



MSP SPONGE IRON LIMITED

Works : Village : Manuapali, Post : Jamgaon, Dist. : Raigarh - 496001, Chhattisgarh
Ph. : Office : (07762) 264449 - 53, Telefax : (07762) 264450

25th May 2021

To,

The Regional Director,
Central Pollution Control Board,
4th Floor, Shankar Bhawan,
North TT Nagar,
Bhopal (M.P.)- 462003

Sub. Submission of compliance of conditions of environmental clearance (EC) for the period Oct 2020 to Mar 2021.

Ref. EC granted by MOEF, New Delhi vide no. F. No. J-11011/178/2010-IA-1I (I) Dated: 23rd August, 2012.

Dear Sir,

With reference to above, we are submitting herewith compliance of conditions (Oct 2020 to March 2021) of Environmental Clearance granted to us by above referred EC along with necessary documents/ annexures.

This is for your kind information please.

Thanking You
Yours Faithfully
For MSP Sponge Iron Ltd.

Prashant Pandey
Sr. GM (Corporate co-ordination)

Encl- As above

Copy to -

1. The Addl. Principal Chief Conservation of Forests, MOEF &CC, Regional Office (WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Lines, Nagpur (MS)-440001.
2. The Member Secretary, CECB, Raipur (C.G.)
3. The Regional Officer, CECB, Raigarh (C.G.)

**M/S. MSP SPONGE IRON LTD,
MANUWAPALI, RAIGARH, CG.**

**COMPLIANCE OF CONDITIONS OF ENVIRONMENTAL CLEARANCE GRANTED BY MOEF, NEW DELHI
VIDE F. No. J-11011/178/2010-IA-1I (I) Government of India, Dated: 23rd August, 2012.**

A. SPECIFIC CONDITIONS		Compliance status																								
I	No charcoal shall be used as fuel. Pet coke shall be used as fuel instead of charcoal from unknown sources.	We have noted the point																								
II	Continuous monitoring facilities for all the stacks and air pollution control equipment viz. fume extraction system with bag filters. ID fan and stack of adequate height to submerged arc furnace shall be provided to control emissions below 50 mg/Nm ³ ESP shall be installed to control the particulate emission from the captive power plant	<p style="text-align: center;">UNIT WISE INSTALLATION STATUS (Annex-I)</p> <table border="1"> <thead> <tr> <th>Capacity</th><th>ESP</th><th>BAG FILTER</th><th>VENT FILTER</th><th>DRY FOG</th></tr> </thead> <tbody> <tr> <td>12 MW</td><td>1 no. ESP(3 Field)</td><td>1 no. Bag house</td><td>1 no Vent Filter</td><td>Installed Water spray system</td></tr> <tr> <td>2 X 7.5 MVA</td><td>-</td><td>2 nos Bag Filter</td><td></td><td></td></tr> <tr> <td>9.0 MVA</td><td>-</td><td>1 no. Bag Filter</td><td></td><td></td></tr> </tbody> </table> <ul style="list-style-type: none"> Online stack emission monitoring systems in all stacks & AAQMS are installed and connected with the server of CECB/CPCB. <ul style="list-style-type: none"> http://cecb.swanenviron.com (CEMS) User Id: MSP_CECB Password: Msp@1234 URL-https://onlinedata.swanenviron.com (CEMS) User Id: MSIL Password: MSIL@789 https://cecb.azurewebsites.net/ (AAQMS) User Id : mspsponge Password: mspsponge@2019 					Capacity	ESP	BAG FILTER	VENT FILTER	DRY FOG	12 MW	1 no. ESP(3 Field)	1 no. Bag house	1 no Vent Filter	Installed Water spray system	2 X 7.5 MVA	-	2 nos Bag Filter			9.0 MVA	-	1 no. Bag Filter		
Capacity	ESP	BAG FILTER	VENT FILTER	DRY FOG																						
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9.0 MVA	-	1 no. Bag Filter																								

