Radioactive Materials						
1	Alpha emitters	Bq/l	Part 2	0.1	No relaxation	N.D.
2	Beta emitters	Bq/l	Part 1	1.0	No relaxation	N.D.
E. Pesticides: -						
1	Alpha HCH	µg/l	USEPA 508	0.01		N.D.
2	Beta HCH	µg/l	USEPA 508	0.04		N.D.

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



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

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

REPORT NO. 3032

TEST REPORT						
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	AS PER IS 10500:2012		RESULT
				Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source	
3	Delta HCH	µg/l	USEPA 508	0.04		N.D.
4	Alachlor	µg/l	USEPA 525.2, 507	20		N.D.
5	Aldrin / Dieldrin	µg/l	USEPA 508	0.03		N.D.
6	Atrazine	µg/l	USEPA 525.2, 8141 A	2		N.D.
7	Butachlor	µg/l	USEPA 525.2, 8141 A	125		N.D.
8	Chlorpyrifos	µg/l	USEPA 525.2, 8141 A	30		N.D.
9	DDT (o,p and p, p- Isomers of DDT, DDE and DDD)	µg/l	USEPA 508	1		N.D.
10	Gamma HCH	µg/l	USEPA 508	2		N.D.
11	2,4-Dichlorophenoxyacetic Acid	µg/l	USEPA 515.1	30		N.D.
12	Endosulphan (alpha, beta and sulphate)	µg/l	USEPA 508	0.4		N.D.
13	Ethion	µg/l	USEPA 1657 A	3		N.D.
14	Isoproturon	µg/l	USEPA 532	9		N.D.
15	Malathion	µg/l	USEPA 8141 A	190		N.D.
16	Methyl Parathion	µg/l	USEPA 8141 A	0.3		N.D.
17	Monocrotophos	µg/l	USEPA 8141 A	1		N.D.
18	Phorate	µg/l	USEPA 8141 A	2		N.D.
F. Microbial Parameters						
1	Total Coliform	MPN/100ml	IS: 1622:1981:RA:2019	Shall not be detectable in any 100 ml Sample		Absent
2	E. Coli	MPN/100ml	IS: 1622:1981:RA:2019			Absent

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

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- > The use of 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.


 12/10/21 PREPARED BY	 For ULTIMATE ENVIROLYTICAL SOLUTIONS	 12/10/2021 AUTHORIZED SIGNATORY
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-----End of the test report-----

Solid Waste Analysis Report

Annex – VII

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 To, MSP STEEL & POWER LIMITED VILLAGE – JAMGAON, POST - JAMGAON, DIST-RAIGARH, 496001 (CHHATTISGARH)		REPORT NO. UES/TR/21-22/3732 LAB REF NO. UES/21-22/MISC/6774-6775 DATE OF SAMPLING 05/09/2021 DATE OF RECEIPT 07/09/2021 DATE OF REPORT 16/09/2021 DATE OF ANALYSIS START:08/09/2021 END:16/09/2021
SAMPLE DETAILS		
Customer Sample Id / Sampling Location 1. CPP FLY ASH 2. CPP BOTTOM ASH Sample Type Miscellaneous Sample Collected By Lab. Chemist	Customer Ref. No. & Date RD203-00037, DATED: 17/03/2021 Sample Condition At Receipt Ok Quantity Received 1 kg	

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	0.14	0.33
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	3.8	2.6
8	Zinc as Zn	mg/kg	USEPA METHOD-1311	250.0	0.24	138
9	Copper as Cu	mg/kg	USEPA METHOD-1311	25.0	12.2	22.6

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.

 16/09/21 REVIEWED BY		For ULTIMATE ENVIROLYTICAL SOLUTIONS  16/09/21 AUTHORIZED SIGNATORY
---	---	--

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

 Ultimate ENVIRONMENTAL 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	

To, MSP STEEL & POWER LIMITED VILLAGE - JAMGAON, POST - JAMGAON, DIST-RAIGARH, 496001 (CHHATTISGARH)		REPORT NO UES/TR/21-22/3732
		LAB REF NO UES/21-22/MISC/6774-6775
		DATE OF SAMPLING 05/09/2021
		DATE OF RECEIPT 07/09/2021
		DATE OF REPORT 16/09/2021
		DATE OF ANALYSIS START: 06/09/2021 END: 14/09/2021
SAMPLE DETAILS		
Customer Sample Id / Sampling Location I. CFP FLY ASH II. CFP BOTTOM ASH	Sample Type Miscellaneous	Customer Ref. No. & Date RD203-06037, DATED: 17/03/2021
Sample Collected By Zeb. Chanset		Sample Quantity at Receipt OK
		Quantity Received 1 kg

TEST REPORT						
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMIT	RESULT	
					GPP Fly Ash	GPP 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	0.14	0.33
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	3.8	2.6
8	Zinc as Zn	mg/kg	USEPA METHOD-1311	250.0	0.24	138
9	Copper as Cu	mg/kg	USEPA METHOD-1311	25.0	12.2	22.6

Note: N/A - 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 data up to(s) only.

 16/09/21 REVIEWED BY		For ULTIMATE ENVIRONMENTAL SOLUTIONS  16/09/21 AUTHORIZED SIGNATORY
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End of the Test report

Used Oil Analysis Report

Annex -VIII

Format No. : UES/FORM/03

 Ultimate ENVIRONMENTAL 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 of Analysis of the Customer To, MSP STEEL & POWER LIMITED VILLAGE - JAMGAON, POST - JAMGAON, DIST-RAIGARH, 496001 (CHHATTISGARH)		REPORT NO. UES/TR/21-22/3730
		LAB REF NO. UES/21-22/MTSC/6112
		DATE OF SAMPLING 05/09/2021
		DATE OF RECEIPT 07/09/2021
		DATE OF REPORT 16/09/2021
		DATE OF ANALYSIS START: 08/09/2021 End: 16/09/2021
SAMPLE DETAILS		
Customer Ref. No.	REF-00017, DATED: 17/01/2021	
Customer Sample To / Sampling Location	Main Store	
Sample Type	Used Oil	
Sample Collected By	Laboratory Chemist	
Packing of Sample	Plastic Bottle (Sealed)	
Quantity submitted	Approx. 255 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	6.8
3	Zinc as Zn	mg/kg	USEPA METHOD-1311	250.0	10.8
4	Lead as Pb	mg/kg	USEPA METHOD-1311	5.0	3.26
5	Cadmium as Cd	mg/kg	USEPA METHOD-1311	1.0	0.64
6	Copper as Cu	mg/kg	USEPA METHOD-1311	25.0	0.98
7	Tin as Sn	mg/kg	USEPA METHOD-1311	--	N.D.
8	Chromium as Cr	mg/kg	USEPA METHOD-1311	5.0	4.74
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/ltr.: 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.

