MSP METALLICS LIMITED

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MSPML/IRO-MoEF&CC/2023-24/1-E/0158 31st May 2023

To,
The Dy. Director General of Forest (Central),
Ministry of Environment, Forests and Climate Change, Govt. of India,
Integrated Regional Office, A/3 Chandrashekharpur,
Bhubaneswar, Odisha - 751023
E-Mail: roez.bsr-mef@nic.in

Sub.: Expansion of integrated steel plant, Sponge Iron (10,50,000 TPA); Pig Iron (10,60,000 TPA); Pellet Plant (6,00,000, TPA); Steel Melting Shop (10,50,000 TPA); Captive Power Plant (85 MW); Coal Washery (15,00,000 TPA) and Coke Oven Battery (6,00,000 TPA) at Village Marakuta, District – Jharsuguda, Orissa - Submission of half yearly (June 1st 2023) EC Compliance Status Report for the period of October 2022 to March 2023

Ref.: EC issued vide letter no. J-11011/494/2007-IA-II (I) dated 13/07/2009

Dear Sir.

With reference to the above, we are submitting herewith the half yearly report on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data for the period of October 2022 to March 2023 for your kind information and necessary record, please.

The softcopy of the same is being mailed to the email id: roez.bsr-mef@nic.in.

Thanking you,

Yours faithfully, For MSP Metarus

J P Sharma

Executive Director (Werks)

ARSUGUDA

Encl.: As above

CC: 1. The Central Pollution Control Board, Zonal Office, Southern Conclave, Block - 502, 5th & 6th Floors, 1582 Rajdanga Main Road, Kolkata -700107

 The Member Secretary, State Pollution Control Board, Odisha, A/118, Nilakantha Nagar, Unit - VIII, Bhubaneswar, Odisha - 751012

Half yearly compliance reports of the conditions stipulated in Environmental Clearance accorded by MoEFCC, Govt. of India vide F. No. J-11011/494/2007-IA-II (I) dated 13th July 2009

Project Proponent: M/s MSP Metallics Limited

Name of the project: Expansion of integrated steel plant, Sponge Iron

(10,50,000 TPA); Pig Iron (10,60,000 TPA); Pellet Plant (6,00,000, TPA); Steel Melting Shop (10,50,000 TPA); Captive Power Plant (85 MW); Coal Washery (15,00,000 TPA) and Coke Oven Battery (6,00,000

TPA) at Village Marakuta, District - Jharsuguda, Orissa

Period of compliance: October 2022 to March 2023

S. No.	Specific Conditions	Status of Implementation
i à	SANDES SERVINO ANTINA	To reduce RSPM levels in the ambient air the following steps taken: 1. Internal roads are either black topped or concreted. 2. 50 numbers of both fixed type and portable sprinklers are installed. 3. Four numbers of rain guns are installed. 4. We have installed 10 nos. of rotary type water sprinklers with range of 50 m throw at coal and iron ore stockyard to control fugitive emission. 5. Fog mist canon system is available. 6. 33% of the total plant area has already been developed as greenbelt. However, existing greenbelt is being strengthened to increase the density as well as gap filling. Total 250 Nos of saplings have been planted during the period of October 2022 to March 2023. 7. In addition, Bag Filters and ESPs are provided to keep the emission levels below CTO permissible limit. 8. At no time, the emission level is going

beyond the prescribed standards.

- We have the SOP for reduction of raw material feeding in case emission level is going to exceeds 75% of the limit instead of shutting down the process unit.
- 10.Continuous stack emission monitoring facilities for PM, SO₂, NOx for all the stacks of operating units have been replaced and installed as per CPCB Guidelines. Connectivity of Continuous stack emission monitoring system with Odisha State Pollution Control Board has been done (https://ospcb-rtdas.com/#/publicPortal/

industryDetails/site_4111/IRON%20AN D% 20STEEL) and approval of the staion with CPCB server is in progress. Screenshot of the State Pollution Control Board, Odisha monitoring data acquisition system is attached as Annexure-I.

11.02 nos. of ambient air quality monitoring System (Beta Attenuation) have been provided. Also, final stage negotiation is going on with the vendors for supply of 04 nos. of USEPA/MCERTS approved CAAQMS.



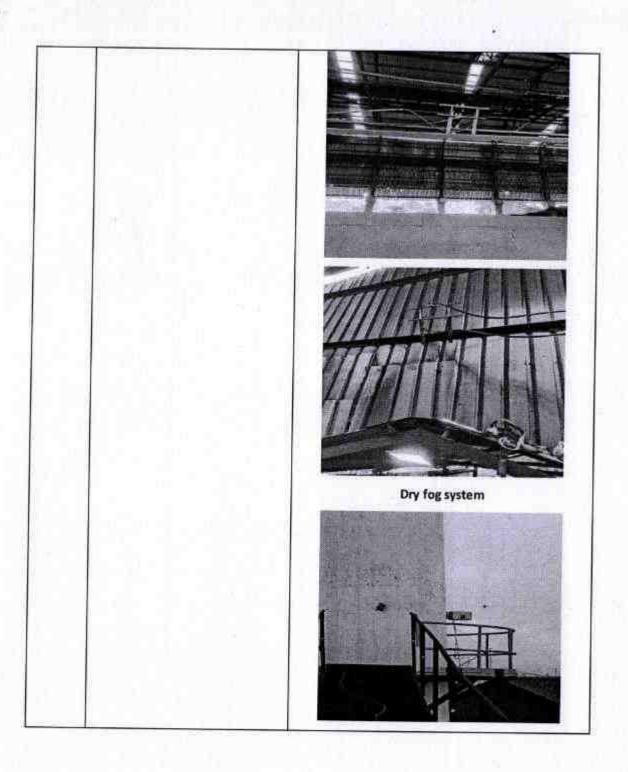


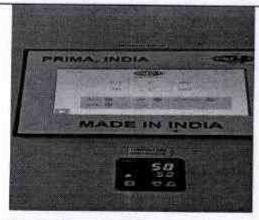


Fixed rotary type water sprinklers



Mechanized wheel washing system





Online Continuous Emission Monitoring System (CEMS)



IP Camera



Digital display at main gate

Hot gases from DRI kiln shall be passed through 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. Electrostatic Precipitator (ESP) shall be provided to DRI plant, WHRB and FBB boilers to control air emissions within 100 mg/Nm3. Gas cleaning plant comprising of bag filters cyclones shall be

- In each of DRI Kiln, Dust Settling Chambers (DSC) and After Burning Chamber (ABC) are provided.
- Waste Heat Recovery Boiler (WHRB) are also installed at each DRI Kiln followed by ESPs.
- The clean gas is then being emitted out from ESP Outlet both in WHRB and AFBC boilers into the atmosphere through ID fan and stack to control air emissions within CTO permissible limit.

Flue gas emission analysis report for the period of October 2022 to March 2023 is enclosed as **Annexure-II**.

provided to blast furnace (BF). Fume extraction system with bag filters shall be provided induction furnace and ladle refining furnace to control fugitive emissions. Dust extraction system along with ESP and multicyclones shall be provided to pellet plant, ESP and bag filters shall provided to sinter plant. Fume extraction system followed by a stack shall be provided to continuous casting machine. Bag filters and dust suppression system shall provided at coal crushing and handling areas.

- Gas Cleaning Plant comprising of Bag Filters and Cyclones has been provided in Blast Furnace (BF).
- 01 no. of wet scrubber unit of capacity 64,000 Nm³/hr has been installed in BF plant to control gaseous emission before discharging to atmosphere through the chimney.
- · Presently the BF is not operational.
- The slag generated from BF will be taken to Slag Granulated plant wherein the slag will be granulated and will be supplied to the local cement manufacturers/ associate company of the Group.
- 100% of granulated slag will be used for cement making.

iii)

ii)

In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive dust emission from raw material product handling section shall be controlled by dust extraction systems with bag filters or by water sprinkling. Dust extraction system with bag filters shall be provided at all the material transfer points. Dust suppression system with water sprinklers shall provided at raw material stockpiles and loading/ unloading points. Fume extraction system followed by a stack shall be provided to continuous casting machine. Dust extraction system shall be provided at cooling discharge house, product separation unit. Water sprinkling system and dust extraction system shall be provided at raw material sizing and handling areas. All conveyors shall be completely covered by GI sheets. Bag filters and dust suppression system shall provided at coal crushing and handling areas.

- In-plant control measures taken for checking fugitive emissions are as follows.
 - i. 50 numbers of fixed rotary type water sprinklers have been installed for regular spraying of water on all internal roads, raw material handling area and solid waste dumping area to prevent dust nuisance.
- ii. In addition, water sprinkling on internal roads and village roads in immediate vicinity are also carried out manually with the help of 01 no. of water tanker of capacity of 5.0 KL and another water tanker of capacity 12 KL.
- Dry Fog system provided at the Coal handling area as standby measures.
- iv. All the main internal roads used for movement of Vehicles have been concreted and most of the branch roads are also concreted that used for pedestrian. It helps in controlling fugitive emission from Vehicular movement.
- Fixed type water sprinklers at appropriate locations are provided.
- vi. Four numbers of rain guns are installed.
- Plantation with local species has been done along compound wall, around raw material handling area, along internal roads, around waste disposal site.
- 2. Installation of ESP
 - All the installed and operating DRI kilns are provided with WHRB and ESPs.
- AFBC based CPP is also provided with ESP.

iv)

- ESP connected to Rotary Drum of Pellet Plant.
- 3. Details of bag filters installed
- Total 11 (Eleven) numbers of Bag Filters provided for 8 X 100 TPD DRI to cover Coal Circuit, Iron Ore Circuit, Stock House (Day Bin), Cooler Discharge, Intermediate Bin, Product House and Coal Crusher.
- ii. 01 (One) Common Bag Filter of capacity 35,000 Nm³ per Hr with stack height of 25 mtrs is connected to the Swivelling Hoods of 2 X 30 TPH Induction Furnaces in SMS.
- Gas Cleaning Plant (GCP) of capacity 64,000 Nm³ per Hr with stack height of 33 metres has been provided at Blast Furnace.
- Pollution control measures in Sinter Plant
 - O1 (One) no. of multi cyclone of sintering process of capacity 2,40,000 Nm³ per Hr is connected to process section.
- O1 (One) no. Bag Filter of capacity 2,10,000 Nm³ per Hr is provided at flux area of Sinter Plant.
- O1 (One) no. Bag Filter of capacity 1,20,000 Nm³ per Hr is provided at discharge end of Sinter Plant.
- One no. Bag Filter of capacity 24,000 Nm³ per Hr is attached to the stack of Coal Pulverizing Unit of Pallet Plant
- One no. Bag Filter of capacity 26,000 Nm³ per Hr is attached to the stack of Coal Handling Plant of Coal Washery.
- Regular monitoring of fugitive emissions is carried out by NABL accredited laboratory (copy enclosed as Annexure-III).

	v)	All the standards prescribed for the coke oven plants shall be followed as per the latest guidelines. Proper and full utilization of coke oven gases in power plant using waste heat recovery steam generators shall be ensured and no flue gases shall be discharged into the air.	The coke oven unit is not in operation since April, 2013. The said condition shall be complied one the coke oven plant comes in operation.
	vi)	Gaseous emission levels including secondary fugitive emissions from blast furnace and sinter plant shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed. The emission standards issued by the Ministry in May, 2008 for the sponge plants shall be followed.	the Ministry and will be regularly monitored. Guidelines/ Code of Practice issued by the CPCB will be followed. • Emission level from Sinter plant is controlled within the latest permissible limits issued by the Ministry and will be regularly monitored. • Guidelines/Code of Practice issued by the CPCB are followed. • The emission standards issued by the Ministry in May 2008 for the spenger.
	vii)	Vehicular pollution due to transportation of raw material and finished product shall be controlled. Proper arrangements should also be made to control dust emissions during loading and unloading of the raw	We are allowing all the vehicles inside the plant premises having valid PUC. At places display boards have also been provided as indicative of speed regulation inside the plant so that dust generation can be controlled.

material and finished product. As proposed, total water requirement from IB River Permission for drawl of surface water shall not exceed 10,271 from Hirakud Reservoir m³/dav. Ground water (upstream of IB River) has been issued requirement shall not by the Water Resources Department vide exceed the limit permitted letter no. 18396/WR dated 08/07/2013 by the CGWA vide letter for 4.068 cusec or 9984 CUM per day. No. 21-4 Presently, water for potable use and (51)/SER/CGWA/07-262 dated 7th May, 2007. Industrial uses is drawn underground sources having valid NOC Closed-circuit re-circulation from CGWA vide Order no. system shall be installed to CGWA/NOC/IND/ORIG/2022/14872 and reduce fresh water it is valid from 07/02/2022 for 490 consumption and no m3/Day. wastewater generation. Water from ash dyke shall Closed-circuit system has been provided be decanted and collected in plant and no wastewater/effluent is in the reservoir and rebeing or will be discharged into any main circulated/reused for ash course. handling and coal dust There is provision of treatment of waste suppression in coal yard. viii) water and re-used of treated water in the Acidic and alkaline effluent process for water used for other from DM water plant shall process and dust suppression. be neutralized and reused in the plant. Cooling tower Waste water generated from raw water blow down shall be reused treatment system and back wash of for dust suppression. BFfiltration plant are properly treated and GCP and coal washery subsequently taken to guard pond and water shall be treated in re-use specifically dust suppression. thickener and reused in Thus, no wastewater is discharged the process. Oil and grease outside the Premises and zero effluent shall be removed from discharge is ensured. wastewater by means of Presently the domestic effluents are oil traps and skimming treated in septic tanks (15 nos. at devices. All the wastewater different location within the plant from process and domestic premises) followed by soak pits so as to sources shall be treated meet the prescribed standard of the and recycled and reused in Board. the process or for dust suppression, green belt development and various other activities at the site.

	No wastewater 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 and used for green belt development.	
ix)	Prior permission for the drawl of 10,271 m³/day water from IB River from the concerned department shall be obtained.	by the Water Resources Department vide letter no. 18396/WR dated 08/07/2013
×)	The water consumption should not exceed 16 m³/Ton of Steel as per prescribed standard.	We abide by the said norms.
xi)	Groundwater monitoring around the solid waste disposal site/secured landfill (SLF) shall be carried out regularly and report submitted to the Ministry's Regional Office at Bhubaneswar, CPCB and OPCB.	Is being complied with. Copy of the ground water monitoring is enclosed as Annexure-IV.
xii)	DRI & iron ore fines, coke breeze, sinter dust, GCP dust, SMS dust, shall be used in sinter plant. All the other solid wastes including broken refractory mass shall be properly disposed off in environment-friendly manner. Sludge from sewage treatment plant	 We have installed a Sinter Plant of Capacity 4.6 LTPA and it is operational. Waste from DRI & Iron ore fines, coke breezes, sinter dust, GCP dust, SMS dust, are and will be used in sinter plant. All the other solid wastes including broken refractory mass are and will be properly disposed off in environment-

	(STP) shall be used as compost. Oily waste shall be provided to Authorized Cyclers/Re-processors.	1
xiii)	AFBC plant shall be installed in Phase II before installation of sponge iron plant during expansion so that utilization of char in the from the existing as well as proposed sponge iron plant in AFBC boiler is ensured. All the char from DRI plant, coal fines, middlings and rejects from the coal washery shall be utilized in AFBC boiler of power plant and no char shall be disposed off anywhere else. All the blast furnace (BF) slag shall be granulated and provided to cement manufacturers for further utilization. Dust from ESP, bag filter, wet scrapper, kiln accretions, slag from IF, EAF, LRF and SMS shall be properly utilized or disposed off in environment-friendly manner.	 AFBC plant of capacity of 16 MW has already been installed and dolo-char is used in AFBC Boiler. Coal washery of capacity 7 LTPA has been installed but not in operation as it is not economically viable in the market. No char is disposed off anywhere else. Presently the BF is not operational. Blast Furnace Slag will be granulated and to be provided to cement manufacturers for further utilization. Dust from ESP, bag filter, wet scrapper, kiln accretions, slag from IF, EAF, LRF and SMS will be properly utilized or disposed off in environment-friendly manner.
xiv)	All the slag shall be used for road making or filing low-lying area only after passing through Toxic Chemical Leachability Potential (TCLP) test. Otherwise, slag and output waste shall be disposed in	New management of the company has resumed operations of Steel melting shop after obtaining consent to operate (Order No. 550/IND-I-CON-5973, dated 07.01.2023) from OSPCB. We agree to abide by the condition.

	secured landfill as per CPCB guidelines.	
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 of solid/hazardous waste shall be submitted to the Ministry's Regional Office at Bhubaneswar, CPCB and OPCB.	New management of the company has resumed operations of the plant in phased manner after obtaining consent to operate (dated 17.08.2022, 07.01.2023 & 22.03.2023) from OSPCB. We agree to abide by the condition. Proper handling, storage, utilization and disposal of all the solid waste will be ensured and regular report regarding toxic metal content in the waste material and its composition, end use of solid/hazardous waste shall be submitted to the Ministry's Regional Office at Bhubaneswar, CPCB and OPCB from the next compliance cycle i.e. December 2023.
xvi)	A time bound action plan shall be submitted to reduce solid Waste, its proper utilization and disposal.	We have already optimised the generation of final solid wastes from our plant by keeping provision of using all solid wastes generated in other units in our Sinter Plant Process. • However still we are exploring further possibilities of reduction of Final Solid Waste generation to the Maximum extent possible by process optimization improving raw materials fuel etc.
xvii)	Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding shall be submitted to the Ministry's Regional Office at Bhubaneswar.	 Utilization of fly ash will be ensured as per Fly Ash Notification, 1999 and subsequent amendments. All the fly ash shall be disposed at designated place inside the Plant premises and to cement and brick manufacturers.

As proposed, green belt shall be developed in 165 acres (33 %) out of total 500 acres land in and around the plant as per the CPCB guidelines in consultation with DFO.

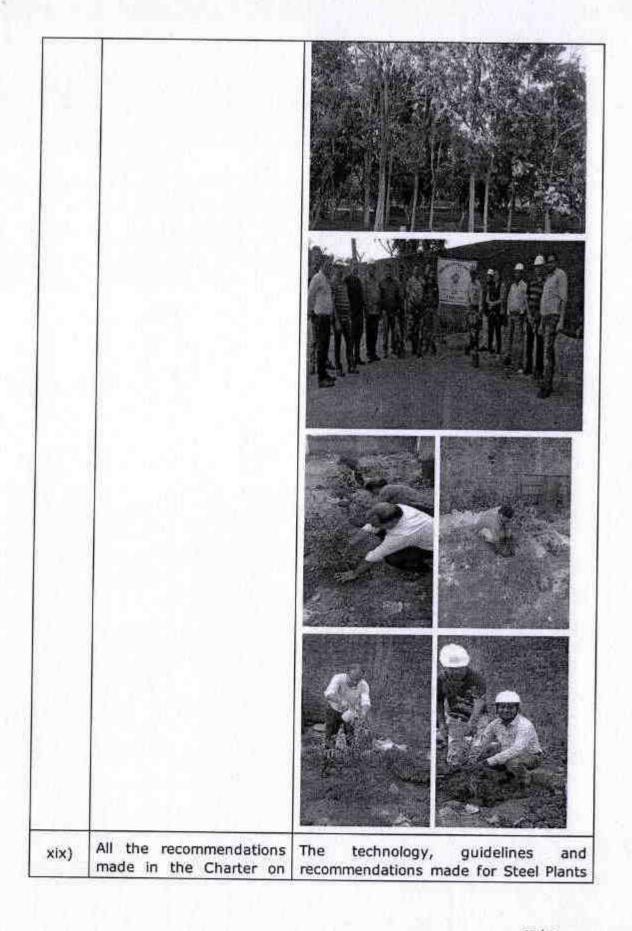
For the existing operational project, an area 34.72 Hectares (85.8 Acres) of total plant area 105.218 Hectares (260 Acres) has been earmarked for greenbelt development/plantation. An area of around 34.72 Hectares (85.8 Acres) i.e. 33% has already been covered under greenbelt with total 51,730 nos. of trees. Existing Greenbelt/plantation will be strengthened and to minimize the impact on human and sensitive manmade structure tree density of the existing greenbelt will be increased to at least 2,500 trees per hectare as per CPCB guideline.

The management had planted 250 nos. trees during October 2022 to March 2023 along the boundary wall as well plantations within the plant areas at different locations such as along the road, around Waste Disposal areas, Raw Material storage area, and open spaces around different facilities.

Few photographs are given below.



xviii)



	Corporate Responsibility for Environment Protection (CREP) for the Steel Sector shall be implemented.	implemented. Details of implementations
xx)	All the commitments made to the public during the Public Hearing/Public Consultation meeting held on 7th November 2008 shall be satisfactorily implemented.	Company believes in growth with a human face and pursuing people-centered development. company is a socially committed organization and a socially responsible corporate citizen. It attaches great importance to discharging its overall social responsibilities to the community and the society at large where its project is located. An amount of ₹ 1.185 crores has been spent under CSR by previous management of M/s MSP Metallics Limited as mentioned in minutes of 22nd reconstituted expert appraisal committee (industry) held on 28th-29th august 2014.
xxi)	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.	Complied.
	General Conditions	Status of Compliances
Ŋ	The project authorities must strictly adhere to the stipulations made by the Orissa Pollution Control Board (OPCB) and the State Government.	We are abiding by the stipulations made by the Odisha State Pollution Control Board, (OSPCB) and the State Government of Odisha. In this connection valid CTO has been obtained from OSPCB.