		<ul style="list-style-type: none"> – https://nksquare.realtimepollution.in (AAQMS) – User Id : mspsponge – Password: msp@2019 • Stack of adequate height and bag filters are installed to control the emission below 50 mg/Nm3. • ESP are installed with stack of captive power plant.
III	The National Ambient Air Quality (AAQ) Standards issued by the Ministry Vide G S R NO 826(E) dated 16th November, 2009 shall be followed	<p>Complied</p> <ul style="list-style-type: none"> • Ambient Air Quality is maintained and satisfying the National ambient air quality norms.
IV	Secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored guidelines/ Code of Practice issued by the CPCB shall follow.	<p>Complied</p> <p>Measures for control of fugitive emission adopted are :</p> <ul style="list-style-type: none"> • water spray system at ground hopper of raw material feeding • Bag-filter connected to the CHP of power plant. • Bag-filters connected to stacks of Submerged electric arc Furnace. • Emissions are well within prescribed norms. • Unit ensures implementation of proper preventive maintenance schedule for effective operation of devices.
V	Regular Monitoring of In fluent and effluent surface, sub-surface and ground water shall be ensured and treated waste water shall meet the norms prescribed by the State Pollution Control Board or described under the EP Act whichever are more stringent, Leachate study for the effluent generated and analysis should also be regularly carried out and report submitted to the Ministry's Regional Office at Bhopal SPCB and CPCB .	<p>Complied</p> <ul style="list-style-type: none"> • Periodical testing of water is carried out and parameters are well within prescribed norms. • Unit operates and maintains zero effluent discharge condition and waste water collected is safe for re-use for plantation, dust suppression purpose.

VI	The total water requirement shall not exceed 1,350 m'/day 'Zero effluent discharge shall be strictly followed and no waste water should be discharged outside premises.	Complied <ul style="list-style-type: none"> • Make –up water requirement does not exceed the Approved Quantum. • Waste water from RO DM plant is neutralized & re used for dust suppression and green belt development. • Domestic effluent is treated in septic tank by soak pit within factory premises. • Zero discharge of water outside of premises is maintained.
VII	Efforts shall be made to make use of rain water harvested If needed, capacity of the reservoir should be enhanced to meet the maximum water requirement Only balance water requirement should be met from other sources	Complied <ul style="list-style-type: none"> • 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.
VIII	Slag produced in Ferro Manganese (Fe-Mn) production shall be used in manufacture of Silica Manganese (Si-Mn) All the other ferro alloy slag shall be used in the preparation of building materials.	Complied <ul style="list-style-type: none"> • Slag generated in course of production are granulated and utilized for the road construction purpose. • Solid waste also analyzed for toxic metal composition, no abnormalities found. Annex-II
IX	No Ferro Chrome shall be manufactured without prior approval from the Ministry of Environment & Forests.	<ul style="list-style-type: none"> • We have noted the point. We shall obtain prior approval of MoEF before producing Ferro Chrome.
X	Risk and Disaster Management Plan along with the mitigation measures should be prepared and a copy submitted to the Ministry's Regional Office at Bhopal SPCS and CPCB within 3 months of issue of environment clearance letter	Complied <ul style="list-style-type: none"> • On-site Emergency management plan prepared and necessary approval is obtained from Directorate of Industrial Health and Safety, Govt. of C.G.
XI	All the commitments made to the public during the Public Hearing /public Consultation meeting held on 16 th December, 2011 should be satisfactorily Implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional Office at Bhopal.	Complied <p>Following Community development activities are carried out under the advice/ guidance of District administration, Raigarh.</p> <ul style="list-style-type: none"> • Periodical Health care camps in surrounding villages. • Education by providing Teachers to some schools nearby. • Free Ambulance service for villagers. • Drinking water supply during summer. • Village Pond development/ renovation.
XII	As proposed, green belt should be developed in at least 33 % of the project area Selection of plant species shall be as per the CPCB guideline in consultation with the DFO	Complied <ul style="list-style-type: none"> • The unit has completed 33% of green belt development as per CPCB guideline.