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

End of the test report

Action plan for Fly ash management Annex -IX

o/c



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

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





BUILDING THE NATION

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
						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
	TOTAL	80000	300000	760000	1140000	172800	633600	333600	

NOTE:-

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

Environmental Monitoring Report

Annex –XII

MSP STEEL & POWER LIMITED											
Drinking Water Testing Report											Annex –XII
SL.NO	PARAMETERS	UNIT	Limit	AUGUST-21				SEPTEMBER -21			
				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	6.6	6.5	6.7	6.6	6.5	6.5	6.8	6.7
4	TSS	mg/l	**	1	1	3	2	1	1	2	1
5	TDS	mg/l	500 – 2000	110	172	446	64	114	178	444	64
6	Turbidity	NTU	1 – 5	0.2	0.1	0.3	0.1	0.3	0.1	0.4	0.2
7	conductivity	µs/cmµs/cm	**	168	262	677	97.8	172	270	672	98.1
8	T. Alkalinity	ppm	200 – 600	44	82	128	88	40	80	122	84
9	T. Hardness	ppm	300 – 600	36	72	108	76	34	76	110	72
10	Calcium	ppm	75 – 200	24	48	71	50	22	50	72	48
11	Magnesium	ppm	30 – 100	12	24	37	26	12	26	38	24
12	Chloride	ppm	250 – 1000	16	16	18	22	16	18	16	20
13	Silica	ppm	**	16	14	16	16	18	16	16	18
14	Iron	ppm	0.30 – 1.0	0.048	0.061	0.092	0.044	0.040	0.060	0.090	0.040

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

MSP STEEL & POWER LIMITED											
Drinking Water Testing Report										Annex –XII	
SL.NO	PARAMETERS	UNIT	Limit	JUNE -21				JULY -21			
				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	6.7	6.9	6.6	6.5	6.5	6.8	6.5
4	TSS	mg/l	**	1	1	2	1	2	1	3	1
5	TDS	mg/l	500 – 2000	104	172	444	65	106	168	449	66
6	Turbidity	NTU	1 – 5	0.5	0.1	0.3	0.2	0.4	0.1	0.2	0.1
7	conductivity	µs/cm	**	158	260	672	98.2	162	254	681	99.5
8	T. Alkalinity	ppm	200 – 600	44	82	118	88	46	80	124	86
9	T. Hardness	ppm	300 – 600	40	74	94	78	38	76	104	74
10	Calcium	ppm	75 – 200	26	48	62	51	25	50	68	48
11	Magnesium	ppm	30 – 100	14	26	32	27	13	26	36	26
12	Chloride	ppm	250 – 1000	18	18	20	22	18	16	18	20
13	Silica	ppm	**	16	16	16	18	14	18	14	14
14	Iron	ppm	0.30 – 1.0	0.048	0.061	0.104	0.046	0.042	0.062	0.098	0.041

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	APRIL -2021				MAY-2021			
				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	6.7	6.5	6.6	6.7	6.8	6.6
4	TSS	mg/l	**	2	1	2	1	1	1	2	1
5	TDS	mg/l	500 – 2000	101	164	436	62	104	166	76	64
6	Turbidity	NTU	1 – 5	0.3	0.2	0.3	0.2	0.4	0.1	0.2	0.1
7	conductivity	µs/cm	**	154	248	662	95.2	158	252	668	96.4
8	T. Alkalinity	ppm	200 – 600	40	72	104	80	42	78	114	84
9	T. Hardness	ppm	300 – 600	36	68	80	72	38	70	84	76
10	Calcium	ppm	75 – 200	24	44	52	48	26	46	55	50
11	Magnesium	ppm	30 – 100	12	24	28	24	12	24	29	26
12	Chloride	ppm	250 – 1000	16	16	20	18	18	16	22	20
13	Silica	ppm	**	14	16	16	16	16	18	18	18
14	Iron	ppm	0.30 – 1.0	0.049	0.066	0.102	0.046	0.047	0.064	0.101	0.044
Note:-** Limit Not mention. Drinking water Specification Tolerance Limit as per IS:10500,2012											

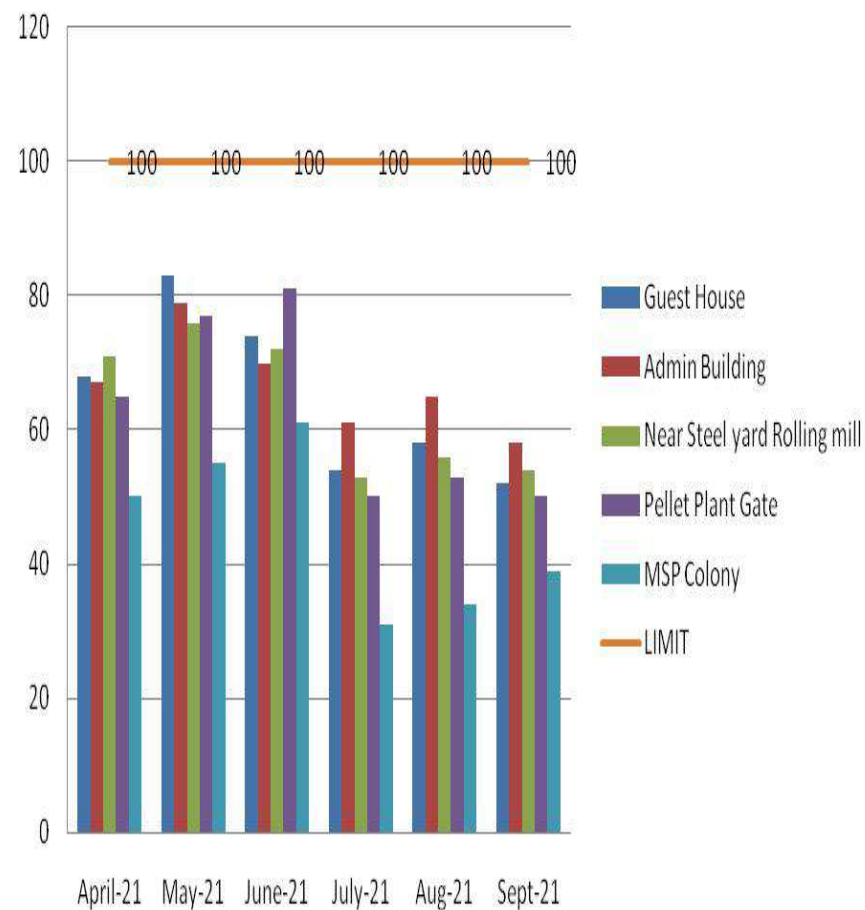
MSP Steel & Power Limited, Jamgaon,Raigarh(C.G)												
Ambient Air Noise Monitoring Report for the period of April-21 to Sept -21												
Location	April-21		May-21		June-21		July-21		Aug-21		Sept-21	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
Guest House	64.5	59.3	64.7	59.5	64.2	59.3	64.5	59.5	64.2	59.1	64.3	59.2
Admin Building	63.3	59.8	63.7	59.6	63.8	59.7	63.9	59.2	63.7	59.4	63.6	59.3
Steel Yard RMS	64.8	58.2	64.4	58.7	64.2	58.2	64.1	58.4	64.2	58.6	64.5	58.2
Gate No.3	65.3	60.4	67.6	60.5	67.8	60.4	67.3	60.8	65.2	59.8	67.2	60.2
CPP(34MW) Gate	65.3	60.4	65.5	60.3	65.3	60.3	67.3	60.8	67.4	60.1	65.3	59.4
Pellet Plant Gate	66.1	59.8	66.3	59.7	66.2	59.3	66.5	59.7	66.8	59.8	66.7	59.6
Back Side of Coal washery Road	66.2	59.3	70.4	60.5	70.3	60.4	70.5	59.8	69.2	59.3	69.4	59.4
Remarks:- 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 01.01.2021 validity 31.12.2021												