11)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Prior approval of the Ministry will be obtained in case of any deviation/modification or expansion in the plant is envisaged in future. In compliance to this condition, we have obtained TOR for expansion of Integrated Steel Plant (1.05 To 1.7 million TPA Finished Steel) with 275 MW Captive Power Plant by addition of some facilities and by revamping, augmentation, up gradation/ modification of existing technologies & facilities and increasing annual working days of some of the EC accorded facilities vide letter No. IA-J-11011/494/2007-IA-II(I) dated 28.09.2022. Copy of the standard TOR is enclosed as Annexure-VI .
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 Orissa Pollution Control Board (OPCB) may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.	We ensure to conform to the load/mass based standards notified by the Ministry on 19th May 1993 and standards prescribed from time to time regarding the gaseous emissions being emitted from various process units of our Company. We also ensure to conform the respective standards that to be specified by The Odisha State Pollution Control Board (OSPCB).
iv)	At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO ₂ and NO _x are anticipated in consultation with the OPCB. Data on ambient air quality and	Four (04) numbers of Ambient Air Quality (AAQ) Monitoring stations were in place but not meeting USEPA/MCER) norms and become obsolete. The same is being replaced with 02 nos. of AQMS (BETA) attenuation Technology. Also, final stage negotiation is going on with the vendors for supply of 04 nos. of USEPA/MCERTS approved CAAQMS. Environmental parameters monitoring for

	stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and OPCB, CPCB once in six months.	are being carried out by a NABL Accredited Laboratory.
v)	In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Further, specific measures like water sprinkling around the coal stockpiles and asphalting or concreting of the roads shall be done to control fugitive emissions.	In-plant control measures taken for checking fugitive emissions has been provided in Point no. i & iv of specific condition.
vi)	Industrial wastewater 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 wastewater shall be utilized for plantation purpose.	Industrial wastewater is 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 wastewater is being utilized for different purposes such as plantation, sprinkling on road & raw material yard etc. The abstract of wastewater analysis report for the period of October 2022 to March 2023 is enclosed Annexure-VIII.
vii)	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	We are slowly replacing the old Equipments and also overhauling the machineries as per the need. We have taken the following measures at most noise generating areas; • Installation of enclosures (Acoustic Enclosure) around noise generating

	sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	noise emitted into the workplace or environment. • Damping of Machines.
viii)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Occupational health surveillance programme of all permanent and contractual workers is being done-regularly as per factory act and record is maintained. Copy of health register is enclosed as Annexure-X .
ix)	The company shall develop rainwater-harvesting structures to harvest the rainwater for utilization in the lean season besides recharging the ground water table.	01 number of Rainwater harvesting systems with settling pond has been implemented to harvest rainwater and is utilized for sprinkling, plantation.
x)	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 socio- economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc. Suggestions made during the public hearing shall be	Is being complied with. All the environmental protection measures and safeguards as recommended in the EIA/EMP report for consideration the EC as well as socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care etc has been/will be carried out in a time bond manner.

	implemented.	
xi)	As proposed, Rs. 12.89 Crores and Rs. 0.14 Crores shall be earmarked towards total capital cost and recurring cost/annum for environmental pollution control measures shall be judiciously utilized to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.	Adequate fund towards capital & recurring has been earmarked and the fund earmarked will not be diverted/ utilized for any other purposes.
xii)	The Regional Office of this Ministry at Bhubaneswar/CPCB/ OPCB shall monitor the stipulated conditions. A six-monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	Noted. Six-monthly compliance report and the monitored data along with statistical interpretation is being submitted regularly to the Regional Office of the Ministry at Bhubaneswar/CPCB/OPCB. Please refer our letter no. MSPML/IRO-MoEF&CC/2022-23/1-E/109, dated: 1st December 2022 for half yearly compliance report for the period of April 2022 to September 2022.
xiii)	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 OPCB and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in. This shall be advertised within	Complied. It has already been published in Odia Daily "Pragatibadi" and English Daily "The Pioneer" on dated 01.09.2009.

	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 Bhubaneswar	
xiv)	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.	The company is a private company and no finance is needed from outside. Land development word had been started after obtaining Consent to establish from State Pollution Control Board, Odisha.
xv)	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Paris had/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
xvi)	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of	We abide by the condition.

	monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	
xvii)	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 SPCB.	Is being complied with. Please refer our letter no. MSPML/IRO-MoEF&CC/2022-23/1-E/109, dated: 1* December 2022 for half yearly compliance report for the period of April 2022 to September 2022.
xviii)	The environmental statement for each financial year ending 31st 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)	M/s MSP Metallics Limited has been purchased/acquired by M/s Orissa Metaliks Private Limited (OMPL) on "assets sale basis" under liquidation under the order (I.A No. 616/KB/2022) connected with CP (IB) No. 580/KB/2020 of the National Company Law Tribunal (NCLT) Kolkata bench, Kolkata after being a 'Successful Bidder' on relation to E-Auction held on 06.05.2022.

	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.	New management of the company has resumed operation in October, 2022 after obtaining CTO in August 2022 after 6 years of long shut down of the plant. The Environmental Statement in Form-V for the FY 2021-2022 (nil Returns) was submitted to OSPCB vide. our letter no. 29th September 2022. Further, we will submit the Environmental Statement in Form-V for the FY 2022-2023 to OSPCB as well as Regional Office of the MoEFCC on or before September 30th, 2023 and also put on the company's website.
Clause No. 7	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed and noted.
Clause No. 8	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Agreed and noted for compliance.
Clause No. 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.	Noted.
Clause No. 10	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act,	Noted.

1974, the Air (Prevention & Control of Pollution) Act. 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules, 2003 and Public the (Insurance) Liability Act, 1991 along with their amendments and rules.

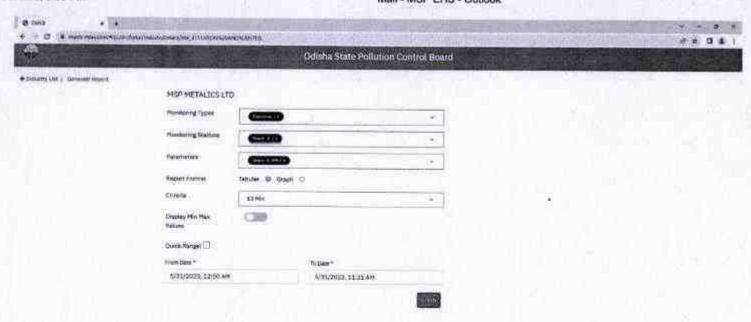
(ODISHA)

Thanking you, With sincere regards,

For, MSP Metallics Limited's

(J. P. Sharma)

Executive Director (Works





Environmental Research and Services (India) Pvt. Ltd.

(An ISD/REC 17825 - 2017 (NABL) Accredited Enhancement (ISPEB Empanelled Enhancing and ISD 9991 : 2015 Certified Company)



Pg No. 1 of 1

Plot No: B-22, Sector-B, Industrial Estate Chandaka, Infocity Road, Bhubaneswar-751024, Odisha Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

ULR-TC7440220000000035F

Test Report Format No.: ERSIPL/FM/38

TEST REPORT (FLUE GAS)

Date: 31 Jan 2023 Test Report No: ERSIPL/TR/SE/004

Name and Address of the Customer MSP. Metallics Limited, Village: Marakuta, Tehsil:

Jharsuguda, Dist: Jharsuguda, Odisha

Sample Collected by Representative of ERS (I) Pvt. Ltd. Sample Collected in presence of Representative of the Customer.

Sample Received on 24.01.2023 Analysis Started on 24.01.2023 Analysis Completed on 31.01.2023

Method of Sampling Iso-kinetic CPCB(ER) 1985 Quantity of Sample \$3 01 sample for each parameter

Environment Condition All Tests carried out in Room Temperature

Sample ID. No.

Location ERSIPL/SE/012; dt. 13.01.2023 Stack attached to ESP of DRI Kiln - I & II ERSIPL/SE/013; dt. 13.01.2023 Stack attached to ESP of DRI Kiln - III & IV ERSIPL/SE/014; dt. 13.01.2023 Stack attached to ESP of DRI Kiln - V & VI 4. ERSIPL/SE/015; dt. 14.01.2023 Stack attached to ESP of DRI Kiln - VII & VIII ERSIPL/SE/016; dt. 14.01.2023 Stack attached to ESP of 16MW AFBC Boiler,

Test Parameters SO, in Particulate matter in mg/Nm³ mg/Nm1 Velocity Temp. Sample ID No. **Test Method** of Flue Analyzed result of flue Ē (600) without CO₁ Correction as per SPCB ermissible i gases in gases in rmissible (deg. C) mps * ERSIPL/SE/012 For PM IS:11255(Part-113.0 22.4135 41.31 < 100 100.0 XX 1):1985, Reaffirmed ERSIPL/SE/013 131.0 23.6148 42.77 < 100 100.0 XX 2019 for 50, IS:11255(Part-2):1985, ERSIPL/SE/014 127.0 22,8163 38.86 < 100 100.0 XX Reaffirmed 2019, ERSIPL/SE/015 137.0 22.7471 39.53 < 100 100.0 XX Barium Perchlorate ERSIPL/SE/016 Method 118.0 20.7791 40.41 XX. 50.0 52.51







Environmental Research and Services (India) Pvt. Ltd.

(OSPCB 'A' Category Empanelled Laboratory and ISO 9001: 2015 Certified Company)

Plot No: B-22, Sector-B, Industrial Estate Chandaka, Infocity Road, Bhubaneswar-751024, Odisha Tel: +91-9437021932, +91-9937690329, E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/38

TEST REPORT (FLUE GAS)

Pg.No: 1 of 1

Date: 31 Jan 2023

Test Report No: ERSIPL/TR/SE/T-004

Name and Address of the Customer

MSP Metallics Limited, Village: Jharsuguda, Dist: Jharsuguda, Odisha

Marakuta, Tehsil:

Sample Collected by Sample Collected in presence of

Representative of ERS (I) Pvt. Ltd. Representative of the Customer.

Sample Received on 24.01.2023 Analysis Started on 24.01.2023 Analysis Completed on 31.01.2023

Method of Sampling Quantity of Sample

Iso-kinetic CPCB(ER) 1985 01 sample for each parameter

Environment Condition All Tests carried out in Room Temperature

Sample ID. No.

Location

 ERSIPL/SE/012; dt. 13.01.2023 Stack attached to ESP of DRI Kiln - 1 & II ERSIPL/SE/013; dt. 13.01.2023 Stack attached to ESP of DRI Kiln - III & IV ERSIPL/SE/014; dt. 13.01.2023 Stack attached to ESP of DRI Kiln - V & VI ERSIPL/5E/015; dt. 14.01.2023 Stack attached to ESP of DRI Kiln - VII & VIII Stack attached to ESP of 16MW AFBC Boiler ERSIPL/SE/016; dt. 14.01.2023

			Test Parame	ters	
		Velocity	CO % (v/v)	NO ₂ in mg/Nm ³	Hg in mg/Nm ³
Sample ID No.	Temp. of Flue gases in (deg. C)	gases of flue	Analyzed result Permissible limit as per OSPCB (1.0)	Permissible limit as per SPCB (300) max	Permissible limit as per SPCB (0.03) max
ERSIPL/SE/012	113.0	22.4135	<0.02		1 0
ERSIPL/SE/013	131.0	23.6148	<0.02		
ERSIPL/SE/014	127.0	22.8163	<0.02	×	x
ERSIPL/SE/015	137.0	22.7471	<0.02	T.	
ERSIPL/SE/016	118.0	20.7791	-xx	145.0	<0.01

(Authorized Signatory) S.P.Pattanaysk Tech.Manager



Environmental Research and Services (India) Pvt. Ltd.

(An ISB/IEC 17025-2017 (MARL) Accredited Laboratory, 05PER Empanelled Laboratory and ISO 9001 : 2015 Certified Company)



Plot No: B-22, Sector-B, Industrial Estate Chandaka, Infocity Road, Bhubaneswar-751024, Odisha Tel: +91-9437021932, +91-9937690329, E-mail: ersibbsr@gmail.com

ULR-TC7440230000000034F

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Pg No: 1 of 1

Date: 31 Jan 2023

Test Report No: ERSIPL/TR/AA/015

Name and Address of the Customer

MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda,

Dist: Jharsuguda, Odisha

Sample Collected by

Representative of ERS (I) Pvt. Ltd.

Sample Collected in presence of

: Representative of the Customer.

Date of Sampling/Monitoring

14.01.2023

Sample Received on Analysis Started on

: 24.01.2023 : 24.01.2023

Analysis Completed on

31.01.2023

Method of Sampling

: ERSIPL/MSP/06

Quantity of Sample

: 01 sample for each parameter

Environment Condition

: Sunny

Sample ID. No.

Locations

- ERSIPL/AA/029 (Fugitive Emission)
- 1. Near Iron Ore Stock Yard
- 2. ERSIPL/AA/030 (Fugitive Emission)
- Near Coal Stock Yard
- 3. ERSIPL/AA/031 (Fugitive Emission)
- 3. Near RMHS
- 4. ERSIPL/AA/032 (Fugitive Emission)
- 4. Near Steel Melting Shop

TEST FINDINGS:

1	Permissible			Re	sults			
SI. No	Test Parameters	Test & Sampling method	Unit	Limit as per G.S.R 414 (E) dtd. 30.05.2008	ERSIPL /AA/ 029	ERSIPL /AA/ 030	ERSIPL /AA/ 031	ERSIPL /AA/ 032
1	Suspended Particulate Matter (SPM)	IS: 5182 (Part 4)- 1999, Reaffirmed 2019, Gravimetric Method	μg/m ³	2000.0	211.43	203.74	206.21	, 201.27

(Authorized Signatory) S.P.Pattanayak Tech.Manager

.....END OF TEST REPORT......



Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (MARL) Acception Enterprise Company)



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ULR-TC7440230000000040F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 31 Jan 2023

Test Report No: ERSIPL/TR/WA/021

Name and Address of the Customer

MSP Metallics Limited, Village: Marakuta, Tehsil: Iharsuguda,

Dist: Jharsuguda, Odisha

Date of Sampling

14.01.2023

Sample Collected by

Representative of ERS (I) Pvt. Ltd.

Sample Collected in presence of

Representative of the Customer.

Sample Received on Analysis Started on

24.01.2023

Analysis Completed on

24.01.2023 31.01.2023

Method of Sampling

IS 3025: Part 1: 1987, Reaffirmed 2019

Quantity of Sample

2ltrs

Type of Container

Glass Bottle & HDPE Bottle

Environment Condition

All Tests carried out in Room Temperature

Sample ID. No.

1. ERSIPL/WA/036 2. ERSIPL/WA/037

1. Bore Well Water- from Admin Office

TEST FINDINGS

	2, 80	re Weil	Water-	from I	Mechanical	Work Shop
--	-------	---------	--------	--------	------------	-----------

	190			Res	ult	Permissible
S. No.	Parameters Analyzed	Test Method	Unit	ERSIPL/ WA/ 036	ERSIPL/ WA/ 037	Limit as per 15:10500, 2012
01	pH	IS 3025:Part 11: 1983 Reaffirmed-2017	No	7.07	7.01	6.5-8.5
02	Turbidity	IS 3025:Part 10: 1984 Reaffirmed-2017	NTU	0.43	0.49	1.0
03	Total Hardness (as CaCO ₃)	IS 3025:Part 21: 2009 Reaffirmed-2019	mg/L	128.0	152.0	200.0
04	Iron (as Fe)	IS 3025:Part 53: 2003 Reaffirmed-2019	mg/L	0.07	0.07	0.30
05	Chloride (as CI)	IS 3025:Part 32: 1988 Reaffirmed-2019	mg/L	25.62	30.55	250.0
06	Total Dissolved Solids	IS 3025: Fart 16: 1984 Reaffirmed-2017	mg/L	233.5	284.0	500.0
07	Calcium (as Ca)	IS 3025:Part 40: 1991 Reaffirmed-2019	mg/L	34.47	36.07	75.0
08	Sulphate (as SO ₄)	IS 3025 Part 24: 1986 Reaffirmed-2019	mg/L	7.95	20.13	
09	Fluoride (as F)	IS 3025:Part 60; 2008 Reaffirmed-2019	mg/L	<0.1	<0.1	1.0
10	Alkalinity (as CaCO ₁)	15 3025;Part 23: 1986 Reaffirmed-2019	mg/L	290.0	242.0	200.0

(Authorized Signatory) S.P.Pattanayek Tech. Manager

..... END OF TEST REPORT......





Environmental Research and Services (India) Dvt. Ltd.

(OSPCB 'A' Category Empanelled Laboratory and ISO 9001: 2015 Certifled Company)

Plot No: B-22, Sector-B, Industrial Estate Chandaka, Infocity Road, Bhubaneswar-751024, Odisha Tel: +91-9437021932, +91-9937690329, E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 31 Jan 2023

Test Report No: ERSIPL/TR/WA/T-021

Name and Address of the Customer

: MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist:

Jharsuguda, Odisha

Date of Sampling

: 14.01.2023

Sample Collected by Sample Collected in presence of Representative of ERS (I) Pvt. Ltd. Representative of the Customer.

Sample Received on Analysis Started on : 24.01.2023 : 24.01.2023

Analysis Completed on

: 31.01.2023

Method of Sampling Quantity of Sample IS 3025: Part 1: 1987, Reaffirmed 2019

Type of Container

2ltrs

Environment Condition

Glass Bottle & HDPE Bottle
All Tests carried out in Room Temperature

Sample ID. No.

Locations

ERSIPL/WA/036
 ERSIPL/WA/037

Bore Well Water- from Admin Office
 Bore Well Water- from Mechanical Work Shop

TEST FINDINGS

	Parameters	Parameters Test Method Analysed		Re	sult	Permissible Limit
SI	A SECOND CONTRACTOR OF THE PERSON OF THE PER		Unit	ERSIPL/ WA/ 036	ERSIPL/ WA/ 037	as per IS:10500, 2012
01	Colour	IS 3025:Part 04: 1983 Reaffirmed-2017	Hazen	<5.0	<5.0	5.0
02	Odour	tS 3025:Part 05: 1983 Reaffirmed 2017		А	Α	Agreeable (A)
03	Taste	15 3025:Port 07,08: 1984 Reaffirmed-2017	-	A	А	Agreeable (A)
04	Nitrate as NO ₃	15 3025:Part 34: 1983 Reaffirmed-2019	mg/L	<5.0	<5.0	45.0
05	Residual Free Chlorine	IS 3025 Part 26: 1986 Reaffirmed-2019	mg/L	Nil	Nil	0.2 (min) When chlorinated
06	Copper	15 3025:Part 42: 1992 Reaffirmed-2019	mg/L	ND	ND	0.05
07	Manganese	15 3025:Part 59: 2006 Reaffirmed-2017	mg/L	ND	ND	0.1
08	Phenolic Compound	15 3025:Part 43: 1992 Reaffirmed-2019	mg/L	ND	ND	0.001
09	Mercury	I5 3025:Part 48: 1994 Reaffirmed-2019	mg/L	ND	ND	0.001
10	Cadmium	IS 3025:Part 41: 1992 Reaffirmed-2019	mg/L	ND	ND	0.003





Environmental Research and Services (India) Pvt. Ltd.

(OSPCB 'A' Category Empanelled Laboratory and ISO 9001: 2015 Certified Company)

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Pg No: 2 of 2

						T 11 7
11	Selenium -	(\$ 3025:Part 56: 2003 Reaffirmed-2019	mg/L	ND	ND	0.01
12	Total Arsenic	i5 3025:Part 37: 1988 Reaffirmed-2019	mg/L	ND	ND	0.01
13	Cyanide	IS 3025 Part 27: 1986 Reaffirmed 2019	mg/L	ND	ND	0.05
14	14 Lead IS 3025/Part 47: 1994 Reaffirmed 2019		mg/L	ND	ND	0.01
15	Zinc	IS 3025 Fart 49: 1994 Reuffirmed-2019	mg/L	NO	ND	5.0
16	6 Anionic 15 13428 :2005 detergents Reaffirmed-2019		mg/L	ND	ND	0.2
17	Total Chromium	IS 3025:Part 52: 2003 Reaffirmed-2019	mg/L	ND	ND	0.05
18	Polynuciear 3 aromatic APHA 6440 hydrocarbons		mg/L	ND	ND	0.0001
19	Mineral Oil	IS 3025:Part 39: 1991 Reaffirmed-2019	mg/L	ND	ND	0.5
20	Pesticides	USEPA gas-liquid chromatography	mg/L	ND	NO	STE
21	Aluminium is 3025-Part 55: 2003 Reaffirmed-2019		mg/L	ND	ND	0.03
22	Boron	IS 3025:Part 57: 2005 Reaffirmed-2017	mg/L	ND	ND	0.5
23	Nickel	15 3025:Part 54: 2003 Reaffirmed-2019	mg/L	ND	ND	0.02

ND-Not Detected

(Authorized Signatory) S.P.Pettanayak Tech.Manager

...END OF TEST REPORT....





Environmental Research and Services (India) Pvt. Ltd.

(OSPCB 'A' Category Empanelled Laboratory and ISO 9001: 2015 Certified Company)

Plot No: B-22, Sector-B, Industrial Estate Chandaka, Infocity Road, Bhubaneswar-751024, Odisha Tei: +91-9437021932, +91-9937690329, E-mail: ersibbsr@gmail.com

DEPTH OF GROUND WATER TABLE

Date: 31 Jan 2023

Name and Address of the Customer

MSP Metallics Limited, Village: Marakuta, Tehsil:

Jharsuguda, Dist: Jharsuguda, Odisha

Date of Measurement

14.01.2023

Measurement taken by

: Representative of ERS (I) Pvt. Ltd.

Measurement taken in presence of

Representative of the Customer

SI. No.	Location	Depth - (Below surface level in meter)
01	Bore Well near Admin Office	20.53
02	Bore Well near Mechanical Work Shop	27.92

(Authorized Signatory) S.P.Pattanayak Tech.Manager

.....END OF TEST REPORT.....