		<ul style="list-style-type: none"> • In every rainy season plantation work is done in surrounding villages too.
XIII	At least 5 % of the total cost of the project should be earmarked towards Enterprise Social Commitment based on Public Hearing issues and Item-Wise details along with time bound action plan should be prepared and submitted to the ministry's Regional Office at Bhopal. Implementation of such program shall be ensured accordingly in a time bound manner.	<p>Complied</p> <p>Various Community development works are carried out under the guidance/advise of District administration, Raigarh.</p> <ul style="list-style-type: none"> • Periodical Health care camps in surrounding villages. • Education by providing Teachers to some schools nearby. • Free Ambulance service for villagers. • Drinking water supply during summer. • Village Pond development/ renovation.
XIV	Provision shall be made for the housing of construction labour within the Site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, 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 to construction workers and removed after completion of project. • During operation housing facilities are provided to eligible employee in separate 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 strictly follows the stipulations made by the CECB and the State Government. • CTE/CTO is obtained or renewed on satisfactory compliance of all such conditions.
II	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests	Noted and shall continue to follow the same.
III	At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of PM10, SO ₂ and NO _x are anticipated in consultation with the CECB Including one ambient air quality monitoring station in the downwind direction 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 month	<p>Online CEMS is already installed & it is connected with CPCB/SPCB server.</p> <p>The website, URL, username and password for the same are as under-</p> <ul style="list-style-type: none"> – https://cecb.azurewebsites.net/ (AAQMS) – User Id : mspsponge – Password: mspsponge@2019 – https://nksquare.realtimepollution.in (AAQMS) – User Id : mspsponge – Password: msp@2019

IV	Industrial waste water shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31st December, 1993 or as amended from time to time, The treated waste water shall be utilized for plantation purpose.	Complied <ul style="list-style-type: none"> Industrial waste water such as boiler blow down water is reused in factory premises for functioning of water sprinkler beside internal road and in plantation area. RO rejected water neutralized and then re-used in road spraying & plantation area.
V	The overall noise levels in and around the plant area shall be kept well 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 (nighttime)	Complied <p>Noise control mechanisms/ systems are adopted in working zone to keep the noise level within permissible level. Test reports are enclosed.</p> <p>Annex-III</p>
VI	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act	Complied <ul style="list-style-type: none"> Industry has well equipped Occupational Health Centre in the factory premises where health checkup of employees are done periodically and necessary records are maintained. Health checkup report submitted at the office of Industrial Health & Safety, Raigarh periodically.
VII	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	Complied <p>The unit has adopted rain water harvesting techniques with provision for collection of roof water & runoff water for re-use and recharge of ground water level as well.</p>
VIII	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further the company must undertake social-economic development activities in the surrounding villages like community development programmers educational programmers, drinking water supply and health care etc.	Complied <p>Following Community development activities are carried out under the advice /guidance of District administration, Raigarh.</p> <ul style="list-style-type: none"> Periodical Health care camps in surrounding villages. Education by providing Teachers to some schools nearby. Free Ambulance service for villagers. Drinking water supply during summer. Village Pond development/ renovation.
IX	Requisite amount shall be earmarked towards the capital cost and recurring cost/annum for environmental protection measures and judiciously utilized to	Complied <p>Pollution Control equipments / devices as shown in the Annex -I are</p>

	implement the conditions stipulated by the Ministry of Environment and Forest as well as the State Government. The funds so provided shall not be diverted for any other purpose	installed and maintained/ reconditioned by the in-house Environment Management Cell of the unit. Adequate funds are made available by the management for the purpose.
X	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 web site of the company by the proponent.	Complied Copy of clearance letter was sent to concern Local Bodies.
XI	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their web Site and shall update the same periodically. It shall Simultaneously be sent to the regional Office Of the MOEF the respective Zonal Office of CPCB and the CECB. The criteria pollutant levels namely, PM10, SO ₂ , NO _x (ambient level as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Online CEMS is already installed & it is connected with CPCB/SPCB server. The website, URL, user-name and password for the same are as under- – https://cecb.azurewebsites.net/ (AAQMS) – User Id : mspsponge – Password: mspsponge@2019 – https://nksquare.realtimepollution.in (AAQMS) – User Id : mspsponge – Password: msp@2019
XII	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 bye-mail) to the regional office of MoEF at Bhopal, the respective Zonal Office of CPCB and the SPCB the Regional Office of this Ministry at Bhopal /CPCB/ CECB shall monitor the stipulated conditions.	Last Six month monitoring data for Stack Air, Ambient air, fugitive emission, drinking water and used oil attached as herewith for record and perusal. Annexure – IV
XIII	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) rules 1986, as amended subsequently. shall also be put on the web Site 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 email	Complied Environmental statement is submitted to the office of Regional Officer, CECB, CG State.