Annex -XII

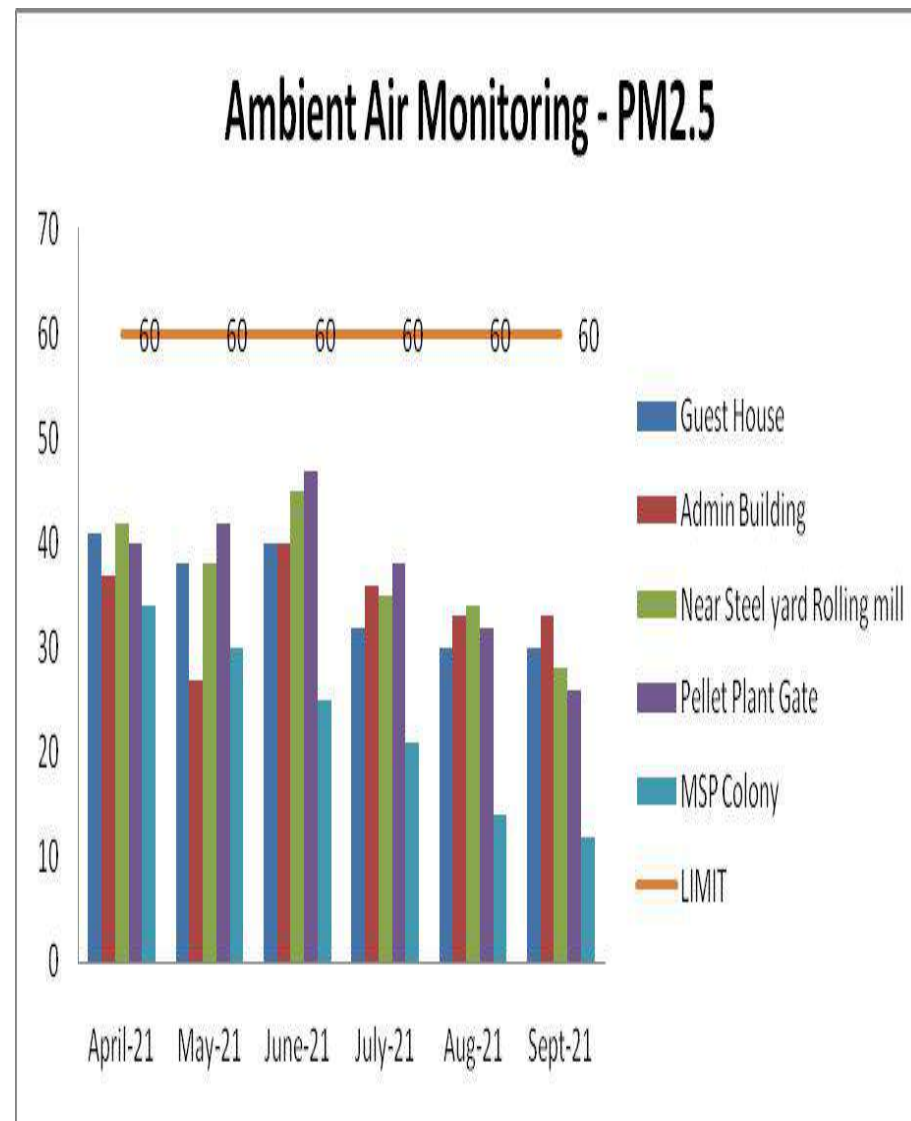
MSP Steel and Power Limited**Jamgaon, Raigarh. C.G.****Ambient air monitoring (PM10) Report for the period of APRIL -21 to SEPT -21**

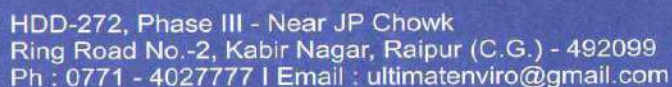
LOCATION	APRIL-21	MAY-21	JUNE-21	JULY-21	AUG-21	SEPT-21
Guest House	68	83	74	54	58	52
Admin Building	67	79	70	61	65	58
Near Steel yard Rolling mill	71	76	72	53	56	54
Pellet Plant Gate	65	77	81	50	53	50
MSP Colony	50	55	61	31	34	39

Remarks:- PM10 Limit 100 ($\mu\text{g}/\text{m}^3$) As per CPCB Standards, Make :- Envirotech, Model No:- APM550,
Calibrated by M/S UNIVERSAL SCIENTIFIC INSTRUMENT AND CALIBRATION, ALIGARH

Ambient Air Monitoring -PM10

Annex -XII						
MSP Steel and Power Limited						
Jamgaon, Raigarh. C.G.						
Ambient air monitoring (PM2.5) Report for the period of Apr -21 to Sept -21						
LOCATION	APRIL-21	MAY-21	JUNE-21	JULY-21	AUG-21	SEPT-21
Guest House	41	38	40	32	30	30
Admin Building	37	27	40	36	33	33
Near Steel yard Rolling mill	42	38	45	35	34	28
Pellet Plant Gate	40	42	47	38	32	26
MSP Colony	34	30	25	21	14	12
Remarks:- PM2.5 Limit 60 (µg/m ³) As per CPCB Standards, Make :- Envirotech, Model No:- APM550, Calibrated by M/S UNIVERSAL SCIENTIFIC INSTRUMENT AND CALIBRATION,ALIGARH						





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TEST REPORT					
Sampling Location	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO*
	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³
Near Guest House	68.6	28.4	12.6	36.4	0.89
Near Pellet Plant Training House	62.4	34.8	16.2	28.6	0.68
Near Admin Building	52.8	32.4	10.8	26.5	0.78
Near MSP Family Colony	66.4	30.2	12.4	22.2	0.96

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

REMARKS: RESULTS ARE AS ABOVE

Terms & 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 tests only.