Plan for implementation of recommendations mentioned in Charter on Corporate Responsibility for Environmental Protection (CREP) For Integrated Iron & Steel Industry

S. No.	Recommendation	Plan for Implementation
1.	three years. Industry will	For the existing coke over plant, latest available technology has been adopted to meet the emission standard.
2.	Steel melting shop To reduce the fugitive emissions	MSPML has installed spark arrestor system and reverse bag filter of sufficient capacity and will be connected to MS stack of 35 m height for better dispersion of pollutant.
3.	Blast Furnace Direct inject of reducing agents.	Presently the Blast furnace is not in operation. Direct injection of reducing agents will be ensured during operation of blast furnace.
4.	Solid waste/Hazardous Waste management Utilisation of Steel Melting Shop (SMS)/ Blast Furnace (BF) Slag.	100% of the SMS slag will be given for metal recovery, converted to aggregates (special balls) and used in road making. The BF slag will be ground and used for cement manufacturing in the proposed cement grinding unit.
5.	Water conservation/water pollution To reduce specific water	Not applicable.

S. No.	Recommendation	Plan for Implementation
	 consumption for long products. To operate CO-BP effluent treatment plant efficiently to achieve the notified effluent discharge standards. 	(1.7.50) (1.
6,	Installation of Continuous Stack Monitoring system and its calibration in major stacks and setting up of the online ambient air quality monitoring stations.	The company has successfully installed online Stack monitoring in existing operation stacks. O4 Nos. Online continuous air quality monitoring stations shall be installed after getting site approval from OSPCB. (PM10, PM2.5, SO2, NO2, CO).
7.	To operate the existing pollution control equipment efficiently and to keep proper record of run hours, failure time and efficiency with immediate effect. Compliance report in this regard be submitted to CPCB/SPCB.	Existing pollution control equipment are being operated efficiently and regular record maintained. The records will be submitted to the SPCB at regular intervals.
8.	To implement the recommendations of Life Cycle Assessment (LCA) study sponsored by MoEF.	The recommendations of MoEFCC shall be implemented on complete installation of all the plant facilities.
	The industry will initiate the steps to adopt the following clean technologies/measures to improve the performance of industry towards production, energy and environment.	÷±
9	 Energy recovery of top Blast Furnace (BF) gas. 	Blast fumace gas will be recovered through BF Stove Gas Recovery System and consumed in Sinter & Pellet plant.
	 Use of Tar-free runner linings. 	Fire clay bricks are in use for

	Recommendation	Plan for Implementation
E		the runners.
٨	De-dusting of Cast House at tap holes, runners, skimmers ladle and charging points.	De dusting units shall be operational at various locations in cast house.
A	Suppression of fugitive emissions using nitrogen gas or other inert gas.	This shall be carried out in the applicable equipment.
Α	To study the possibility of slag and fly ash transportation back to the abandoned mines, to fill up the cavities through empty railway wagons while they return back to the mines and its implementation.	The slag generated from MBI and fly ash from CPP will be used in cement manufacturing. The slag generated from the SMS plant will be used for road making, paver block making and land leveling after recovering valuable metal from slag crushing unit.
*	Processing of the waste containing flux & ferrous wastes through waste recycling plant.	A modern State of Art of Technology of Sinter Plant has been installed for reuse of waste materials. Maximum Generated Solid wastes will be reused in different units such as pellet dusts will be used in Sinter Plant, Granulated MBF slag will be used in Cement Plant, Dust from Sinter plant re used in Sinter plant.
>	To implement rainwater harvesting.	Rainwater harvesting pond has been constructed in existing plant.
2. 3.	consumption Use of by-products gases for power generation Promotion of Energy	The power use will be reduced through energy conservation measures on commencement of operation. DRI exhaust is used for power generation. Energy auditing will be

S. No.	Recommendation	Plan for Implementation
	including energy audit	carried out periodically.
	To set targets for Resource Conservation such as Raw material, energy and water consumption to match International Standards.	The company's management has adopted adopt eco-friendly (i.e. 3 R's, Reduce, Recycle & Reuse) philosophy for day to day plant operations.
	Up-gradation in the monitoring and analysis facilities for air and water pollutants. Also, to impart elaborate training to the manpower so that realistic data is obtained in the environmental monitoring laboratories.	A state of the art laboratory will be established for analysis. Elaborate training to the manpower and establishment of laboratory will be carried out as required.
	> To improve overall housekeeping.	Action taken by company for improvement of housekeeping and controlling emission are: a) 50 numbers of fixed rotary type water sprinklers have been installed for regular spraying of water on all internal roads, raw material handling area and solid waste dumping area to prevent dust nulsance. b) In addition, water sprinkling on internal roads and village roads in immediate vicinity are also carried out manually and with the help of 01 Numbers of Water Tanker having capacity of 5.0 KL and another Water Tanker of capacity 12 KL. c) Dry Fog system provided at the Coal handling area as standby measures. d) All the main internal roads

S. No.	Recommendation	Plan for Implementation
		used for movement of Vehicles have been concreted and most of the branch roads are also concreted that used for pedestrian. It helps in controlling fugitive emission from Vehicular movement. e) Fixed type Water Sprinklers at appropriate locations are provided. f) Four numbers of Rain guns are installed. g) Plantation with local species has been done along compound wall, around raw material handling area, along internal roads, around waste disposal site.
10.	Sponge Iron Plants Inventorization of sponge iron plants to be completed by SPCBs/CPCB and units will be asked to install proper air pollution control equipment to control primary and secondary emissions.	All necessary air pollution control equipments (ESP/DES) with adequate capacity WHRB installed with 8 x 100 TPD DRI kiln is in place and for proposed expansion project, the same will be implemented. Management will ensure that all APCD are working efficiently to control emissions within the permissible limits.

No.IA-J-11011/494/2007-IA-II(I)

Goverment of India

Minister of Environment, Forest and Climate Change .

Impact Assessment Division

Indira Paryavaran Bhavan, Vayu Wing,3rd Floor,Aliganj, Jor Bagh Road,New Delhi-110003 28 Sep 2022

To,

M/s MSP METALLICS LIMITED

1, GARSTIN PLACE, ORBIT HOUSE, 3RD FLOOR, ROOM NO 3B, KOLKATA,
Gondiya-700001

Punjab

Tel.No.-; Email:mspmetallicsltdworks@gmail.com

Sir/Madam,

This has reference to the proposal submitted in the Ministry of Environment, Forest and Climate Change to prescribe the Terms of Reference (TOR) for undertaking detailed EIA study for the purpose of obtaining Environmental Clearance in accordance with the provisions of the EIA Notification, 2006. For this purpose, the proponent had submitted online information in the prescribed format (Form-1) along with a Pre-feasibility Report. The details of the proposal are given below:

1. Proposal No.: IA/OR/IND/291725/2022

Expansion of Steel Plant 1.05 Million TPA With

2. Name of the Proposal: CPP To Integrated Steel Plant 1.7 Million TPA

Finished Steel With 275 MW Captive Power

Plant.

3. Category of the Proposal: Industrial Projects - 1

4. Project/Activity applied for: 2(b) Mineral beneficiation

3(a) Metallurgical industries (ferrous & non

ferrous)

3(b) Cement plants 4(b) Coke oven plants

5. Date of submission for TOR: 24 Sep 2022

In this regard, under the provisions of the EIA Notification 2006 as amended, the Standard TOR for the purpose of preparing environment impact assessment report and environment management plan for obtaining prior environment clearance is prescribed with public consultation as follows:

2(b):STANDARD TERMS OF REFERENCE FOR CONDUCTING ENVIRONMENT IMPACT ASSESSMENT STUDY FOR MINERAL BENEFICIATION PROJECTS AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT

- The alternate sites considered, the relative merits and demerits and the reasons for selecting the proposed site for the Beneficiation Plant should be indicated.
- Details of the technology and process involved for beneficiation should be given.
- Location of the proposed Plant w.r.t. the source of raw material and mode of transportations of the ore from mines to the beneficiation plant should be justified.
- Treatment of run of mine (ROM) and or of the fines/waste dump should be spelt out.
- Estimation of the fines going into the washings should be made and its management described.
- Details of the equipment, settling pond etc. should be furnished.
- Detailed material balance should be provided.
- 8) Sources of raw material and its transportation should be indicated. Steps proposed to be taken to protect the ore from getting air borne should be brought out.
- 9) Management and disposal of tailings and closure plan of the tailing pond, if any after the project is over, should be detailed in a quantified manner.
- 10) The water requirement for the project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the project should also be indicated.
- A copy of the document in support of the fact that the Proponent is the rightful lessee of the unit should be given.
- 12) All documents including EIA and public hearing should be compatible with one another in terms of the production levels, waste generation and its management and technology and should be in the name of the lessee.
- 13) All corner coordinates of the Unit, superimposed on a High Resolution Imagery/Toposheet should be provided. Such an Imagery of the proposed Unit should clearly show the land use and other ecological features of the study area (core and buffer zone).
- It should be clearly indicated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/ violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of

STANDARD TERMS OF REFERENCE (TOR) FOR EIA/EMPREPORT FOR PROJECTS/ ACTIVITIES REQUIRING ENVIRONMENT CLEARANCE

- environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.
- 15) Issues relating to Safety should be detailed. The proposed safeguard measures in each case should also be provided. Disaster management plan shall be prepared and included in the EIA/EMP Report.
- The study area will comprise of 10 km zone around the Plant.
- Cumulative impact study of both Beneficiation Plant with suggested mitigation measures as per the study should be described.
- 18) Location of Railway siding with its handling capacity and safety measures should be indicated.
- Option to provide only silo for storage of minerals instead of open stacking to avoid fugitive dust should be explored and arrangements finalized justified.
- 20) Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
- 21) Details of the land for any Over Burden Dumps outside the lease, such as extent of land area, distance from lease, its land use, R&R issues, if any, should be given.
- 22) A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the Project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
- 23) Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
- 24) Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
- 25) The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
- A study shall be got done to ascertain the impact of the Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly detailed mitigative measures required, should be worked out with cost implications and submitted.
- 27) Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly

STANDARD TERMS OF REFERENCE (TOR) FOR EIA/EMP REPORT FOR PROJECTS/ACTIVITIES REQUIRING ENVIRONMENT CLEARANCE

indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.

- A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan alongwith budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
- 29) Proximity to Areas declared as 'Critically Polluted' shall also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB/CPCBshall be secured and furnished to the effect that the proposed activities could be considered.
- 30) Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL. HTL, CRZ area, location of the unit w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
- R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects, should be discussed in the report.
- 32) One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season); December-February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report, Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the unit in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.
- 33) Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of

STANDARD TERMS OF REFERENCE (TOR) FOR EIA/EMP REPORT FOR PROJECTS/ ACTIVITIES REQUIRING ENVIRONMENT CLEARANCE

mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.

- 34) The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
- Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be secured and copy furnished.
- 36) Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
- 37) Impact of the project on the water quality, both surface and groundwater should be assessed and necessary safeguard measures, if any required, should be provided.
- 38) Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
- 39) A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the project. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to the pollution.
- 40) Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered.
- Details of the onsite shelter and facilities to be provided to the workers should be included in the EIA report.
- 42) Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area should be be detailed.
- 43) Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
- 44) Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.

STANDARD TERMS OF REFERENCE (TOR) FOR EIA/EMP REPORT FOR PROJECTS/ACTIVITIES REQUIRING ENVIRONMENT CLEARANCE

- 45) Public hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
- 46) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the project should be given.
- 47) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
- 48) A brief background of the Project, its financial position, Group Companies and legal issues etc should be provided with past and current important litigations if any.
- 49) Benefits of the Project, if the project is implemented should be outlined. The benefits of the projects shall clearly indicate environmental, social, economic, employment potential, etc.
- 50) Besides the above, the below mentioned general points are also to be followed:-
- All documents to be properly referenced with index and continuous page numbering.
- b) Where data are presented in the report especially in Tables, the period in which the data were collected and the sources should be indicated.
- c) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the project.
- d) Where the documents provided are in a language other than English, an English translation should be provided.
- The Questionnaire for environmental appraisal of project as devised earlier by the Ministry shall also be filled and submitted.
- f) While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MoEF vide O.M. No. I-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should also be followed.
- g) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEP&CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.
- h) As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certifiedReport of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project by the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.

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ACTIVITY 3 (a)- METALLURGICAL INDUSTRY (Ferrous and Non-ferrous)

STANDARD TERMS OF REFERENCE FOR CONDUCTING ENVIRONMENT IMPACT ASSESSMENT STUDY FOR METALLURGICAL INDUSTRY (Ferrous and Non-ferrous) AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT

GENERAL CONDITIONS-

- 1. Introduction
- Background about the project i.
- ii. Need of the project
- III Purpose of the EIA study
- Scope of the EIA study iv.

2. Project description

- A. Site Details
- Location of the project site covering village, Taluka/Tehsil, District and State.
- ii. Site accessibility
- iii. Adigital toposheet in pdf or shape file compatible to google earth of the study area of radius of 10km and site location preferably on 1:50,000 scale. (including all eco-sensitive areas and environmentally sensitive places).
- iv. Latest High-resolution satellite image data having 1m-5m spatial resolution like quickbird, Ikonos, IRS P-6 pan sharpened etc., along with defineation of plant boundary co-ordinates. Area must include at least 100m all around the project location.
- v. Environment settings of the site and its surrounding along with map.
- vi. A list of major industries with name, products and distance from plant site within study area (10km radius) and the location of the industries shall be depicted in the study area map.
- vii. In case if the project site is in vicinity of the water body, 50 meters from the edge of the water body towards the site shall be treated as no development/construction zone. If it's near the wetland, Guidelines for implementing Wetlands (Conservation and Management) Rules, 2017 may be followed.
- viii. In case if the project site is in vicinity of the river, the industry shall not be located within the river flood plain corresponding to one in 25 years flood, as certified by concerned District Magistrate/Executive Engineer from State Water Resources Department (or) any other officer authorized by the State Government for this purpose as per the provisions contained in the MoEF&CC Office Memorandum dated 14/02/2022.
- ix. Type of land, land use of the project site.
- x. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process as per the MoEF&CC O.M. dated 7/10/2014 shall be furnished.
- xi. Engineering layout of the area with dimensions depicting existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.

B. Forest and wildlife related issues (if applicable):

Status of Forest Clearance for the use of forest land shall be submitted.

Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife if the project site located within notified Eco-Sensitive Zone, 10km radius of national park/sanctuary wherein final ESZ notification is not in place as per MoEF&CC Office Memorandum dated 8/8/2019.

iii. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, Eco-sensitive Zone and Eco-sensitive areas, the project proponent shall submit the map duly authenticated by Divisional Forest Officer showing the distance between the project site and the said areas.

iv. Wildlife Conservation Plan duly authenticated by the Competent Authorityof the State

Government for conservation of Schedule I fauna, if any exists in the study area.

C. Salient features of the project

Products with capacities in Tons per Annum for the proposed project.

ii. If expansion project, status of implementation of existing project, details of existing/proposed products with production capacities in Tons per Annum.

iii. Site preparatory activities,

iv. List of raw materials required and their source along with mode of transportation.

v. Other than raw materials, other chemicals and materials required with quantities and storage capacities.

vi. Manufacturing process details along with process flow diagram of proposed units.

vii. Consolidated materials and energy balance for the project.

viii. Total requirement of surface/ ground water and powerwith their respective sources, status of approval.

ix. Water balance diagram

x. Details of Emission, effluents, hazardous waste generation and mode of disposal during construction as well as operation phase.

xi. Man-power requirement.

xii. Cost of project and scheduled time of completion.

xiii. Brief on present status of compliance (Expansion/modernization proposals)

a. Cumulative Environment Impact Assessment for the existing as well as the proposed expansion/modernization shall be carried out.

b. In case of ground water drawl for the existing unit, action plan for phasing out of ground water abstraction in next three years except for domestic purposes and shall switch over to

100 % use of surface water from nearby source.

c. Copy of all the Environment Clearance(s) including Amendments thereto obtained for the project from MoEF&CC/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 30th May, 2012 on the status of compliance of conditions stipulated in all the existing environment clearances including amendments shall be provided.

In case the existing project has not obtained EnvironmentClearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the Regional Office of the SPCB shall be submitted.

3. Description of the Environment
i. Study period
ii. Approach and methodology for data collection as furnished below.

Attributes	Sam	pling	Remarks
	Network	Frequency	-
A. Air Environment			
Micro-Meteorological Wind speed (Hourly) Wind direction Dry bulb temperature Wet bulb temperature Relative humidity Rainfall Solar radiation Cloud cover Environmental Lapse Rate	Minimum 1 site in the project impact area	l hourly continuous	IS 5182 Part 1-20 Site specific primary data is essential Secondary data from IMD, New Delhi CPCB guidelines to be considered.
PM ₁₀ SO ₂ NOx CO HC Other parameters relevant to the project and topography of the area	At least 8-12 locations	As per National Ambient Air Quality Standards, CPCB Notification.	Sampling as per CPCB guidelines Collection of AAQ data (except in monsoon season) Locations of various stations for different parameters should be related to the characteristic properties of the parameters. The monitoring stations shall be based on the NAAQM standards as per GSR 826(E) dated 16/11/2009 and take into account the predominant wind direction, population zone and sensitive receptors including reserved forests, Raw data of all AAQ measurement for 12

Attributes		pling	Remarks
	Network	Frequency	
			per frequency given the NAAQ! Notification (16/11/2009 along wit min., max., average an 98% values for each of the AAQ parameter from data of all AAC stations should be provided as an annexure to the EIA Report.
. Noise			
Hourly equivalent a	at least 8-12	As per CPCB	
. Water	locations	norms	
alkalinity, chloride, sulphate, nitrate, fluoride, sodium, potassium, salinity Total nitrogen, total phosphorus, DO, BOD, COD, Phenol Heavy metals Total coliforms, faecal coliforms Phyto plankton Zoo plankton	wastewater an Association.	alysis published b	mination of water and by American Public Health
Total Carbon pH Dissolved Oxygen Biological Oxygen Demand	Surface water quality of the nearest River (60m upstream	during critical s	odology for collection of

Attributes	Sam	pling	Remarks	
	Network	Frequency	34/7 4/4/20	
Conductivity	bodies			
For Ground Water	Ground was	of 8 locations (fr g current records)	a should be collected om existing wells /tul from the study area ar	
D. Traffic Study	Justin the men	raca.		
Frequency of vehicles frequency of vehicles for transportation of materials Additional traffic due to proposed				
project				
Parking arrangement				
. Land Environment				
Particle size distribution Texture pH Electrical conductivity Cation exchange capacity Alkali metals Sodium Absorption Ratio (SAR) Permeability Water holding capacity Porosity		ollected as per BIS	specifications	
Location code Location code Total project area Topography Drainage (natural) Cultivated, forest, plantations, water bodies, roads and settlements Biological Environmen				

Attributes	Sam	pling	Remarks
	Network	Frequency	1/20/20/20/2007
Aquatic Primary productivity Aquatic weeds Enumeration of phyto plankton, zoo plankton and benthos Fisheries Diversity indices Trophic levels Rare and endangered species Marine Parks/ Sanctuaries/ closed areas/coastal regulation zone (CRZ) errestrial Vegetation-species list, economic importance, forest produce medicinal	Detailed de aquatic) exi special refer Indicator : environment included to would result Samples to discharge po also from du For forest struckle Secondary of	scription of flora sting in the stud ence to rare, ende species which degradation s clearly state wh in to any adverse collect from ups bint, nearby tribu g wells close to ac idies, direction of ing forests.	hould be identified ar ether the proposed project effect on any species, stream and downstream of staries at downstream, an
produce, medicinal value Importance value index (IVI) of trees Fauna Avi fauna			
Rare and endangered species Sanctuaries / National park / Biosphere reserve			
Migratory routes			
socio-economic			
Demographic structure Infrastructure Infrastructure resource base Economic resource base Health status: Morbidity pattern Cultural and aesthetic attributes	Primary data c Secondary da books, topo s	andom sampling i ollection through ta from census	questionnaire records, statistical hard ords and relevant official

Attributes	Sam	pling	Remarks
	Network	Frequency	
Education		3000	

- Interpretation of each environment attribute shall be enumerated and summarized as given below:
- Ambient air quality
- Ambient Noise quality
- Surface water quality
- Ground water quality
- Soil quality
- Biological Environment
- Land use
- Socio-economic environment
- Anticipated Environment Impacts and mitigation measures (In case of expansion, cumulative impact assessment shall be carried out)

Identification of potential impacts in the form of a matrix for the construction and operation
phase for all the environment components

Activity	Environment	Ecological	Socio-economic
Construction phase			
Operation phase			

- Impact on ambient air quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
- a. Construction phase
- b. Operation phase
- Details of stack emissions from the existing as well as proposed activity.
- Assessment of ground level concentration of pollutants from the stack emission based on AQIP Modelling The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any along with wind rose map for respective period
- Impact on ground level concentration, under normal, abnormal and emergency conditions.
 Measures to handle emergency situations in the event of uncontrolled release of emissions.
- Impact on ambient noise quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
- a. Construction phase
- b. Operation phase
- Impact on traffic (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
- a. Construction phase
- b. Operation phase
- v. Impact on soil quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)

- a. Construction phase
- b. Operation phase
- vi. Impact on land use (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
- a. Construction phase
- b. Operation phase
- vii. Impact on surface water resource and quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
- a. Construction phase
- b. Operation phase
- viii. Impact on ground water resource and quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
- a. Construction phase
- b. Operation phase
- Impact on terrestrial and aquatic habitat (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
- Construction phase
- b. Operation phase
- Impact on socio-economic environment (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
- a. Construction phase
- b. Operation phase
- Impact on occupational health and safety (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
- a. Construction phase
- b. Operation phase

5. Analysis of Alternatives (Technology & Site)

- No project scenario
- ii. Site alternative
- iii. Technical and social concerns
- iv. Conclusion

6. Environmental Monitoring Program

- i. Details of the Environment Management Cell
- ii. Performance monitoring schedule for all pollution control devices shall be furnished.
- iii. Corporate Environment Policy
- a. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
- b. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environment or forest norms / conditions? If so, it may be detailed in the EIA.
- c. What is the hierarchical system or Administrative order of the company to deal with the environment issues and for ensuring compliance with the environment clearance conditions? Details of this system may be given.

d. Does the company have system of reporting of non compliances / violations of environment norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report

iv. Action plan for post-project environment monitoring matrix:

Activity	Aspect	Monitoring Parameter	Location	Frequency	Responsibility
Construc	tion phase				
Operation	nhace				

7. Additional Studies

 Public consultation details (Entire proceedings as separate annexurealong with authenticated English Translation of Public Consultation proceedings).

ii. Summary of issues raised during public consultation along with action plan to address the

same as per MoEF&CC O.M. dated 30/09/2020

S	Physical activity	ysical activity and action plan Year of implementation (Budget in INR)			Total Expenditu	
	Name of the Activity	Physical Targets	1 st	2 nd	3 rd	re (Rs. in Crores)

- iii. Risk assessment
- Methodology
- Hazard identification
- Frequency analysis
- Consequence analysis
- Risk assessment outcome
- iv. Emergency response and preparedness plan

8. Project Benefits

- Environment benefits
- ii. Social infrastructure
- iii. Employment and business opportunity
- iv. Other tangible benefits

9. Environment Cost Benefit Analysis

- i. Net present value
- ii. Internal rate of return
- iii. Benefit cost ratio
- iv. Cost effectiveness analysis

10. Environment Management Plan (Construction and Operation phase)

- Air quality management plan
- ii. Noise quality management plan

- iii. Solid and hazardous waste management plan
- iv. Effluent management plan
- v. Storm water management plan
- vi. Rain water harvesting plan
- vii. Occupational health and safety management plan
- viii. Green belt development plan
- ix. Socio-economic management plan
- x. Wildlife conservation plan (In case of presence of schedule I species)
- xi. Total capital cost and recurring cost/annum for environment pollution control measures shall be included.