XIV	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies at 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 in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional Office at Bhopal.	Complied Publication as required were made for wide circulation in two local newspapers for information of all concerned regarding Environmental Clearance issued by the Ministry since 2012 and copies of the clearance letter are made available with the CECB and may also be seen at Website of the Ministry of Environment and Forests.
XV	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.
9	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory	We have noted the point.
10	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.
11	The above conditions shall be enforced. inter-alia under the provisions of the water (Prevention & Control of Pollution) Act. 1974, the Air (Prevention & Control at Pollution) Act. 1981 the Environment (Protection) Act 1986 Hazardous Wastes (Management, Handling storage Tran boundary Movement) Rules. 2008 and the Public (Insurance) Liability, Act. 1991 along With their amendments and rules.	We have noted the point.

Solid Waste Analysis Report

Annex-II

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 Client: Recognized by Ministry of Environment, Forest and Climate Change, India under EEP act 1986 TO, MSP SPONGE IRON LIMITED VILLAGE -MANUAPALI, POST-JAMGAON, DIST- RAIGARH, 496001(CHHATTISGARH)															
REPORT NO. UES/TR/21-22/6259 LAB REF NO. UES/21-22/W/0308-0309 DATE OF SAMPLING 12/04/2021 DATE OF RECEIPT 13/04/2021 DATE OF REPORT 19/04/2021 DATE OF ANALYSIS START: 14/04/2021 END: 18/04/2021															
SAMPLE DETAILS <table border="1"> <tr> <td>Customer Sample Id / Sampling Location</td> <td>1. CPP 12 mw Fly Ash 2. Ferro Slag 3. Ferro Bag Filter (Dust)</td> <td>Customer Ref. No. & Date</td> <td>WS203-00004, DATED: 10.03.2021</td> </tr> <tr> <td>Sample Type</td> <td>Miscellaneous</td> <td>Sample Condition At Receipt</td> <td>Ok</td> </tr> <tr> <td>Sample Collected By</td> <td>Lab. Chemist</td> <td>Quantity Received</td> <td>1 kg</td> </tr> </table>				Customer Sample Id / Sampling Location	1. CPP 12 mw Fly Ash 2. Ferro Slag 3. Ferro Bag Filter (Dust)	Customer Ref. No. & Date	WS203-00004, DATED: 10.03.2021	Sample Type	Miscellaneous	Sample Condition At Receipt	Ok	Sample Collected By	Lab. Chemist	Quantity Received	1 kg
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Sample Type	Miscellaneous	Sample Condition At Receipt	Ok												
Sample Collected By	Lab. Chemist	Quantity Received	1 kg												

TEST REPORT						
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	RESULT		
				CPP - 12 MW Fly Ash	Ferro Slag	Ferro Bag Filter (Dust)
1	Arsenic as As	mg/kg	USEPA METHOD-1311	N.D.	N.D.	N.D.
2	Cadmium as Cd	mg/kg	USEPA METHOD-1311	N.D.	N.D.	48.2
3	Lead as Pb	mg/kg	USEPA METHOD-1311	28.6	136	186
4	Cobalt as Co	mg/kg	USEPA METHOD-1311	N.D.	N.D.	N.D.
5	Mercury as Hg	mg/kg	USEPA METHOD-1311	N.D.	N.D.	N.D.
6	Nickel as Ni	mg/kg	USEPA METHOD-1311	N.D.	N.D.	N.D.
7	Chromium as Cr	mg/kg	USEPA METHOD-1311	86.4	8.2	20.2
8	Zinc as Zn	mg/kg	USEPA METHOD-1311	12.2	N.D.	168
9	Copper as Cu	mg/kg	USEPA METHOD-1311	2.8	14.8	24.8

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.