<p><i>Thad</i> 16/09/21</p> <p>REVIEWED BY</p>		<p><i>Thad</i> 16/09/21</p> <p>AUTHORIZED SIGNATORY</p>
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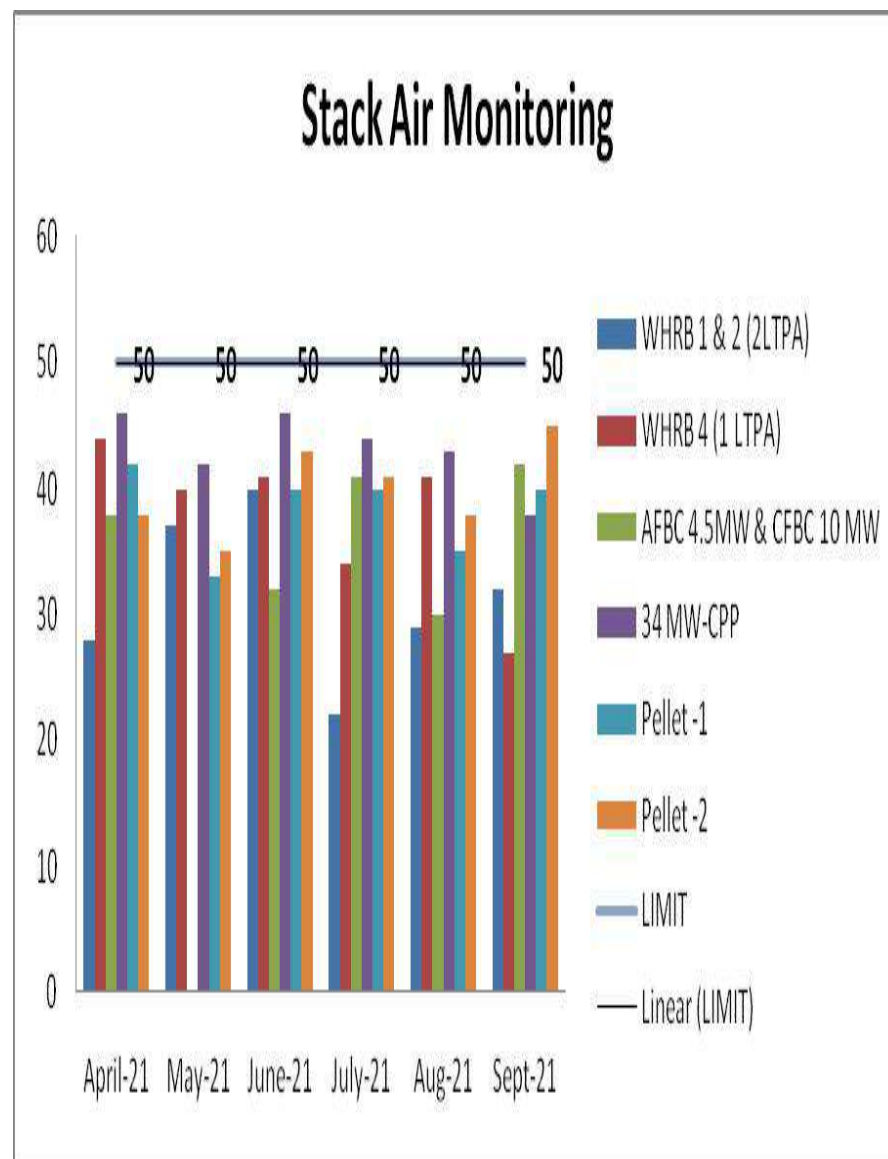
---End of the test report.....

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MSP STEEL & POWER LIMITED**Jamgaon, Raigarh. C.G.****Stack monitoring Report for the period of Apr-21 to Sept -21**

Stack Name	Stack Attached with	APRIL-21	MAY-21	JUNE-21	JULY-21	AUG-21	SEPT-21
Stack -1	WHRB 1 & 2 (2LTPA)	28	37	40	22	29	32
Stack -2	WHRB 4 (1 LTPA)	44	40	41	34	41	27
Stack -3	AFBC 4.5MW & CFBC 10 MW	38	Shut Down	32	41	30	42
Stack -4	34 MW-CPP	46	42	46	44	43	38
Stack -5	Pellet -1	42	33	40	40	35	40
Stack -6	Pellet -2	38	35	43	41	38	45

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

Name & Address Of The Customer To, MSP Steel & Power Limited Village - Jamgaon, Post - Jamgaon, Dist. - Raigarh, 496001(Chhattisgarh)		REPORT NO UES/TR/21-22/3723
		LAB REF NO UES/21-22/ST/6765
		DATE OF SAMPLING 05/09/2021
		DATE OF RECEIPT 07/09/2021
		DATE OF REPORT 16/09/2021
		DATE OF ANALYSIS START: 08/09/2021 END: 16/09/2021
SAMPLE DETAILS		
MONITORING FOR	STACK EMISSION MONITORING	CUSTOMER REF. NO. & DATE
SAMPLING LOCATION	2 LTFA STACK	RD203-00037, DATED: 17/03/2021
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	2 LTFA STACK			
STACK ATTACHED TO	WHIRL 1 & 2			
MATERIAL OF CONSTRUCTION	RCC			
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	57			
STACK DIAMETER	2.43			
STACK SHAPE AT TOP	CIRCULAR			
TYPE OF FUEL	COAL			
Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	138	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	19.4	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	Nm ³ /h	235873.6	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm ³	46.4	50	IS 11255 (Part 1):1985, RA 2003
SULPHUR DIOXIDE (SO ₂)	mg/Nm ³	258	600	IS 11255 (Part 2):1985, RA 2003
OXIDES OF NITROGEN (NO _x)	mg/Nm ³	106.0	300	IS 11255 (Part 7):2005, RA 2012
CARBON MONOXIDE (CO)	mg/Nm ³	8.2	-	IS 13270 RA 2019