11. Conclusion of the EIA study

12. In addition to the above, any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.

SPECIAL CONDITIONS-

- For Large ISPs, a 3-D view i.e. DEM (Digital Elevation Model) for the area in 10 km radius from the proposal site. MRL details of project site and RL of nearby sources of water shall be indicated.
- Plan for the implementation of the recommendations made for the steel plants in the CREP guidelines.
- 3. Plan for solid wastes utilization
- 4. Plan for utilization of energy in off gases (coke oven, blast furnace)
- 5. System of coke quenching adopted with justification.
- Details on environmentally sound technologies for recycling of hazardous materials, as per CPCB Guidelines, may be mentioned in case of handling scrap and other recycled materials.
- Details on toxic metal content in the waste material and its composition and end use (particularly of slag).
- 8. Details on toxic content (TCLP), composition and end use of slag.
- 9. 100 % dolo char generated in the plant shall be used to generate power.
- 10. Fourth Hole fume extraction system shall be provided for SAF. WHR system shall be installed to recover sensible heat from flue gases of EAF. Provision for installation of jigging and briquetting plant to utilise the fines generated in the process.
- No tailing pond is permitted for Iron ore slimes. Dewatering and filtration system shall be provided.
- 12. Emission/effluent norms as per G.S.R 894 (E) dated 4/12/2019.

ACTIVITY 3(b)- CEMENT PLANTS

STANDARD TERMS OF REFERENCE FOR CONDUCTING ENVIRONMENT IMPACT ASSESSMENT STUDY FOR CEMENT PLANTS AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT

GENERAL CONDITION-.

- Introduction
- i. Background about the project
- ii. Need of the project
- iii Purpose of the EIA study
- Scope of the EIA study IV.

Project description Site Details

- Location of the project site covering village, Taluka/Tehsil, District and State.
- Site accessibility
- Adigital toposheet in pdf or shape file compatible to google earth of the study area of radius iii of 10km and site location preferably on 1:50,000 scale. (including all eco-sensitive areas and environmentally sensitive places).
- Latest High-resolution satellite image data having 1m-5m spatial resolution like quickbird, Ikonos, IRS P-6 pan sharpened etc., along with delineation of plant boundary co-ordinates. Area must include at least 100m all around the project location.
- Environment settings of the site and its surrounding along with map.
- A list of major industries with name, products and distance from plant site within study area (10km radius) and the location of the industries shall be depicted in the study area map.
- In case if the project site is in vicinity of the water body, 50 meters from the edge of the water body towards the site shall be treated as no development/construction zone. If it's near the wetland, Guidelines for implementing Wetlands (Conservation and Management) Rules, 2017 may be followed.
- viii. In case if the project site is in vicinity of the river, the industry shall not be located within the river flood plain corresponding to one in 25 years flood, as certified by concerned District Magistrate/Executive Engineer from State Water Resources Department (or) any other officer authorized by the State Government for this purpose as per the provisions contained in the MoEF&CC Office Memorandum dated 14/02/2022.
- Type of land, land use of the project site. ix.
- Status of acquisition of land. If acquisition is not complete, stage of the acquisition process as per the MoEF&CC O.M. dated 7/10/2014 shall be furnished.
- Engineering layout of the area with dimensions depicting existing unit as well as proposed xi. unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.
- Forest and wildlife related issues (if applicable): 3.
- Status of Forest Clearance for the use of forest land shall be submitted.

 Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife if the project site located within notified Eco-Sensitive Zone, 10km radius of national park/sanctuary wherein final ESZ notification is not in place as per MoEF&CC Office Memorandum dated 8/8/2019.

iii. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, Eco-sensitive Zone and Eco-sensitive areas, the project proponent shall submit the map duly authenticated by Divisional Forest Officer

showing the distance between the project site and the said areas.

 Wildlife Conservation Plan duly authenticated by the Competent Authority of the State Government for conservation of Schedule I fauna, if any exists in the study area.

4. Salient features of the project

Products with capacities in Tons per Annum for the proposed project.

 If expansion project, status of implementation of existing project, details of existing/proposed products with production capacities in Tons per Annum.

Site preparatory activities.

iv. List of raw materials required and their source along with mode of transportation.

- Other than raw materials, other chemicals and materials required with quantities and storage capacities.
- vi. Manufacturing process details along with process flow diagram of proposed units.

vii. Consolidated materials and energy balance for the project.

viii. Total requirement of surface/ ground water and powerwith their respective sources, status of approval.

ix. Water balance diagram

 Details of Emission, effluents, hazardous waste generation and mode of disposal during construction as well as operation phase.

xi. Man-power requirement.

xii. Cost of project and scheduled time of completion.

xiii. Brief on present status of compliance (Expansion/modernization proposals)

 Cumulative Environment Impact Assessment for the existing as well as the proposed expansion/modernization shall be carried out.

b. In case of ground water drawl for the existing unit, action plan for phasing out of ground water abstraction in next three years except for domestic purposes and shall switch over to 100 % use of surface water from nearby source.

c. Copy of all the Environment Clearance(s) including Amendments thereto obtained for the project from MoEF&CC/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 30th May, 2012 on the status of compliance of conditions stipulated in all the existing environment clearances including amendments shall be provided.

d. In case the existing project has not obtained EnvironmentClearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the Regional Office of the SPCB shall be submitted.

Description of the Environment
Study period
Approach and methodology for data collection as furnished below. 5. i. ii.

Attributes	Samj	oling	Remarks
	Network	Frequency	
Air Environment		100 000 000 000	
icro-Meteorological Wind speed (Hourly) Wind direction Dry bulb temperature Wet bulb temperature Relative humidity Rainfall Solar radiation Cloud cover Environmental Lapse Rate	finimum 1 site in the project impact area	hourly continuous	IS 5182 Part 1-20 Site specific primary data is essential Secondary data from IMD, New Delhi CPCB guidelines to be considered.
llutants PM _{2.5}	t least 8-12 locations	s per ational	Sampling as per CPCB guidelines
PM ₁₀		Ambient Air Quality Standards,	Collection of AAQ data (except in monsoon season) Locations of various stations for different parameters should be
SO ₂			
NOx			
CO			
HC		CPCB	
Other parameters relevant to the project and topography of the area		otification.	related to the characteristic properties of the parameters. The monitoring stations shall be based on the NAAQM standards as per GSR 826(E) dated 16/11/2009 and take into account the predominant wind direction, population zone and sensitive receptors including reserved forests, Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in

	Samp	oling	Remarks	
	Network	Frequency		
Noise			the NAAQ Notification 16/11/2009 along w min., max., average a 98% values for each the AAQ paramete from data of all AA stations should provided as an annexu to the EIA Report.	
Hourly equivalent	least 8-12	s per CPCB		
noise levels Water	locations	norms		
alkalinity, chloride, sulphate, nitrate, fluoride, sodium, potassium, salinity Total nitrogen, total phosphorus, DO,	Association.	alysis published b	y American Public Health	
BOD, COD, Phenol Heavy metals Total coliforms, faecal coliforms Phyto plankton Zoo plankton River Bodies				

Attributes	Sam	pling	Remarks	
	Network	Frequency		
or Ground Water	minimum	of 8 locations (ata should be collected at from existing wells /tube s) from the study area and	
. Traffic Study				
Type of vehicles Frequency of vehicles for transportation of materials Additional traffic due to proposed project Parking arrangement				
, Land Environment	1			
Particle size distribution Texture pH Electrical conductivity Cation exchange capacity Alkali metals Sodium Absorption Ratio (SAR) Permeability Water holding capacity Porosity	bil samples be c	ollected as per BIS	specifications	
and use/Landscape Location code Total project area Topography Drainage (natural) Cultivated, forest, plantations, water bodies, roads and settlements				
Biological Environment				
quatic		scription of flora	and fauna (terrestrial and	

Attributes	Sam	pling	Remarks
	Network	Frequency	
Primary productivity Aquatic weeds Enumeration of phyto plankton, zoo plankton and benthos Fisheries Diversity indices Trophic levels Rare and endangered species Marine Parks/ Sanctuaries/ closed areas /coastal regulation zone (CRZ) rrestrial Vegetation-species list, economic importance, forest produce, medicinal value Importance value index (IVI) of trees Fauna Avi fauna Rare and endangered species Sanctuaries / National park / Biosphere reserve Migratory routes socio-economic			emic and endangered species indicate ecological an should be identified an hether the proposed project effect on any species. It is stream and downstream outaries at downstream, and ctivity site.
Demographic	Capie anana	make manager to	bread are encreasurations an
structure Infrastructure resource base Economic resource base Health status: Morbidity pattern Cultural and aesthetic attributes	stratified and Primary data Secondary books, topo	d random sampling a collection through data from censu	h questionnaire s records, statistical hard cords and relevant official

Attributes	Sam	Remarks	
	Network	Frequency	- 1-11:00M
Education		Language and the same and the s	

- iii. Interpretation of each environment attribute shall be enumerated and summarized as given below:
- Ambient air quality
- Ambient Noise quality
- Surface water quality
- Ground water quality
- Soil quality
- Biological Environment
- Land use
- Socio-economic environment
- Anticipated Environment Impacts and mitigation measures (In case of expansion, cumulative impact assessment shall be carried out)
- Identification of potential impacts in the form of a matrix for the construction and operation
 phase for all the environment components

Activity	Environment	Ecological	Socio-economic
onstruction phase			
peration phase			

- Impact on ambient air quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
- a. Construction phase
- b. Operation phase
- Details of stack emissions from the existing as well as proposed activity.
- Assessment of ground level concentration of pollutants from the stack emission based on AQIP Modelling The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any along with wind rose map for respective period
- Impact on ground level concentration, under normal, abnormal and emergency conditions.
 Measures to handle emergency situations in the event of uncontrolled release of emissions.
- iii. Impact on ambient noise quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
- a. Construction phase
- b. Operation phase
- Impact on traffic (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
- a. Construction phase
- b. Operation phase
- Impact on soil quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)

- a. Construction phase
- b. Operation phase
- Impact on land use (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
- a. Construction phase
- b. Operation phase
- Impact on surface water resource and quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
- a. Construction phase
- b. Operation phase
- Impact on ground water resource and quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
- Construction phase
- b. Operation phase
- Impact on terrestrial and aquatic habitat (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
- a. Construction phase
- b. Operation phase
- Impact on socio-economic environment (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
- Construction phase
- Operation phase
- Impact on occupational health and safety (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
- Construction phase
- b. Operation phase

7. Analysis of Alternatives (Technology & Site)

- i. No project scenario
- ii. Site alternative
- iii. Technical and social concerns
- iv. Conclusion

8. Environmental Monitoring Program

- Details of the Environment Management Cell
- Performance monitoring schedule for all pollution control devices shall be furnished.
- iii. Corporate Environment Policy
- a. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
- b. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environment or forest norms / conditions? If so, it may be detailed in the EIA.
- c. What is the hierarchical system or Administrative order of the company to deal with the environment issues and for ensuring compliance with the environment clearance conditions? Details of this system may be given.

d. Does the company have system of reporting of non compliances / violations of environment norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report

iv. Action plan for post-project environment monitoring matrix

ctivity	Ispect	Monitoring Parameter	Location	requency	Responsibility
onstruct	on phase				
peration	nhace				

9. Additional Studies

 Public consultation details (Entire proceedings as separate annexurealong with authenticated English Translation of Public Consultation proceedings).

ii. Summary of issues raised during public consultation along with action plan to address the

same as per MoEF&CC O.M. dated 30/09/2020

S	Physical activity	ysical activity and action plan		Year of implementa (Budget in INR)		Total Expenditu
L	ame of the Activity	Physical Targets	1 st	2 nd	3 rd	re (Rs. in Crores)

- iii. Risk assessment
- Methodology
- Hazard identification
- Frequency analysis
- Consequence analysis
- Risk assessment outcome
- iv. Emergency response and preparedness plan

10. Project Benefits

- i. Environment benefits
- ii. Social infrastructure
- iii. Employment and business opportunity
- iv. Other tangible benefits

11. Environment Cost Benefit Analysis

- i. Net present value
- ii. Internal rate of return
- iii. Benefit cost ratio
- iv. Cost effectiveness analysis

12. Environment Management Plan (Construction and Operation phase)

- i. Air quality management plan
- ii. Noise quality management plan

- iii. Solid and hazardous waste management plan
- iv. Effluent management plan
- v. Storm water management plan
- vi. Rain water harvesting plan
- vii. Occupational health and safety management plan
- viii. Green belt development plan
- ix. Socio-economic management plan
- x. Wildlife conservation plan (In case of presence of schedule I species)
- Total capital cost and recurring cost/annum for environment pollution control measures shall be included.

13. Conclusion of the EIA study

14. In addition to the above, any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.

SPECIAL CONDITIONS-

- Limestone and coal linkage documents along with the status of environment clearance of limestone and coal mines.
- Quantum of production of coal and limestone from coal & limestone mines and the projects they cater to;
- Present land use shall be prepared based on satellite imagery. High-resolution satellite image
 data having 1m-5m spatial resolution like quickbird, Ikonos, IRS P-6 pan sharpened etc. for
 the 10 Km radius area from proposed site. The same shall be used for land used/land-cover
 mapping of the area.
- If the raw materials used have trace elements, an environment management plan shall also be included.
- Plan for the implementation of the recommendations made for the cement plants in the CREP guidelines shall be prepared.
- Energy consumption per ton of clinker and cement grinding
- Provision of waste heat recovery boiler
- Arrangement for co-processing of hazardous waste in cement plant.
- 9. Provision of Alternate fuels.
- Emission/Effluent norms as per GSR 496 (E) dated 9/5/2016.

ACTIVITY 4(b)(ii)- COKE OVEN PLANT

STANDARD TERMS OF REFERENCE FOR CONDUCTING ENVIRONMENT IMPACT ASSESSMENT STUDY FOR COKE OVEN PLANTS AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT

GENERAL CONDITIONS-

- 1. Introduction
- Background about the project
- ii. Need of the project
- iii. Purpose of the EIA study
- iv. Scope of the EIA study
- 2. Project description
- A. Site Details
- Location of the project site covering village, Taluka/Tehsil, District and State.
- ii. Site accessibility
- Adigital toposheet in pdf or shape file compatible to google earth of the study area of radius of 10km and site location preferably on 1:50,000 scale. (including all eco-sensitive areas and environmentally sensitive places).
- iv. Latest High-resolution satellite image data having 1m-5m spatial resolution like quickbird, Ikonos, IRS P-6 pan sharpened etc., along with delineation of plant boundary co-ordinates. Area must include at least 100m all around the project location.
- v. Environment settings of the site and its surrounding along with map.
- A list of major industries with name, products and distance from plant site within study area (10km radius) and the location of the industries shall be depicted in the study area map.
- vii. In case if the project site is in vicinity of the water body, 50 meters from the edge of the water body towards the site shall be treated as no development/construction zone. If it's near the wetland, Guidelines for implementing Wetlands (Conservation and Management) Rules, 2017 may be followed.
- viii. In case if the project site is in vicinity of the river, the industry shall not be located within the river flood plain corresponding to one in 25 years flood, as certified by concerned District Magistrate/Executive Engineer from State Water Resources Department (or) any other officer authorized by the State Government for this purpose as per the provisions contained in the MoEF&CC Office Memorandum dated 14/02/2022.
- ix. Type of land, land use of the project site.
- Status of acquisition of land. If acquisition is not complete, stage of the acquisition process as per the MoEF&CC O.M. dated 7/10/2014 shall be furnished.
- xi. Engineering layout of the area with dimensions depicting existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.
- B. Forest and wildlife related issues (if applicable):

Status of Forest Clearance for the use of forest land shall be submitted.

Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the ii. Standing Committee of the National Board for Wildlife if the project site located within notified Eco-Sensitive Zone, 10km radius of national park/sanctuary wherein final ESZ notification is not in place as per MoEF&CC Office Memorandum dated 8/8/2019.

The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, îii. Migratory Corridors of Wild Animals, Eco-sensitive Zone and Eco-sensitive areas, the project proponent shall submit the map duly authenticated by Divisional Forest Officer showing the distance between the project site and the said areas.

Wildlife Conservation Plan duly authenticated by the Competent Authority of the State

Government for conservation of Schedule I fauna, if any exists in the study area.

C. Salient features of the project

Products with capacities in Tons per Annum for the proposed project. i

If expansion project, status of implementation of existing project, details of existing/proposed ii. products with production capacities in Tons per Annum.

iii. Site preparatory activities.

List of raw materials required and their source along with mode of transportation. iv.

Other than raw materials, other chemicals and materials required with quantities and storage V. capacities.

Manufacturing process details along with process flow diagram of proposed units. vi.

Consolidated materials and energy balance for the project. VII.

Total requirement of surface/ ground water and powerwith their respective sources, status of viii. approval.

Water balance diagram DX.

Details of Emission, effluents, hazardous waste generation and mode of disposal during Х. construction as well as operation phase.

xi. Man-power requirement.

Cost of project and scheduled time of completion. XII.

Brief on present status of compliance (Expansion/modernization proposals) xiii.

Cumulative Environment Impact Assessment for the existing as well as the proposed expansion/modernization shall be carried out.

In case of ground water drawl for the existing unit, action plan for phasing out of ground water b. abstraction in next three years except for domestic purposes and shall switch over to 100 % use of

surface water from nearby source.

Copy of all the Environment Clearance(s) including Amendments thereto obtained for the project C. from MoEF&CC/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 30th May, 2012 on the status of compliance of conditions stipulated in all the existing environment clearances including amendments shall be provided.

In case the existing project has not obtained EnvironmentClearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the

Regional Office of the SPCB shall be submitted.

Description of the Environment Study period

3. i. ii.

proach and methodology t Attributes		ipling	Remarks	
	Network	Frequency	I Incommentation	
A. Air Environment		1020		
Micro-Meteorological Wind speed (Hourly) Wind direction Dry bulb temperature Wet bulb temperature Relative humidity Rainfall Solar radiation Cloud cover Environmental Lapse Rate	Minimum I site in the project impact area	1 hourly contin uous	IS 5182 Part 1-20 Site specific primary data is essential Secondary data from IMD, New Delhi CPCB guidelines to be considered.	
PM _{2.5} PM ₁₀ SO ₂ NOx CO HC Other parameters relevant to the project and topography of the area	At least 8-12 locations	As per National Ambi ent Air Qualit y Stand ards, CPCB Notification.	 Sampling as per CPCB guidelines Collection of AAQ data (except in monsoon season) Locations of various stations for different parameters should be related to the characteristic properties of the parameters. The monitoring stations shall be based on the NAAQM standards as per GSR 826(E) dated 16/11/2009 and take into account the predominant wind direction, 	

Attributes	San	pling	Remarks
	Network Network	Frequency	sensitive receptor including reserved forests, Raw data of all AAQ measurement for 12 weeks of all stations as perfrequency given in the NAAQM Notification of 16/11/2009 along
B. Noise • Hourly	At least 8-12 As	As per	with min., max. average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.
equivalent noise levels	locatio ns	CPCB norms	
C. Water Parameters for water	2 2 2		
pH, temp, turbidity, magnesium hardness, total alkalinity, chloride, sulphate, nitrate, fluoride, sodium, potassium, salinity Total nitrogen, total phosphorus, DO, BOD, COD, Phenol	per: IS: 2488 (Industrial e Standard wastewate	Part 1-5) methods effluents methods for e	s for sampling and testing of xamination of water and shed by American Public
Heavy metals Total coliforms,		N .	