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

LOCATION	OCT-21		NOV-21		DEC-21		JAN-21		FEB.-21		MAR.-21	
	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)
Near FAD Time Office	66.3	60.4	64.8	61.4	67.7	61.8	67.2	60.6	67.2	60.8	66.2	60.1
Near Substation	64.2	61.2	67.2	61.3	64.2	58.6	64.8	58.7	64.4	59.2	67.3	60.4
Near MSP Sponge gate	67.3	61.2	66.5	60.4	63.7	59.7	63.3	59.3	63.8	59.7	64.5	59.4
Near Office	66.1	60.3	64.8	60.4	64.6	60.1	66.4	60.2	66.2	60.4	66.2	60.1

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,

Recommendation: Use ear plug while working at high Noise area

Annex -III

MSP Sponge Iron Limited						
Work Zone noise monitoring Report for the period of OCT-20 to MAR.-21						
LOCATION / Division -FAD	OCT-20	NOV-20	DEC-20	JAN-21	FEB-21	MAR-21
Office	67.4	67.3	67.0	66.9	66.9	66.2
Store	68.8	68.3	68.0	68.3	68.3	66.8
Furnace floor	82.6	81.6	81.5	81.4	81.4	81.5
Transformer	83.3	81.5	81.1	81.2	81.2	79.8
Tapping	81.8	81.1	81.2	80.4	80.4	80.7
Skip floor	83.4	83.0	82.8	82.3	82.3	82.5
Batching	81.8	80.7	81.6	81.4	81.4	82.5
Metal yard	80.9	81.1	81.0	80.9	80.9	80.4
Electrical MCC room	76.3	75.5	75.2	75.2	75.2	74.0
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 -III

MSP Sponge Iron Limited						
Work Zone noise monitoring Report for the period of OCT-20 to MAR.-21						
LOCATION / Division - CPP -12 MW	OCT-20	NOV-20	DEC-20	JAN-21	FEB-21	MAR-21
Boiler	81.2	81.3	81.8	81.7	81.7	81.5
Cooling Tower	82.7	83.5	83.2	83.8	83.8	83.4
Office	67.9	67.9	67.9	67.9	67.9	67.9
CHP	82.9	82.6	82.2	82.7	82.7	82.0
Turbine Floor	84.8	84.2	84.1	84.3	84.2	84.2
Ground Floor	84.3	83.0	83.6	83.2	83.2	83.1
MCC Room	74.6	75.9	76.2	76.1	76.1	77.1
Compressor Room	84.0	83.9	83.5	84.2	84.2	84.3
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,						

Annex -IV

LOCATION	OCT-21		NOV-21		DEC-21		JAN-21		FEB.-21		MAR.-21	
	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)
Near FAD Time Office	66.3	60.4	64.8	61.4	67.7	61.8	67.2	60.6	67.2	60.8	66.2	60.1
Near Substation	64.2	61.2	67.2	61.3	64.2	58.6	64.8	58.7	64.4	59.2	67.3	60.4
Near MSP Sponge gate	67.3	61.2	66.5	60.4	63.7	59.7	63.3	59.3	63.8	59.7	64.5	59.4
Near Office	66.1	60.3	64.8	60.4	64.6	60.1	66.4	60.2	66.2	60.4	66.2	60.1
Remarks:- As per CPCB Standards Day Time Norms-Max. 75 dB(A) & Night time Norms-Max. 70 dB(A) Calibrated by M/S Universal Scientific Equipment and services ,Aligarh,												

Annex-IV

MSP Sponge iron Limited						
Ambient air monitoring (PM10) Report for the period of OCT -20 to MAR.-21						
LOCATION	OCT-20	NOV-20	DEC-20	JAN-21	FEB-21	MAR-21
East Direction	55	45	50	57	62	58
West Direction	51	48	55	59	65	57
North Direction	48	52	43	42	45	52
South Direction	43	50	48	44	47	50
Remarks:- PM10 Limit 100 (µg/m3) As per CPCB Standards, Make :- Envirotech, Model No:- APM550, Calibrated by M/S UNIVERSAL SCIENTIFIC INSTRUMENT AND CALIBRATION, ALIGARH						

