



MSP STEEL & POWER LIMITED

(An ISO 9001 : 2015, 14001 : 2015 & ISO 45001 : 2018 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

O/c

29th May 2020

To,

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

Sub. - Submission of compliance of conditions of Environmental Clearance (EC) for the period October 2019 – March 2020.

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

Dear Sir,

With reference to above, we are submitting herewith compliance of conditions (alongwith proper annexures) mentioned in Environmental Clearances granted to us by MOEF vide above referred numbers for the period **October 2019 – March 2020**.

This is for your kind information please.

Thanking You

Yours Faithfully

For MSP Steel and Power Ltd.

Prashant Pandey
Sr. Gen. Manager (Corporate co-ordination)

Encl. As above



Copy to- 1. Additional Principal Chief Conservator of Forests, Ministry of Environment, Forest and Climate Change, Regional Office (WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Lines, Nagpur-440001.

2. The Member Secretary, CECB, Sector 19, Paryawas Bhawan, Atal Nagar, Raipur (C.G.)

3. Regional Officer, CECB, Raigarh (C.G.)

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

UNITED
INDIA
INSURANCE
COMPANY
URS
ISO 9001
ISO 14001
ISO 45001

UNITED
INDIA
INSURANCE
COMPANY
URS
ISO 9001
ISO 14001
ISO 45001

UNITED
INDIA
INSURANCE
COMPANY
URS
ISO 9001
ISO 14001
ISO 45001

UKAS
MANAGEMENT
SYSTEMS
043

BUILDING THE NATION

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 OCTOBER 2019- MAR. 2020

A. SPECIFIC CONDITIONS

SN	SPECIFIC CONDITIONS	COMPLIANCE STATUS				
		Status of Installation Unit wise (Annex-I)				
Capacity	ESP	BAG FILTER	VENT FILTER	DRY FOG		
3.0 LTPA (Sponge Iron)	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			
IF-Billets (305512 TPA)	-	01 no. Bag house				
9.0 LTPA(Pellet)	03 nos. ESP (3 Field),	01 no. Bag house,				
Rolling Mill (4.80 LTPA)	Online rolling no reheating furnace					
<p>- Online stack emission monitoring system in all stacks has been installed and connected with the server of SPCB/ CPCB. The website, URL, username and password for the same is as under-</p> <p>For CPCB http://envirofront.m2mlogger.com Username- sanjay.parihar@msprgh.mspsteel.com Password- Primaeq@0133 URL- www.cpcb.swanenviron.com. Username- MSP_Steel Password- MSP_Steel@456</p> <p>For CECB URL- www.cecbswanenviron.com. Username- MSPSteel Password- MSPSteel@321</p> <p>- Online AAQMS is installed to monitor ambient air quality. - Continuous data transmission has been provided on both servers. - Up gradation in Existing CEMS under process due to frequent problem in present Monitoring system.</p>						

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 be used for power generation. Venturi scrubbers shall be provided to Rolling Mill.

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.

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.

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.

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,

Complied

- ESP capacity is adequate to maintain emission within permissible level.
- Blast Furnace condition noted & shall follow on establishment of project.
- On line rolling process is adopted and unit is not using re-heating furnace in the Rolling Mills.

Complied

- All kilns is equipped with DSC & ABC to burn CO and used in WHRB.
- Gas is cleaned in ESP before leaving out into the atmosphere through ID fan and stack.
 - Emission control system is installed as mentioned in clause (I)
 - Condition for BF will be followed while establish the plant.
 - Noted the conditions.
 - Norms will be followed while establish the BF project & Sinter plant project.

Complied

Control of vehicular pollution

- **Raw material:** Transported in covered vehicle and water spraying system at unloading point of ground hopper.
- **Finish Product:** Covered vehicle and stored in silo.
- Fly ash transfer to silo through pneumatic conveying system, moisturize during loading and transported in enclosed condition.

Complied

- Proper control & monitoring devices are installed as shown in **Annex. I**

	<p>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,</p>	<ul style="list-style-type: none"> - Fugitive emission monitored and all records maintained. - Additional water spraying system (Road side) installed where it is required.
vii	<p>Total water requirement from Sapnai River / Kurnala for the expansion shall not exceed to 6701.2 m³/day as per the permission accorded by the Water Resource Department. Govt. of Chhattisgarh. No ground water shall be used in BF-GCP and coal washery water shall be treated in the thickener and properly used, Acidic and Alkaline effluent from DM water plant shall be neutralized and reused in the plant. All the other waste water shall be treated In effluent treatment Plant (ETP) and used for ash conditioning, dust suppression and green belt development. No waste water shall be discharged outside the premises and 'Zero' effluent discharge 'shall be ensured, Domestic effluent will be treated in Septic Tank followed by soak pit.</p>	<ul style="list-style-type: none"> - Complied. - Water consumption does not exceed the quantity approved in EC - Water Cess discontinued by Board due to introduction of GST. - 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. Attached as Annex-II - 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	<p>Prior permission for the drawl of 6,701.2 m³/day water from Sapnai River I Kurnala from the concerned department shall be obtained.</p>	<ul style="list-style-type: none"> - Complied. - 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 - Copy of above approval in this regard is attached herewith as Annex - III.

ix The water consumption for the proposed steel plant shall not exceed 16 m³/Ton of steel as per 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.

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. All 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'.

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.

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

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.

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- **Complied**
- Water consumption is under prescribed standard.
- **Complied**
- Ground water quality is monitored at surrounding area of plant and nearby villages on six monthly, last monitoring report is attached herewith as **Annex. IV**
- Ground water quality is not adversely affected by our unit.
- **Complied**
- 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 authorized recyclers.
- **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 slag Nil.
- Blast furnace is yet to be installed.
- Used oil sold to authorized recyclers with due clearance / Authorization from CECB.
- Used oil analyzed for toxic metal composition before its disposal to authorized recycler. Test report attached as **Annex-V**
- **Complied**
- The unit has submitted in the office of CPCB, Raipur and Raigarh

		a time bound action plan for utilization of solid waste.
xv	Proper handling storage utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic metal content in the waste material and its composition, end use solid/hazardous waste shall be submitted to the Ministry's Regional Office at Bhopal, SPCB and CPCB	<p>Complied</p> <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 authorized recyclers. - 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 Annex-VI
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.	<p>Complied</p> <ul style="list-style-type: none"> - 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.	<p>Complied</p> <ul style="list-style-type: none"> - 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.
xvii i	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Sector shall be implemented.	<p>Complied</p> <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	<p>Complied</p> <ul style="list-style-type: none"> - 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.
- iii The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th May. 1993 and standards prescribed from time to time. The State Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time the emission level shall go beyond the prescribed standards.
- 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, SO₂ and NO_x are anticipated in consultation with the CECB. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Bhopal and the CECB/CPCB once in Six months
- v Industrial waste water shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May. 1993 and 31st December, 1993 or as amended from time to time. The treated waste water shall be utilized for plantation purpose
- 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)
- vii Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act

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- Noted and shall follow the same.

- Complied

- Gaseous emission from stack ie Sox and NO_x is monitored through CEMS and data uploaded to the server of SPCB/CPCB.
- Measures taken for effective control of pollution by proper maintenance of pollution control devices.

- Complied

- AAQMS and CEMS are installed and data uploaded on line as per guideline.

- Complied

- Industrial waste such as boiler blow down water and used in dust conditioner and sprinklers.
- RO reject water neutralized and used in road spraying.
- Waste water treated in ETP and used for dust conditioner and plantation.