Attributes	Sam	pling	Remarks
	Network	Frequency	
 faecal coliforms Phyto plankton Zoo plankton 			
For River Bodies Total Carbon pH Dissolved Oxygen Biological Oxygen Demand Free NH4 Boron Sodium Absorption Ratio Electrical Conductivity	water during critical season		methodology for collectio e water (BIS standards)
For Ground Water	minimum	of 8 locations of the surrent record	lata should be collected at (from existing wells /tube is) from the study area and
D. Traffic Study			
 Type of vehicles Frequency of vehicles for transportation of materials Additional traffic due to proposed project Parking arrangement 			
E. Land Environment			
• Particle size distribution	Soil samples be of	ollected as per BIS	specifications

Attributes	Sampling		Remarks	
	Network	Frequency		
capacity Alkali metals Sodium Absorption Ratio (SAR) Permeability Water holding capacity Porosity				
Land use/Landscape				
 Location code Total project area Topography Drainage (natural) Cultivated, forest, plantations, water bodies, roads and settlements 				
E. Biological Environm	ent			
Aquatic Primary productivity Aquatic weeds Enumeration of phyto plankton, zoo plankton and benthos Fisheries Diversity indices Trophic levels Rare and endangered species Marine Parks/ Sanctuaries/ closed areas /coastal regulation zone	Detailed of aquatic) especial respecies. In environme included to would result of the series of	xisting in the stude eference to rare, adicator species when the degradation is to clearly state when the control of the control of collect from up- point, nearby tribuling wells close to a studies, direction of the control of the collect.	a and fauna (terrestrial and ly area shall be given with endemic and endangered nich indicate ecological and should be identified and nether the proposed project e effect on any species, stream and downstream of utaries at downstream, and activity site, f wind should be considered from Government offices,	

Attributes	Sam	pling	Remarks
	Network	Frequency	
Vegetation- species list, economic importance, forest produce, medicinal value Importance value index (IVI) of trees Fauna Avi fauna Rare and endangered species Sanctuaries / National park / Biosphere reserve Migratory routes			
F. socio-economic			
Demographic structure Infrastructure resource base Economic resource base Health status: Morbidity pattern Cultural and aesthetic attributes Education	 stratified a Primary da Secondary books, top 	nd random sampli ta collection throu data from cens	igh questionnaire us records, statistical hard ecords and relevant officia

- iii. Interpretation of each environment attribute shall be enumerated and summarized as given below:
 - Ambient air quality
 - Ambient Noise quality Surface water quality

 - Ground water quality
 - Soil quality
 - Biological Environment

- Land use
- Socio-economic environment
- 4. Anticipated Environment Impacts and mitigation measures (In case of expansion, cumulative impact assessment shall be carried out)
- i. Identification of potential impacts in the form of a matrix for the construction and operation

phase for all the environment components

Activity	Environment	Ecological	Socio-economic
Construction phase			
Operation phase			

- Impact on ambient air quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
- Construction phase
- b. Operation phase
- Details of stack emissions from the existing as well as proposed activity.
- Assessment of ground level concentration of pollutants from the stack emission based on AQIP
 Modelling The air quality contours shall be plotted on a location map showing the location of
 project site, habitation nearby, sensitive receptors, if any along with wind rose map for
 respective period
- Impact on ground level concentration, under normal, abnormal and emergency conditions.
 Measures to handle emergency situations in the event of uncontrolled release of emissions.
- iii. Impact on ambient noise quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
- Construction phase
- b. Operation phase
- Impact on traffic (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
- a. Construction phase
- b. Operation phase
- Impact on soil quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
- a. Construction phase
- b. Operation phase
- vi. Impact on land use (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
- Construction phase
- b. Operation phase
- vii. Impact on surface water resource and quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
- a. Construction phase
- b. Operation phase
- viii. Impact on ground water resource and quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)

- a. Construction phase
- b. Operation phase
- Impact on terrestrial and aquatic habitat (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
- Construction phase
- b. Operation phase
- Impact on socio-economic environment (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
- a. Construction phase
- Operation phase
- Impact on occupational health and safety (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
- a. Construction phase
- Operation phase

5. Analysis of Alternatives (Technology & Site)

- No project scenario
- ii. Site alternative
- iii. Technical and social concerns
- iv. Conclusion

6. Environmental Monitoring Program

- i. Details of the Environment Management Cell
- ii. Performance monitoring schedule for all pollution control devices shall be furnished.
- iii. Corporate Environment Policy
- a. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
- b. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environment or forest norms / conditions? If so, it may be detailed in the EIA.
- c. What is the hierarchical system or Administrative order of the company to deal with the environment issues and for ensuring compliance with the environment clearance conditions? Details of this system may be given.
- d. Does the company have system of reporting of non compliances / violations of environment norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report

iv. Action plan for post-project environment monitoring matrix

Activity	Aspect	Monitoring Parameter	Location	Frequency	Responsibility
Construction	n phase				
Operation	nhase				

7. Additional Studies

 Public consultation details (Entire proceedings as separate annexurealong with authenticated English Translation of Public Consultation proceedings).

ii. Summary of issues raised during public consultation along with action plan to address the same

as per MoEF&CC O.M. dated 30/09/2020

Physical activ	ity and action plan	y and action plan Year of implementation (Budget in INR)			
Name of the Activity	Physical Targets	1**	2 nd	3rd	diture (Rs. in Crore s)

- iii. Risk assessment
- Methodology
- Hazard identification
- Frequency analysis
- Consequence analysis
- Risk assessment outcome
- iv. Emergency response and preparedness plan

8. Project Benefits

- i. Environment benefits
- ii. Social infrastructure
- iii. Employment and business opportunity
- iv. Other tangible benefits

9. Environment Cost Benefit Analysis

- Net present value
- ii. Internal rate of return
- iii. Benefit cost ratio
- iv. Cost effectiveness analysis

10. Environment Management Plan (Construction and Operation phase)

- i. Air quality management plan
- ii. Noise quality management plan
- iii. Solid and hazardous waste management plan
- iv. Effluent management plan
- v. Storm water management plan
- vi. Rain water harvesting plan
- vii. Occupational health and safety management plan
- viii. Green belt development plan
- ix. Socio-economic management plan
- Wildlife conservation plan (In case of presence of schedule I species)
- Total capital cost and recurring cost/annum for environment pollution control measures shall be included.

11. Conclusion of the EIA study

12. In addition to the above, any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.

SPECIAL CONDITIONS-

- Justification for selecting recovery/non-recovery (beehive) type batteries with the proposed unit size.
- Details of proposed layout clearly demarcating various facilities such as coal storages, coke making, by-product recovery area,etc within the plant.
- Details of coke oven plant (recovery/non-recovery type) including coal handling, coke oven battery operations, coke handling and preparation.
- Scheme for coal changing, charging emission centre, Coke quenching technology, pushing emission control.
- Scheme for coke oven effluent treatment plant details including scheme for meeting cyanide standard.
- Emission/effluent norms as per G.S.R 894 (E) dated 4/12/2019. Provision of CDQ in case of coke oven plant of 0.8 MTPA and above.



Environmental Research and Services (India) Dvt. Ltd.

(4n ISO/IEC 17025 : 2017 [NABL] According Cohormory, 85PCR Imperiod Cohormory and ISO 9001 - 2015 Corolled Company)



Plot No: B-22, Sector-B, Industrial Estate Chandaka, Infocity Road, Bhubaneswar-751024, Odisha Tel: +91-9437021932, +91-9937690329, E-mail: ersibbsr@gmail.com

ULR-TC7440230000000033F

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Date: 31 Jan 2023

Name and Address of the Customer

Sample Collected by

Sample Collected in presence of

Date of Sampling/Monitoring

Sample Received on Analysis Started on Analysis Completed

Analysis Completed on Method of Sampling

Quantity of Sample

Environment Condition

Sample ID. No.

1. ERSIPL/AA/025

2. ERSIPL/AA/026

3. ERSIPL/AA/027

4. ERSIPL/AA/028

Pg No: 1 of 1

Test Report No: ERSIPL/TR/AA/014
MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda,

Dist: Jharsuguda, Odisha

Representative of ERS (I) Pvt. Ltd. Representative of the Customer.

13-14.01.2023

24.01.2023 24.01.2023

: 31.01.2023 : ERSIPL/MSP/06

01 sample for each parameter

: Sunny

Locations

1. Near Main Gate

Near Pellet Plant
 Near Steel Melting Shop

4. Near Coke Oven Plant

TEST FINDINGS:

				Permissible Limit		Re	sults	
SI. No	Test Parameters	Test method	Unit	Standards CPCH Nov-2009	ERSIPL/ AA/ 025	ERSIPL/ AA/ 026	ERSIPL/ AA/ 027	ERSIPL/ AA/ 028
1	Particulate Matter (size less than 10 μm) or PM 10	IS 5182 (Part 23): 2006, Reaffirmed- 2017, Gravimetric Method	μg/m ³	100.0	76.06	70.20	73.27	67.18
2	Particulate Matter (size less than 2.5 µm) or PM 2.5	IS 5182 (Part 24): 2019, Gravimetric Method	μg/m ³	60.0	33.10	34.88	34.42	28.92
3	Sulphur Dioxide (SO ₂)	IS S182 (Part 2): 2001, Reaffirmed- 2017, Improved West & Gaeke Method	μg/m ³	80.0	8.57	9.94	8.45	8.55
44	Oxides of Nitrogen (NO _X)	IS 5182 (Part 6): 2006, Reaffirmed - 2017	μg/m ³	80.0	13.75	11.80	13.86	11.77

(Authorized Signatory) S.P.Pattanayer Tech.Manager





Environmental Research and Services (India) Dvt. Ltd.

(OSPCB 'A' Category Empanelled Laboratory and ISO 9001: 2015 Certified Company)

Plot No: B-22, Sector-B, Industrial Estate Chandaka, Infocity Road, Bhubaneswar-751024, Odisha Tel: +91-9437021932, +91-9937690329, E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Pg No: 1 of 1

Date: 31 Jan 2023

Test Report No: ERSIPL/TR/AA/T-014

Name and Address of the Customer

: MSP Metailics Limited, Village: Marakuta, Tehsil: Jharsuguda,

Dist: Jharsuguda, Odisha

Sample Collected by

: Representative of ERS (I) Pvt. Ltd.

Sample Collected in presence of

: Representative of the Customer.

Date of Sampling/Monitoring Sample Received on

: 13-14.01.2023

Analysis Started on

24.01.2023 : 24.01.2023

Analysis Completed on

: 31.01.2023

Method of Sampling

: ERSIPL/MSP/06

Quantity of Sample

Environment Condition

01 sample for each parameter

Sunny

Sample ID. No.

Locations ERSIPL/AA/025

ERSIPL/AA/026

1. Near Main Gate 2. Near Pellet Plant

3. ERSIPL/AA/027

3. Near Steel Melting Shop 4. Near Coke Oven Plant

4. ERSIPL/AA/028

TEST FINDINGS:

				Unit As pur E NAAQ Standards CPCS Nov-2009		Re	sults	
SI. No	Test Parameters	,Test method	Unit		ERSIPL/ AA/ 025	ERSIPL/ AA/ 026	ERSIPL/ AA/ 027	ERSIPL/ AA/ 028
1	Carbon Monoxide (CO)	By CO Monitor	mg/m ³	2.0	<1.14	<1.14	<1.14	<1.14

(Authorized Signatory) S.P.Pattanayak Tech.Manager

......END OF TEST REPORT......



Environmental Research and Services (India) Pvt. Ltd.

Camera in Total

(An 150/IEC 17025 > 2017 (NAIL) Accredited Laboratory, USPER Emponalised Laboratory and (SO 9001 : 2015 Certified Company)

Plot No: B-22, Sector-B, Industrial Estate Chandaka, Infocity Road, Bhubaneswar-751024, Odisha Tel: +91-9437021932, +91-9937690329, E-mail: ersibbsr@gmail.com

ULR-TC744023000000036F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Date: 31 Jan 2023

Name and Address of the Customer

Date of Sampling Sample Collected by

Sample Collected in presence of

Sample Received on Analysis Started on Analysis Completed on Method of Sampling Quantity of Sample Type of Container

Environment Condition

Sample ID. No.

ERSIPL/WA/038
 ERSIPL/WA/039
 ERSIPL/WA/040
 ERSIPL/WA/041

Test Report No: ERSIPL/TR/WA/017

MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha

Pg No: 1 of 1

14.01.2023

Representative of ERS (I) Pvt. Ltd.
 Representative of the Customer.

: 24.01.2023 : 24.01.2023 : 31.01.2023

: IS 3025: Part 1: 1987, Reaffirmed 2019

: 2ltrs

: Glass Bottle, HDPE Bottle & BOD Bottle : All Tests carried out in Room Temperature

Locations

Boiler Blow down of WHRB-3
 Boiler Blow down of WHRB-4
 Boiler Blow down of WHRB-5
 Boiler Blow down of WHRB-6

TEST FINDINGS

	Test					Permissible		
5. No.	Parameters	Test Method	Unit	ERSIPL /WA/ 038	/WA/ 039	ERSIPL /WA/ 040	ERSIPL /WA/ 041	Limit as per
01	pH Value	IS 3025: Part 11: 1983 Reaffirmed-2017	-	8.33	8.51	8.47	9.29	XX
02	Total Suspended Solids	IS 3025: Part 17: 1984 Reaffirmed-2017	mg/L	3.5	3.9	4.1	3.7	100.0
03	Oil & Grease	IS 3025: Part 39: 1991 Reaffirmed-2019	mg/L	1.74	2.74	1.82	1.92	20.0
04	Iron (as Fe)	IS 3025: Part 53: 2003 Reaffirmed-2019	mg/L	0.08	0.06	0.07	0.07	1.0

(Authorized Signatory)
S.P.Pattanayak
Tech.Mamager



Environmental Research and Services (India) Pvt. Ltd.

(An ISD/IEC 17025: 2017 (NABL) Accounted Laboratory, OSPCR Emporration Laboratory and ISD 9801 - 2015 Certified Company)

Plot No: B-22, Sector-B, Industrial Estate Chandaka, Infocity Road, Bhubaneswar-751024, Odisha Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

ULR-TC7440230000000037F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 31 Jan 2023

Name and Address of the Customer

Date of Sampling Sample Collected by Sample Collected in presence of

Sample Received on Analysis Started on Analysis Completed on Method of Sampling

Quantity of Sample Type of Container **Environment Condition**

Sample ID. No.

1. ERSIPL/WA/042 2. ERSIPL/WA/043 3. ERSIPL/WA/044

Test Report No: ERSIPL/TR/WA/018

: MSP Metallics Limited, Village: Marakuta, Tehsil: Iharsuguda,

Dist: Jharsuguda, Odisha 14.01.2023

Representative of ERS (I) Pvt. Ltd. Representative of the Customer.

: 24.01.2023 24.01.2023 : 31.01.2023

: IS 3025: Part 1: 1987, Reaffirmed 2019

: 2ltrs

: Glass Bottle, HDPE Bottle & BOD Bottle : All Tests carried out in Room Temperature

Locations

1. Boiler Blow down of WHRB-7 2. Boiler Blow down of WHRB-8 3. Boiler Blow down of AFBC

TEST FINDINGS

Test		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		*	Result		Permissible	
S. No.	Parameters	Test Method	Unit	ERSIPL /WA/ 042	ERSIPL /WA/ 043	ERSIPL /WA/ 044	Limit as per	
01	pH Value	IS 3025: Part 11: 1983 Reaffirmed-2017	34	8.74	8.35	8.77	××	
02	Total Suspended Solids	IS 3025: Part 17: 1984 Reaffirmed-2017	mg/L	4.2	2.6	3.5	100.0	
03	Oil & Grease	IS 3025: Part 39: 1991 Reaffirmed-2019	mg/L	2.43	1.13	*2.53	20.0	
04	Iron (as Fe)	IS 3025: Part 53: 2003 Reaffirmed-2019	mg/L	0.08	0.07	0.08	1.0	

(Authorized Signatory) S.P Pattanayak Tech.Manager





Environmental Research and Services (India) Pvt. Ltd.

(OSPCB 'A' Category Empanelled Laboratory and ISO 9001: 2015 Certified Company)

Plot No: B-22, Sector-B, Industrial Estate Chandaka, Infocity Road, Bhubaneswar-751024, Odisha Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 31 Jan 2023

Date of Sampling

Name and Address of the Customer

Sample Collected by Sample Collected in presence of

Sample Received on Analysis Started on Analysis Completed on

Method of Sampling

Quantity of Sample Type of Container

Environment Condition

Sample ID. No.

1. ERSIPL/WA/038 2. ERSIPL/WA/039 3. ERSIPL/WA/040 4. ERSIPL/WA/041

TEST FINDINGS

Test Report No: ERSIPL/TR/WA/T-017

: MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda,

Dist: Jharsuguda, Odisha

14.01.2023

Representative of ERS (I) Pvt. Ltd.

Representative of the Customer. 24.01.2023

: 24.01.2023 : 31.01.2023

: 15 3025: Part 1: 1987, Reaffirmed 2019

: Glass Bottle, HDPE Bottle & BOD Bottle

: All Tests carried out in Room Temperature

Locations

1. Boiler Blow down of WHRB-3

Boiler Blow down of WHRB-4

3. Boiler Blow down of WHRB-5

3. Boiler Blow down of WHRB-6

5.	Test	45			Re	sult		Permissible
No.	Parameters	Test Method	Unit	ERSIPL /WA/ 038	ERSIPL /WA/ 039	ERSIPL /WA/ 040	ERSIPL /WA/ 041	Limit as per CTO
01	Copper	IS 3025: Part 42: 1992 Reaffirmed- 2019	mg/L		Not De	tected		1.0

(Authorized Signatory) S.P.Pattanayak Tech.Manager

.....END OF TEST REPORT.....





Environmental Research and Services (India) Pvt. Ltd.

(OSPCB 'A' Category Empanelled Laboratory and ISO 9001: 2015 Certified Company)

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Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 31 Jan 2023

Date of Sampling

Name and Address of the Customer

Name and Address of the Custome

Sample Collected by Sample Collected in presence of

Sample Collected in presenc Sample Received on Analysis Started on Analysis Completed on

Method of Sampling

Quantity of Sample Type of Container

Environment Condition

Sample ID. No.

1. ERSIPL/WA/042 2. ERSIPL/WA/043 3. ERSIPL/WA/044 TEST FINDINGS

Test Report No: ERSIPL/TR/WA/T-018

MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda,

Dist: Jharsuguda, Odisha

14.01.2023

: Representative of ERS (I) Pvt. Ltd. : Representative of the Customer.

: 24.01.2023 : 24.01.2023

31.01.2023

: IS 3025: Part 1: 1987, Reaffirmed 2019

: 2ltrs

: Glass Bottle, HDPE Bottle & BOD Bottle : All Tests carried out in Room Temperature

Locations

Boiler Blow down of WHRB-7
 Boiler Blow down of WHRB-8
 Boiler Blow down of AFBC

	Test			+ R			Permissible	
S. No.	Parameters	Test Method	Unit	ERSIPL /WA/ 042	ERSIPL /WA/ 043	ERSIPL /WA/ 044	Limit as per CTO	
01	Copper	IS 3025: Part 42: 1992 Reaffirmed- 2019	mg/L		lot Detecte	d	1.0	

(Authorized Signatory) S.P.Partanayak Tech.Manager

.....END OF TEST REPORT......





Environmental Research and Services (India) Pvt. Ltd.

(OSPCB 'A' Category Empanelled Laboratory and ISO 9001: 2015 Certified Company)

Plot No: B-22, Sector-B, Industrial Estate Chandaka, Infocity Road, Bhubaneswar-751024, Odisha Tel: +91-9437021932, +91-9937690329, E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 31 Jan 2023

Date of Sampling

Name and Address of the Customer

Name and Address of the Custome

Sample Collected by Sample Collected in presence of

Sample Received on Analysis Started on Analysis Completed on

Method of Sampling

Quantity of Sample

Type of Container

Environment Condition

Sample ID. No. 1. ERSIPL/WA/045 Test Report No: ERSIPL/TR/WA/T-019

: MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda,

Dist: Jharsuguda, Odisha

: 14.01.2023

Representative of ERS (I) Pvt. Ltd.
 Representative of the Customer.

24.01.2023 24.01.2023

31.01.2023

: IS 3025: Part 1: 1987, Reaffirmed 2019

: 2ltrs

: Glass Bottle, HDPE Bottle & BOD Bottle

: All Tests carried out in Room Temperature

Locations

 Cooling Tower Blow Down of WHRB-01 to 08 & Cooling Tower Blow Down of AFBC

			41	Result	Described a
S. No.	Test Parameters	Test Method	Unit	ERSIPL /WA/ 045	Permissible Limit as per CTO
01	Total Chromium (as Cr*6)	IS 3025:Part 52: 2003 Reaffirmed-2019	mg/L	Not Detected	2.0
02	Free Available Chlorine	IS 3025:Part 26: 1988 Reaffirmed-2019	mg/L	NIL	, 9.5
03	Zinc	IS 3025:Part 39: 1991 Reaffirmed-2019	mg/L	Not Detected	1.0

(Authorized Signatory) S.P.Pattanayak Tech.Manager

..... END OF TEST REPORT......



CIN - U731000R1995FTC083889



GSTIN: 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

(OSPCB 'A' Category Empanelled Laboratory and ISO 9001: 2015 Certified Company)

Plot No: B-22, Sector-B, Industrial Estate Chandaka, Infocity Road, Bhubaneswar-751024, Odisha Tei: +91-9437021932, +91-9937690329, E-mail: ersibbsr@gmail.com

AMBIENT NOISE LEVEL MEASUREMENT REPORT-

Date: 31 Jan 2023

Name and Address of the Customer : MSP Metallics Limited, Village: Marakuta, Tehsil:

Jharsuguda, Dist: Jharsuguda, Odisha

Date of Measurement : 14.01.2023

Measurement taken by : Representative of ERS (I) Pvt. Ltd.

Measurement taken in presence of : Representative of the Customer.

