Submission of half yearly (December 1st 2023) EC Compliance Status Report for the period of April 2023 to September 2023- 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

1 message

ORISSA METALIKS <orissametalikspvtltd@gmail.com> Fri, Dec 1, 2023 at 7:16 PM
To: "roez.bsr-mef@nic.in" <roez.bsr-mef@nic.in>, "zokolkatta.cpcb@nic.in" <zokolkatta.cpcb@nic.in>, Monitoring Cell <monitoring-ec@nic.in>, paribesh1@ospcboard.org, rospcb.jharsuguda@ospcboard.org
Cc: edoffice@mspsteeljsg.com, ehs@mspsteeljsg.com
Bcc: Biswanath Sharma <biswanath@rashmigroup.com>, bijayen.srivastava@rashmigroup.com, abhay.gupta@orissametaliks.com

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 April 2023 to September 2023 for your kind information and necessary record, please.

We assure that we will comply with all the conditions laid down in the consent letter and also abide to follow all the Rules & Regulations.

Half yearly compliance report for the period of April 2023 to September 2023 have also been uploaded on parivesh portal (copy attached).

Hope you will find the same in order.

Thanking you,

Yours faithfully,

For, **M/s. Orissa Metaliks Private Limited** (Formerly M/s MSP Metallics Limited)

Authorised Signatory

1, Garstin Place, 'Orbit House', Room No-3B, Kolkata-700001

Tel : 91 33-22894255/ 56
Fax : 91 33-22894254

Mbl. No-07044070948

EC _Complinace (2).pdf

2 attachments

Acknowledgement (OMPL-MSP).pdf
49K

Compliance-OMPL (MSP).pdf
575K

OMPL ORISSA METALIKS PRIVATE LIMITED
CIN: U27109WB2006WPTC111146 www.orissametaliks.com
+91-33-2243 8517-20 +91-33-2243 8517 sc_ompl@orissametaliks.com

Ref.: OMPL (MSP)/IRO-MoEF&CC/2023-24/01 Date: 01.12.2023

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-751023, Odisha
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 (December 1st 2023) EC Compliance Status Report for the period of April 2023 to September 2023**.

Ref.: 1. Environmental Clearance accorded vides F. No. J-11011/494/2007-IA-II (I) dated 13th July 2009 and recommendation for change in plant configuration and capacity in 4th Reconstituted EAC (Industry-1) MoEF&CC, New Delhi meeting held on 26th & 27th October 2009.

2. Transfer of Environment Clearance from M/s MSP Metallics Limited to M/s Orissa Metaliks Private Limited vides file No: J-11011/494/2007-IA.II (I) dated 23.10.2023 (EC Identification No. EC23A1001OR5864822T).

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 April 2023 to September 2023 for your kind information and necessary record, please.

We assure that we will comply with all the conditions laid down in the consent letter and also abide to follow all the Rules & Regulations.

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

Hope you will find the same in order.

Thanking you,

With sincere regards,

For, **M/s Orissa Metaliks Private Limited**
(Formerly M/s MSP Metallics Limited)

1/12/23

ORISSA METALIKS PVT. LTD. JHARSUGUDA (ODISHA) MARAKUTA

(J. P. Sharma)
Executive Director (Works)

Encl.: Six Monthly (December 1st 2023) Compliance status report along with annexures

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

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

Six monthly compliance status reports of the conditions stipulated in environmental clearance for the period of April 2023 to September 2023 (December 1st 2023)

Project Details:

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

EC Details:

1. Environmental Clearance accorded vides F. No. J-11011/494/2007-IA-II (I) dated 13th July 2009 and recommendation for change in plant configuration and capacity in 4th Reconstituted EAC (Industry-1) MoEF&CC, New Delhi meeting held on 26th & 27th October 2009.
2. Transfers of Environment Clearance from M/s MSP Metallics Limited to M/s Orissa Metaliks Private Limited vide File No: J-11011/494/2007-IA.II (I) dated 23.10.2023 (EC Identification No. EC23A1001OR5864822T).

SUBMITTED BY

M/s Orissa Metaliks Private Limited

(Formerly M/s MSP Metallics Limited)

1, Garstin Place, Orbit House, 3rd Floor, Room No. - 3B,
Kolkata – 700 001, West Bengal

Your application has been Submitted with following details	
Proposal No	IA/OR/IND/24581/2009
Compliance ID	26106346
Compliance Number(For Tracking)	EC/M/COMPLIANCE/26106346/2023
Reporting Year	2023
Reporting Period	01 Dec(01 Apr - 30 Sep)
Submission Date	01-12-2023
IRO Name	ARTATRANA MISHRA
IRO Email	jhk109@ifs.nic.in
State	ODISHA
IRO Office Address	Budgam

Note:- SMS and E-Mail has been sent to ARTATRANA MISHRA, ODISHA with Notification to Project Proponent.

Back

View Compliance Report at Project Proponent

Proposal Details

Proposal No	IA/OR/IND/24581/2009	**Category**	Industrial Projects - 1
Proposal Name	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, Odisha		
Plot / Survey/ Khasra No.		**Village(s)**	
Sub-District(s)			
State	ODISHA	**District**	JHARSUGUDA
MoEF File No	J-11011/494/2007-IA.II(I)	**Name of the Entity/ Corporate Office**	M/s Orissa Metaliks Private Limited (Formerly M/s MSP Metallics Limited)
Entity's PAN	NA		
Entity Name as per PAN	NA	**Entity details mentioned above is correct ?**	Agree

Covering Letter

Covering Letter	Click to View

Compliance Reporting Details

Reporting Year	2023	**Reporting Period**	01 Dec(01 Apr - 30 Sep)
Remark(if any)	Compliance status report of the conditions stipulated in environmental clearance for the period of April 2023 to September 2023		

Details of Production and Project Area

Date of Commencement of Project/Activity	28-02-2008

	Project Area as per EC Granted(ha.)	Actual Project Area in Possession(ha.)
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	103.82	103.82
Total	103.82	103.82

PRODUCTION CAPACITY							
Sr.No.	**Name of the Product**	**Units**	**As per EC Granted**	**As per CTO Granted**	**CTO ID**	**Valid Up To**	**Production during last financial year**
1	Sinter	Tons per Annum (TPA)	460000	460000	4427/IND-I-5973	31-03-2024	0
2	Hot Liquid Metal/Pig Iron	Tons per Annum (TPA)	1060000	188000	9461/IND-I-5973	31-03-2024	0
3	Sponge Iron	Tons per Annum (TPA)	994000	240000	4427/IND-I-5973	31-03-2024	116499.82
4	Billets & Slab	Tons per Annum (TPA)	1050000	107700	4427/IND-I-5973	31-03-2024	5291.11
5	Washed Coal	Tons per Annum (TPA)	1500000	Application made to SPCB, Odisha for consent to operate of capacity 7,00,000 TPA is in progress.	Application made to SPCB, Odisha for consent to operate of capacity 7,00,000 TPA is in progress.		0
6	Metallurgical Coke	Tons per Annum (TPA)	600000	Application made to SPCB, Odisha for consent to operate of capacity 2,40,000 TPA is in progress.	Application made to SPCB, Odisha for consent to operate of capacity 2,40,000 TPA is in progress.		0
7	Iron Ore Pellet	Tons per Annum (TPA)	600000	600000	4427/IND-I-5973	31-03-2024	48861.00
8	Power generation (FBC & WHRB)	MW	85	24	4427/IND-I-5973	31-03-2024	27120.996