- Complied

- Regular monitoring of vibration carried out to control Noise.
- Acoustic hoods, silencers are provided with DG sets
- Environmental cell monitoring noise both work zone & Ambient air twice in a month and no abnormality has been observed.

- Complied

- Industry has Occupational Health centre in the premises where health checkup done periodically and record maintained.

- Health checkup report submitted with the office of Industrial Health & Safety, Raigarh.

viii	<p>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>	<ul style="list-style-type: none"> - Complied - The unit has adopted rain water harvesting techniques with provision for collection of roof water & runoff water for recharge of ground water level.
ix	<p>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>	<ul style="list-style-type: none"> - Complied Community development carried out under District administration. - Health care camps. - Education. By providing teacher. - Ambulance service for villagers. - Drinking water.
x	<p>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>	<ul style="list-style-type: none"> - Complied - Proper pollution control devices as shown in the Annex. I are installed and maintained by our in house Environment management cell.
xi	<p>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>	<ul style="list-style-type: none"> - Complied - The Regional Officer CECB, time to time visits the plant and monitors the Environmental emissions. - Last Six month monitoring data for Stack Air, Ambient air, fugitive emission, Noise monitoring (Ambient & work zone) and drinking water attached herewith Annex. VII
xii	<p>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</p>	<ul style="list-style-type: none"> - Complied - 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.



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	and a copy of the same should be forwarded 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
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 OCTOBER 2019-MAR. 2020

SN	Conditions	Compliance Status
i	The company shall comply with all the conditions stipulated vide Ministry's letter no, J-11011/267/2007- IA-I! (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 additional land shall be acquired	Noted and shall follow the same.
v	Efforts shall be made to use maximum water from the rain water harvesting sources, if needed capacity of the reservoir should be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.	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 and used in dust conditioner and sprinklers. - RO reject water neutralize and used in road spraying. - Waste water treated in ETP and use for dust conditioner and plantation.
vii	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad I Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions & 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	Complied.

	<p>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.</p> <p>The criteria pollutant levels namely: RSPM, SO₂, 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.</p>	<ul style="list-style-type: none"> - PM10, PM2.5 SO₂, NO_x in ambient air & PM, SO₂ & NO_x at Stack monitored & displayed at Main gate month wise. - AAQMS and CEMS installed and online data uploaded as per guide line.
ix	<p>The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both In hard copies as well as by e-mail) to the respective Regional Office of MOEF, the respective Zonal Office of CPCB and the CWCB. The Regional Office of this Ministry at Bhopal/CPCB/CECB shall monitor the stipulated conditions.</p>	<ul style="list-style-type: none"> - Complied <p>-We have noted point and complied accordingly.</p>
x	<p>The environmental statement for each financial year ending 31st March in Form-V as mandated to be submitted by the project proponent to the concerned state Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently. shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail</p>	<ul style="list-style-type: none"> - Complied <p>-The Environmental Statement is being submitted annually on regular basis. The copy of the same is also submitted to the office of Regional Officer, CPCB, Raigarh (C.G.)</p>
xi	<p>In case of change in the scope of the project, the unit shall obtain fresh environmental clearance</p>	<ul style="list-style-type: none"> -We shall surely obtain a fresh environmental clearance if there is any change in the scope of the project.

Effluent Water Analysis Report

Annex -II

 Ultimate ENVIROLYTICAL SOLUTIONS		<i>Format No.: UES/FORM/09</i> HDD-272, PHASE III- NEAR JP CHOWK, RING ROAD NO -2, KABIR NAGAR, RAIPUR, C.G. -492099 PH - 0771 - 40277777 / email - ultimatenviro@gmail.com						
Name & Address Of The Customer TO, MSP STEEL & POWER LIMITED VILLAGE - JAMGAON, POST - JAMGAON, DIST-RAIGARH, 496001 (CHHATTISGARH)		REPORT NO UES/TR/19-20/09453 UES/19-20/W/9410-9412 LAB REF NO DATE OF SAMPLING 23/09/2019 DATE OF RECEIPT 25/09/2019 DATE OF REPORT 30/09/2019 DATE OF ANALYSIS START: 25/09/2019 END: 30/09/2019						
SAMPLE DETAILS								
Customer Ref. No. RD199-000007 , DATED: 07/09/2019	Sample Type EFFLUENT WATER 1. CPP-1 2. CPP-2 3. STP Water							
Customer Sample ID Plastic Bottle (Sealed)	Packing Of Sample Laboratory Chemist							
Sample Collected By Approx. 5 Ltr. each								
TEST REPORT								
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMITS AS PER CONSENT	RESULT	CPP-1	CPP-2	STP Water
1	pH Value at 25. 4°C	—	IS:3025: (Part-11)	5.5 To 9.0	7.24	7.54	7.98	
2	Total Suspended Solid	mg/L	IS:3025: (Part-17)	100	27.0	21.6	24.8	
3	Total Dissolved Solids	mg/L	IS:3025: (Part-16)	—	452.4	163.7	254.5	
4	Chemical Oxygen Demand	mg/L	IS:3025: (Part-58)	250	80.0	40.0	38.0	
5	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025: (Part-44)	30	18.2	9.8	9.6	
6	Oil & Grease	mg/L	IS:3025: (Part 39)	10	N.D.	N.D.	N.D.	
7	Total Coliform	MPN/ 100m l	IS:1622:1981: RA:2014	—	Absent	Absent	4.0	
<small>Note: mg/lit.: milligram per liter, N.D.: Not Detected.</small>								
REMARKS: RESULTS ARE AS ABOVE								
Terms & conditions		<ul style="list-style-type: none"> ➤ 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 						
 PREPARED BY				<i>For ULTIMATE ENVIROLYTICAL SOLUTIONS</i>				
AUTHORIZED SIGNATORY								
<i>End of the test report.....</i>								

Water Draw Approval
Annex -III

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 कार्यालय,
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 केटिव पॉवर प्लाट 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 केटिव पॉवर प्लाट हेतु कुर नाला में विभाग द्वारा निर्भित बहेशपाली एनीकट से आबटित 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 आबटित 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 वाध्यता होगी। प्रकरण में जल प्रदाय की शोध शर्तें शासन के मूल स्वीकृति पत्र क्रमांक-6727-6728 / 273 / जसं/ तशा/ औजप्र/ 05/ डी-4, दिनांक 11.11.2009 के अनुसार यथावत रहेंगी।