Annex-IV

MSP SPONGE IRON LIMITED									
Drinking Water Testing Report for the Month of OCT -20 TO MAR-21									
LOCATION :- FERRO CANTEEN									
SL.NO	PARAMETERS	UNIT	Limit	OCT-20	NOV-20	DEC-20	JAN-21	FEB-21	MAR-21
1	Appearance	-	Clear	Clear	Clear	Clear	Clear	Clear	Clear
2	Odour	-	**	O dour less					
3	pH	--	6.5 – 8.5	6.8	6.9	6.6	6.7	6.7	6.9
4	TSS	mg/l	**	1	2	2	1	2	1
5	TDS	mg/l	500 – 2000	46	46	45	46	46	46
6	Turbidity	NTU	1 – 5	1.4	1.2	0.8	0.6	0.8	0.7
7	conductivity	µs/cm	**	69.8	70.2	68.4	69.2	70.5	70.2
8	T. Alkalinity	ppm	200 – 600	46	48	44	40	42	40
9	T. Hardness	ppm	300 – 600	40	44	42	42	44	42
10	Calcium	ppm	75 – 200	26	29	28	28	29	28
11	Magnesium	ppm	30 – 100	14	15	14	14	15	14
12	Chloride	ppm	250 – 1000	16	18	12	12	14	12
13	Silica	ppm	**	14	16	14	16	14	4
14	Iron	ppm	0.30 – 1.0	0.132	0.142	0.102	0.098	0.01	0.102

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

Annex-IV

MSP SPONGE IRON LIMITED							
SL	Division	Location	Results in $\mu\text{g}/\text{m}^3$ (Limit is 2000 $\mu\text{g}/\text{m}^3$)				
			OCT-20	NOV-20	DEC-20	JAN-21	FEB-21
1	FAD	NEAR FURNACE-1	1842	1874	1450	1865	579
		NEAR FURNACE-2	1593	1765	1779	1632	1622
		NEAR FURNACE - 3	1847	1566	1816	1062	1831
		DAYBIN AREA	1082	890	1885	1822	1828
2	12 MW CPP	NEAR CHP	1832	1857	1689	1742	1879
		SILO	1396	893	1376	1413	1190
		BOILER	1862	1871	1541	938	1938
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 - IV							
MSP SPONGE IRON LIMITED							
Manuwapali, Raigarh. C.G.							
Ground Water Testing Report for the Month of DECEMBER-20 & MARCH -21							
SL.NO	PARAMETERS	UNIT	Limit	DECEMBER -20		MARCH -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	6.7	6.9	6.8
4	TSS	mg/l	**	2	2	2	1
5	TDS	mg/l	500 – 2000	60	223	62	219
6	Turbidity	NTU	1 – 5	1.1	0.8	0.9	0.7
7	conductivity	µs/cm	**	92	338	94	332
8	T. Alkalinity	ppm	200 – 600	28	48	28	50
9	T. Hardness	ppm	300 – 600	32	68	34	72
10	Calcium	ppm	75 – 200	21	44	22	48
11	Magnesium	ppm	30 – 100	11	24	12	24
12	Chloride	ppm	250 – 1000	12	32	13	30
13	Silica	ppm	**	22	20	20	18
14	Iron	ppm	0.30 – 1.0	0.034	0.418	0.038	0.408

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

ANNEX -IV

MSP Sponge Iron Limited							
Stack monitoring Report for the period of OCT -20 to MAR -21							
Stack Name	Stack Attached with	OCT-20	NOV-20	DEC-20	JAN-21	FEB-2	MAR-21
Stack -1	12 MW CPP	43	41	48	40	45	46
Stack -2	2 X 7.5 MVA (FERRO)	39	45	43	44	42	36
Stack -3	9.0 MVA (FERRO)	42	40	35	30	38	41