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details	Status of Compliance,Remarks/Reason and Supporting Documents	
1	AIR QUALITY MONITORING	Efforts shall be made to reduce RSPM levels in the ambient	PPs Submission	To reduce RSPM levels in the ambient air the following steps

	AND PRESERVATION	air and a time bound action plan shall be submitted. On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks and sufficient air pollution control devices shall be provided to keep the emission levels below 100 mg/Nm3. At no time, the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.		taken: 1. Internal roads are either black topped or concreted. 2. 114 numbers of both fixed type and portable sprinklers are installed. 3. Four (04) 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. An area of 33% has already been covered under greenbelt with total 51,980 nos. of trees till the FY 2022-23. 3,500 nos. of sapling have been planted in FY 2023-24 till September 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. 9. Interlocking facility has been provided at the emergency cap of the DRI Kilns. 10. Continuous stack emission monitoring facilities for PM & Gases 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/ Being Complied Attachment: Click to View
2	AIR QUALITY MONITORING AND PRESERVATION	Hot gases from DRI kiln shall be passed through Dust Settling Chamber (DSC) to remove coarse solids and After Burning Chamber (ABC) to burn CO completely and used in waste heat recovery boiler (WHRB). The gas then shall be cleaned in ESP before leaving out into the atmosphere through ID fan and stack. Electrostatic Precipitator (ESP) shall be provided to DRI plant, WHRB and FBB boilers to	PPs Submission	? 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 resulting generation of 8MW power. ? 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 carried out by NABL accredited laboratory for the period of April 2023 to September 2023 has been uploaded. Being Complied Attachment: Click to View

		control air emissions within 100 mg/Nm3.		
3	AIR QUALITY MONITORING AND PRESERVATION	Gas cleaning plant comprising of bag filters and cyclones shall be provided to blast furnace (BF). Fume extraction system with bag filters shall be provided to induction furnace and ladle refining furnace to control fugitive emissions. Dust extraction system along with ESP and multi-cyclones shall be provided to pellet plant. ESP and bag filters shall be 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 be provided at coal crushing and handling areas.	PPs Submission	Appropriate pollution control devices have been provided to concerned units. Please refer attached scan copy of the report for photographs of the pollution control devices provided to concerned units. Complied Attachment: NA
4	AIR QUALITY MONITORING AND PRESERVATION	In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive dust emission from raw material and 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 be provided at raw material stockpiles and	PPs Submission	1. In-plant control measures taken for checking fugitive emissions are as follows. i. 114 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. iii. 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. v. Fixed type water sprinklers at appropriate locations

		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 be provided at coal crushing and handling areas.		are provided. vi. Four (04) numbers of rain guns are installed. vii. 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 of adequate capacity i. All the installed and operating DRI kilns are provided with WHRB and ESPs. ii. AFBC based CPP is also provided with ESP. iii. ESP connected to Rotary Drum of Pellet Plant. 3. Details of bag filters installed i. Total 11 (Eleven) numbers of Bag Filters of adequate capacity 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. 4. Gas Cleaning Plant (GCP) of capacity 64,000 Nm3 per Hr with stack height of 33 metres has been provided at Blast Furnace. 5. Pollution control measures in Sinter Plant i. 01 (One) no. of multi cyclone of sintering process of capacity 2,40,000 Nm3 per Hr is connected to process section. ii. 01 (One) no. Bag Filter of capacity 2,10,000 Nm3 per Hr is provided at flux area of Sinter Plant. iii. 01 (One) no. Bag Filter of capacity 1,20,000 Nm3 per Hr is provided at discharge end of Sinter Plant. 6. One no. Bag Filter of capacity 24,000 Nm3 per Hr is attached to the stack of Coal Pulverizing Unit of Pallet Plant 7. 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 uploaded). Being Complied Attachment: Click to View
5	ENERGY PRESERVATION MEASURES	All the standards prescribed for the coke oven plants shall be followed as per the latest guidelines. Proper	PPs Submission	? The coke oven unit is not in operation since April, 2013. It will be resumed after obtaining CTO from OSPCB. ? The said condition shall be complied one the coke

		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.		oven plant comes in operation. ? An application has already made to OSPCB vide our letter no. MSPML/JSG/OSPCB/2023-24/1-E/193, dated 16th September 2023 for amendment/revision of CTO for non-recovery type coke oven plant of capacity 2,40,000 TPA. Agreed to Comply Attachment: NA
6	AIR QUALITY MONITORING AND PRESERVATION	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.	PPs Submission	? Gaseous emission levels including secondary fugitive emissions from blast furnace are being controlled within the latest permissible limits issued by the Ministry and being regularly monitored. ? Emission level from Sinter plant is controlled within the latest permissible limits issued by the Ministry and being regularly monitored. ? The emission standards issued by the Ministry in May, 2008 for the sponge plants are complied. Flue gas emission analysis report carried out by NABL accredited laboratory has been uploaded. Being Complied Attachment: Click to View
7	AIR QUALITY MONITORING AND PRESERVATION	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 material and finished product.	PPs Submission	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. Being Complied Attachment: NA
8	WATER QUALITY MONITORING AND PRESERVATION	As proposed, total water requirement from IB River shall not exceed 10,271 m3/day. Ground water requirement shall not exceed the limit permitted by the CGWA vide letter No. 21-4 (51)/SER/CGWA/07-262 dated 7th May, 2007. Closed-circuit	PPs Submission	Permission for drawl of surface water from Hirakund Reservoir sources (upstream of IB River) has been issued by the Water Resources Department vide letter no. 18396/WR dated 08/07/2013 for 4.068 cusec or 9984 CUM per day. After revalidating Ground water permission from CGWA vide Order no. CGWA/NOC/IND/ORIG/2022/1487, dated 07/02/2022, presently 490

		re-circulation system shall be installed to reduce fresh water consumption and no wastewater generation. Water from ash dyke shall be decanted and collected in the reservoir and re-circulated/reused for ash handling and coal dust suppression in coal yard. Acidic and alkaline effluent from DM water plant shall be neutralized and reused in the plant. Cooling tower blow down shall be reused for dust suppression. BF-GCP and coal washery water shall be treated in thickener and reused in the process. Oil and grease shall be removed from wastewater by means of oil traps and skimming devices. All the wastewater from process and domestic sources shall be treated and recycled and reused in 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.		m3/Day water is used for domestic and industrial uses. (Copy uploaded). Closed-circuit system has been provided in plant and no wastewater/effluent is being or will be discharged into any main course. There is provision of treatment of waste water and re-used of treated water in the process for water used for other process and dust suppression. Waste water generated from raw water treatment system and back wash of filtration plant are properly treated and subsequently taken to guard pond and re-use specifically dust suppression. Thus, no wastewater is discharged outside the Premises and zero effluent discharge is ensured. Presently the domestic effluents are treated in septic tanks (15 nos. at different location within the plant premises) followed by soak pits so as to meet the prescribed standard of the Board. Installation of STP of capacity 05 KL for canteen and Admin office has been completed. Being Complied Attachment: Click to View
9	Statutory compliance	Prior permission for the drawl of 10,271 m3/day water from IB River from the concerned	PPs Submission	Permission for drawl of surface water from Hirakund Reservoir sources (upstream of IB River) has been issued by the Water Resources Department vide letter

		department shall be obtained.		no. 18396/WR dated 08/07/2013 for 4.08 cusec or 9984 m3/Day. Application for renewal of permission has been submitted to department of water resources and is in progress (Copy uploaded). Complied Attachment: Click to View
10	WATER QUALITY MONITORING AND PRESERVATION	The water consumption should not exceed 16 m3/Ton of Steel as per prescribed standard.	PPs Submission	Is being complied with. Being Complied Attachment: NA
11	WATER QUALITY MONITORING AND PRESERVATION	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.	PPs Submission	Is being complied with. Copy of the ground water monitoring is attached. Being Complied Attachment: Click to View
12	WASTE MANAGEMENT	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 (STP) shall be used as compost. Oily waste shall be provided to Authorized Cyclers/Re-processors.	PPs Submission	? 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-friendly manner. ? Sludge from Sewage Treatment Plant (STP) to be used as compost. ? Oily waste shall be provided to Authorized Cyclers/Re-processors of SPCB. Being Complied Attachment: NA
13	WASTE MANAGEMENT	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,	PPs Submission	? 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. ? Blast Furnace Slag is being granulated and provided to cement manufacturers for further utilization (Copy of MOU & invoice