सहपत्र:— शून्य।

संकेत
(याकूब खेसा)
उप सचिव
जल संसाधन विभाग,
मंत्रालय, रायपुर

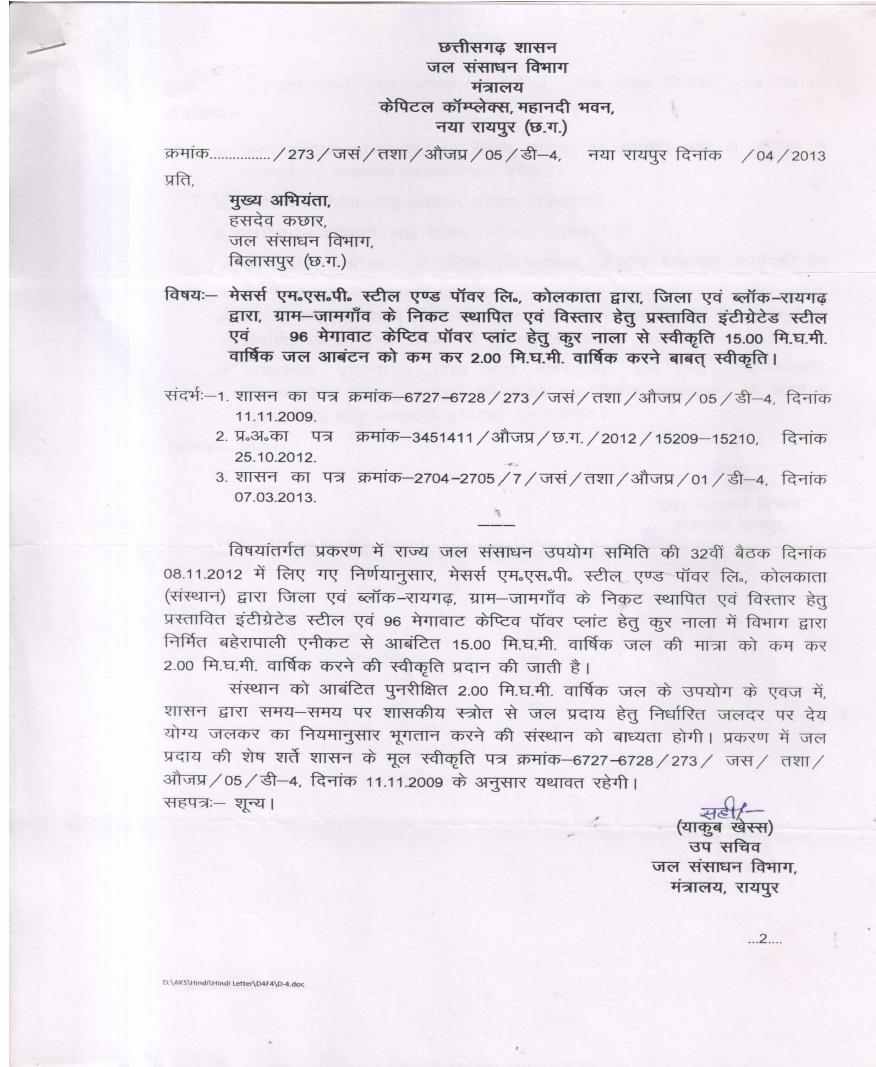
...2...

पृ.क्र. /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 अंग्रेजित।
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 अंग्रेजित।
4. संयुक्त संचालक, राज्य निवेश प्रोत्साहन बोर्ड, रेणुका द्वारा, शास्त्री चौक, रायपुर को संदर्भित पत्र क्र.-1 के परिप्रेक्ष्य में सूचनार्थ अंग्रेजित।
✓ 5. महाप्रबंधक, एम.एस.पी. स्टील एण्ड पॉवर लि., ग्राम तथा पोर्ट-जामगाँव, जिला-रायगढ़ (छ.ग.)-496001 को उनके पत्र दिनांक 10.08.2012 के संदर्भ में सूचनार्थ एवं शीघ्र आवश्यक कार्यवाही हेतु अंग्रेजित।

सहपत्र:— शून्य।

जे
उप सचिव
जल संसाधन विभाग
मंत्रालय, रायपुर



Ground Water Analysis

Annex -IV

MSP STEEL & POWER LIMITED							
Jamgaon, Raigarh. C.G.							
Ground Water Testing Report for the Month of DECEMBER -19 & MARCH -20							
SL.NO	PARAMETERS	UNIT	Limit	DECEMBER -19	MARCH -20	DECEMBER -19	MARCH -20
JAMGA	MANUAPALI	JAMGA	MANUAPALI	JAMGA	MANUAPALI	JAMGA	MANUAPALI
1	Appearance	-	Clear	Clear	Clear	Clear	Clear
2	Odour	-	**	odorless	odorless	odorless	odorless
3	pH	--	6.5 – 8.5	7	6.7	7.1	7.1
4	TSS	mg/l	**	1	2	2	1
5	TDS	mg/l	500 – 2000	59	221	60	224
6	Turbidity	NTU	1 – 5	1	0.8	1.2	0.8
7	conductivity	µs/cm	**	89	335	91	340
8	T. Alkalinity	ppm	200 – 600	26	55	23	54
9	T. Hardness	ppm	300 – 600	37	74	36	64
10	Calcium	ppm	75 – 200	24	48	24	42
11	Magnesium	ppm	30 – 100	13	26	12	22
12	Chloride	ppm	250 – 1000	11	40	12	40
13	Silica	ppm	**	20	21	18	18
14	Iron	ppm	0.30 – 1.0	0.034	0.421	0.036	0.415

Note:-** Limit Not mention. Drinking water Specification Tolerance Limit as per IS:10500,2009.

Used Oil Analysis Report

Annex - V

		<i>Format No.: UES/FORM/09</i>		
HDD-272, PHASE III- NEAR JP CHOWK, RING ROAD NO -2, KABIR NAGAR, RAIPUR, C.G. -492099 PH - 0771- 4027777 / email - ultimatenviro@gmail.com				
Name & Address Of The Customer		REPORT NO UES/TR/19-20/09455 LAB REF NO UES/19-20/MISC/9408 DATE OF SAMPLING 23/09/2019 DATE OF RECEIPT 25/09/2019 DATE OF REPORT 30/09/2019 DATE OF ANALYSIS START: 25/09/2019 END: 30/09/2019		
To, MSP STEEL & POWER LIMITED VILLAGE - JAMGAON , POST - JAMGAON, DIST-RAIGARH, 496001 (CHHATTISGARH)		SAMPLE DETAILS		
Customer Ref. No. RD199-000007 , DATED: 07/09/2019 Customer Sample Id / Sampling Location Main Store Sample Type Used Oil Sample Collected By Laboratory Chemist Packing Of Sample Plastic Bottle (Sealed) Quantity received Approx. 1 LTR.				
TEST REPORT				
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	RESULT
1	Iron as Fe	mg/kg	USEPA METHOD-1311	N.D.
2	Manganese as Mn	mg/kg	USEPA METHOD-1311	140.26
3	Zinc as Zn	mg/kg	USEPA METHOD-1311	20.07
4	Lead as Pb	mg/kg	USEPA METHOD-1311	5.22
5	Cadmium as Cd	mg/kg	USEPA METHOD-1311	1.61
6	Copper as Cu	mg/kg	USEPA METHOD-1311	1.63
7	Tin as Sn	mg/kg	USEPA METHOD-1311	N.D.
8	Chromium as Cr	mg/kg	USEPA METHOD-1311	11.83
9	Arsenic as As	mg/kg	USEPA METHOD-1311	N.D.
10	Mercury as Hg	mg/kg	USEPA METHOD-1311	N.D.
11	Barium as Ba	mg/kg	USEPA METHOD-1311	N.D.
12	Aluminium as Al	mg/kg	USEPA METHOD-1311	N.D.
Note: mg/lit: milligram per liter, N.D.: Not Detected.				
REMARKS: RESULTS ARE AS ABOVE				
Terms & conditions > The report for publication, arbitration or as legal dispute is forbidden. > Test sample will be retained for 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				
 PREPARED BY	 ULTIMATE ENVIROLYTICAL SOLUTIONS	For ULTIMATE ENVIROLYTICAL SOLUTIONS  AUTHORIZED SIGNATORY		
<i>End of the test report.....</i>				