REMARKS : N.D. : NOT DETECTED

Terms & conditions


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Name & Address Of The Customer To, MSP Steel & Power Limited Village - Jamgaon, Post - Jamgaon, Dist. - Raigarh, 496001(Chhattisgarh)		REPORT NO UES/TR/21-22/3724
		LAB REF NO UES/21-22/ST/6766
		DATE OF SAMPLING 05/09/2021
		DATE OF RECEIPT 07/09/2021
		DATE OF REPORT 16/09/2021
		DATE OF ANALYSIS START: 08/09/2021 END: 16/09/2021
SAMPLE DETAILS		
MONITORING FOR	STACK EMISSION MONITORING	CUSTOMER REF. NO. & DATE
SAMPLING LOCATION	1 LTFA STACK	RD203-00037, DATED: 17/03/2021
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	1 LTFA STACK			
STACK ATTACHED TO	WHIRL 4			
MATERIAL OF CONSTRUCTION	RCC			
STACK HEIGHT ABOVE GROUND LEVEL (MTR.)	64			
STACK DIAMETER	2.73			
STACK SHAPE AT TOP	CIRCULAR			
TYPE OF FUEL	COAL			
Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	122	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	18.8	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	Nm ³ /h	298727	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm ³	44.2	50	IS 11255 (Part 1):1985, RA 2003
SULPHUR DIOXIDE (SO ₂)	mg/Nm ³	326	600	IS 11255 (Part 2):1985, RA 2003
OXIDES OF NITROGEN (NO _x)	mg/Nm ³	96.4	300	IS 11255 (Part 7):2005, RA 2012
CARBON MONOXIDE (CO)	mg/Nm ³	6.2	-	IS 13270 RA 2019

REMARKS : N.D. : NOT DETECTED

Terms & conditions

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End of the test report.....

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Name & Address Of The Customer		REPORT NO	UES/TR/21-22/3725
To, MSP Steel & Power Limited Village - Jamgaon, Post - Jamgaon, Dist. - Raigarh, 496001(Chhattisgarh)		LAB REF NO	UES/21-22/ST/6767
		DATE OF SAMPLING	05/09/2021
		DATE OF RECEIPT	07/09/2021
		DATE OF REPORT	16/09/2021
		DATE OF ANALYSIS	START:08/09/2021 END:16/09/2021
SAMPLE DETAILS			
MONITORING FOR	STACK EMISSION MONITORING	CUSTOMER REF. NO. & DATE	RD203-00037, DATED: 17/03/2021
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	142.0	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	10.6	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	Nm ³ /h	127016.1	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm ³	42.8	50	IS 11255 (Part 1):1985, RA 2003
SULPHUR DIOXIDE (SO ₂)	mg/Nm ³	228	600	IS 11255 (Part 2):1985, RA 2003
OXIDES OF NITROGEN (NO _x)	mg/Nm ³	92.3	300	IS 11255 (Part 7):2005, RA 2012
CARBON MONOXIDE (CO)	mg/Nm ³	4.8	-	IS 13270 RA 2019

REMARKS : : N.D. : NOT DETECTED

Terms & conditions

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- > This is for information as the party has asked for 07 days only

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End of the test report.....

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

Name & Address Of The Customer		REPORT NO	UES/TR/21-22/3726
To, MSP Steel & Power Limited Village - Jamgaon, Post - Jamgaon, Dist. - Raigarh, 496001(Chhattisgarh)		LAB REF NO	UES/21-22/ST/6768
		DATE OF SAMPLING	05/09/2021
		DATE OF RECEIPT	07/09/2021
		DATE OF REPORT	16/09/2021
		DATE OF ANALYSIS	START:08/09/2021 END:16/09/2021
SAMPLE DETAILS			
MONITORING FOR	STACK EMISSION MONITORING	CUSTOMER REF. NO. & DATE	RD203-00037, DATED: 17/03/2021
SAMPLING LOCATION	CFP-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	CFP-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	148	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	22.6	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	Nm ³ /h	406871.5	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm ³	36.4	50	IS 11255 (Part 1):1985, RA 2003
SULPHUR DIOXIDE (SO ₂)	mg/Nm ³	248	600	IS 11255 (Part 2):1985, RA 2003
OXIDES OF NITROGEN (NO _x)	mg/Nm ³	86	300	IS 11255 (Part 7):2005, RA 2012
CARBON MONOXIDE (CO)	mg/Nm ³	4.6	-	IS 13270 RA 2019

REMARKS : : N.D. : NOT DETECTED

Terms & conditions


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End of the test report.....

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

Name & Address Of The Customer		REPORT NO	UES/TR/21-22/3727	
To, MSP Steel & Power Limited Village - Jamgaon, Post - Jamgaon, Dist. - Raigarh, 496001(Chhattisgarh)		LAB REF NO	UES/21-22/ST/6769	
		DATE OF SAMPLING	05/09/2021	
		DATE OF RECEIPT	07/09/2021	
		DATE OF REPORT	16/09/2021	
		DATE OF ANALYSIS	START:08/09/2021	END:16/09/2021
SAMPLE DETAILS				
MONITORING FOR	STACK EMISSION MONITORING	CUSTOMER REF. NO. & DATE	RD203-00037, DATED: 17/03/2021	
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	3 LTFA KILN				
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	122.0	-	IS 11255 (Part 3):2008	
FLUE GAS VELOCITY	M/s	18.4	-	IS 11255 (Part 3):2008	
TOTAL GAS QUANTITY	Nm ³ /h	425977.6	-	IS 11255 (Part 3):2008	
TOTAL PARTICULATE MATTER (TPM)	mg/Nm ³	40.8	50	IS 11255 (Part 1):1985, RA 2003	
SULPHUR DIOXIDE (SO ₂)	mg/Nm ³	246	600	IS 11255 (Part 2):1985, RA 2003	
OXIDES OF NITROGEN (NO _x)	mg/Nm ³	86	300	IS 11255 (Part 7):2005, RA 2012	
CARBON MONOXIDE (CO)	mg/Nm ³	4.0	-	IS 13270 RA 2019	

REMARKS : N.D. : NOT DETECTED

Terms & 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

 REVIEWED BY		 AUTHORIZED SIGNATORY
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End of the test report.....