			Result in	dB (A) Leq
51. No.		Location	Day Time Night (6.00 A. M. (10.00 - 10.00 P.M.) - 6.00 /	
1		Near Main Gate	57.4	44.8
2	Ambient	Near Administrative Building	59.8	48.6
3		Near Store Room	73.4	66.0
4		Near Boiler (WHRB-III)	71.3	65.4
5	e1	Near Boiler (WHRB-IV)	69.3	64.0
6	Source	Near Boiler (WHRB-V)	70.4	61.5
7	Places (Stationary Sources)	Near Boiler (WHRB-VI)	67.9	68.9
8		Near Boiler (WHRB-VII)	72.3	69.1
9	Jources)	Near Boiler (WHRB-VIII)	74.0	64.8
10		Near Boiler AFBC	73.2	68.0

Ambient Noise Level Standards

G		Limits in dB(A) Leq					
Area Code	Category of Area / Zone	Day Time (6.00 a.m. to 10.00 p.m.)	Night Time (10.00 p.m. to 6.00 'a.m.)				
A	Industrial Area	75	70 (3				
В	Commercial Area	65	55				
C	Residential Area	55	45				
D	Silence Zone	50	40				

(Authorized Signatory) S.P.Pattanaysk Tech.Manager

..... END OF TEST REPORT......



CR No:211162300026288

OPD CARD



Patient Name: PURNA CHANDRA PATEL

S/O: MADHUSUDHAN PATEL

Address: KHALIAMAL Jharsuguda, Odisha, India

Category: Free

Department: General Medicine-General Medicine Unit

Age/Sex : 50 Yr/M

Date & Time : 06-Jan-2023 10:50

Queue No.: 39

15

OPD Days : Mon, Tue, Wed, Thu, Fri, Sat

Patient Type: Non MLC

Counter Operator: Lu	kesh Naik	Patient Type: Non MLC	
Vitals ft (Cons) Wr (Kg)	Chief Complaints:	ocapetane Dosa	Diagnosis/ Diagnosis(Prov.)
Pulse:	III N		Part History
HP ann't ly Tessp *F		12/12	Hoper Tension (V/N) Diabeten (V/N)
ALM: Norm.			COPD (Y/N)
SP(32 15 15 15 15 15 15 15 15 15 15 15 15 15			100 H. T. STELL ST
Investigations	Examination:	Laffe S	Oncollegy: (Y/N)
CDC/LFT/KFT [Rised Sugar(K/FFP)]		*	CAD: (Y/N)
HB/TLC/DGC			Taherculosis (Y/N)
ESR/Mond Cres			Thyroid: (Y/W)
S. Creamine/S Uris Apail			Sorgery (Y/N)
Serum Bilirahin	. = . 5\		Other (Y/N)
SGGPT/SGPT			
Lipid Perfils			
Blant Group	Treatment(Rx):		Paris - Line
13.14,15H	Treatment		
Urine BA4			
X-Ray Chest PA View			
L'SG Abdomes			
TATTECHOLECG	5436.00		
Others	12 Ca. 12 S		
		Manual Company of the	
	37.	HIST STATE OF THE	To The



ସରକାରୀ ତାକ୍ତର ଖାନା ରେ ମିଳୁଥିବା ସମୟ ଔଷ୍କ୍ରାଣ୍ଡ ଗ୍ରଣ୍ଲାୟଙ୍କମାନ୍ୟ ପ୍ରତୀଶଣ ପରେ ବଣ୍ଡନ କରାଯାଏ । ଏହାଜୁ ବ୍ୟବହାର କରନ୍ତ୍ର ।





CR No:211162300026296

OPD CARD



Patient Name: PRAKASH GARUD

S/O: LATE FAKIRA GARUD

Address: REMJA Jharsuguda,Odisha,India

Category: Free

Department : General Medicine-General Medicine Unit

Counter Operator: Lukesh Naik

Age/Sex: 50 Yr/M

Date & Time : 06-Jan-2023 10:51

Queue No.: 40

15

OPD Days : Mon, Tue, Wed, Thu, Fri, Sat

Patient Type: Non MLC

Control Operator.	Guresu Mark		Patient Type: Non MLC	
Vitals Nt. (Cita) Wr. (Kg) Pulse: min 10° min/lig Tump *F KR Anin SPO2: % Investigations CHCLFT/KFT Blood Segan(RF (PP) HB/TLC/LC ISK/Bond Ofes S Creatisme/S Uric Acid	TOTAL STRUCTURE COMPANY	o brown	y ocupeton. Thet Higher	Past History Hyper Tension (Y/N) Disherer (Y/N) COPD (Y/N) Oncology (Y/N) CAD (Y/N) Tuberculous (Y/N) Thyroid (Y/N) Surgery (Y/N)
Serious Bilitation SCHOPT (SOPT Lipid Profile Blond Group LEAT (SH Lipine RAM V-Ray Chess PA View LSG Abdamus ENT/Entre.ECG Million	Treatment(Rs)			Critier: (V/N)



ସରକାରୀ ତାକ୍ତର ଖାଦା ରେ ମିଳୁଥିବା ସମୟ <u>ଔଗଧା ଗ୍ରଣ୍ଡାୟଳନ୍</u>କାନ୍ତ ପ୍ରରୀଶଣ ପରେ ବଣ୍ଡନ କରାଯାଏ । ଏହାଜ୍ର ବ୍ୟବହାର କରନ୍ତ୍ର ।





CR No:211162300026318

OPD CARD



Patient Name: RAGHUPATI BHOI

S/O: SESHADEV BHO!

Address: REMJA Jharsuguda,Odisha,India

Category: Free

Department: General Medicine-General Medicine Unit

Counter Operator: Lukesh Nnik

Age/Sex: 51 Yr/M

Date & Time : 06-Jan-2023 10:52

Queue No. : 41

15

OPD Days : Mon, Tue, Wed, Thu, Fri, Sat

Patient Type: Non MLC

counter operator. L	MACSH PHUK			Patient Type:	Non MLC		
Vitals: te: (Cmg W: (Xg)	Chief Complaints	Ho	Sogn	of	oeupote.	M Diagnosis	
Puler tun 02: mus-Hy		Ho	dicity	tot		Past History	
Temp *#					Horse	Hyper Timecon Diabetes	(Y/N) (Y/N)
SPOZ					Lins	COPD	(Y/N)
CBCALFT/KFT	Examination:				**	CAD	(Y/N)
Rhood Sugar(R/F/PP)						Tuberculose	
ISR/Bood Ures S Creatising/S Uris Acid						Thyroid Surgery	(Y/N)
Seram Dilirahin						Other	(Y/N)
igioPtisioPt ipid Profile							
Hood Group 73,74,7811	Treatment(Rx)						
rine RM (-Ray Chant PA View ISG Abdomen							
MT/Echa.ECG							
400000			DO 1	rist of		7966	100



ସରକାରୀ ତାକ୍ତର ଖାନା ରେ ମିଳୁଥିବା ସମସ୍ତ ଔଷ୍ଟ୍ରଅଧାରୁଣ୍ଡାସ୍ଥଳନ୍ନାନ୍ତ ପ୍ରଭାସର ପରେ ବଣ୍ଟନ କରାଯାଏ । ଏହାଳୁ ବ୍ୟବହାର ଜରନ୍ତୁ ।





CR No:211162300026245

OPD CARD



Patient Name: SADHU ALI

S/O: SANTA ALI

Address: PUDAPALI Jharsuguda, Odisha, India

Category: Free

Department: General Medicine-General Medicine Unit

Counter Operator: Lukesh Naik

Age/Sex: 47 Yr/M

Date & Time: 06-Jan-2023 10:49

Queue No. : 37

15

OPD Days: Mon, Tue, Wed, Thu, Fri, Sat

Patient Type; Non MLC

Charles and Harrist St.	- Milano Charles March	
Vitals:	Chief Complaints:	Diagnosis(Prov.):
Wi (Ng)	Mo 919n of occupational	Dr sen
itymus/fig	mudical fet	Past History
Temp *F		Hyper Tennin (Y/N) Diabetes (Y/N)
OO2 No	1 buy 100	COPD. CVN
BCAFTAFT	Examination.	CAD (Y/N)
HET CADGE		Tuberculosts: (Y/N)
St/Hood Ures Creatimen'S Uric Acid		Thyrnid (Y/N) Surgary: (Y/N)
orum Bilimbin GOPT/SGPT		Other (Y/N)
pid Profile lood Group 3,74,7314	Treatment(fex):	
ine R/M Ray Chest PA View Ki: Abdomes		
dT/helm,ECG hery		



ସରକାରୀ ତାକ୍ତର ଖାନା ରେ ମିଳୁଥିବା ସମସ୍ତ ଜ୍ୱିଲ୍ଲ୍ଲା,ଗ୍ଲଣ୍ଲାସ୍ଲଳନ୍କାନ୍ତ,ପ୍ରଭୀଷଣ ପରେ ବଣ୍ଟନ କରାଯାଏ । ଏହାଜୁ ବ୍ୟବହାର କରକ୍କୁ ।





CR No:211162300026261

OPD CARD



Patient Name: HEMANTA BADI

S/O: BIMBADHAR BADI

Address: LEPRIPADA Sundargarh, Odisha, India

Category: Free

Department: General Medicine-General Medicine Unit

Counter Operator: Lukesh Naik

Age/Sex: 52 Yr/M

Date & Time : 06-Jan-2023 10:50

Queue No.: 38

15

OPD Days: Mon, Tue, Wed, Thu, Fri, Sat

Patient Type: Non MLC

Counter Operator: L	ukesh Nnik	SOURCE IN LITTLE STATE OF THE S	Patient Type: Non Mile			
Vitals: Hi (Cms) W: (Kg)	Chief Complaints:	et oespeto	a Disay	Diagnosis/Prov.):		
Pales Jones BP mortly Temp **	Mudic	ed fet	*	Pan Hunory: Hyper Tension (Y/N)		
RR dean SPO2 % Investigations CHCLFTKFT	Examisation:	1de gr	25	Diabetes (Y/N) COPD (Y/N) Oscoling: (Y/N) CAD: (Y/N)		
Blood Sugar(R.F.PP) HINTECOLC ESR/Rood Unia S Creatinger's Unia Acid				Tuherculous (Y/N) Thyrush (Y/N) Surgery: (Y/N)		
Serios Billindin SGCBT/SCBT Lipid Profile				Other: (Y/N)		
Hand Croup 13,74,75H Urine R/M	Treatment(Rx).		49			
X-Ray Client PA View USG Abdomin TNOT/Echo,ECG						
Others						
				l lang		



ସରକାରୀ ଡାକ୍ତର ଖାନା ରେ ମିଳୁଥିବା ସମୟ ଔ୍ଲୟା, ପ୍ରଶାୟଳମାନ, ପ୍ରରୀୟଣ ପରେ ବଣ୍ଟନ କରାଯାଏ । ଏହାଳ୍ର ବ୍ୟବହାର କରଲ୍ଲ ।





CR No:211162300026229

OPD CARD



Patient Name: JUGAL PRADHAN

S/O: MAKUNDA PRADHAN

Address: KUTRADERA Jharsuguda,Odisha,India

Category: Free

Department: General Medicine-General Medicine Unit

Counter Operator, Lukesh Naik

Age/Sex: 46 Yr/M

Date & Time: 06-Jan-2023 10:48

Queue No.: 36

1.5

OPD Days : Mon, Tue, Wed, Thu, Fri, Sat

Patient Type: Non MLC

Counter Operator, Li	akesh Naik	Fanc	or 1 ber 1 on the same	The second second
Vitals: If (Case) We (Kg)	Chief Complaints:	Bogs of	oleypetens	Diagnosis(Prov.)
Pulse mini		modern	rel	Past History
ne moliq leng •F			194/120	Hyper Tension (Y/N) Dishence (Y/N)
R.H. /min.			8 11/20	THERETON STRONG
SPG2 54				COPD (Y/N)
Irrentigations	Examination:			Oncology (V/N)
CHCAFFACT	4			CAD: (Y/N)
Blood Sugar(RF/PP)			4	Tuberculosis: (Y/N)
mm,cace				Thyroid (Y-N)
ESR/Bood Urm				Surgery (Y/N)
S.Crestinine'S Unc And				Other (Y/N)
Secum Dillendon				
SCOPT/SCPT				
Lipid Profile	THE STATE OF THE S			
Blood Group	Treatment(Rx):			
13,14,780				
Urine R/M N-Ray Chext PA View				
USG Abdumus				
TMTEche,DCG				
Others				
CTHEST.				
				1
				WEALTA



ସରକାରୀ ତାକ୍ତର ଖାନା ରେ ମିଳୁଥିବା ସମୟ ଔ୍ଲିଲ୍ଲ ପ୍ରଶାୟଳନ୍ନାନ୍ତ ପ୍ରରୀକ୍ଷଣ ପରେ ବଣ୍ଟନ କରାଯାଏ । ଏହାକ୍ରବ୍ୟବହାର କରନ୍ତ୍ର ।





CR No:211162300026148

OPD CARD



Patient Name: SANTHILI KUMAR

S/O: PARUMAL

Address: SARBAHAL Jharsuguda, Odisha, India

Category: Free

Department : General Medicine-General Medicine Unit

Counter Operator: Lukesh Naik

Age/Sex: 48 Yr/M

Date & Time: 06-Jan-2023 10:45

Queue No.: 34

15

OPD Days : Mon, Tue, Wed, Thu, Fri, Sat

Patient Type: Non MLC

Chief Complaints	Mo	Euni e	h being	Sectory D	Diagnosis(Prov.).
Examination		relicaly			Part Hunory Hyper Tensionic (V/N) Diabetex (V/N) COPD (V/N) CODE (V/N) CAD: (V/N) Tuberculosis (V/N)
					Surgery: (Y7N) Chlor (X/N)
Treatment(Rx)				19	- · i i y
	X	Examination	Mo Sugue	Mo Sini of Being And	Mo Suru of Becapetary D Modray For Here First



ସରକାରୀ ଡାକ୍ତର ଖାନା ରେ ମିଳୁଥିବା ସମୟ ଔଶ୍ଲୟ ସ୍ଥଲାୟଳନ୍ନାନ୍ତ ସର୍ଭସ ପରେ ବଣ୍ଡନ କରାଯାଏ । ଏହାକ୍ରବ୍ୟବହାର କରନ୍ତୁ ।





FromNo.31-A

HEALTHRECORD

Pre-employment / Periodical [PrescribedunderRule62-1]

SL.No.

1. Name of the Factory

2. Name of the Employee

3. Employee Distinguishing Number

Age of the Employee Identification Mark Nature of the job

5. Date of Employment

6. LengthofService inyears

7. General Survey

Health

Height

Weight

8. BloodGroup

9. Eye Vision

Uscofglass

10. Hearing

11. RespiratorySystemandChestMeasurement

Inspiration

Expiration

Respirationrate

Remarks,If any

12. CardiovascularSystem

Pulserate

B.P.

Heart Sound

Remarks, If any

13. AbdomenTenderness

14. NervousSystem

HistoryofFits

Epilepsy

Remarkson Mental Health

AND PRINTED SOUND

: MSP Metallies Limited

: Dhing Keemor : Comos India Pha Lod

Date:

:2140

: one black more in Oh +

: anches Boiler youls

Good/Fair/Poor

: 165

Cms.

: 68

Kg.

: Btie

Normal/Abnormal

Yes/No

Normal/Abnormal

: 86

Cms.

:82

Cms.

: 16

/Min.

+ HIL

Min.

: AZ-

: Nommer

FVIL

Yes/No

MIL

Yes/ No

Yes/No

15. LocomoterSystem
16. SkinCondition:
17. RemarksonanySkinDiscasenoticed
18. Hernias
19. Hydrocele
19. Hydrocele
20. PresentComplain,Hany

1 Normal/Abnormal

Normal/Abnormal

Present/Absent

Present/Absent

:

:

\$

21. Summaryoffindings

HeartDisease

Hypertension

Diabetes

T.B.

Epilepsy

Poisoning

Others

Occupation Disease, Ifany

22. Recommendation, if any for any further Investigation

Quisian Kurnant
Signature of the Employee

Signature of the Medical Officer

Regn.No

Col. [Dr.] R. Q. Warld

(Retd.)

Medical Officer MSP Metallies Ltd. Marakuta, Jharsuguda



Ministry of Health & Family Welfare Government of India

Certificate for COVID-19 Vaccination

Issued in India by Ministry of Health & Family Welfare, Govt. of India

Certificate ID 13426417562

Beneficiary Details

Beneficiary Name / लाभावीं का नाम

Age / 39

Gender / Min

D Ventied / पहचान पत्र सत्यापित

Unique Health ID (LP-IID)

Beneficiary Reference ID

Vaccination Status / टीकाकरण की स्थिति

Vaccination Details

Vaccinated By / टीका लगाने वाले का नाम

Vaccination At / शीकाकरण का स्थान

Dhiraj kumar

21

Male

Aadhaar # XXXXXXXX4266

74-6548-1287-2773

77503189546800

Fully Vaccinated (2 Doses) and a Precaution Dose

HARI PRAKASH

WORKPLACE TATA JAMADOBA PVT, Dhenbad, Jherkhand

Dose Number खुराक की संख्या	Date of Dose खुराक की तारीख	Vaccine Name वैद्यसीन का नाम	Batch Number बैच संख्या	Vaccine Type टीका का प्रकार	Manufacturer उत्पादक
1/2	08 Jun 2021	COVISHIELD	41212075	COVID-19 vaccine, non-replicating viral vector	Strum Institute of India
2/2	12 Sep 2021	COVISHIELD	41218184	COVID-19 vaccine, non-replicating viral vector	Secure Institute of Incile
Precaution dove	11 Jul 2022	COVISHIELD	4121MC169	COVID-19 vaccine, non-replicating viral vector	Serum institute of India Pvt. Ltd.



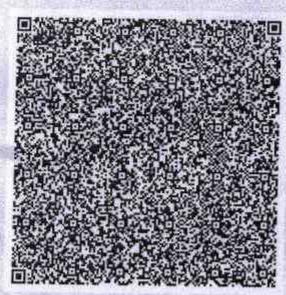
"दवाई भी और कड़ाई भी। Together, India will defeat COVID-19"

- प्रधानमंत्री नरेंद्र मोदी

In case of any adverse events, landly contact the morest Public Health Center/ Healthcare Works/District immunigation Officer/State Helpline No. 1075

टीकाकरण परचात किसी प्रतिवृक्त घटना के होंने पर नजरीकी स्थास्थ्य केन्द्रस्थास्थ्य कार्रीतिक्ता टीकाकरण अधिकारीताच्या हुन्य लाहन १९७५ पर सम्पर्क कर्न

COWIN Winning Dver COVID



This certificate can be verified by scanning the GR code at http://verify.cowin.gov.in



FromNo.31-A

HEALTHRECORD

Pre-employment / Periodical [PrescribedunderRule62-1]

Date: 28 64 47

.No.			A SAME NAME OF THE OWNER OWNER OF THE OWNER
1.	Name of the Factory	: M S P Metallics Lin	nited
2.	Name of the Employee	: Shyam ye	MAN
3.	Employee Distinguishing Number	: Hiralal 40	CLUN
4.	Age of the Employee	: 19	
	Identification Mark		cle on his lest hone
	Nature of the job	: Superville	*
5.	Date of Employment	: 281 04193	
6.	LengthofService inyears	: NIC-	A CONTROL OF THE CONT
7.	General Survey		
	Health	: Good/Fair/Po	or
	Height	: 166	Cms.
1	Weight	1 6b	Kg.
8.	BloodGroup	1 Othe	
9.	Eye Vision	: Normal/Abno	rmal
	Useofglass	: Yes/No	
10.	Hearing	1 Normal/Abno	rmal
11.	. RespiratorySystemandChestMeasurement		
	Inspiration	: 66	Cms.
	Expiration		Cms.
	Respirationrate	188	/Min.
	Remarks, If any	: NIL	
12.	CardiovascularSystem		
	Pulserate	192_	Min.
	B.P.	:120180	
	Heart Sound	: Nammal	
	Remarks,If any	· ML L	
13.	AbdomenTenderness	: Yes/No	
17.00	NervousSystem	· WIL V	
	HistoryofFits	: Yes/No	
	Epilepsy	Yes/No	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1

RemarksonMentalHealth

15. LocomoterSystem

16. SkinCondition:

17. RemarksonanySkinDiseasenoticed

18. Hernias

19. Hydrocele

20. PresentComplain,Ifany

Normal/Abnormal

Normal/Abnormal

MIL

Present/Absent

Present/Absent

ŧ

:

21. Summaryoffindings

HeartDisease

Hypertension

Diabetes

T.B.

Epilepsy

Poisoning

Others

OccupationDisease,Ifany

22. Recommendation, if any for any further Investigation

SignatureoftheEmployee

Signature of the Medical Officer

Regn.No

Medical Officer MSP Metallics Liel.

Sarakuta, Pharsuguta



Ministry of Health & Family Welfare Government of India

Certificate for COVID-19 Vaccination

Issued in India by Ministry of Health & Femily Welfare, Govt. of India

Cartificate ID 98876096934

Beneficiary Details

Beneficiary Name / लामार्थी का नाम

Age / 34

Gender / लिग

D Verified / पहचान यन सत्यापित

Unique Health ID (UHID)

Beneficiary Reference ID

Vaccination Status / टीवाकरण की स्थिति

Vaccination Details

Voccinated By / टीका लगाने वाले का नाम

Vaccination At / टीकावरण का स्थान

Shyam Yadav

400

Male

Aedhoor & XXXXXXXXXXX

9109166379598

Fully Voccinated (2 Doses)

Shushma Kor

Pakeridayal SOH HOSPITAL, East Champeren, Siher

Dose Number स्टारू की संख्या	Date of Dose खुराक की तारीख	Vaccine Name वैक्सीन का नाम	Batch Number वैश्व शंख्या	Vaccine Type टीका का प्रकार	उत्पादक
3	27 Nov 2021	COVIEWED	6121201014	COVID-19 section, mon-replicating yiel vector	Series inclinate of India PM. Ltd.
12	01 Sep 3022	COVIENSIA	4123MC163	COVID-19 viscine, non-replicating viral vector	Serum institute of India Put. Ltd.