		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.		has been uploaded). ? Dust from ESP, bag filter, wet scrapper, kiln accretions, slag from IF, LRF and SMS is being properly utilized or disposed off in environment-friendly manner. ? SMS slag is being used for Road construction/Land levelling purpose, after recovering metal. Being Complied Attachment: Click to View
14	WASTE MANAGEMENT	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 secured landfill as per CPCB guidelines.	PPs Submission	? Blast Furnace Slag is being granulated and provided to cement manufacturers for further utilization (Copy of MOU & invoice uploaded). ? SMS slag is being used for Road construction/Land levelling purpose, after recovering metal. Copy of the Toxic Chemical Leachability Potential (TCLP) test carried out by NABL accredited laboratory has been uploaded. Being Complied Attachment: Click to View
15	WASTE MANAGEMENT	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.	PPs Submission	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. Proper handling, storage, utilization and disposal of all the solid waste is being ensured and report regarding toxic metal content in the waste material carried out by NABL accredited laboratory is uploaded. ? Blast Furnace Slag is being granulated and provided to cement manufacturers for further utilization. ? SMS slag is being used for Road construction/Land levelling purpose, after recovering metal. ? Dolo-char generated from DRI plant is used in AFBC Boiler. ? HZW authorization obtained from OSPCB vide authorization IND-IV-

				HW-987/15613 dated 06.10.2023 and Hazardous waste like spent oil/ used oil sold to authorized vendor; waste residue containing oil to be provided to Authorized Cyclers/Re-processors of SPCB. Being Complied Attachment: Click to View
16	WASTE MANAGEMENT	A time bound action plan shall be submitted to reduce solid Waste, its proper utilization and disposal.	PPs Submission	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. ? Fly ash and bed ash generated from the power plants are utilized in fly ash brick manufacturing unit inside the plant premises. ? Dolochar is kept in a designated area and then utilized as fuel in AFBC Boiler. ? SMS slag after metal recovery is utilized for internal road/bricks making. ? MBF Slag is stored at designated location inside the plant premises and is also supplied to the cement grinding unit/associate company of the Group. Being Complied Attachment: NA
17	WASTE MANAGEMENT	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.	PPs Submission	Utilization of fly ash is being ensured as per Fly Ash Notification, 1999 and subsequent amendments. All the fly ash is being utilized for brick manufacturing. We have installed a Brick Manufacturing Unit inside our plant premises for manufacturing of Ash Bricks. Copy of intimation letter sent to SPCB, Odisha regarding establishment of fly ash brick/block plant is uploaded. Being Complied Attachment: Click to View
18	GREENBELT	As proposed, green belt shall be developed in 165	PPs Submission	For the existing operational project, an area 34.26 Hectares

		acres (33 %) out of total 500 acres land in and around the plant as per the CPCB guidelines in consultation with DFO.		(84.66 Acres) of total plant area 103.82 Hectares (256.54 Acres) has been earmarked for greenbelt development/plantation. An area of around 34.26 Hectares (84.66 Acres) i.e. 33% has already been covered under greenbelt with total 51,980 nos. of trees @1,517 trees per hectares till the FY 2022-23. Existing Greenbelt/plantation is being/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 2500 trees per hectare as per CPCB guideline will be developed during the proposed expansion. 3,500 nos. of sapling have been planted in FY 2023-24 till September 2023. Details of Greenbelt are uploaded. Please refer scan copy of the report for the photographs of the greenbelt. Being Complied Attachment: Click to View
19	Corporate Environmental Responsibility	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Sector shall be implemented.	PPs Submission	The technology, guidelines and recommendations made for Steel Plants in the CREP guidelines are being/will be implemented. Being Complied Attachment: Click to View
20	PUBLIC HEARING	All the commitments made to the public during the Public Hearing/Public Consultation meeting held on 7th November 2008 shall be satisfactorily implemented.	PPs Submission	The plant was forced shut down in year 2016. 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. 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. M/s Orissa Metaliks Limited is a flagship company of West Bengal based Rashmi group. The group has a well-defined CSR policy and Group believes in

				growth with a human face and pursuing people-centered development. Group is a socially committed organization and a socially responsible corporate citizen. It attaches great importance in discharging its overall social responsibilities to the community and the society at large where its project is located. The new management will undertake socio-economic development activities in the surrounding villages by addressing the demand raise in Public Hearing meeting held on 7th November 2008. The activities/ area under which the fund earmarked will be spent are as follows: a) Community development programmes; b) Development of health care facility in surrounding villages; c) Educational programmes, d) Drinking water facilities e) Development of road Photograph of CSR carried in compliance to commitments made to the public during the Public Hearing/Public Consultation meeting held on 7th November 2008 are given in uploaded scan copy of the report. Complied Attachment: NA
21	Human Health Environment	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.	PPs Submission	Complied. Complied Attachment: NA

General Conditions

Sr.No.	Condition Heading	Condition Details	Status of Compliance,Remarks/Reason and Supporting Docu

1	Statutory compliance	The project authorities must strictly adhere to the stipulations made by the Orissa Pollution Control Board (OPCB) and the State Government.	PPs Submission	We are abiding by the stipulations mad Control Board, (OSPCB) and the State G connection valid CTO has been obtaine Being Complied Attachment: NA
2	Statutory compliance	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	PPs Submission	Is being complied with. Prior approval c in case of any deviation/modification o envisaged in future. In compliance to th 1. TOR for expansion of Integrated Stee 11011/494/2007-IA-II(I) dated 28.09.20 Amendment in subject and implementa obtained vide F. No. IA-J-11011/494/20 2023 (Copy uploaded). 3. Transfer of en MSP Metallics Limited to M/s Orissa Me MOEFCC, New Delhi vide EC Identificati & File No: J-11011/494/2007-IA.II (I) da TOR from M/s MSP Metallics Limited to Limited vide ToR Identification No. TO2 IA-J-11011/494/2007-IA-II(I) dated 02.1 Being Complied Attachment: Click to View
3	AIR QUALITY MONITORING AND PRESERVATION	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.	PPs Submission	Load/mass based standards for water c as per prescribed standard is being con the load/mass based standards for coke Ministry on 19th May 1993 and standar regarding the gaseous emissions being units of our Company. ? The coke oven April, 2013. It will be resumed after obta said condition shall be complied one th operation. An application has already m no. MSPML/JSG/OSPCB/2023-24/1E/19 for amendment/revision of CTO for nor of capacity 2, 40,000 TPA. We also ensu standards that to be specified by The O Board (OSPCB). Being Complied Attachment: NA