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

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/21-22/3728	
To, MSP Steel & Power Limited Village - Jamgaon, Post - Jamgaon, Dist. - Raigarh, 496001(Chhattisgarh)		LAB REF NO	UES/21-22/ST/6770	
		DATE OF SAMPLING	05/09/2021	
		DATE OF RECEIPT	07/09/2021	
		DATE OF REPORT	16/09/2021	
		DATE OF ANALYSIS	START:08/09/2021	END:16/09/2021
SAMPLE DETAILS				
MONITORING FOR	STACK EMISSION MONITORING	CUSTOMER REF. NO. & DATE	RD203-00037, DATED: 17/03/2021	
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	6 LTFA KILN				
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	124	-	IS 11255 (Part 3):2008	
FLUE GAS VELOCITY	M/s	16.8	-	IS 11255 (Part 3):2008	
TOTAL GAS QUANTITY	Nm ³ /h	320737.5	-	IS 11255 (Part 3):2008	
TOTAL PARTICULATE MATTER (TPM)	mg/Nm ³	38.6	50	IS 11255 (Part 1):1985, RA 2003	
SULPHUR DIOXIDE (SO ₂)	mg/Nm ³	284	600	IS 11255 (Part 2):1985, RA 2003	
OXIDES OF NITROGEN (NO _x)	mg/Nm ³	98	300	IS 11255 (Part 7):2005, RA 2012	
CARBON MONOXIDE (CO)	%	5.4	-	IS 13270 RA 2019	

REMARKS : N.D. : NOT DETECTED

Terms & 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

 REVIEWED BY		 AUTHORIZED SIGNATORY
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End of the test report.....

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

ANNEX-XII

MSP STEEL & POWER LIMITED						
Jamgaon, Raigarh. C.G.						
Work Zone noise monitoring Report for the period of APRIL -21 to SEPT -21						
LOCATION / Division -SMS	APRIL-21	MAY-21	JUNE-21	JULY-21	AUG-21	SEPT-21
Store	76.8	76.6	75.9	75.9	76.6	76.6
CCM1	83.5	82.7	82.6	82.3	Shut Down	82.3
CCM2	81.3	82.3	82.8	82.8	84.2	83.0
18Ton furnace	84.5	84.3	84.1	83.9	82.9	83.2
18 ton mcc room	80.3	80.2	80.5	80.3	81.2	81.4
Crusher area	84.2	83.6	83.6	83.6	84.0	84.3
Workshop	79.5	79.0	78.2	77.8	77.0	77.1
Office	67.7	79.0	67.2	67.3	67.1	67.6
QC	81.4	81.3	81.4	81.1	80.5	80.6
Recommendation: Use ear plug while working at high Noise area						
Remarks:- As per CPCB Standards 85dB(A) in Work Zone Area, Calibrated by M/S Universal Scientific Equipment and services, Aligarh,						

MSP STEEL & POWER LIMITED						
Jamgaon, Raigarh. C.G.						
Work Zone noise monitoring Report for the period of APRIL -21 to SEPT -21						
LOCATION / Division - SID &RMP	APRIL-21	MAY-21	JUNE-21	JULY-21	AUG-21	SEPT-21
Compressor room (K-4)	83.4	83.9	83.8	83.4	84.2	84.2
Separation	83.4	82.4	82.2	82.0	80.2	81.3
Kiln 1	84.4	84.1	84.3	83.9	84.0	84.3
Kiln 2	84.2	84.1	84.4	84.3	84.0	84.1
Kiln 4	83.7	84.1	84.3	84.6	84.3	84.2
Product house	80.3	80.7	80.4	80.4	80.8	79.9
Transformer room	82.2	83.3	83.2	82.0	82.9	83.2
Old day bin	79.4	80.0	79.9	80.5	79.7	78.8
Iron crusher	83.0	82.7	82.4	82.5	83.7	84.1
Coal crusher	83.0	83.5	83.3	83.3	84.2	82.6
Iron screen	82.7	82.5	82.5	82.3	82.6	82.3
Tippler circuit	77.0	78.3	78.5	78.3	80.0	81.0
Coal sizer	80.6	81.0	78.4	78.4	78.1	79.1
RMP office	66.4	66.3	66.5	66.0	65.7	67.3
New Daybin	81.3	81.5	81.1	80.5	81.2	81.1
Recommendation: Use ear plug while working at high Noise area						
Remarks:- As per CPCB Standards 85dB(A) in Work Zone Area, Calibrated by M/S Universal Scientific Equipment and services, Aligarh,						

MSP STEEL & POWER LIMITED						
Jamgaon, Raigarh. C.G.						
Work Zone noise monitoring Report for the period of APRIL -21 to SEPT -21						
LOCATION / Division - CPP -1	APRIL-21	MAY-21	JUNE-21	JULY-21	AUG-21	SEPT-21
CPP steel office	66.7	66.3	65.9	66.2	67.0	67.1
Boiler-4	78.4	78.5	81.2	80.8	82.2	83.3
Ground floor	84.2	83.6	83.8	82.3	82.7	81.7
Electrical panel	76.2	77.2	76.7	75.4	76.8	77.7
Turbine 1	84.2	84.3	84.8	84.2	83.2	83.8
Turbine 2	84.1	Shut Down	84.0	Shut Down	Shut Down	84.5
Turbine 3	84.2	84.3	84.1	84.5	84.4	Shut Down
Compressor house(18mw)	84.2	84.1	84.5	84.9	84.4	84.6
Recommendation: Use ear plug while working at high Noise area						
Remarks:- As per CPCB Standards 85dB(A) in Work Zone Area, Calibrated by M/S Universal Scientific Equipment and services, Aligarh,						

MSP STEEL & POWER LIMITED						
Jamgaon, Raigarh. C.G.						
Work Zone noise monitoring Report for the period of APRIL -21 to SEPT -21						
LOCATION / Division - CPP -2	APRIL-21	MAY-21	JUNE-21	JULY-21	AUG-21	SEPT-21
Coal hopper	81.5	80.5	80.5	80.8	80.3	79.0
CHP	80.6	80.0	79.9	80.3	80.3	80.7
Boiler Area	83.2	82.3	82.3	81.7	81.5	82.3
Turbine Floor	84.1	84.2	84.6	84.4	83.2	83.4
Office	66.3	67.2	62.5	63.0	63.6	63.6
Store	68.8	65.8	66.5	66.0	66.3	68.0
Control room	71.3	70.3	66.5	66.5	66.8	67.0
Ground floor	83.3	82.6	82.7	82.8	82.5	82.1
COAL WASHERY						
Coal hopper	81.7	79.7	79.5	81.3	82.5	80.3
Screen	82.6	81.6	81.8	84.6	84.3	83.7
RMP	75.4	81.3	81.2	81.9	83.0	83.3
Crusher	83.3	84.7	84.0	83.9	83.7	84.3
Office	66.6	68.3	67.0	65.8	66.0	66.9
Coal shade	80.5	79.6	78.8	77.5	76.4	77.4
Recommendation: Use ear plug while working at high Noise area						
Remarks:- As per CPCB Standards 85dB(A) in Work Zone Area, Make :- Envirotech, Calibrated by M/S Universal Scientific Equipment and services, Aligarh,						