Solid Waste Analysis Report

Annex - V

 Ultimate ENVIROLYTICAL SOLUTIONS		<i>Format No.: UES/FORM/09</i> HDD-272, PHASE III- NEAR JP CHOWK, RING ROAD NO -2, KABIR NAGAR, RAIPUR, C.G. -492099 PH - 0771- 4027777 / email - ultimatenviro@gmail.com						
To, MSP STEEL & POWER LIMITED VILLAGE - JAMGAON, POST - JAMGAON, DIST-RAIGARH, 496001 (CHHATTISGARH)		REPORT NO. UES/TR/19-20/09458 LAB REF NO. UES/19-20/MISC/9402,9405,9406,9422 DATE OF SAMPLING 23/09/2019 DATE OF RECEIPT 25/09/2019 DATE OF REPORT 30/09/2019 DATE OF ANALYSIS START:25/09/2019 END: 30/09/2019						
Customer Sample Id / Sampling Location 1. SMS Bag Filter 2. SMS Slag Crusher 3. CPP Bottom Ash 4. CPP Fly Ash		CUSTOMER REF. NO. & DATE RD199-000007, DATED: 07/09/2019						
Sample Type Miscellaneous Sample Collected By Lab. Chemist		Sample Condition At Receipt Ok Quantity Received 1 kg each						
TEST REPORT								
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMIT	RESULT			
					SMS Bag Filter	SMS Slag Crusher	CPP Bottom Ash	CPP Fly Ash
1	Arsenic as As	mg/kg	USEPA METHOD-1311	50	N.D.	N.D.	N.D.	N.D.
2	Cadmium as Cd	mg/kg	USEPA METHOD-1311	50	32.5	40.2	39.6	26.4
3	Lead as Pb	mg/kg	USEPA METHOD-1311	5000	168.4	220.0	136.2	120.0
4	Cobalt as Co	mg/kg	USEPA METHOD-1311	80000	N.D.	N.D.	N.D.	N.D.
5	Mercury as Hg	mg/kg	USEPA METHOD-1311	50	N.D.	N.D.	N.D.	N.D.
6	Nickel as Ni	mg/kg	USEPA METHOD-1311	20000	N.D.	N.D.	N.D.	N.D.
7	Chromium as Cr	mg/kg	USEPA METHOD-1311	5000	145.2	103.0	104.6	92.0
8	Zinc as Zn	mg/kg	USEPA METHOD-1311	20000	64.2	78.2	70.2	64.0
9	Copper as Cu	mg/kg	USEPA METHOD-1311	5000	29.5	38.5	29.6	21.7
<small>Note: N.D. - Not Detected</small>								
REMARKS: RESULTS ARE AS ABOVE								
Terms & conditions <ul style="list-style-type: none"> ➢ 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 								
 PREPARED BY				<i>For ULTIMATE ENVIROLYTICAL SOLUTIONS</i> AUTHORIZED SIGNATORY				
<i>.....End of the test report.....</i>								

											ANNEX -VII
MSP STEEL & POWER LIMITED											
SL.NO	PARAMETERS	UNIT	Limit	Drinking Water Testing Report				MAY -19			
				APRIL -19				MAY -19			
SL.NO	PARAMETERS	UNIT	Limit	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	6.6	6.5	6.5	6.8	6.5
4	TSS	mg/l	**	1	2	4	2	2	1	3	1
5	TDS	mg/l	500 – 2000	59	118	356	60	60	120	360	60
6	Turbidity	NTU	1 – 5	0.4	0.2	0.8	0.2	0.5	0.3	0.6	0.2
7	conductivity	µs/cm	**	90.4	180	540	92.3	92.3	184	544	92.8
8	T. Alkalinity	ppm	200 – 600	40	38	76	74	42	38	80	78
9	T. Hardness	ppm	300 – 600	38	32	70	60	34	32	72	62
10	Calcium	ppm	75 – 200	26	20	46	40	22	20	48	40
11	Magnesium	ppm	30 – 100	12	12	24	20	12	12	24	22
12	Chloride	ppm	250 – 1000	14	16	18	20	12	14	16	20
13	Silica	ppm	**	16	18	12	18	18	16	18	16
14	Iron	ppm	0.30 – 1.0	0.080	0.040	0.160	0.030	0.082	0.038	0.040	0.035

Note:-** Limit Not mention. Drinking water Specification Tolerance Limit as per IS:10500,2009.

ANNEX -VII

MSP STEEL & POWER LIMITED

Drinking Water Testing Report

SL.NO	PARAMETERS	UNIT	Limit	JUNE -19				JULY -19			
				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	6.7	6.6	6.7	6.6	6.5	6.9	6.7	6.6
4	TSS	mg/l	**	3	2	2	1	4	2	2	1
5	TDS	mg/l	500 – 2000	60	125	370	64	40	92	402	64
6	Turbidity	NTU	1 – 5	0.7	0.4	0.7	0.4	0.6	0.3	1.2	0.3
7	conductivity	µs/cm	**	92.4	190	562	98.2	60.3	140	610	98.2
8	T. Alkalinity	ppm	200 – 600	36	32	84	72	30	70	122	84
9	T. Hardness	ppm	300 – 600	38	28	74	60	28	48	98	76
10	Calcium	ppm	75 – 200	26	18	48	38	18	32	64	50
11	Magnesium	ppm	30 – 100	12	10	26	22	10	16	34	26
12	Chloride	ppm	250 – 1000	14	12	22	24	16	14	26	22
13	Silica	ppm	**	16	16	16	22	18	16	20	18
14	Iron	ppm	0.30 – 1.0	0.090	0.040	0.048	0.042	0.082	0.038	0.140	0.034

Note:-** Limit Not mention. Drinking water Specification Tolerance Limit as per IS:10500,2009.

ANNEX -VII										
MSP STEEL & POWER LIMITED										
Drinking Water Testing Report										
SL.NO	PARAMETERS	UNIT	Limit	AUGUST -19				SEPTEMBER -19		
				Guest House	ADMIN BUILDING	PELLET PLANT CANTEEN	MSP COLONY	Guest House	ADMIN BUILDING	PELLET PLANT CANTEEN
1	Appearance	-	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
2	Odour	-	**	O dour less	O dour less	O dour less	O dour less	O dour less	O dour less	O dour less
3	pH	--	6.5 – 8.5	6.5	6.9	6.8	6.7	6.6	6.7	6.8
4	TSS	mg/l	**	2	1	4	2	4	1	4
5	TDS	mg/l	500 – 2000	42	86	404	60	44	112	406
6	Turbidity	NTU	1 – 5	0.5	0.3	0.9	0.3	0.6	0.2	0.8
7	conductivity	µs/cm	**	64.3	130	614	90.3	66.4	170	618
8	T. Alkalinity	ppm	200 – 600	24	78	110	92	26	80	112
9	T. Hardness	ppm	300 – 600	22	58	102	86	24	60	104
10	Calcium	ppm	75 – 200	14	38	68	56	16	40	68
11	Magnesium	ppm	30 – 100	8	20	34	30	8	20	36
12	Chloride	ppm	250 – 1000	18	16	24	20	16	22	26
13	Silica	ppm	**	16	14	20	16	14	16	22
14	Iron	ppm	0.30 – 1.0	0.088	0.032	0.110	0.034	0.080	0.048	0.118
Note:-** Limit Not mention. Drinking water Specification Tolerance Limit as per IS:10500,2009.										