4	AIR QUALITY MONITORING AND PRESERVATION	At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO2 and NOX are anticipated in consultation with the OPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and OPCB, CPCB once in six months.	PPs Submission	Four (04) numbers of Ambient Air Qual were in place but not meeting USEPA/M obsolete. The same is being replaced w (04) numbers of Ambient Air Quality (A been received and pre-fabricated statio Environmental parameters monitoring f emission are being carried out by a NA abstract of Ambient Air Quality monitor accredited laboratory for the period fro 2023 is uploaded. The abstract of Stack NABL accredited laboratory for the peri September 2023 is already uploaded. Being Complied Attachment: Click to View
5	AIR QUALITY MONITORING AND PRESERVATION	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.	PPs Submission	In-plant control measures taken for che been provided in Point no. i & iv of spe Being Complied Attachment: NA
6	WATER QUALITY MONITORING AND PRESERVATION	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.	PPs Submission	Industrial wastewater is properly collect the standards prescribed under GSR 42 31st December, 1993 or as amended fr wastewater is being utilized for differen sprinkling on road & raw material yard analysis report carried out by NABL acc of April 2023 to September 2023 is uplo Being Complied Attachment: Click to View

7	Noise Monitoring & Prevention	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	PPs Submission	We have taken the following measures ? Installation of enclosures (Acoustic En generating machines to reduce the amo workplace or environment. ? Damping and screens to block the direct path of sources further away from workers. The Measurement report carried out by NA period of April 2023 to September 2023 Being Complied Attachment: Click to View
8	Human Health Environment	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	PPs Submission	Occupational health surveillance progra contractual workers is being done-regu record is maintained. Being Complied Attachment: Click to View
9	WATER QUALITY MONITORING AND PRESERVATION	The company shall develop rainwater-harvesting structures to harvest the rainwater for utilization in the lean season besides recharging the ground water table.	PPs Submission	01 number of Rainwater harvesting syst been implemented to harvest rainwater plantation. Complied Attachment: NA
10	PUBLIC HEARING	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 implemented.	PPs Submission	Is being complied with. All the environn safeguards as recommended in the EIA, the EC as well as socio-economic develo point no-xx. Being Complied Attachment: NA

11	MISCELLANEOUS	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.	PPs Submission	Adequate fund towards capital & recur being utilized to implement the conditi Environment and Forests as well as the earmarked will not be diverted/utilized Being Complied Attachment: NA
12	Statutory compliance	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.	PPs Submission	Is being complied with. Six-monthly co monitored data is being submitted regu the Ministry at Bhubaneswar/CPCB/OSI compliance report for the period of Oct submitted vide letter no. MSPML/IRO-M dated: 31st May 2023. Also, condition w on Parivesh portal (Copy uploaded). So compliance report was also sent to the Bhubaneswar/CPCB/ OSPCB through er Being Complied Attachment: Click to View
13	Statutory compliance	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 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	PPs Submission	Complied. It has already been publishe and English Daily ?The Pioneer? on date Complied Attachment: Click to View

		the Regional office at Bhubaneswar.		
14	Statutory compliance	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.	PPs Submission	The company is a private company and outside. Land development work had b Consent to establish from State Pollutic Being Complied Attachment: NA
15	Statutory compliance	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.	PPs Submission	Copy of Environmental Clearance and it been submitted to concerned local bod environmental clearance letter has beer the company. Please visit https://orissar OMPL(PREVIOUSLY%20MSP).pdf. Complied Attachment: Click to View
16	Statutory compliance	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office 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	PPs Submission	Is being complied with. Status of compliance of clearance conditions, including results of monit our company?s website https://orissametaliks.com/data/EC_Compliance Last half yearly EC compliance report for the pe 2023 submitted vide letter no. MSPML/IRO-Mo dated: 31st May 2023 to the Regional Office of Bhubaneswar/Zonal office CPCB/OSPCB. A digit main gate of the company for display of criteria Being Complied Attachment: NA

		the company in the public domain.		
17	Statutory compliance	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.	PPs Submission	Is being complied with. Six-monthly co monitored data is being submitted regu the Ministry at Bhubaneswar/Zonal offi EC compliance report for the period of submitted vide letter no. MSPML/IRO-M dated: 31st May 2023. Being Complied Attachment: NA
18	Statutory compliance	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) 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.	PPs Submission	M/s MSP Metallics Limited has been pu Metaliks Private Limited (OMPL) on ?ass under the order (I.A No. 616/KB/2022) c 580/KB/2020 of the National Company bench, Kolkata after being a ?Successfu Auction held on 06.05.2022. New mana resumed operation in October, 2022 aft 2022 after 6 years of long shut down of Statement in Form-V for the FY 2021-20 vide our letter no. 29th September 2022 production was ?Zero?. Latest Environm the FY 2022-2023 submitted to OSPCB MoEF&CC vide letter no. MSPML/JSG/C 30th September 2023. Also, environmer uploaded on company?s website https:/ and updated periodically. Being Complied Attachment: Click to View
19	MISCELLANEOUS	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	PPs Submission	Agreed and noted. Agreed to Comply Attachment: NA
20	MISCELLANEOUS	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	PPs Submission	Agreed and noted for compliance. Agreed to Comply Attachment: NA

21	MISCELLANEOUS	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.	PPs Submission	Agreed and noted. Agreed to Comply Attachment: NA
22	MISCELLANEOUS	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act. 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules, 2003 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.	PPs Submission	Noted. Agreed to Comply Attachment: NA
23	MISCELLANEOUS	This EC Transfer is granted subject to final outcome of Hon?ble Supreme Court of India, Hon?ble High Court, Hon?ble NGT and any other Court of Law, if any, as may be applicable to this project.	PPs Submission	Agreed and noted. Agreed to Comply Attachment: NA
24	MISCELLANEOUS	This EC Transfer granted to the project/activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as	PPs Submission	Noted and being complied with. In com management has applied for transfer o to Operate vide letter dated 28th Octob authorization vide letter dated 30th Oct clearances. State Pollution Control Boar letter No. 18061/IND-I-CON-5973, date of the industry from M/s MSP Metallics Private Limited. (Copy uploaded). Being Complied Attachment: Click to View

		may be applicable to the project.	

Document Upload

Last Site Visit Report (if available)	NA	**Last Site Visit Report Date (if available)**	09-07-2014
Additional Attachment (if any)	Click to View		

Additional Remarks (if any)	Scan copy of the compliance report has been uploaded for your kind consideration, please.

☑ I 'M/s Orissa Metaliks Private Limited (Formerly M/s MSP Metallics Limited)' hereby give undertaking that the data and information given in the filed compliance and enclosures are true to be best of my knowledge and belief and I am aware that if any part of the data and information found to be false or misleading at any stage, the clearance given to the project will be revoked at our risk and cost. In addition to above, I hereby give undertaking that no activity such as change in project layout, construction, expansion, etc. has been taken up without due approval.

Cover Letter From IRO

Cover Letter From IRO	NA

Back

HALF YEARLY COMPLIANCE REPORT OF THE CONDITIONS STIPULATED IN ENVIRONMENTAL CLEARANCE

Project Proponent : M/s Orissa Metaliks Private Limited (Formerly 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

Location of the project : Village - Marakuta, District – Jharsuguda, Odisha

Environmental Clearance details :

1. Environmental Clearance accorded vide F. No. J-11011/494/2007-IA-II (I) dated 13th July 2009 **(Annexure-I)**.
2. Recommendation of the 4th Reconstituted Expert Appraisal Committee (Industry-1) MoEF&CC, New Delhi in its meeting held on 26th & 27th October 2009 for change in plant configuration and capacity **(Annexure-II)**.
3. Transfer of Environment Clearance **(Annexure-III)** titled "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, Odisha" from M/s MSP Metallics Limited to M/s Orissa Metaliks Private Limited vide File No: J-11011/494/2007-IA.II(I) dated 23.10.2023 (EC Identification No. EC23A1001OR5864822T).