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

Annex -IV

MSP Sponge Iron Limited						
Work Zone noise monitoring Report for the period of OCT-20 to MAR.-21						
LOCATION / Division -FAD	OCT-20	NOV-20	DEC-20	JAN-21	FEB-21	MAR-21
Office	67.4	67.3	67.0	66.9	66.9	66.2
Store	68.8	68.3	68.0	68.3	68.3	66.8
Furnace floor	82.6	81.6	81.5	81.4	81.4	81.5
Transformer	83.3	81.5	81.1	81.2	81.2	79.8
Tapping	81.8	81.1	81.2	80.4	80.4	80.7
Skip floor	83.4	83.0	82.8	82.3	82.3	82.5
Batching	81.8	80.7	81.6	81.4	81.4	82.5
Metal yard	80.9	81.1	81.0	80.9	80.9	80.4
Electrical MCC room	76.3	75.5	75.2	75.2	75.2	74.0
Recommendation: Use ear plug while working at high Noise area						
Remarks:- As per CPCB Standards 85dB(A) in Work Zone Area, Make :- Envirotech, Universal Scientific Equipment and services, Aligarh,					Calibrated by M/S	

Recycled Water Analysis

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

Name & Address Of The Customer		REPORT NO	UES/TR/21-22/0257
TO, MSP SPONGE IRON LIMITED VILLAGE -MANUAPALI, POST-JAMGAON,DIST- RAIGARH,496001(CHHATTISGARH)		LAB REF NO	UES/21-22/W/0306
		DATE OF SAMPLING	12/04/2021
		DATE OF RECEIPT	13/04/2021
		DATE OF REPORT	19/04/2021
		DATE OF ANALYSIS	START:14/04/2021 END:18/04/2021
SAMPLE DETAILS			
Customer Ref. No.	WS203-00004, DATED:10.03.2021		
Sample Type	EFFLUENT WATER		
Customer Sample ID	CPP 12 MW Pond Water		
Packing Of Sample	Plastic Bottle (Sealed)		
Sample Collected By	Laboratory Chemist		
Quantity Received	Approx. 5 Ltr.		

TEST REPORT					
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMITS AS PER CONSENT	RESULT
1	pH Value at 25.5°C	-	IS:3025: (Part-11)	5.5 To 9.0	7.21
2	Total Suspended Solid	mg/L	IS 3025: (Part-17)	100	18.4
3	Total Dissolved Solids	mg/L	IS:3025: (Part-16)	-	74.0
4	Chemical Oxygen Demand	mg/L	IS:3025: (Part-58)	250	6.2
5	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025: (Part-44)	30	2.8
6	Oil & Grease	mg/L	IS 3025 (Part 39)	10	N.D.

Note: mg/lit.: milligram per liter.

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 chemical test(s) only.

 PREPARED 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

Used Oil Analysis Report

Annex –IV

Format No. : UES/FORM/09

 Ultimate <small>ENVIROLYTICAL SOLUTIONS</small>		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 SPONGE IRON LIMITED VILLAGE –MANUAPALI, POST-JAMGAON, DIST- RAIGARH, 496001(CHHATTISGARH)		REPORT NO UES/TR/21-22/0258 LAB REF NO UES/21-22/Misc/0307 DATE OF SAMPLING 12/04/2021 DATE OF RECEIPT 13/04/2021 DATE OF REPORT 19/04/2021 DATE OF ANALYSIS START: 14/04/2021 END: 18/04/2021	
SAMPLE DETAILS			
Customer Ref. No.	WS203-00004, DATED: 10.03.2021		
Customer Sample Id / Sampling Location	FAD Electrical		
Sample Type	Used Oil		
Sample Collected By	Laboratory Chemist		
Packing Of Sample	Plastic Bottle (Sealed)		
Quantity received	Approx. 250 ml		

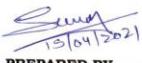
TEST REPORT				
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	RESULT
1	Iron as Fe	mg/kg	USEPA METHOD-1311	N.D.
2	Manganese as Mn	mg/kg	USEPA METHOD-1311	76.2
3	Zinc as Zn	mg/kg	USEPA METHOD-1311	6.8
4	Lead as Pb	mg/kg	USEPA METHOD-1311	2.6
5	Cadmium as Cd	mg/kg	USEPA METHOD-1311	1.14
6	Copper as Cu	mg/kg	USEPA METHOD-1311	0.24
7	Tin as Sn	mg/kg	USEPA METHOD-1311	N.D.
8	Chromium as Cr	mg/kg	USEPA METHOD-1311	7.8
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/l: milligram per liter, N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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- 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