												Annex -VII
MSP STEEL & POWER LIMITED												
Jamgaon, Raigarh. C.G.												
Ambient air Noise Monitoring Report for the period of Oct - 19 to Apr-20												
LOCATION	Oct-19		Nov-19		Dec-19		Jan-20		Feb-20		Mar-20	
	Day Time Norms- Max. 75 dB(A)	Night time Norms- Max. 70 dB(A)	Day Time Norms- Max. 75 dB(A)	Night time Norms- Max. 70 dB(A)	Day Time Norms- Max. 75 dB(A)	Night time Norms- Max. 70 dB(A)	Day Time Norms- Max. 75 dB(A)	Night time Norms- Max. 70 dB(A)	Day Time Norms- Max. 75 dB(A)	Night time Norms- Max. 70 dB(A)	Day Time Norms- Max. 75 dB(A)	Night time Norms- Max. 70 dB(A)
Guest house	66.8	59.4	66.5	59.4	66.1	59.2	66.2	58.4	66.4	59.8	66.2	59.2
Admin Building	66.5	60.4	66.1	60.5	66.3	60.2	66.3	59.2	66.8	60.2	66.5	60.1
Steel Yard RMS	62.8	59.2	64.5	59.3	65.4	59.8	65.3	59.3	65.7	59.5	65.2	60.2
Gate No.-3	66.7	60.1	66.8	60.2	66.2	59.5	66.5	60.2	66.8	60.3	66.6	60.5
CPP (34 MW) Gate	65.8	60.1	65.7	60.1	65.8	60.3	65.7	60.4	65.9	60.6	65.8	60.4
Pellet plant gate	67.1	60.2	67.1	60.3	66.8	60.2	66.9	60.2	66.7	60.6	66.2	60.8
Back Side of Coal washery Road	67.2	60.3	67.4	60.4	67.2	60.5	67.4	59.3	67.6	59.5	67.2	59.6
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, CERTIFICATE No. USIC/SLM/01												

Annex -VII						
MSP Steel and Power Limited						
Jamgaon, Raigarh. C.G.						
Ambient air monitoring (PM10) Report for the period of Oct -19 to Mar -20						
LOCATION	OCT-19	NOV-19	DEC-19	JAN -20	FEB-20	MAR-20
Guest House	52	58	62	50	45	49
Admin Building	52	54	51	44	48	51
Near Steel yard Rolling mill	41	46	43	51	53	62
Pellet Plant Gate	36	39	36	42	45	55
MSP Colony	32	37	34	38	32	36
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 Calibration No. USI/FPS/01						

Ambient Air Monitoring

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																																																																						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="width: 10%;">Name & Address Of The Customer</td> <td style="width: 10%;">REPORT NO</td> <td colspan="2">UES/TR/19-20/09443</td> </tr> <tr> <td colspan="2"> TO, MSP STEEL & POWER LIMITED VILLAGE - JAMGAON, POST - JAMGAON, DIST-RAIGARH, 496001 (CHHATTISGARH) </td> <td>LAB REF NO</td> <td colspan="2">UES/19-20/AAQM/9416-9419</td> </tr> <tr> <td colspan="2"></td> <td>DATE OF SAMPLING</td> <td colspan="2">24/09/2019 - 25/09/2019</td> </tr> <tr> <td colspan="2"></td> <td>DATE OF RECEIPT</td> <td colspan="2">25/09/2019</td> </tr> <tr> <td colspan="2"></td> <td>DATE OF REPORT</td> <td colspan="2">30/09/2019</td> </tr> <tr> <td colspan="2"></td> <td>DATE OF ANALYSIS</td> <td>START: 25/09/2019</td> <td>END: 30/09/2019</td> </tr> <tr> <td colspan="5" style="text-align: center;">SAMPLE DETAILS</td> </tr> <tr> <td>Customer Ref. No.</td> <td colspan="4">RD199-000007 , DATED: 07/09/2019</td> </tr> <tr> <td>Monitoring For</td> <td colspan="4">Ambient Air Quality Monitoring</td> </tr> <tr> <td>Sampling Location</td> <td colspan="4"> 1. Near Guest House 2. Near MSP Family Colony 3. Near Pallet Plant Training House 4. Near Admin Building </td> </tr> <tr> <td>Sampling Procedure</td> <td colspan="4">As Per Method Reference</td> </tr> <tr> <td>Sample</td> <td colspan="4">Filter Paper (PM₁₀): 1X1 NO., Filter Paper (PM_{2.5}): 1X1 NO.,</td> </tr> <tr> <td>Quantity/Packing</td> <td colspan="4">SO₂: 30mlX1 NO. PVC Bottle, NO₂: 30mlX1 NO. PVC Bottle, Rubber Bladder: 1X1 NO.</td> </tr> <tr> <td>Duration of Sampling</td> <td colspan="4">As per CPCB norms</td> </tr> </table>		Name & Address Of The Customer		REPORT NO	UES/TR/19-20/09443		TO, MSP STEEL & POWER LIMITED VILLAGE - JAMGAON, POST - JAMGAON, DIST-RAIGARH, 496001 (CHHATTISGARH)		LAB REF NO	UES/19-20/AAQM/9416-9419				DATE OF SAMPLING	24/09/2019 - 25/09/2019				DATE OF RECEIPT	25/09/2019				DATE OF REPORT	30/09/2019				DATE OF ANALYSIS	START: 25/09/2019	END: 30/09/2019	SAMPLE DETAILS					Customer Ref. No.	RD199-000007 , DATED: 07/09/2019				Monitoring For	Ambient Air Quality Monitoring				Sampling Location	1. Near Guest House 2. Near MSP Family Colony 3. Near Pallet Plant Training House 4. Near Admin Building				Sampling Procedure	As Per Method Reference				Sample	Filter Paper (PM ₁₀): 1X1 NO., Filter Paper (PM _{2.5}): 1X1 NO.,				Quantity/Packing	SO ₂ : 30mlX1 NO. PVC Bottle, NO ₂ : 30mlX1 NO. PVC Bottle, Rubber Bladder: 1X1 NO.				Duration of Sampling	As per CPCB norms			
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Parameter	Method Reference		NAAQM Standard																																																																				
Particulate Matter size less than 10 microns (PM ₁₀)	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I		100																																																																				
Particulate Matter size less than 2.5 microns (PM _{2.5})	CPCB Guidelines Vol.-I		60																																																																				
Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I		80																																																																				
Nitrogen Dioxide (NO ₂)	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I		80																																																																				
Carbon Monoxide (CO)	IS 5182 (Part 10): 1999, RA 2003		4.0																																																																				
TEST REPORT																																																																							
Sampling Location	Sampling Date	PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³																																																																		
Near Guest House	24/09/2019	58	33	16	26																																																																		
Near MSP Family Colony	24/09/2019	60	35	19	29																																																																		
Near Pallet Plant Training House	24/09/2019	67	41	22	34																																																																		
Near Admin Building	24/09/2019	63	38	20	30																																																																		
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PREPARED BY	 For ULTIMATE ENVIROLYTICAL SOLUTIONS	AUTHORIZED SIGNATORY																																																																					
-----End of the test report-----																																																																							

Annex -VII								
MSP STEEL & POWER LIMITED								
Jamgaon, Raigarh. C.G.								
Fugitive Dust Monitoring Report for the Period of OCT -19 to MAR -20								
SL.No	Division	Location	Results in $\mu\text{g}/\text{m}^3$ (Limit is 2000 $\mu\text{g}/\text{m}^3$)				Results in $\mu\text{g}/\text{m}^3$ (Limit is 2000 $\mu\text{g}/\text{m}^3$)	
			OCT-19	NOV-19	DEC-19	JAN -20	FEB-20	MAR-20
1	SMS	Near QC Lab.	1468	1278	1449	1225	1696	1325
		Near Slag Crusher	1846	1959	1901	1898	1781	1896
2	Rolling Mill	NEAR QC LAB.	956	688	1010	850	898	975
3		NEAR WORK SHOP	1214	857	1055	645	1125	1206
4		NEAR OFFICE	498	480	672	1036	987	1072
5	SID	KILN-4 SEP.HOUSE	440	553	480	1684	723	858
		BETWEEN KILN 1&2	998	652	1125	1628	1485	1358
		RMP OLD CIRCUIT	1876	1836	1198	1351	1065	1803
		NEW CIRCUIT	1498	1481	1211	775	1014	803
		KILN 1 & 2 PRODUCT HOUSE	1756	1851	1716	1068	1932	1811
6	CPP-1	ESP AREA	655	491	621	377	1716	769
		CHP AREA	1437	1836	1469	1581	1802	1872
7	PELLET PLANT	Near Benification	1581	1451	1579	1932	1282	1567
		Near Pellet Plant -2 ESP	1875	1860	1769	1487	1885	1949
8	CPP -2	Near CHP Ground Hopper	1898	1900	1968	1895	1806	1971
		Near Boiler	1456	1284	1460	1561	1145	1274
9	CW	Near Screen House	1786	1846	1930	1729	1180	1489
		Near Ground Hopper	1468	1318	1744	1784	1456	1802
Remarks:- SPM Limit is 2000 ($\mu\text{g}/\text{m}^3$) As per CPCB Standards, Make :- VAHIVAB EQUIPMENTS & SERVICES Model No:- VHVS 5BL Calibrated by M/S UNIVERSAL SCIENTIFIC INSTRUMENT AND CALIBRATION, ALIGARH								