Period of compliance : April 2023 to September 2023

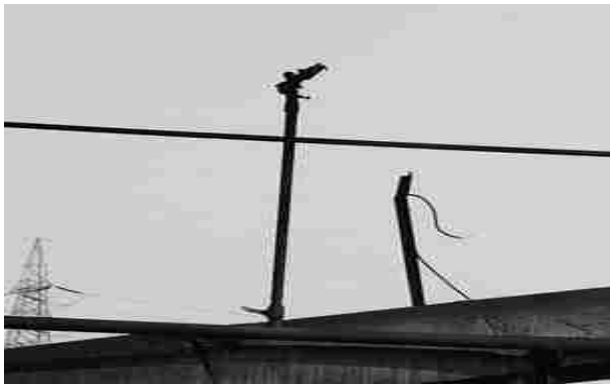
S. No.	Specific Conditions	Status of Implementation
i)	Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted. On-line ambient air quality monitoring	To reduce RSPM levels in the ambient air the following steps taken: 1. Internal roads are either black topped or concreted. 2. 114 numbers of both fixed type and

	and continuous stack monitoring facilities for all the stacks and sufficient air pollution control devices shall be provided to keep the emission levels below 100 mg/Nm^3. At no time, the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.	portable sprinklers are installed. 3. Four (04) 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. An area of 33% has already been covered under greenbelt with total 51,980 nos. of trees till the FY 2022-23. 3,500 nos. of sapling have been planted in FY 2023-24 till September 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. 9. Interlocking facility has been provided at the emergency cap of the DRI Kilns. 10. Continuous stack emission monitoring facilities for PM & Gases 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%20AND% 20STEEL) and connectivity with CPCB server is in progress. 11. Four (04) numbers of Ambient Air Quality (AAQ) Monitoring stations were in place but not meeting USEPA/MCERT norms and become obsolete. The same is being replaced with 04 nos. of CAAQMS. Four (04) numbers of Ambient Air Quality (AAQ) Monitoring stations has been received and pre-fabricated station work is in progress. Also, an application has been submitted to the Regional Office, State Pollution Control Board, Odisha for site

		approval for installation of CAAQMS vide our letter dated 30th October 2023 (Copy enclosed as **Annexure-IV**.)     **Fixed rotary type water sprinklers**

Mechanized wheel washing system

Dry fog system



Rain guns

		  **Online Continuous Emission Monitoring System (CEMS)**   **IP Camera**

		 **Digital display at main gate**
ii)	Hot gases from DRI kiln shall be passed through Dust Settling Chamber (DSC) to remove coarse solids and After Burning Chamber (ABC) to burn CO completely and used in waste heat recovery boiler (WHRB). The gas then shall be cleaned in ESP before leaving out into the atmosphere through ID fan and stack. Electrostatic Precipitator (ESP) shall be provided to DRI plant, WHRB and FBB boilers to control air emissions within 100 mg/Nm^3.	• 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 resulting generation of 8MW power. • 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 carried out by NABL accredited laboratory for the period of April 2023 to September 2023 is enclosed as **Annexure-V**.
iii)	Gas cleaning plant comprising of bag filters and cyclones shall be provided to blast furnace (BF). Fume extraction system with bag filters shall be provided to induction furnace and ladle refining furnace to control fugitive emissions. Dust extraction system along with ESP and multi-cyclones shall be provided to pellet plant. ESP and bag filters shall be 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 be provided at coal crushing and	Appropriate pollution control devices have been provided to concerned units.   **ESP DRI Kiln 1&2** **ESP DRI Kiln 3&4**

	handling areas.	  **ESP DRI Kiln 5&6** **ESP DRI Kiln 7&8**   **ESP of AFBC** **ESP of pellet plant**   **GCP of MBF** **Multi cyclone sinter plant**   **Stock House Bag filter** **Coal Crusher Bag filter**

		  **Iron Crusher Bag filter** **CD Bag filter**   **Coke oven Bag filter** **SMS Bag filter**   **Bag filter flux area** **CHP Bag filter**
iv)	In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive dust emission from raw material and 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 be provided at raw material stockpiles and loading/ unloading points. Fume extraction system	1. In-plant control measures taken for checking fugitive emissions are as follows. i. 114 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.

	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 be provided at coal crushing and handling areas.	iii. 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. v. Fixed type water sprinklers at appropriate locations are provided. vi. Four (04) numbers of rain guns are installed. vii. 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 of adequate capacity i. All the installed and operating DRI kilns are provided with WHRB and ESPs. ii. AFBC based CPP is also provided with ESP. iii. ESP connected to Rotary Drum of Pellet Plant. 3. Details of bag filters installed i. Total 11 (Eleven) numbers of Bag Filters of adequate capacity 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 Nm^3 per Hr with stack height of 25 mtrs is connected to the Swivelling Hoods of 2 X 30 TPH Induction Furnaces in SMS. 4. Gas Cleaning Plant (GCP) of capacity 64,000 Nm^3 per Hr with stack height of 33 metres has been provided at Blast Furnace. 5. Pollution control measures in Sinter Plant

		i. 01 (One) no. of multi cyclone of sintering process of capacity 2,40,000 Nm^3 per Hr is connected to process section. ii. 01 (One) no. Bag Filter of capacity 2,10,000 Nm^3 per Hr is provided at flux area of Sinter Plant. iii. 01 (One) no. Bag Filter of capacity 1,20,000 Nm^3 per Hr is provided at discharge end of Sinter Plant. 6. One no. Bag Filter of capacity 24,000 Nm^3 per Hr is attached to the stack of Coal Pulverizing Unit of Pallet Plant 7. One no. Bag Filter of capacity 26,000 Nm^3 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-VI**).   **Telescopic Chute** **Dry fog system**   **Covered conveyor belts**
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	• The coke oven unit is not in operation since April, 2013. It will be resumed after obtaining CTO from OSPCB. • The said condition shall be complied one the coke oven plant comes in

	power plant using waste heat recovery steam generators shall be ensured and no flue gases shall be discharged into the air.	operation. • An application has already made to OSPCB vide our letter no. MSPML/JSG/OSPCB/2023-24/1-E/193, dated 16th September 2023 for amendment/revision of CTO for non-recovery type coke oven plant of capacity 2,40,000 TPA.
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.	• Gaseous emission levels including secondary fugitive emissions from blast furnace are being controlled within the latest permissible limits issued by the Ministry and being regularly monitored.. • Emission level from Sinter plant is controlled within the latest permissible limits issued by the Ministry and being regularly monitored. • The emission standards issued by the Ministry in May, 2008 for the sponge plants are complied. Flue gas emission analysis report carried out by NABL accredited laboratory is already enclosed as **Annexure-V**.
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 material and finished product.	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.  **Concrete internal road**