MSP STEEL & POWER LIMITED						
Jamgaon, Raigarh. C.G.						
Work Zone noise monitoring Report for the period of APRIL -21 to SEPT -21						
LOCATION / Division - PELLET -1	APRIL-21	MAY-21	JUNE-21	JULY-21	AUG-21	SEPT-21
Benification	81.6	82.8	83.3	83.3	83.3	81.9
Cooler	83.5	84.6	82.5	82.7	82.8	83.4
Kiln	82.5	83.5	84.3	83.7	83.8	83.1
TG	79.5	78.4	78.3	78.5	78.4	74.9
PCI	82.7	80.8	80.7	80.7	80.5	81.6
Balling Disc	77.6	78.9	77.6	77.2	76.8	73.5
PGP	82.4	81.5	81.2	82.5	82.4	83.0
Product house	81.5	83.9	84.4	84.1	83.7	84.3
Thickener	74.7	77.5	76.6	75.4	74.7	73.5
PELLET -2						
ESP	80.5	81.5	Plant Shut down	81.4	81.4	82.3
Balling Disc	81.3	82.6		80.4	80.3	80.8
TG Building	83.3	82.3		81.5	81.7	80.4
PCI	84.4	83.6		84.1	84.5	84.1
Cooler	83.7	84.5		84.1	84.4	84.4
PGP	81.8	80.6		82.4	82.6	81.3
Benification	82.6	81.7		82.8	82.9	81.9
Kiln	84.5	84.9		83.7	83.5	83.3
Store	69.4	70.3		68.2	68.4	67.7
Office	67.8	64.6		66.6	66.8	65.8
Recommendation: Use ear plug while working at high Noise area						
Remarks:- As per CPCB Standards 85dB(A) in Work Zone Area, Calibrated by M/S Universal Scientific Equipment and services, Aligarh,						

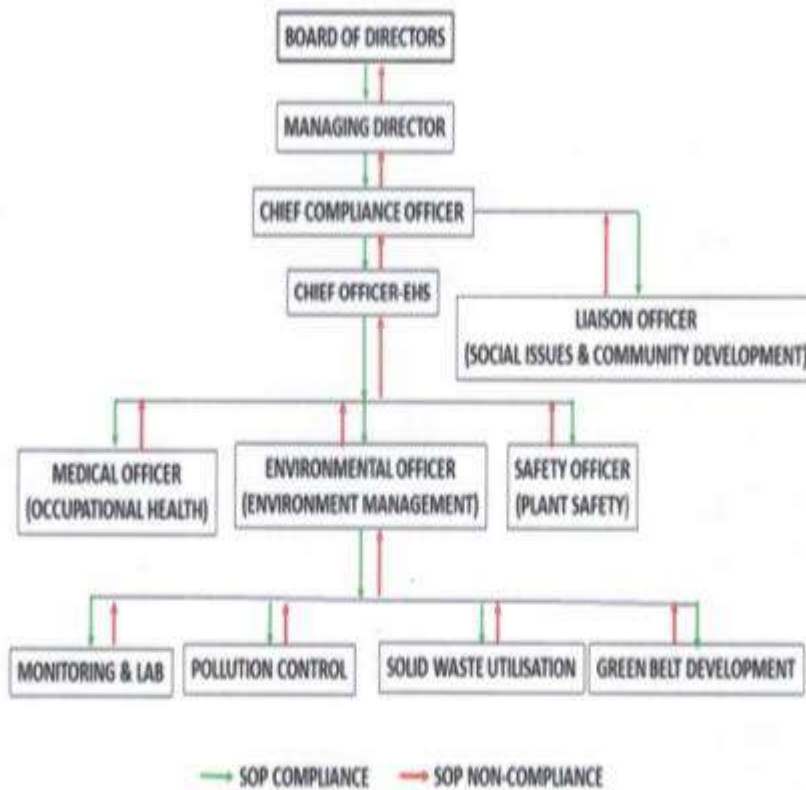
MSP STEEL & POWER LIMITED						
Jamgaon, Raigarh. C.G.						
Work Zone noise monitoring Report for the period of APRIL -21 to SEPT -21						
LOCATION / Division RMD	APRIL-21	MAY-21	JUNE-21	JULY-21	AUG-21	SEPT-21
Store	78.9	76.8	78.0	78.3	77.3	77.4
Pusher	84.4	83.7	84.2	82.0	82.8	83.3
Injector door	84.4	84.4	83.9	83.9	82.5	82.8
Roughing stand	84.4	84.5	84.2	84.4	83.4	84.7
Workshop	83.6	84.2	84.2	83.8	82.9	83.0
Electrical MCC room	78.8	78.7	78.2	78.4	77.7	78.0
QC	79.3	78.7	80.2	79.2	80.0	79.2
Cooling Bed	84.3	84.7	84.5	84.1	84.4	84.5
Office	67.1	66.9	66.9	66.3	67.0	67.4
RMS						
Pusher	84.3	83.0	83.8	83.4	83.2	83.3
Degree chair 1	84.5	83.9	84.4	84.8	84.3	84.5
Degree chair 2	84.6	84.7	84.6	83.2	83.6	83.3
Stand 4	83.3	83.4	83.3	83.3	83.2	83.8
Store	81.4	80.0	79.9	78.2	79.6	80.2
Lathe machine	84.6	84.0	84.7	83.5	84.4	83.9
Cooling Bed	83.4	83.3	84.8	83.6	83.6	83.7
Stand 7	84.7	84.5	84.7	84.8	83.2	83.4
Office	71.0	68.3	69.0	69.0	69.4	68.6
Recommendation: Use ear plug while working at high Noise area						
Remarks:- As per CPCB Standards 85dB(A) in Work Zone Area. Calibrated by M/S Universal Scientific Equipment and services, Aligarh,						

Hierarchical System

Annex –XIII

MSP STEEL & POWER LIMITED	
CORP OFF : 16/8, Block-'A', New Alipore, Kolkata.	WORKS : Jamgaon, Raigarh (CG)

Institutional Set-Up for Environmental Management



Sanjay Agrawal

MSP STEEL & POWER LIMITED	
CORP OFF : 16/S, Block-'A', New Alipore, Kolkata.	WORKS : Jamgaon, Raigarh (CG)



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 5th 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.