Annex -VII							
MSP STEEL & POWER LIMITED							
Jamgaon, Raigarh. C.G.							
Stack monitoring Report for the period of OCT-19 to MAR -20							
Stack Name	Stack Attached with	OCT-19	NOV-19	DEC-19	JAN -20	FEB-20	MAR-20
Stack -1	WHRB 1 & 2 (2LTPA)	45	40	25	32	44	38
Stack -2	WHRB 4 (1 LTPA)	39	38	32	38	38	41
Stack -3	AFBC 4.5MW & CFBC 10 MW	36	39	26	42	38	465
Stack -4	34 MW-CPP	42	45	44	45	45	41
Stack -5	Pellet -1	35	38	32	36	40	42
Stack -6	Pellet -2	44	42	39	40	44	36
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 CERTIFICATE No. USIC/SS/02							



MSP Steel and Power Limited, Jamgaon, Raigarh CG.

Stack Air Monitoring Analysis Report

(2 LTPA Stack)

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																																									
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REPORT NO: UES/TR/19-20/09444 LAB REF NO: UES/19-20/ST/9444 DATE OF SAMPLING: 23/09/2019 DATE OF RECEIPT: 25/09/2019 DATE OF REPORT: 30/09/2019 DATE OF ANALYSIS: START: 25/09/2019 / END: 30/09/2019																																									
SAMPLE DETAILS MONITORING FOR STACK EMISSION MONITORING CUSTOMER REF. NO. & DATE RD199-000007 , DATED: 07/09/2019 SAMPLING LOCATION 2 LTPA 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, 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 LTPA STACK STACK ATTACHED TO: WHRB 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																																									
<table border="1"> <thead> <tr> <th>Parameter</th> <th>Unit</th> <th>Result</th> <th>Limit</th> <th>Method Reference</th> </tr> </thead> <tbody> <tr> <td>FLUE GAS TEMPERATURE</td> <td>°C</td> <td>126</td> <td>-</td> <td>IS 11255 (Part 3):2008</td> </tr> <tr> <td>FLUE GAS VELOCITY</td> <td>M/s</td> <td>15.4</td> <td>-</td> <td>IS 11255 (Part 3):2008</td> </tr> <tr> <td>TOTAL GAS QUANTITY</td> <td>Nm³/h</td> <td>205232.6</td> <td>-</td> <td>IS 11255 (Part 3):2008</td> </tr> <tr> <td>TOTAL PARTICULATE MATTER (TPM)</td> <td>mg/Nm³</td> <td>41.6</td> <td>50</td> <td>IS 11255 (Part 1):1985, RA 2003</td> </tr> <tr> <td>SULPHUR DIOXIDE (SO₂)</td> <td>mg/Nm³</td> <td>252</td> <td>600</td> <td>IS 11255 (Part 2):1985, RA 2003</td> </tr> <tr> <td>OXIDES OF NITROGEN (NO_x)</td> <td>mg/Nm³</td> <td>86</td> <td>300</td> <td>IS 11255 (Part 7):2005, RA 2012</td> </tr> <tr> <td>CARBON MONOXIDE (CO)</td> <td>%</td> <td>7.2</td> <td>-</td> <td>IS 5182 (Part 10) :2003</td> </tr> </tbody> </table>		Parameter	Unit	Result	Limit	Method Reference	FLUE GAS TEMPERATURE	°C	126	-	IS 11255 (Part 3):2008	FLUE GAS VELOCITY	M/s	15.4	-	IS 11255 (Part 3):2008	TOTAL GAS QUANTITY	Nm ³ /h	205232.6	-	IS 11255 (Part 3):2008	TOTAL PARTICULATE MATTER (TPM)	mg/Nm ³	41.6	50	IS 11255 (Part 1):1985, RA 2003	SULPHUR DIOXIDE (SO ₂)	mg/Nm ³	252	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)	%	7.2	-	IS 5182 (Part 10) :2003
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End of the test report.																																									

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

(1 LTPA Stack)

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																																									
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TEST REPORT Stack details STACK IDENTITY: 1 LTPA STACK STACK ATTACHED TO: WHRB 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																																									
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Stack Air Monitoring Analysis Report (4.5MW & 10 MW Stack)

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	

Name & Address Of The Customer To, MSP Steel & Power Limited Village - Manupali, Post - Jamgaon, Dist. - Raigarh, 496001(Chhattisgarh)		REPORT NO UES/TR/19-20/09446 LAB REF NO UES/19-20/ST/9446 DATE OF SAMPLING 23/09/2019 DATE OF RECEIPT 25/09/2019 DATE OF REPORT 30/09/2019 DATE OF ANALYSIS START: 25/09/2019 END: 30/09/2019
SAMPLE DETAILS MONITORING FOR STACK EMISSION MONITORING CUSTOMER REF. NO. & DATE RD199-000007 DATED: 07/09/2019 SAMPLING LOCATION 4.5 MW & 10 MW STACK SAMPLE COLLECTED BY LABORATORY CHEMIST SAMPLING PROCEDURE IS 12516: 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 SPACE 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	136	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	12.4	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	Nm ³ /h	151281.3	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm ³	45.7	50	IS 11255 (Part 1):1985, RA 2003
SULPHUR DIOXIDE (SO ₂)	mg/Nm ³	290	600	IS 11255 (Part 2):1985, RA 2003
OXIDES OF NITROGEN (NO _x)	mg/Nm ³	91.5	300	IS 11255 (Part 7):2005, RA 2012
CARBON MONOXIDE (CO)	%	9.3	-	IS 5182 (Part 10):2003

REMARKS : RESULTS ARE AS ABOVE

Terms & conditions

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- This is for information as the party has asked for **SO₂ & NO_x** only



For **ULTIMATE ENVIROLYTICAL SOLUTIONS**
PREPARED BY 
AUTHORIZED SIGNATORY 

End of the test report.

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

 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	

Name & Address Of The Customer To, MSP Steel & Power Limited Village - Manupali, Post - Jamgaon, Dist. - Raigarh, 496001(Chhattisgarh)		REPORT NO UES/TR/19-20/09447 LAB REF NO UES/19-20/ST/9447 DATE OF SAMPLING 24/09/2019 DATE OF RECEIPT 25/09/2019 DATE OF REPORT 30/09/2019 DATE OF ANALYSIS START: 25/09/2019 END: 30/09/2019
SAMPLE DETAILS MONITORING FOR STACK EMISSION MONITORING CUSTOMER REF. NO. & DATE RD199-000007 DATED: 07/09/2019 SAMPLING LOCATION CPP-2 STACK (34 MW) SAMPLE COLLECTED BY LABORATORY CHEMIST SAMPLING PROCEDURE IS 12516: 1985 REAFFIRMED 2009; PART 3:2008, PART 7:2005 REAFFIRMED 2012; IS 5182 (PART 10) :2003 SAMPLE QUANTITY/PACKING THIMBLE: 1 X 1 NO., SO2: 30 ML X 1 NO. PVC BOTTLE, NOX: 25 ML X 1 NO. PVC BOTTLE, RUBBER BLADDER: 1 X 1 NO., HG: 500ML X 1 NO. GLASS BOTTLE & 500ML X 3 NO. PVC BOTTLE.		