		  **Concrete working area** **Valid PUC of vehicle**
viii)	As proposed, total water requirement from IB River shall not exceed 10,271 m^3/day. Ground water requirement shall not exceed the limit permitted by the CGWA vide letter No. 21-4 (51)/SER/CGWA/07-262 dated 7th May, 2007. Closed-circuit re-circulation system shall be installed to reduce fresh water consumption and no wastewater generation. Water from ash dyke shall be decanted and collected in the reservoir and re-circulated/reused for ash handling and coal dust suppression in coal yard. Acidic and alkaline effluent from DM water plant shall be neutralized and reused in the plant. Cooling tower blow down shall be reused for dust suppression. BF-GCP and coal washery water shall be treated in thickener and reused in the process. Oil and grease shall be removed from wastewater by means of oil traps and skimming devices. All the wastewater from process and domestic sources shall be treated and recycled and reused in the process or for dust suppression, green belt development and various other activities at the	Permission for drawl of surface water from Hirakund Reservoir sources (upstream of IB River) has been issued by the Water Resources Department vide letter no. 18396/WR dated 08/07/2013 for 4.068 cusec or 9984 CUM per day (**Annexure-VII**). After revalidating Ground water permission from CGWA vide Order no. CGWA/NOC/IND/ORIG/2022/1487, dated 07/02/2022, presently 490 m^3/Day water is used for domestic and industrial uses. (**Annexure-VIII**). Closed-circuit system has been provided in plant and no wastewater/effluent is being or will be discharged into any main course. There is provision of treatment of waste water and re-used of treated water in the process for water used for other process and dust suppression. Waste water generated from raw water treatment system and back wash of filtration plant are properly treated and subsequently taken to guard pond and re-use specifically dust suppression. Thus, no wastewater is discharged outside the Premises and zero effluent discharge is ensured. Presently the domestic effluents are treated in septic tanks (15 nos. at

	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.	different location within the plant premises) followed by soak pits so as to meet the prescribed standard of the Board.  **Installation of STP of capacity 05 KL for canteen and Admin office has been completed.**
ix)	Prior permission for the drawl of 10,271 m^3/day water from IB River from the concerned department shall be obtained.	Permission for drawl of surface water from Hirakund Reservoir sources (upstream of IB River) has been issued by the Water Resources Department vide letter no. 18396/WR dated 08/07/2013 for 4.08 cusec or 9984 m^3/Day. Application for renewal of permission has been submitted to department of water resources and is in progress (**Annexure-VII)**.
x)	The water consumption should not exceed 16 m^3/Ton of Steel as per prescribed standard.	Is being complied with.
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-IX**.
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	➢ 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

	plant (STP) shall be used as compost. Oily waste shall be provided to Authorized Cyclers/Re-processors.	broken refractory mass are and will be properly disposed off in environment-friendly manner. ➢ Sludge from Sewage Treatment Plant (STP) to be used as compost. ➢ Oily waste shall be provided to Authorized Cyclers/Re-processors of SPCB.
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. ➢ Blast Furnace Slag is being granulated and provided to cement manufacturers for further utilization (Copy of MOU & invoice is enclosed as **Annexure-X**). ➢ Dust from ESP, bag filter, wet scrapper, kiln accretions, slag from IF, EAF, LRF and SMS is being properly utilized or disposed off in environment-friendly manner. ➢ SMS slag is being used for Road construction/Land levelling purpose, after recovering metal.
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 secured landfill as per CPCB guidelines.	➢ Blast Furnace Slag is being granulated and provided to cement manufacturers for further utilization (Copy of MOU & invoice is already enclosed as **Annexure-X**). ➢ SMS slag is being used for Road construction/Land levelling purpose, after recovering metal. Copy of the Toxic Chemical Leachability Potential (TCLP) test carried out by NABL accredited laboratory is enclosed as **Annexure-XI**.
xv)	Proper handling, storage, utilization and disposal of all the	New management of the company has resumed operations of the plant in

	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.	phased manner after obtaining consent to operate (dated 17.08.2022, 07.01.2023 & 22.03.2023) from OSPCB. Proper handling, storage, utilization and disposal of all the solid waste is being ensured and report regarding toxic metal content in the waste material carried out by NABL accredited laboratory is enclosed as **Annexure-XI**. ➢ Blast Furnace Slag is being granulated and provided to cement manufacturers for further utilization (Copy of MOU & invoice is already enclosed as **Annexure-X**). ➢ SMS slag is being used for Road construction/Land levelling purpose, after recovering metal. ➢ Dolo-char generated from DRI plant is used in AFBC Boiler. ➢ HZW authorization obtained from OSPCB vide authorization IND-IV-HW-987/15613 dated 06.10.2023 and Hazardous waste like spent oil/ used oil sold to authorised vendor; waste residue containing oil to be provided to Authorized Cyclers/Re-processors of SPCB.
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. ➢ Fly ash and bed ash generated from the power plants are utilized in fly ash brick manufacturing unit inside the plant premises. ➢ Dolochar is kept in a designated area and then utilized as fuel in AFBC

		Boiler. ➢ SMS slag after metal recovery is utilized for internal road/bricks making. ➢ MBF Slag is stored at designated location inside the plant premises and is also supplied to the cement grinding unit/associate company of the Group.
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 is being ensured as per Fly Ash Notification, 1999 and subsequent amendments. All the fly ash is being utilized for brick manufacturing. We have installed a Brick Manufacturing Unit inside our plant premises for manufacturing of Ash Bricks. Copy of intimation letter sent to SPCB, Odisha regarding establishment of fly ash brick/block plant is enclosed as **Annexure-XII**.
xviii)	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 34.26 Hectares (84.66 Acres) of total plant area 103.82 Hectares (256.54 Acres) has been earmarked for greenbelt development/plantation. An area of around 34.26 Hectares (84.66 Acres) i.e. 33% has already been covered under greenbelt with total 51,980 nos. of trees @1,517 trees per hectares till the FY 2022-23. Existing Greenbelt/plantation is being/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 2500 trees per hectare as per CPCB guideline will be developed during the proposed expansion. 3,500 nos. of sapling have been planted in FY 2023-24 till September 2023. Details of Greenbelt are annexed as **Annexure-XIII**. Few photographs are given below.

		
xix)	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Sector shall be implemented.	The technology, guidelines and recommendations made for Steel Plants in the CREP guidelines are being/will be implemented. Details of implementations are enclosed as **Annexure-XIV**.
xx)	All the commitments made to the public during the Public Hearing/Public Consultation meeting held on 7th November 2008 shall be satisfactorily implemented.	The plant was forced shut down in year 2016. 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

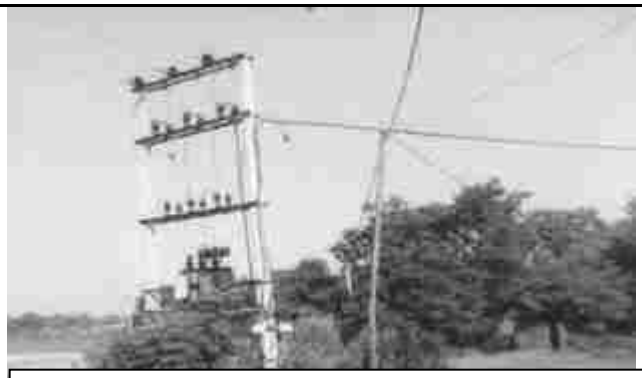
		a 'Successful Bidder' on relation to E-Auction held on 06.05.2022. New management of the company has resumed operation in October, 2022 after obtaining CTO in August 2022 after 6 years of long shut down of the plant. M/s Orissa Metaliks Limited is a flagship company of West Bengal based Rashmi group. The group has a well-defined CSR policy and Group believes in growth with a human face and pursuing people-centered development. Group is a socially committed organization and a socially responsible corporate citizen. It attaches great importance in discharging its overall social responsibilities to the community and the society at large where its project is located. The new management will undertake socio-economic development activities in the surrounding villages by addressing the demand raise in Public Hearing meeting held on 7th November 2008. The activities/ area under which the fund earmarked will be spent are as follows: a) Community development programmes; b) Development of health care facility in surrounding villages; c) Educational programmes, d) Drinking water facilities e) Development of road Photograph of CSR carried in compliance to commitments made to the public during the Public Hearing/Public Consultation meeting held on 7th November 2008 are.