Dated: 05.09.2020

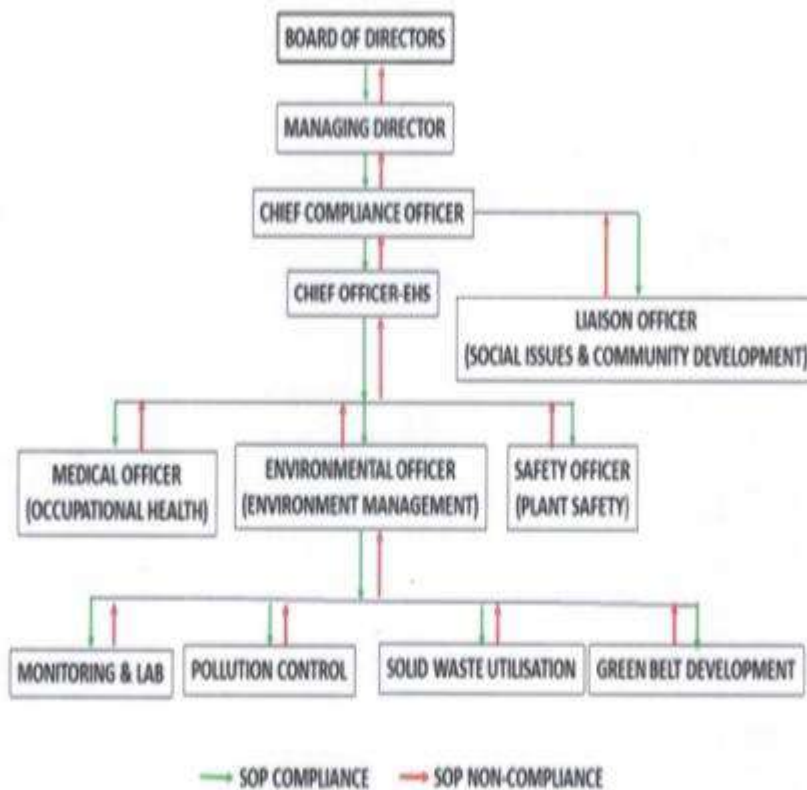
For MSP Steel & Power Limited

(Saket Agrawal)
Managing Director

MSP STEEL & POWER LIMITED	
CORP OFF : 16/S, Block-'A', New Alipore, Kolkata.	WORKS : Jamgaon, Raigarh (CG)



Institutional Set-Up for Environmental Management



Sanjay Agrawal



MSP STEEL & POWER LIMITED

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

Regd. Office : 1, Crooked Lane, Kolkata - 700 069, Phone : 033 2248 5096

CIN No. : L27109WB1968PLC027399

Date : 31.12.2019

To
The Joint Secretary,
Ministry of Environment, Forest and Climate Change,
Indira Paryavaran Bhawan,
Jor Bagh Road, New Delhi-110003
Email : secy-moef@nic.in

Sub: Reconsideration of our request for dispensing with installation of Air Cooled Condenser (ACC) in our existing CPP operating with Water Cooled Condenser (WCC), as suggested by the REAC in 12th EAC Meeting held during 21st-23rd Oct'19 while considering the Proposal No. IA/CG/IND/90078/2018 for Sponge Iron production capacity expansion by process optimization under the provision of 7(ii) of MoEF&CC Notification 2013 of M/s. MSP Steel & Power Ltd., Jamgaon, Raigarh, Chhattisgarh.

Ref ; (i) Environmental Clearance granted by MoEF&CC vide letter No.: J/11011/267/2007-IA-II(I) dated 02.04.2009.
(ii) Proceedings of the 12th meeting of the REAC held on 21 - 23rd Oct'19 with regard to our Proposal No. IA/CG/IND/90078/2018 dated 31.12.2018 .

Dear Sir,

With due honour, we beg to submit our this representation in reiteration to our earlier submission made in the 12th meeting of REAC held during 21st - 23rd Oct'19 with regard to ADS No. 5, more specifically, for dispensing with the suggestion / direction of REAC for installing Air Cooled Condenser (ACC) in replacement of existing Water Cooled Condenser (WCC), which has been operating in our CPP since 2005-06, without considering the justification & merits pertaining to our site condition, factual position and other influencing/ dependent factors.

Though our proposal for Sponge Iron capacity expansion, vide proposal no. IA/CG/IND/90078/2018 dated 31.12.2018, was approved by the REAC, under the provision of 7(ii) of MoEF & CC Notification by process optimization in its 12th meeting, the amended Environment Clearance is yet to be issued by the MoEF & CC.

JUSTIFICATION & MERITS FOR CONSIDERATION :

For better understanding of the factual position justifying continuity of operation of existing Water Cooled Condenser (WCC) over the Air Cooled Condenser (ACC) submitted with regard to ADS No. 5 for consideration of REAC, MoEF&CC are reproduced below :

- i) *The area in Raigarh (CG) where our unit is situated, is under safe zone so far the underground water source is concerned.*

Page 1 of 2

MSP STEEL & POWER LIMITED

Continuation Sheet

- ii) Under phase I, the unit has been drawing only 2 MCM water from nearby Kur Nala, a potential and perennial source of surface water, out of 15 MCM water sanctioned by the State Govt. Copy of letter dt. 11.11.2009 is enclosed.
- iii) Air Cooled Condenser will emit hot air to the atmosphere constantly which would definitely have adverse impact in the surrounding area and in the adjoining forest area / green vegetation.
- iv) The area in Raigarh (CG) where our unit is situated, is under safe zone so far the underground water source is concerned.
- v) Whereas steam will be precipitated from WCC will form a part of natural water cycle and thereby hydrological balance will take place.
- vi) The underground water source of the region gets recharged due to nearness of our plant to back-water / catchment area of Hirakud dam and 3 other rivers namely Sapnai, Kelo and Mand within 20 / 25 kms radius.
- vii) Apart from major technical modification, suitable space is not available within the existing premises for installation of bulk size ACC in alignment with the boiler of existing CPP, besides, the investment required for setting up of huge ACC by replacing the WCC and the cost of additional quantum of land would be too high to establish a positive cost benefit analysis.

It is also relevant to mention that our proposal for Sponge Iron capacity expansion through process optimization is in no manner or form impacting the operation of CPP. Rather our instant proposal has been considered favourably by the under the provision of 7(ii) on the ground of reduction in pollution load by use of same plant & machinery.

In view of the facts explained above, MoEF & CC authorities would appreciate the scientific basis and justification of factual position in support of existing WCC over ACC may kindly be made conditional if the plant location comes under water scarcity zone. Therefore the amended EC may kindly be granted making the installation of Air Cooled Condenser conditional as submitted above and oblige.

Thanking you for doing the needful for grant of amended EC at the earliest.

Yours faithfully,

For MSP Steel & Power Ltd.



P K Dey
Chief Corporate Officer.

cc. to : The Director - Industry 1 (IA Division)

MoEF & CC, Indira Paryavaran Bhawan,
Jor Bagh Road, New Delhi-110003.
Email ; dirind-moefcc@gov.in