TEST REPORT

Stack details STACK IDENTITY CPP-2 STACK STACK ATTACHED TO BOILER MATERIAL OF CONSTRUCTION RCC STACK HEIGHT ABOVE GROUND LEVEL (MTR.) 87 STACK DIAMETER 3.0 STACK SHAPE AT TOP CIRCULAR TYPE OF FUEL COAL				
Parameter	Unit	Result	Limit	Method Reference
FLUE GAS TEMPERATURE	°C	160	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	21.5	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	Nm ³ /h	380126.1	-	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	278	600	IS 11255 (Part 2):1985, RA 2003
OXIDES OF NITROGEN (NO _x)	mg/Nm ³	85	300	IS 11255 (Part 7):2005, RA 2012
CARBON MONOXIDE (CO)	%	12.1	-	IS 5182 (Part 10):2003

REMARKS : RESULTS ARE AS ABOVE

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 **SO₂ & NO_x** only

 Ultimate ENVIROLYTICAL SOLUTIONS	
PREPARED BY AUTHORIZED SIGNATORY	

End of the test report.

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

Stack Air Monitoring Analysis Report

Annex-VII

(3 LTPA Pellet Stack)

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	

Name & Address Of The Customer

To, MSP Steel & Power Limited Village - Manuapali, Post - Jamgaon, Dist. - Raigarh, 496001(Chhattisgarh)	
REPORT NO	UES/TR/19-20/09448
LAB REF NO	UES/19-20/ST/9448
DATE OF SAMPLING	25/09/2019
DATE OF RECEIPT	25/09/2019
DATE OF REPORT	30/09/2019
DATE OF ANALYSIS	START: 25/09/2019 END: 30/09/2019

SAMPLE DETAILS

MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO. & DATE	RD199-000007 DATED: 07/09/2019
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 LTPA 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	118	-	IS 11255 (Part 3):2008
FLUE GAS VELOCITY	M/s	16.2	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	Nm ³ /h	302876.3	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm ³	44.1	50	IS 11255 (Part 1):1985, RA 2003
SULPHUR DIOXIDE (SO ₂)	mg/Nm ³	245	600	IS 11255 (Part 2):1985, RA 2003
OXIDES OF NITROGEN (NO _x)	mg/Nm ³	89	300	IS 11255 (Part 7):2005, RA 2012
CARBON MONOXIDE (CO)	%	8.7	-	IS 5182 (Part 10) :2003

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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- This is for information as the party has asked for (copy of test) only.

PREPARED BY *Chandu* 30/09/19

For **ULTIMATE ENVIROLYTICAL SOLUTIONS**

AUTHORIZED SIGNATORY *Chandu* 30/09/19

End of the test report.

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

Format No.: UES/FORM/09

 Ultimate ENVIROLYTICAL SOLUTIONS	
HDD-272, PHASE III- NEAR JP CHOWK, RING ROAD NO -2, KABIR NAGAR, RAIPUR, C.G. -492099 PH - 0771- 4027777 email - ultimatenviro@gmail.com	

Name & Address Of The Customer

To, MSP Steel & Power Limited Village - Manuapali, Post - Jamgaon, Dist. - Raigarh, 496001(Chhattisgarh)	
REPORT NO	UES/TR/19-20/09449
LAB REF NO	UES/19-20/ST/9449
DATE OF SAMPLING	25/09/2019
DATE OF RECEIPT	25/09/2019
DATE OF REPORT	30/09/2019
DATE OF ANALYSIS	START: 25/09/2019 END: 30/09/2019

SAMPLE DETAILS

MONITORING FOR	STACK EMISSION MONITORING
CUSTOMER REF. NO. & DATE	RD199-000007 DATED: 07/09/2019
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 LTPA 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	19.7	-	IS 11255 (Part 3):2008
TOTAL GAS QUANTITY	Nm ³ /h	361231.6	-	IS 11255 (Part 3):2008
TOTAL PARTICULATE MATTER (TPM)	mg/Nm ³	47.6	50	IS 11255 (Part 1):1985, RA 2003
SULPHUR DIOXIDE (SO ₂)	mg/Nm ³	280	600	IS 11255 (Part 2):1985, RA 2003
OXIDES OF NITROGEN (NO _x)	mg/Nm ³	83	300	IS 11255 (Part 7):2005, RA 2012
CARBON MONOXIDE (CO)	%	10.1	-	IS 5182 (Part 10) :2003

REMARKS: RESULTS ARE AS ABOVE

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- This is for information as the party has asked for (copy of test) only.

PREPARED BY *Chandu* 30/09/19

For **ULTIMATE ENVIROLYTICAL SOLUTIONS**

AUTHORIZED SIGNATORY *Chandu* 30/09/19

End of the test report.

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

ANNEX-VII

MSP STEEL & POWER LIMITED						
Jamgaon, Raigarh. C.G.						
Work Zone noise monitoring Report for the period of Oct -19 to Mar -20						
LOCATION / Division - SMS	OCT-19	NOV-19	DEC-19	JAN -20	FEB-20	MAR-20
Store	76.4	76.6	76.1	76.4	76.8	77.0
CCM1	84.4	S/D	S/D	82.7	83.8	82.8
CCM2	81.8	84.8	84.9	84.4	82.8	83.0
18Ton furnace	83.3	83.5	83.8	83.7	83.8	83.8
18 ton mcc room	81.6	81.5	83.8	81.2	81.6	81.8
Crusher area	82.0	82.3	82.6	82.5	82.7	82.4
Workshop	77.0	76.7	76.9	76.3	76.8	76.7
Office	66.8	66.7	66.6	66.8	68.4	67.5
QC	80.4	80.4	80.0	80.0	79.8	80.0
Recommendation: Use ear plug while working at high Noise area						
Remarks:- As per CPCB Standards 85dB(A) in Work Zone Area, Make :- Envirotech, Model No:- APM550, Calibrated by M/S Universal Scientific Equipment and services, Aligarh, CERTIFICATE No. USIC/SLM/01						

ANNEX -VII

MSP STEEL & POWER LIMITED						
Jamgaon, Raigarh. C.G.						
Work Zone noise monitoring Report for the period of Oct -19 to Mar -20						
LOCATION / Division - SID &RMP	OCT-19	NOV-19	DEC-19	JAN -20	FEB-20	MAR-20
Compressor room (K-4)	84.8	84.7	84.8	84.9	84.5	84.7
Separation	80.2	79.9	80.3	81.0	81.1	80.4
Kiln 1	83.3	83.4	83.2	84.5	84.6	84.1
Kiln 2	84.2	84.0	84.5	84.6	84.4	84.5
Kiln 4	83.6	84.2	84.1	84.4	84.4	84.2
Product house	81.3	81.2	81.6	80.4	80.8	80.3
Transformer room	75.0	81.7	81.3	81.1	80.7	79.8
Old day bin	76.5	76.5	76.7	76.5	76.9	76.6
Iron crusher	81.9	81.6	81.6	80.6	80.9	80.2
Coal crusher	83.0	82.8	82.6	81.3	81.7	81.3
Iron screen	82.0	81.7	81.4	81.4	81.6	81.4
Tippler circuit	79.8	79.6	79.1	79.3	79.9	80.6
Coal sizer	81.6	81.3	81.0	81.3	80.9	81.0
RMP office	67.0	66.7	66.4	66.5	66.9	66.5
New Daybin	80.4	80.0	80.2	80.4	80.4	80.4
Recommendation: Use ear plug while working at high Noise area						
Remarks:- As per CPCB Standards 85dB(A) in Work Zone Area, Make :- Envirotech, Model No:- APM550, Calibrated by M/S Universal Scientific Equipment and services, Aligarh, CERTIFICATE No. USIC/SLM/01						