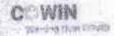


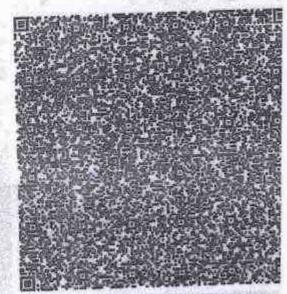
"दवाई भी और कड़ाई भी। Together, India will defeat COVID-19"

- प्रधानमंत्री नरेंद्र घोढी

in case of any agree to exemp, analy contact his remains A one or attributed the one Walter California (Entering of Disco) State Malphia No. 1075

रीकाकाल प्रत्यात कियाँ प्रतिकृत प्रत्या के होने पर रज्योंकी स्वतंत्रत कर स्वतंत्रक कर्त विक्ता टेस्कास्त्रक अधिकारीकाल स्वतंत्र सामृत्र १९७६ वर सम्पर्क कर





The celtificate can be washed by separate P.A. GB conebranchinglycom rigory



FromNo.31-A

HEALTHRECORD

Pre-employment / Periodical

[PrescribedunderRule62-1]

Date: 28 04 27

SL.No.

1. Name of the Factory 2. Name of the Employee 3. Employee Distinguishing Number 4. Age of the Employee Identification Mark	: MSP Metallics Limited : Afay Lakara : Jama Fohricator : Qo : A scorch mane on (1) fax
Nature of the job 5. Date of Employment	: Fitte 7 : 28/14/23
6. LengthofService inyears	: NIL-

-04	Personal Committee of Committee
There	General Survey
14 T. P. L.	The being being date of the latest of the la

Health

Height Weight

8. BloodGroup

Eye Vision Useofglass

10. Hearing

11. RespiratorySystemandChestMeasurement

Inspiration Expiration

Respirationrate

Remarks, If any

12. CardiovascularSystem

Pulserate

B.P.

Heart Sound

Remarks,If any

13. AbdomenTenderness

14. NervousSystem

HistoryofFits

Epilepsy

RemarksonMentalHealth

Good/Fair/Poor

166 · Cms.

orne

Normal/Abnormal

Yes/No

Normal/Abnormal

. Gi Cms.

Cms.

NIC

: A2 . Min.

: 120180

· Normal

Yes/No

NIL

Yes/ No

Yes/ No

9000

15. LocomoterSystem

16. SkinCondition:

17. RemarksonanySkinDiseasenoticed

18. Hernias

19. Hydrocele

20. PresentComplain,Ifany

Normal/Abnormal

Normal/Abnormal

NIL

Present/Absent

Present/Absent

NIL

ŧ

1

4

:

:

21. Summaryoffindings

HeartDisease

Hypertension

Diabetes

T.B.

Epilepsy

Poisoning

Others

Occupation Disease, Ifany

22. Recommendation, Ifany for any further Investigation

Signature of the Employee

Signature of the Medical Officer Regn.No

> Medical Officer Map Memilies Ltd.

Maraketa, flarengede



Ministry of Health & Family Welfare Government of India

Certificate for COVID-19 Vaccination

Issued in India by Ministry of Health & Family Welfare, Govt. of India

Certificate ID 92928434657

Beneficiary Details

Berieficiary Name / SIGISTOR PIR

Age / SQE

Gender / Gar

D Verified / ଆଇଟି ସହ୍ୟାପିତ ହୋଇଛି

Unique Health ID (UHID)

Beneficiary Reference ID

Vaccination Status / 安保保留は登録

Vaccination Details

Viccinated By ି ହିନ୍ତା ଦେଉଥିବା ଦ୍ୟକ୍ତିଙ୍କ ନାମ

Vaccination At / 6101000 gip

Ajay Lakra

19

Male

Andhaur # XXXXXXX1635

31961822177350

Fully Vaccineted (2 Doses)

SANARTI HANUMAN

Bileigarh PHC, Sundargarh, Odisha

Dose Number ଖୋଗନ ନମ୍ବର	Date of Dose Chicked pigts	Vaccine Name ତିଳା ଜନ୍ମ	Batch Number ଦେନ ନମ୍ବର	Vaccine Type ଟିକା ପ୍ରକାର	Manufacturer คิติเจเ
1/2	17 Aug 2021	COVIENIELO	412100063	COVID-19 recrise, non-replicating viral vector	Serum inedicate of India
2/2	12 Nov 2021	COVISHELD	4125E00586	COVID-19 vectors, non-replicating viral vector	Sorum Institute of India Pvc. Ltd.

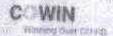


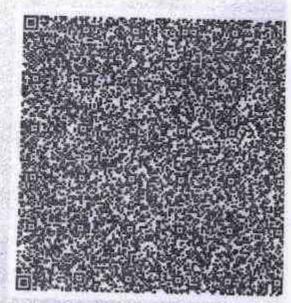
"ଔଷଧ ମଧ୍ୟ ଏବଂ ଜଠୋରତା ମଧ୍ୟ Together, India will defeat COVID-19"

ପ୍ରଧାନମଦ୍ରୀ ଜରେନ୍ଦ୍ର ମୋଡ଼ି

in case of any adversar evenue, for digitarisms the nemest Mubic Hearth Content Hearth Content Member District Processings - Officer/State Methods No. 1075

ଲୌଲି ପ୍ରତାର ପୂର୍ବକୁକ ପଦଶା ଉଦିତର ଉପାନ୍ତି ନିକ୍ଷମପୁ କେମ୍ବର୍ଣ୍ଣ ଲଫ୍ଲ / କୁମ୍ବକ୍ତର ହଳୀ । ବିହା ବଂକାରେଣ ଅଧିକଳ / ଜଣ୍ୟ ହେନ୍ତୁରାରଙ୍ଗ ହନ୍ତୁର । ୦.୮୯ ସହିତ ଗେଳାହୋଇ ବଲ୍ଲନ୍ଥ





15. Locomoter System

16. Skin Condition:

17. Remarks on any Skin Disease noticed

18. Hernias

19. Hydrocele

20. Present Complain ,If any

Normal/Abnormal

Normal/Abnormal

Present/Absent

Present/Absent

21. Summary of findings

Heart Disease

Hypertension

Diabetes

T.B.

Epilepsy

Poisoning

Others

Occupation Disease Af any

٠ :

22. Recommendation, if any forany further Investigation

Gunniting

SignatureoftheEmployee

Signature of the Medical Officer Regn.No

Medical Officer MSP Metallics Ltd.

Marakuta, Iharsuguda



Ministry of Health & Family Welfare Government of India

Certificate for COVID-19 Vaccination

Partially Vaccinated : 1st Dose

Beneficiary Details

Beneficiary Name / आमार्थी का नाम

Age / 38

Gender / Min

D Verified / पहचान पत्र सत्यापित

Unique Health ID (UHID)

Beneficiary Reference ID

Sanjay

39

Malo

Aadhaer # XXXXXXXX6536

34651904227105

Vaccination Details

Veccine Name । देक्सीन का नाम

Date of 1º Dose / पहली खुराक की तारीख

Next due date / अगली नियत तिथि

Vaccinated by / टीका लगाने वाले का नाम

Vaccination at / टीकाकरण का स्थान

COVISHIELD

13 Sep 2021 (Batch no. 4121AA011M)

Between 06 Dec 2021 and 03 Jan 2022

Vinod

CHC Muradnagar..., Ghaziabad, Utter

Pradesh



"दवाई भी और कड़ाई भी। Together, India will defeat COVID-19"

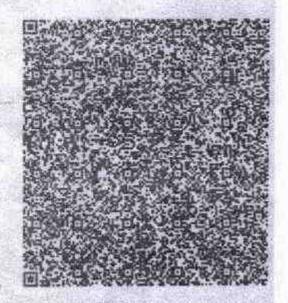
- प्रधानमधी नरेंद्र मोदी

In case of any powers powers sandly operate the new Princip Health Control Section (No. 1075)

देका कर्ता परवाल किसी व्हेंबुक्त घटना के होते पर नजारीकी समस्त्र केप/स्टरका करी पाता देवाल्डरमा प्राचिकतिकारक देना लाहन ६०२५ वर समाधिकर्त









FromNo.31-A

HEALTHRECORD

Pre-employment / Periodical [PrescribedunderRule62-1]

SL.No.

RemarksonMentalHealth

Date: 28164[2]

SLINO.				
1. Name of the Factory		: M S P Metallics Limited		
2. Name of the Employee	: Chaiton k	: Chaiten kin (a) : Jame fortunication : 29 : A Madermole on his fac		
3. Employee Distinguishing Number	: Jame Fado	matun		
4. Age of the Employee	: 29	. m his fac		
Identification Mark	: A We to make	yce on t		
Nature of the job	: A WEIDE	: A WEIDER		
5. Date of Employment	: 08/04/23.	Safet attended		
6. LengthofService inyears	: NI _			
7. General Survey		Milking		
Health	: Good/Fair/l			
Height	. 120	Cms.		
Weight	: 60	Kg.		
8. BloodGroup	: 0+ve			
9. Eye Vision	: Normal/Ab	: Normal/Abnormal		
Useofglass	: Yes/No	: Yes/No		
10. Hearing	: Normal/Ab	normal		
11. RespiratorySystemandChestMeasurement				
Inspiration	: 99	Cms.		
Expiration	: 88	Cms.		
Respirationrate	: A	/Min.		
Remarks,If any	: NIL	SEMINETY DESCRIPTION		
12. CardiovascularSystem				
Pulserate	: 92	Min.		
B.P.	: 120180	: 120/80		
Heart Sound	: Normal			
Remarks,If any	: WIL	: WIL		
13. AbdomenTenderness	: Yes/No	: Yes/No		
14. NervousSystem	; NIL			
A CONTRACT OF THE PARTY OF THE	: Yes/ No	: Yes/ No		
HistoryofFits	: Yes/ No			
Epilepsy	0	No. of the Control of		

15. LocomoterSystem 16. SkinCondition:

17. RemarksonanySkinDiseasenoticed

18. Hernias 19. Hydrocele

20. PresentComplain,Ifany

Normal/Abnormal

Normal/Abnormal

NIL

Present/Absent

Present/Absent

21. Summaryoffindings

HeartDisease

Hypertension

Diabetes

T.B.

Epilepsy

Poisoning

Others

OccupationDisease,Ifany

22. Recommendation, if any for any for ther Investigation

Signature of the Medical Officer

Regn.No

(Retd.)

Medical Officer MSP Metallics Ltd.

Marakuta, Jharsugu Ia



Ministry of Health & Family Welfare Government of India

Certificate for COVID-19 Vaccination

issued in India by Ministry of Health & Family Welfare, Govt. of India

Certificate ID 19513266472

Beneficiary Details

Beneficiary Name / HINNET OF HIS

Age / 39

Gender / लिग

D Verified / पहचान पत्र संस्थापित

Unique Hewith ID (UHID)

Beneficiary Reference ID

Vaccination Status / टीकाकरण की स्थिति

Vaccination Details

Vaccinated By / टीका लगाने वाले का नाम

First its insempts | th notions with

Chaltan Kumar Seo

28

Male

Ration Card # 223865088163

7130366801546

Fully Vaccinated (2 Doses)

Manju Ekka

PHC JAMGAON, Raigarh, Chhattisgarh

Dose Number खुराक की संख्या	the same of the same of the same of	Vaccine Name वैक्सीन का नाम	Batch Number वैच संख्या	Vaccine Type टीका का प्रकार •	Manufacturer 3/41/28
1/2	19 Jun 2021	COVIENNO	4120223	COVID-16 vectors, non-replicating visal vector	Securi Institute of Instig
2/2	18 Sep 2021	COVISIONELO	41212223	COVID-16 vectors, non-replicating viral vector	Serum institute of India Pvs. Ltd.



"दवाई भी और कड़ाई भी। Together, India will defeat COVID-19"

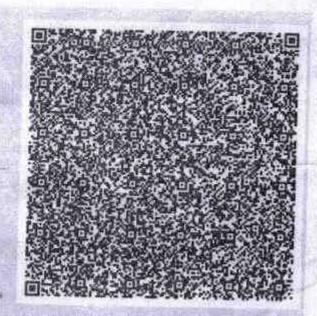
- प्रधानमंत्री नरेंद्र मोदी

It case of any doverse events, source consist the recess Public Health Corners Healthcare Wassers Indicating a Spring Colors Subject States Heipfiers, No. 1075

टीकाकरण प्रशास किसी प्रतिकृति घटना के होने पा अन्योकी स्वास्त्र केंद्र स्वास्त्र कर्मातीकर टीकाकरण अधिकारी साम्ब होना साक्षा १०७४ घर सम्बद्ध करे

COWIN

Witning Ohlp ECEVED





FromNo.31-A

HEALTHRE CORD

Pre-employment / Periodical

[Prescribed under Rule62-1]

Remarks on Mental Health

SL.No. Date: 1. Name of the Factory : MSP Metallics Limited 2. Name of the Employee : Scenil Yadar : S.S. Constractors : 3947 : One cent mark in Mose 3. Employee Distinguishing Number 4. Age of the Employee Identification Mark : gas Cutter Nature of the job : 29-04- 33 5. Date of Employment 6. Length of Service in years 7. General Survey Health Good/Fair/Poor Height : 150 Cms. Weight : 50 Kg. 8. Blood Group Bthe 9. Eye Vision Normal/Abnormal Use of glass Yes/No 10. Hearing Normal/Abnormal 11. Respiratory System and Chest Measurement Inspiration : 86 Cms. . 82 Expiration Cms. Respirationrate /Min. Remarks, If any 12. Cardiovascular System Pulserate 120180 B.P. Heart Sound Remarks, If any 13. Abdomen Tenderness 14. Nervous System History of Fits Yes/No Epilepsy Yes/ No

15. Locomoter System

16. Skin Condition:

17. Remarks on any Skin Disease noticed

18. Hernias

19. Hydrocele

20. Present Complain ,If any

Mormal/Abnormal

Normal/Abnormal

Present/Absent

Present/Absent

And

21. Summary of findings

Heart Disease

Hypertension

Diabetes

T.B.

Epilepsy

Poisoning

Others

Occupation Disease ,If any

- Not

:

:

;

22. Recommendation if any forany further Investigation

Sund Jadau

SignatureoftheEmployee

Signature of the Medical Officer

Regn.No.

Medical Officer
M.P Metallics Ltd.
Minketa harrigada



Administry of Health & Family Welfers Government of India

Certificate for COVID-19 Vaccination

issued in India by Ministry of Health & Family Walfare, Govt. of India

Cartificate ID 76861263585

Beneficiary Details

Beneficiary Name / सामार्थी का नाम

Age / 39

Gender / लिंग

ID Verified / पहणान पन सत्यापित

Unique Health ID (UHID)

Beneficiary Reference ID

Vaccination Status / टीकाकरण की स्थिति

Vaccination Details

Vaccinated By / टीका लगाने वाले का नाम

Vaccination At / टीकाकरण का स्थान

Sunit Yadav

20

Minio

Andhanr # 2000000005384

15245815603214

Fully Vaccinated (2 Doses)

Abhilesha

HUSSAINABAD Health Centre, Palamu, Jharkhand

Dose Number सुराक की संख्या	Date of Dose खुराक की तारीख	Vaccine Name वैक्सीन का नाम	Batch Number वैच संख्या	Vaccine Type दीका का प्रकार	Manufacturer उत्पादक
92	01 Oct 2021	сомению	#124E307	COVID-19 vaccine. non-replicating viral vector	Serum Institute of India Pvg. Ltd.
2/2	31 flur 3032	COMBHIBLD	412 UAA082M	COMD-19 vectice, non-replicating visal vector	Serum institute of India Pvt.



"दवाई भी और कड़ाई भी।

Together, India will defeat COVID-19"

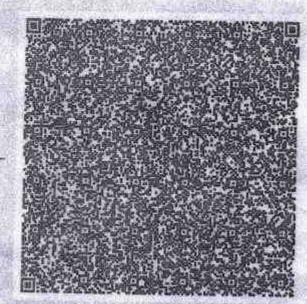
- प्रधानगंत्री नरेंद्र मोदी

in case of any adverse events, idealy contact the meanest Public Health Censed Healthcare Worket/District Immunication Officer/State Helpline No. 1075

विकामसम् परमात किसी प्रतिकृत घटन के शन पर नामविकी स्थानस्थ वेद्यान्यास्थ्य कर्तीरवितः वीधाकस्य अधिकारीक्षास्य इत्ये साहत १०७५ वर सम्पन्ते कर

COWIN

Winning Over COVID



This confidence can be unabled by snakely see the rests of



FromNo.31-A

HEALTHRE CORD

Presemployment / Periodical

[Prescribed under Rule62-1]

Date: DOILOSIA)

SL.No.

1. Name of the Factory Name of the Employee

3. Employee Distinguishing Number

4. Age of the Employee Identification Mark Nature of the job

5. Date of Employment

6. Length of Service in years

7. General Survey

Health Height Weight

8. Blood Group

9. Eye Vision Use of glass

10. Hearing

11. Respiratory System and Chest Measurement

Inspiration Expiration Respirationrate

Remarks, If any

12. Cardiovascular System

Pulserate

B.P.

Heart Sound

Remarks, If any

13. Abdomen Tenderness

14. Nervous System

History of Fits

Epilepsy

Remarks on Mental Health

; MSP Metallics Limited

sulpomta Haldar

: mspros 37

: A Burn mark on WI (fond.

: mas (manager) execution

: 09/05/27

: ML

Good/Fair/Poor

Cms. 160 47 Kg.

Normal/Abnormal

Yes/No

Normal/Abnormal

: 012

Cms.

: 23

Cms.

: 12

/Min-

Min.

: 700

: 40/80

Nommal

MIL

Yes/No

NUL

Yes/No

Yes/ Nq

15. Locometer System

16. Skin Condition:

17. Remarks on any Skin Disease noticed

18. Hernias

19. Hydrocele

20. Present Complain .If any

: Normal/Abnormal

Normal/Abnormal

NIL

Present/Absent

Present/Absent

: M1

1

:0014

:

21. Summary of findings

Heart Disease

Hypertension

Diabetes

T.B.

Epilepsy

Poisoning

Others

Occupation Disease Af any

22. Recommendation, if any forany further

Investigation

Sunna Handin. Signature of the Employee

SignatureoftheMedicalOfficer

Regn.No

Medical Officer MSP Metallics Ltd.

hisrakuta, harsuguda

20

Dr. R.K. Chakraborty

M.B.B.S (Cal.)

General Physician Reg. No.-27338



Chamber:
Locknath Clinic

Cooper's Bazar, Ranaghat, Nadia, Pin-741232

Date 07-05-2023

Age:- 42 Sex:+HM

This is to certiby That Surranta

Haldar age - 42 year's sto Late.

Janardan Haldar on Costper's

Camp MAA wood NO-7 foot Cooper's

Camp of Romaghat Dist Navia

His Hight 56it 2 mch

Weight 49 Kg Chest 39 mch

Eye-6, Normalfor Lett Byl-6, worm

V. D. R. Negative No Chomic

disease is seen He bit to

nends so jab





From No. 31-A

HEALTH RECORD

Pre-employment / Periodical [Prescribed under Rule 62-1]

SL. No.

5. 6. 7.

10.

1. Name of the Factory

4. Age of the Employee

Identification Mark

2. Name of the Employee

3. Employee Distinguishing Number

: MSP Metaller Ital

: Dheeray La Yader

: MSP mossic

: 2940

: one black more on fore

head

Sr Ingineer

Date:

Nature of the job	, head	
Date of Employment	Sr ang	nneer
Length of Service in years	2.5.	23.
General Survey		
Health	: Good	Fair/Poor
Height	: 168	Cms
Weight	: 65	Kg.
Blood Group	: Atre	L VIE
Eye Vision	: Norm	Abnormal
Use of glass	: Yes/	No
Hearing	: Norm	al / Abnormal
Respiratory System and Chest Measurement		
Inspiration	: &C	Cms

Inspiration : &C Cms.
Expiration : & 2 Cms.
Respiration rate : 1.7 /Min.
Remarks, If any : ^60

12. Cardiovascular System

Pulse rate

B. P.

Heart Sound

Remarks, If any

13. Abdomen Tenderness

14. Nervous System

History of Fits

Epilepsy

Remarks on Mental Health

: 72 Min.

JAY -

Yes / No

Yes/No

Yes / No

3000

15. Locomoter System

16. Skin Condition

Remarks on any Skin Disease noticed

17. Hernias

18. Hydrocele

19. Present Complain, If any

Wormal / Abnormal

;

:

ŧ

:

:

Normal / Abnormal

Present /Absent

Present / Absent

20. Summary of findings

Heart Disease

Hypertension

Diabetes

T. B.

Epilepsy

Poisoning

Others

Occupation Disease, If any

21. Recommendation, if any for any further Investigation

Signature of the Employee

John

Signature of the Medical Officer Regn. No

Col.(Dr.) R. C. Salm (Retd.) Medical Officer MSP Metallics Ltd. Marakuta, harsuguda

MEDICAL FITTNESS CERTIFICATE

		Add.PHC=Jaunpur	
OPD Re	gd. No 11976	Date: - 25) 4/29	
	This is to certify that Sh	il/Smt/Km. Oheerai by 40 do	91
S/o, W/o,1	210, Kerry Wrasoc Yoda	PRIO VIII. Dhabasa Post Post	Hakas
Distr. 19	Age about 29	Years whose signature is attested	1
below app	peared personally before me for	r his/her medical examination today	
	I Examined him/her tox	lay and now She is Fit to resume	
his/her nor	rmal duties onwards.In my opi	nion.	
			-

Deler !