ANNEX -VII

MSP STEEL & POWER LIMITED						
Jamgaon, Raigarh. C.G.						
Work Zone noise monitoring Report for the period of Oct -19 to Mar -20						
LOCATION / Division - CPP -1	OCT-19	NOV-19	DEC-19	JAN -20	FEB-20	MAR-20
CPP steel office	65.7	65.7	65.7	65.7	66.0	66.5
Boiler-4	80.5	80.3	80.3	80.0	80.5	80.2
Ground floor	83.5	83.7	83.3	83.9	84.0	84.3
Electrical panel	76.0	76.0	75.5	76.0	76.7	76.4
Turbine 1	84.8	S/D	84.7	84.8	S/D	84.8
Turbine 2	85.0	84.7	84.7	84.3	84.1	84.5
Turbine 3	84.5	84.2	84.3	84.8	84.4	84.7
Compressor house(18mw)	85.0	84.8	85.0	84.8	84.9	85.0
Recommendation: Use ear plug while working at high Noise area						
Remarks:- As per CPCB Standards 85dB(A) in Work Zone Area, Make :- Envirotech, Model No:- APM550, Calibrated by M/S Universal Scientific Equipment and services, Aligarh, CERTIFICATE No. USIC/SLM/01						

ANNEX -VII

MSP STEEL & POWER LIMITED						
Jamgaon, Raigarh. C.G.						
Work Zone noise monitoring Report for the period of Oct -19 to Mar -20						
LOCATION / Division - CPP -2	OCT-19	NOV-19	DEC-19	JAN -20	FEB-20	MAR-20
Coal hopper	81.3	81.2	81.4	81.3	81.3	81.3
CHP	80.5	80.2	80.4	80.6	80.5	80.6
Boiler Area	83.8	83.6	83.5	82.8	82.7	82.2
Turbine Floor	84.8	84.1	84.2	84.7	84.2	84.8
Office	66.6	66.6	66.5	66.9	67.8	69.7
Store	68.7	68.8	68.8	68.8	68.8	68.6
Control room	70.1	70.0	69.5	69.7	69.5	69.7
Ground floor	82.6	82.5	82.5	82.5	81.7	81.6
COAL WASHERY						
Coal hopper	78.8	79.8	79.7	71.8	81.4	81.4
Screen	79.2	79.2	79.3	79.6	80.2	80.4
RMP	77.0	74.8	78.3	66.8	81.9	80.4
Crusher	81.1	80.3	80.5	80.7	80.3	80.2
Office	66.8	66.7	66.4	66.8	66.8	67.1
Coal shade	80.8	79.9	79.9	79.5	79.6	79.5
Recommendation: Use ear plug while working at high Noise area						
Remarks:- As per CPCB Standards 85dB(A) in Work Zone Area, Make :- Envirotech, Model No:- APM550, Calibrated by M/S Universal Scientific Equipment and services, Aligarh, CERTIFICATE No. USIC/SLM/01						

ANNEX-VII

MSP STEEL & POWER LIMITED						
Jamgaon, Raigarh. C.G.						
Work Zone noise monitoring Report for the period of Oct -19 to Mar -20						
LOCATION / PELLET -1	OCT-19	NOV-19	DEC-19	JAN -20	FEB-20	MAR-20
Benification	80.6	80.5	80.8	80.3	80.4	80.5
Cooler	84.1	84.6	84.2	84.1	83.6	83.6
Kiln	84.5	83.6	83.4	83.4	83.8	82.7
TG	83.4	82.7	82.1	82.3	82.7	82.5
PCI	82.8	80.7	80.4	81.5	81.6	81.7
Ballning Disc	82.4	80.6	80.3	80.6	80.4	80.4
PGP	77.8	74.3	72.5	72.7	77.5	73.6
Product house	80.5	80.7	80.8	81.5	78.5	81.8
Thickener	76.3	75.6	75.7	75.6	74.5	74.5
PELLET -2						
ESP	81.7	80.6	80.5	80.4	80.5	80.3
Ballning Disc	80.6	80.3	80.2	80.2	80.5	80.6
TG Building	84.2	83.6	83.2	83.7	82.6	82.7
PCI	82.9	82.2	82.6	82.5	82.8	82.2
Cooler	84.5	84.6	84.2	84.2	78.0	83.6
PGP	71.6	71.8	71.7	71.4	76.5	71.9
Benification	81.3	81.8	81.5	81.6	82.9	81.3
Kiln	84.7	83.4	83.2	83.7	78.0	83.9
Store	72.3	72.8	72.6	72.6	69.2	72.8
Office	66.4	66.6	66.5	66.9	74.7	66.3
Recommendation: Use ear plug while working at high Noise area						
Remarks:- As per CPCB Standards 85dB(A) in Work Zone Area, Make :- Envirotech, Model No:- APM550, Calibrated by M/S Universal Scientific Equipment and services, Aligarh, CERTIFICATE No. USIC/SLM/01						

ANNEX- VII

MSP STEEL & POWER LIMITED						
Jamgaon, Raigarh. C.G.						
Work Zone noise monitoring Report for the period of Oct -19 to Mar -20						
LOCATION / Division RMD	OCT-19	NOV-19	DEC-19	JAN -20	FEB-20	MAR-20
Store	77.7	77.8	77.7	77.6	77.1	77.3
Pusher	82.6	82.3	82.4	82.2	82.9	82.5
Injector door	84.3	84.3	84.0	83.7	83.8	83.4
Roughing stand	84.8	84.5	84.6	84.1	84.1	84.3
Workshop	84.1	83.2	83.8	83.7	83.4	83.4
Electrical mcc room	78.9	78.7	78.6	78.6	79.3	80.3
QC	77.6	76.9	77.4	77.6	76.1	76.4
Cooling Bed	84.8	84.4	84.5	83.9	83.8	83.7
Office	67.8	67.3	67.4	67.4	67.7	67.6
RMS						
Pusher	84.8	83.9	84.0	84.7	84.2	84.3
Degree chair 1	84.2	84.2	84.5	83.9	83.7	84.1
Degree chair 2	84.5	84.9	84.5	84.8	83.2	83.9
Stand 4	84.1	85.0	84.1	84.2	84.7	84.1
Store	82.6	82.6	82.3	81.4	82.4	81.9
Lathe machine	84.1	83.8	83.4	84.5	84.1	84.5
Cooling Bed	84.8	84.1	83.9	83.7	83.2	83.4
Stand 7	83.4	83.8	83.4	83.9	84.1	84.5
Office	70.2	71.0	70.8	69.9	71.3	71.1
Recommendation: Use ear plug while working at high Noise area						
Remarks:- As per CPCB Standards 85dB(A) in Work Zone Area, Make :- Envirotech, Model No:- APM550, Calibrated by M/S Universal Scientific Equipment and services, Aligarh, CERTIFICATE No. USIC/SLM/01						