Signed of---- RTI/LTI

Attested

Medical officer Incharge stedies officer by Add. PHC. Grand Jaung R. Singaraman

deales

Medical officer tuchurge

Add. PHC. Chargester Janpur.



FromNo.31-A

HEALTHRE CORD

Pre-employment / Periodical

[Prescribed under Rule62-1]

SL.No.

			11711777
1,	Name of the Factory	: MSP Metalli	cs Limited
2.	Name of the Employee	: Sarendr	231 T C (120) 2211
3. 1	Employee Distinguishing Number	: W) \$ p 0 0056	
4. /	Age of the Employee	: 737-610	Warrange of the Control of the Contr
1	Identification Mark	: one blac	is note in thes
1	Nature of the job	· CRO	
5. 1	Date of Employment	: 37773	
6. I	ength of Service in years	: 11/	
7. (General Survey		
E	lealth	: Good/Fa	ir/Poor
E	leight	: 168	Cms.
V	Veight	. 67	Kg.
8. B	Blood Group	· otra	
9. E	ye Vision	: Normal/	Abnormal
U	se of glass	: Yes/No	8 years and
10. H	learing	: Normal/	Abnormal
11. R	espiratory System and Chest Measuremen		
In	spiration	: 86	Cms.
E	xpiration	: 82_	Cms.
R	espirationrate	: to	/Min.
R	emarks, If any	· de	
12. C	ardiovascular System		
Pt	ulserate	: 22_	Min.
В.	P.		
He	eart Sound	: 120184 : NUT	
Re	emarks, If any	: ~ N-51	
13. AL	odomen Tenderness	: Yes/No	
14. Ne	ervous System		The second second
Hi	story of Fits	: Yes/No	
Ep	ilepsy	: Yes/No	
Re	marks on Mental Health	: 000	
	The state of the s	4000	

Normal/Abnormal 15. Locomoter System Normal/Abnormal 16. Skin Condition: 17. Remarks on any Skin Disease noticed Present/Absent 18. Hernias Present/Absent 19. Hydrocele 20. Present Complain ,If any

21. Summary of findings Heart Disease Hypertension : Diabetes : T.B. : Epilepsy : Poisoning Others : Occupation Disease ,If any :

22. Recommendation, if any forany further Investigation

Signature of the Employee

Signature of the Medical Officer

Regn.No

;

MSP Motellies Ltd.

Marakuta, Jharsuguda

n. J. C. Patjoshi

M.S.S.S. Ex.A.D.M.O. (FW. limmo), Jharsuguda

DW MEDICAL OFFICER UC U.P.H.C., MANGAL BAZAR, JHARSUGUDA SENERAL PRACTIONAR, BEHERAMAL, JHARSUGUDA Regd. No. 3856 (O) Place

Date

This is to certify that screening gena of present at sandaland flower and by some and common discover any disease deforming on tolify informing except the is physically and mentaly for any type of service.

Swendre sens

Affendred

Signafice

Signafic

Medical Officer 1/C.

Medical Officer 1/C.

U.P.H.C...Iharsuguda

Medich & F.W. Dept.

Govt. of Odinha

Regd. No-3855(O)

Medical Circus, M.B.B.S.

Medical Circus, M.

едисрау

Remarks on Mental Health

TEN IND

good



From No. 31-A

HEALTH RECORD

Pre-employment / Periodical [Prescribed under Rule 62-1]

SL. No.

Remarks on Mental Health

: HSP Metaler etcl : Bhabani Sanker Roul 1. Name of the Factory 2. Name of the Employee 3. Employee Distinguishing Number : Harousia : 33y : ene black note on ene : Sa Ergy bellet extension : 315723 4. Age of the Employee Identification Mark Nature of the job 5. Date of Employment 6. Length of Service in years 7. General Survey Health Good/Fair/Poor Height Cms. : 158 Weight Kg. : 68 8. Blood Group : A HU Normal / Abnormal 9. Eye Vision Use of glass Yes / No Normal / Abnormal 10. Hearing 11. Respiratory System and Chest Measurement Inspiration Cms. Expiration Cms. Respiration rate /Min. Remarks, If any 12. Cardiovascular System Pulse rate Min. B. P. Heart Sound Remarks, If any 13. Abdomen Tenderness Yes / No Yes / No 14. Nervous System History of Fits Yes / No Epilepsy

15. Locomoter System : Normal / Abnormal
16. Skin Condition : Normal / Abnormal
Remarks on any Skin Disease noticed : Present / Absent
17. Hernias : Present / Absent
18. Hydrocele : Present / Absent
19. Present Complain , If any : \textsquare.

20. Summary of findings

Heart Disease

Hypertension

Diabetes

T. B.

Epilepsy

Poisoning

Others

Occupation Disease, If any

21. Recommendation, if any for any further Investigation

Shaban Jankak Sour

Signature of the Medical Officer

Regnand R. C. Sal

Medical Officer MSP Metallics Ltd. Marakuta, Jharsuguda

CERTIFICATE OF MEDICAL FITNESS (TO BE DEPOSITED A T THE TIME OF JOINING)

To be obtained only from Gazetted Government Medical officer/Medical Officer of a Government Undertaking. (Please note that in no other form this certificate will be accepted. Medical Certificates issued by private medical practitioners will not be accepted.)

Name BHABANI SANKAR	ROUL
(in Block Letters)	
Father's Name: BLagirath R	nul.
Blood group/Anemic (Blood Count)	
Height: 5' 8''	Weight 684,
Chest 381	
SANSAST PRODUCTION TO THE SECTION OF THE PRODUCTION OF THE PROPERTY OF THE PRO	
Vision L R 6	ls .
Colour Vision No Cause Hind me	
Hearing Now Na.	
Hernia/Hydrocele/Piles Not dw	
Any other disease diagnosed in past.	AAN
Allergies, if any	#41-7010H1431110H150E3111770H1545770H1646464645784FFFF
List of prescribed medication, If any	
1ficamon	
2	
3	DOWN TO A STATE OF THE PARTY OF
Any other Remarks	ema
	abon Sanker Row son/daughter of Mr. as signed in my presence. He/she has no mental
Signature of the candidate	Legista San 2
Station:	Signature of the Medical Officer
Date :	Dist with egible seal.



FromNo.31-A HEALTH RECORD

Presemployment/Periodical

[Prescribed under Rule62-1]

SL.No.

Date: 15/05/23

4	NO.			0.2337475	
	1.	Name of the Factory	: M S P 1	Metallies Li	mited
	2.	Name of the Employee			
	3.	Employee Distinguishing Number		corro.	
	4.	Age of the Employee	: 96	ar on 1	13 NOVE
		Identification Mark	Core	chanit	us noce
		Nature of the job	: 20-	Eng.	
	5.	Date of Employment	: 15 105	183	
	6.	Length of Service in years	· ML		
	7.	General Survey	(62		
		Health	: 6	ood/Fair/P	
		Height	8	100	Cms.
		Weight		24	Kg.
	8.	Blood Group		Othe	
	9.	Eye Vision	: N	ormal/Abn	ormal
		Use of glass	: Y	es/No	
	10.	Hearing	: N	ormal/Abn	ormal
	11.	Respiratory System and Chest Measurement			
		Inspiration	: 00		Cms.
		Expiration	: 88		Cms.
		Respirationrate	: 16		/Min.
		Remarks, If any	: NIC		
	12.	. Cardiovascular System			
		Pulserate	: 72	s	Min.
		B.P.	: 1201	80	
		Heart Sound	: 15 676	mal	
		Remarks, If any	: N1	Ullin	Total Control
	13.	Abdomen Tenderness	, ,	es/No	
	14.	. Nervous System		NIL .	
	li ji	History of Fits	: 1	es/ No	
		Epilepsy		es/ No	
		Remarks on Mental Health		ood 1	
		CANADA AND AND AND AND AND AND AND AND AN		- 0.40	

15. Locomoter System

16. Skin Condition:

17. Remarks on any Skin Disease noticed

18. Hernias

19. Hydrocele

20. Present Complain ,If any

Normal/Abnormal

/ Normal/Abnormal

ML

Present/Absent

Present/Absent

NIL

21. Summary of findings

Heart Disease

Hypertension

Diabetes

T.B.

Epilepsy

Poisoning

Others

Occupation Disease ,If any

22. Recommendation, if any forany further Investigation

Signature of the Medical Officer
Regn. No 976

т

:

Konesh 1

SignatureoftheEmployee

1 1

: NIC

*

:

L Normal/Abnormal 15. Locomoter System Normal/Abnormal 16. Skin Condition: NIC 17. Remarks on any Skin Disease noticed Present/Absent 18. Hernias Present/Absent 19. Hydrocele NIL

21. Summary of findings Heart Disease Hypertension Diabetes : T.B. Epilepsy Poisoning Others Occupation Disease ,If any

22. Recommendation, if any forany further Investigation

Signature of the Employee

20. Present Complain ,If any

- Signature of the Medical Officer Regn.No

Aadhaar No. PO No.

HEALTH RECORD (Pre-employment / Periodical)

Form No. 31 - A

(Prescribed under Rule 62-J)

Date: 10/5/23 SI No. 22

Name of the Factory MSP metalic Ud 2 Name of the Employee Rakesh mathe 3. Name of the Agency 4. Employee Distinguishing Number: or mainbeaution many that the delication of Age of the Employee 5. 3610

2200 00 0018 A: Identification Mark

:Sv. chemest. Nature of Job

6. Date of Employment

7. Length of service in years : NROW

8. General Survey

> Health Good / Fair / Poor

Height 170 Cm

: - Kg. Weight

9. Blood Group : OTVL

10. Eye Vision Normal / Abnormal

> use glass Yes / No

11. Hearing Normal / Abnormal

12. Respiratory System & Chest Measurement

> gocm Inspiration

88 cm Expiration

processors of a marchaness of the same contract of 201 min Respiration rate / min

MAIL Remarks, if any

13. Cardiovascular system

> 84 min Pulse rate

Heart Sound

Remarks, if any WHA

Abdoment Tenderness 14. 15. Nervous System History of Fits Yes / No Epilepsy Yes / No Remarks on Mental Health: 2000 16. Locomotor System Normal / Abnormal 17. Skin condition Normal / Abnormal Remarks on any skin condition noticed: 9000 18. Hemias Present / Absent 19. Hydrosol Present / Absent 20. Present Complain, if any PJO Summary of Findings Heart Disease Hypertension Diabetes T.B. Epilepsy Poisoning Others Occupational disease, if any Recommendation, if any further investigation

Dr. Raghddath Behura

M.8.8.S. Retired ADM Regd. No. 7618

Signature of the Employee

Signature of the Medical Officer

Form No. 25

(Rule 96)

Certificate of Fitness for dangerous operation

I certify that I have perseonally examined	
sovsmt Roketh	MaThi
sio, Dio.	
residing at	0
is desirous of being employed as S.F d. Lo. N	x.s.tm
of	Deptt. And that as nearly as can be
ascertained from my examination is FIT/UNFIT to	r employment at the above noted factory.
2. He is fit to be employed and may be employed	for some other non hazardous operation
such as	hemest
He/She may be produced for further examination	after a period of
on	s.e.ge.cor
4. He/She is advised following further examination	
5. He/She is advised following further treatment.	1,761
The serial no, of previous certificate is	Nel
	Dr. Raghunath Behura M.B.B.S.
L Rough Moihi	Retifed ADM
Signature of Person Examined	Regd. No. 7618 Signature of Certifying Surgeon

GST - 21AXCPS6500N3ZE ISO-9001:2015

SWELLE DE Regd. No.: 09/2019



PATIENTS NAME: RAKESH MAJHI

AGE: 36 Yrs SEX MALE

DATE: 10-May-2023

SAMPLE ID: 22

PATHOLOGICAL INVESTIGATION REPORT

TEST

RESULT

Blood Group&Rh typing : 'O' (+ve) Positive

****END OF THE REPORTS****

Dr. Raghuhath Behura M.B.B.S.

> Retired ADM Regd. No. 7618

 Required tests are conducted with the help of chemicals & analysers. The report should only be interpreted by medical professionals, who understand reporting units, reference range and limitations of technology.

 Results may vary from tab to lab and in some parameters from time to time same patient. This report is not meant for medicolegal purpose.

HEAD OFFICE: JHARASUGUDA, BRANCH OFFICE: BHUBANESWAR & BERHAMPUR

Cell: 9337367071, 7008714167 E-mail: suvhamdiagnostics07@gmail.com



FromNo.31-A HEALTH RECORD

Pre-employment/Periodical

[Prescribed under Rule62-1]

SL.No.

Date: 20 1 0 5123

.NO.	
1. Name of the Factory	: M S P Metallics Limited
2. Name of the Employee	ms 8000600
3. Employee Distinguishing Number	: ms 1000608
4. Age of the Employee	: 32
Identification Mark	· A more on but hose
Nature of the job	: Str. Technisham.
5. Date of Employment	2 0 05 121
6. Length of Service in years	: Mr .
7. General Survey	
Health	: Good/Fair/Poor
Height	: IGA Cms.
Weight	: 92 Kg.
8. Blood Group	A AVE
9. Eye Vision	: Normal/Abnormal
Use of glass	: Yes/No
10. Hearing	: Normal/Abnormal
11. Respiratory System and Chest Measurement	
Inspiration	: 10A Cms.
Expiration	: 103 Cms.
Respirationrate	: 17 /Min.
Remarks, If any	: MY .
12. Cardiovascular System	
Pulserate	: 9 2 Min.
B.P.	: 120120
Heart Sound	Normal
A CONTRACTOR OF THE CONTRACTOR	. WIL
Remarks, If any	: Yes/No
13. Abdomen Tenderness	, NL
14. Nervous System	: Yes/ No
History of Fits	Yes/ No
Epilepsy	900d
Remarks on Mental Health	

15. Locomoter System : 6. Normal/Abnormal
16. Skin Condition: L. Normal/Abnormal
17. Remarks on any Skin Disease noticed : Mill.
18. Hernias : Present/Absent
19. Hydrocele : Present/Absent
20. Present Complain ,If any : Mill.

21. Summary of findings

Heart Disease
Hypertension
Diabetes
T.B.
Epilepsy
Poisoning
Others
Occupation Disease Aff any

22. Recommendation,if any forany further Investigation

SignatureoftheEmployee

Signature of the Medical Officer

Regn.No

:

REG NO 01/2017

MEDICAL FITNESS CERTIFICATE

TO WHOMEVER IT MAY CONCERN

DATE:05.05.2023

This is to certify that TRILOCHAN MEHER. AGE: 32 YRS SEX. MALE .5/O DINABANDHU MEHER examined by me and found to be normal on physical examination and is not suffering from any serious or communicable disease and medically fit for the .JOB.

His brief details are given as described

below:

Height: 168CMS.

Weight: 72kgs.

CHEST:INSP:108CMS

EXP:103CMS

PULSE RATE:72 /MIN

RESPIRATORY RATE: 20/MIN

BP: 120/80 MM/Hg

COLOUR VISION: NORMAL

VISION: NORMAL

BLOOD GROUP: A' Rh-pasitive

SKIN:NORMAL

ENT EXAMINATION: NORMAL

GR. STITLE OF FRACE OF STATE O

Dr Lath Polyclinic Jharsuguda, 768201

PH:9438226633

(inilumener

INSURANCE DEPT. - 9439503592, PATHOLOGY - 7815034857 .

SARBAHAL ROAD, JHARSUGUDA, PHONE NO. 9040881281, 9438224633, EMAIL: drtathpolyclinic@gmail.com





FromNo.31-A

HEALTHRE CORD

Pre-employment/Periodical

[Prescribed under Rule62-1]

SL.No.

Date: M 05 | 27

.NO.	
1. Name of the Factory	: MSP Metallies Limited : Chanashyon yedav
2. Name of the Employee	
3. Employee Distinguishing Number	: MS800543
4. Age of the Employee	: A cour morac on his eyes
Identification Mark	: prof-prongged (MB
Nature of the job	
5. Date of Employment	: n105-129
6. Length of Service in years	: NIL
7. General Survey	
Health	: Good/Fair/Poor
Height	: NY Cms.
Weight	: 30 Kg.
8. Blood Group	: Btue
9. Eye Vision	: Normal/Abnormal
Use of glass /	: Yes/No
10. Hearing	; Normal/Abnormal
11. Respiratory System and Chest Measureme	nt Carlo de la Carlo de Carlo
Inspiration	: G4 Cms.
Expiration	: <8 Cms.
Respirationrate	: t6 /Min.
Remarks, If any	:1/4
12. Cardiovascular System	
Pulserate	: 72 Min.
B.P.	:120/80
Heart Sound	: prime
Remarks, If any	: WIL
13. Abdomen Tenderness	: Yes/No ·
PARTICIPATE OF THE PARTICIPATE O	: WC
14. Nervous System History of Fits	: Yes/No
5-HARLOCK O-MAINLE	; Yes/No
Epilepsy Martal Health	: Good
Remarks on Mental Health	

15. Locomoter System : Normal/Abnormal
16. Skin Condition: Normal/Abnormal
17. Remarks on any Skin Disease noticed : Normal/Abnormal
18. Hernius : Present/Absent
19. Hydrocele : Present/Absent
20. Present Complain ,If any : Normal/Abnormal

21. Summary of findings

Heart Disease
Hypertension
Diabetes
T.B.
Epilepsy
Poisoning
Others
Occupation Disease ,If any

22. Recommendation, if any forany further Investigation

SignatureoftheEmployee

Signature of the Medical Officer

Regn.No

Form No. 25

(Rule 96)

Certificate of Fitness for dangerous operation

I certify that I have perseonally examined	
sri/smtCn has	aashyan Yaday
	gdish Yaday.
residing at	Thaskhanol who
is desirous of being employed as	
of	Deptt. And that as nearly as can be
ascertained from my examination is FIT/UN	NFIT for employment at the above noted factory.
2. He is fit to be employed and may be emp	ployed for some other non hazardous operation
such as	
3. He/She may be produced for further exam	ination after a period of
	neyer
4. He/She is advised following further exam	
5. He/She is advised following further treatr	ment. > H-I
The serial no. of previous certificate is	HU (
1 42	Dr. Raghungth Behura
Signature of Person Examined	Signature of Certifying Surgeon

Aadhaar No. PO No.

Form No. 31 - A HEALTH RECORD (Pre-employment / Periodical) (Prescribed under Rule 62-J)

Date : 08/05/2023

SI. No.

	The same of the sa	SAN' I TO THE STREET
1.	Name of the Factory	MSP METALLICS LIMITED
2	Name of the Employee	Cihanashyam Yadar. Photo
3.	Name of the Agency	work and the second sec
4.	Employee Distinguishing Nu	
5.	Age of the Employee	: 371m
	Identification Mark	: A cut made on hell age sill.
	Nature of Job	
6.	Date of Employment	was it peaks to America
7,	Length of service in years	: Nex
8.	General Survey	spential to visioning (5)
	Health	: Good / Fair / Poor
	Height	is bottom.
	Weight	: Moka
9.	Blood Group	: Btve.
10.	Eye Vision	: Normal/Abnormal
	use glass	: Yes / No
11.	Hearing	Normal / Abnormal
12.	Respiratory System & Chest M	Measurement
	Inspiration	: 018 Cm
	Expiration	: 84 cm
	Respiration rate / min	22 Personal Company of the Company o
	Remarks, if any	CIAM :
3.	Cardiovascular system	
	Pulse rate	: 82 min
	B.P.	= 128 72 mm Hg.
	Heart Sound	: 51 S(N)
	Remarks, if any	
	CHARLES AND ASSESSMENT OF THE PARTY OF THE P	

14.	Abdoment Tenderness ;	DIM)
15.	Nervous System	
	History of Fits	Yes / No
	Epilepsy :	Yes / No
	Remarks on Mental Health:	Crock State at Assessment
16.	Locomotor System :	Normal / Abnormal
17.	Skin condition	Normal / Abnormal
	Remarks on any skin condition notice	A PAGE OF THE PAGE
		Branch and Branch
18.	Hemias	Present / Absent
19.	Hydrosol	The same of the sa
20.	Present Complain, if any	Present / Absent
20.	: tosen complain, if any	MAID
21.	S	HEADS CHARGE
2.1.	Summary of Findings	
	Heart Disease	
	Hypertension :	· · · · · · · · · · · · · · · · · · ·
	Diabetes	Elek.
	T.B. :	Juni Palit
	Epilepsy :	naist ett
	Poisoning :	MAD THOUSE
	Others :	oningst
	Occupational disease, if any	Resemblery Sychestric Commission
		TWOMEN GEST
22.	Recommendation, if any further investig	gation: Fit Bit Lowk
	Flagra	and it relations if
		Copies at consum.
		TV.

Signature of the Employee

Dr. Ragnuncia Behura
M.B.B.S.

Retired ADM

Signature of the Medical Officer

GST - 21AXCPS6500N3ZE ISO-9001:2015

150-9001:2015 MILLE DIA GROUND : 09/2019



PATIENTS NAME: GHANASHYAM YADAV

AGE: 37 Yrs SEX

DATE:08-May-2023

SAMPLE ID

: 01

LAB ID : SD200

PATHOLOGICAL INVESTIGATION REPORT

TEST

RESULT

Blood Group&Rh typing : 'B' (+ve) Positive

****END OF THE REPORTS****

Dr. Raghunath Behura M.B.B.S. Retired ADM Regd. No. 7618

Required tests are conducted with the help of chemicals & analysers. The report should only be interpreted by medical
professionals, who understand reporting units, reference range and limitations of technology.

Results may vary from lab to lab and in some parameters from time to time same patient. This report is not meant for medicolegal purpose.

HEAD OFFICE : JHARASUGUDA, BRANCH OFFICE BHUBANESWAR & BERHAMPUR

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