FREE AMBULANCE

DRINKING WATER FACILITY-HAND PUMP

FREE HEALTH CHECK-UP CAMP

DEVELOPMENT/ REPAIRING OF ROAD

		 **STREET LIGHTING FACILITY**  **COMMUNITY PRAYER CENTER-TEMPLE**  **DEVELOPMENT OF BUS SHELTER**  **CONSTRUCTION OF SCHOOL**
xxi)	The company shall provide housing for construction labour within the site with all necessary	Complied.

	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.	
	General Conditions	**Status of Compliances**
i)	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.
ii)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Is being complied with. 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: 1. TOR for expansion of Integrated Steel Plant vide letter No. IA-J-11011/494/2007-IA-II(I) dated 28.09.2022. Copy of the standard TOR is enclosed as **Annexure-XV**. 2. Amendment in subject and implementation status of standard TOR obtained vide F. No. IA-J-11011/494/2007-IA-II (I) dated 29th August, 2023 (**Annexure-XVI**). 3. Transfer of environment clearance from M/s MSP Metallics Limited to M/s Orissa Metaliks Private Limited by MOEFCC, New Delhi vide EC Identification No. EC23A1001OR5864822T & File No: J-11011/494/2007-IA.II (I) dated 23/10/2023 (**Annexure-III**). 4. Transfer of TOR from M/s MSP Metallics Limited to M/s Orissa Metaliks Private Limited vide ToR Identification

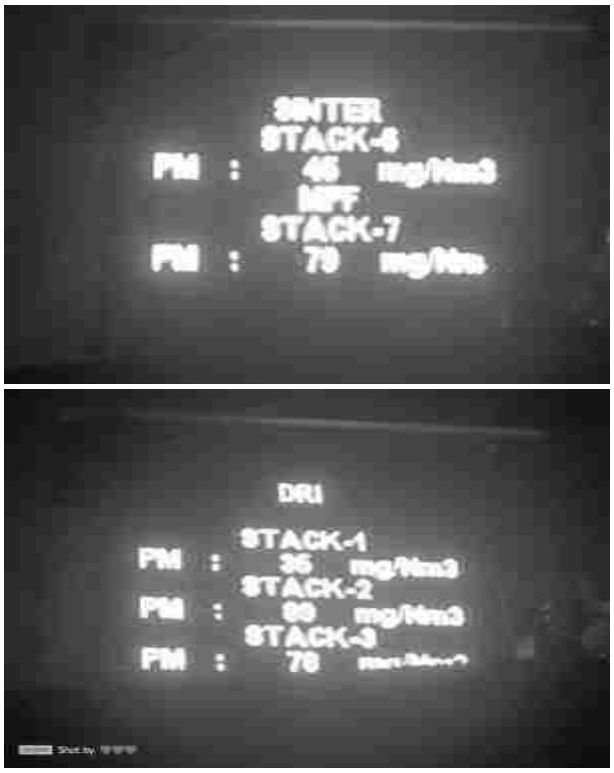
		No. TO23A1001OR5989156T & F. No. IA-J-11011/494/2007-IA-II(I) dated 02.11.2023 (**Annexure-XVII**).
iii)	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The Orissa Pollution 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.	Load/mass based standards for water consumption 16 m^3/Ton of Steel as per prescribed standard is being complied. We ensure to conform to the load/mass based standards for coke oven plant 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. • The coke oven unit is not in operation since April, 2013. It will be resumed after obtaining CTO from OSPCB. • The said condition shall be complied one the coke oven plant comes in operation. An application has already made to OSPCB vide our letter no. MSPML/JSG/OSPCB/2023-24/1E/193, dated 16th September 2023 for amendment/revision of CTO for non-recovery type coke oven plant of capacity 2, 40,000 TPA. 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 stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and OPCB, CPCB	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 04 nos. of CAAQMS. Four (04) numbers of Ambient Air Quality (AAQ) Monitoring stations has been received and pre-fabricated station work is in progress. Environmental parameters monitoring for ambient air quality and stack emission are being carried out by a NABL Accredited Laboratory.

	once in six months.	The abstract of Ambient Air Quality monitoring report carried out by NABL accredited laboratory for the period from April 2023 to September 2023 is enclosed as **Annexure-XVIII**. The abstract of Stack emission report carried out by NABL accredited laboratory for the period from April 2023 to September 2023 is already given in **Annexure–V**.
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 carried out by NABL accredited laboratory for the period of April 2023 to September 2023 is enclosed **Annexure-XIX**.
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 sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA	We have taken the following measures at most noise generating areas; • Installation of enclosures (Acoustic Enclosure) around noise generating machines to reduce the amount of noise emitted into the workplace or environment. • Damping of Machines. • Use of barriers and screens to block the direct path of sound.

	Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	• Positioning noise sources further away from workers.  **Photograph of the enclosure** The abstract of Noise Level Measurement report carried out by NABL accredited laboratory for the period of April 2023 to September 2023 is enclosed as **Annexure-XX**.
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-XXI**.
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.  **Photographs of the rainwater harvesting pond and water reservoir**
x)	The project proponent shall also comply with all the environmental protection	Is being complied with. All the environmental protection measures and safeguards as

	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 implemented.	recommended in the EIA/EMP report for consideration the EC as well as socio-economic development activities is discussed in point no-xx.
xi)	As proposed, ₹ 12.89 Crores and ₹ 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 being utilized to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. 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.	Is being complied with. Six-monthly compliance report and the monitored data is being submitted regularly to the Regional Office of the Ministry at Bhubaneswar/CPCB/OSPCB. Last half yearly EC compliance report for the period of October 2022 to March 2023 submitted vide letter no. MSPML/IRO-MoEF&CC/2023-24/1-E/0158 , dated: 31st May 2023. Also, condition wise compliance was uploaded on Parivesh portal (Copy attached as **Annexure-XXII**). Soft copy of the half yearly compliance report was also sent to the Regional

		Office, MOEF&CC Bhubaneswar/CPCB/ OSPCB through email on 31.05.2023.
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 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	Complied. It has already been published in Odia Daily "Pragatibadi" and English Daily "The Pioneer" on dated 01.09.2009 (Copy enclosed as **Annexure-XXIII**).
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 work 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. Copy of Environmental Clearance and its subsequent transfer letter has been submitted to concerned local bodies (Copy attached as **Annexure-XXIV**). The environmental clearance letter has been uploaded on the website of the company. Please visit https://orissametaliks.com/data/EC-OMPL(PREVIOUSLY%20MSP).pdf.
xvi)	The project proponent shall upload the status of compliance	Is being complied with. Status of compliance of the stipulated

	of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO_2, 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.	environment clearance conditions, including results of monitored data is being uploaded on our company's website https://orissametaliks.com/data/EC_Compliance_JUNE%202023_OMPL(MSP).pdf Last half yearly EC compliance report for the period of October 2022 to March 2023 submitted vide letter no. MSPML/IRO-MoEF&CC/2023-24/1-E/0158 , dated: 31st May 2023 to the Regional Office of the Ministry at Bhubaneswar/Zonal office CPCB/OSPCB. A digital board has been provided at main gate of the company for display of criteria pollutant.  **Photographs of the digital display board showing online emission monitoring data**
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	Is being complied with. Six-monthly compliance report and the monitored data is being submitted regularly to the Regional Office of the Ministry at Bhubaneswar/Zonal office CPCB/OSPCB.

	copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	Last half yearly EC compliance report for the period of October 2022 to March 2023 submitted vide letter no. MSPML/IRO-MoEF&CC/2023-24/1-E/0158 , dated: 31st May 2023.
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) 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.	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. 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 was submitted to OSPCB vide our letter no. 29th September 2022. In that financial year the production was 'Zero'. Latest Environmental Statement in Form-V for the FY 2022-2023 submitted to OSPCB as well as Regional Office of the MoEF&CC vide letter no. MSPML/JSG/OSPCB/2023-24/1-E/198 dated 30th September 2023 **(Annexure-XXV)**. Also, environmental Statement is being uploaded on company's website https://orissametaliks.com/qehs.php and updated periodically.
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.	Agreed and noted.
Clause No. 10	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act. 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules, 2003 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.	Noted.
Additional EC conditions stipulated in transfer of Environment Clearance from M/s MSP Metallics Limited to M/s Orissa Metaliks Private Limited vide File No: J-11011/494/2007-IA.II(I) dated 23.10.2023		
1.	This EC Transfer is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	Agreed and noted.

2.	This EC Transfer granted to the project/activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project.	Noted and being complied with. In compliance with this condition, management has applied for transfer of Consent to Establish, Consent to Operate vide letter dated 28th October 2023, Hazardous waste authorization vide letter dated 30th October 2023 and other statutory clearances. State Pollution Control Board, Odisha vide amendment letter No. 18061/IND-I-CON-5973, dated 16.11.2023 changed the name of the industry from M/s MSP Metallics Limited to M/s Orissa Metaliks Private Limited. **(Annexure-XXVI)**.

Thanking you,

With sincere regards,
For, **M/s Orissa Metaliks Private Limited**
(Formerly M/s MSP Metallics Limited)

(J. P. Sharma)
Executive Director (Works)

ANNEXURE-I ANNEXURE - 1

F. No. J-11011/494/2007- IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

Paryavaran Bhawan
CGO Complex, Lodhi Road
New Delhi – 110 003

E-mail : pb.rastogi@nic.in
Telefax : 011: 2436 7668

Dated 13th July, 2009

To,

M/s MSP Metallics Ltd.
16/5, Block 'A', New Alipore
Kolkata – 700 053
West Bengal

E-mail : contactus@mspsteel.com / mspgroup@vsnl.com ; Fax No. : 033-24582239 ;

Subject : 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 by M/s MSP Metallics Ltd. – Environment clearance reg.

Ref. : Your letter no. nil dated 18th May, 2009.

Sir,

This has reference to your letter no. nil dated 18th May, 2009 alongwith Application in Form I, Pre-feasibility Report and draft 'Terms of References', EIA/EMP alongwith Public Hearing/Public Consultation report as per the EIA Notification, 2006 and related project documents and subsequent clarifications furnished by you vide your letter dated 15th June, 2009 for environmental clearance on the above mentioned project.

2.0 The Ministry of Environment and Forests has examined the application. It is noted proposal is for the 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 by M/s MSP Metallics Ltd. Sponge iron plant already exists and is commissioned in April, 2009 after getting 'Consent to Establish' & 'Consent to Operate' from Orissa Pollution Control Board. Total land requirement is 500 acres. 150 acre land is under possession, 100 acres under acquisition and have applied to the Govt. of Orissa for 250 acre land on 1st July, 2008. Total cost of the project is Rs. 1,500.00 Crores. Following are the details of existing and proposed facilities:

S. N.	Shops/Units	Annual capacity Phase-wise (MTPA)			Total Capacity (MTPA)
		Phase-I (Existing)	Phase-II	Phase-III	
1	DRI kiln	1,20,000 (4x100 TPD)	2,64,000 (4x175 TPD)	6,64,000 (4x550 TPD)	10,50,000
2	Mini Blast Furnace	1,88,000 (1x215 m^3)	2,50,000 (1x300 m^3)	6,22,000 (2x380 m^3)	10,60,000

3	Captive Power Plant WHRB CFBC	 -- --	 10 MW (4x2.5 MW) 25 MW (1x100 TPH)	 50 MW (4x2.5 MW+4x10 MW) --	85 MW
4	Steel Melting shop Induction Furnace (Ph. I) Induction Furnace (Ph. II) Arc Furnace with LD Converter (Ph-III)	 48,000 (1x15 MT) -- --	 -- 2,15,400 (2x60 MT) --	 -- -- 7,86,600 (3x18 MT+1x20 MT)	10,50,000
5	Coal washery	--	7,00,000	8,00,000	15,00,000
6	Sinter Plant	--	4,60,000 (40 sq. mt)	--	4,60,000
7	Pellet Plant	--	6,00,000	--	6,00,000
8	Coke oven battery (Non-recovery type)	--	--	6,00,000 (5 modulesx0.12 MT)	6,00,000

3.0 The steel manufacturing process will be via Direct Reduction (DR)– Mini Blast Furnace – Induction Furnace – Continuous Casting Machine (CCM) route alongwith iron ore pelletisation plant, coke oven plant and coal washery.

4.0 Electrostatic precipitator (ESP), gas cleaning plant, bag filters, cyclones, fume extraction system, dust extraction system, dust suppression system will be provided to control gaseous and fugitive emissions. Total water requirement from IB River will be 10,271 m^3/day. Ground water will also be used as per the clearance granted by the Central Ground Water Authority (CGWA) vide letter no. 21-4 (51)/SER/CGWA/07-262 dated 7th May, 2007. No effluent will be generated due to use of closed circuit cooling system. Cooling tower blow down, treated acidic and alkaline effluents from Chemical Water Treatment Plant, water from ash dyke etc. will be recycled / reused for ash handling, dust suppression and green belt development. 'Zero' discharge will be adopted and no effluent will be discharged outside the plant boundary. BF slag will be sold to cement plants. Char will be used in FBC boiler. ESP dust, bag filter dust, kiln accretions, wet scrapper dust, slag from IF, EAF and LRF will be used in environment-friendly manner. The coal char, coal fines and middling from the coal washery will be used in Fluidized Bed Boiler for generation of power. Fly Ash and BF slag after granulation will be used for brick/cement manufacturing.

5.0 Public Hearing / Public Consultation meeting was held on 7th November, 2008. 'Consent to Establish' and 'Consent to Operate' for the existing plant DRI kiln (4x100 TPD, 1,20,000 TPA) and Mini Blast Furnace (1x215 m^3, 1,88,000 TPA) is accorded by the Orissa Pollution Control Board.

6.0. The Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14th September, 2006 subject to compliance of the following specific and general conditions :

A. SPECIFIC CONDITIONS :

i) Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted. On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks and sufficient air pollution control devices

shall be provided to keep the emission levels below 100 mg/Nm^3. At no time, the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.

ii) Hot gases from DRI kiln shall be passed through Dust Settling Chamber (DSC) to remove coarse solids and After Burning Chamber (ABC) to burn CO completely and used in waste heat recovery boiler (WHRB). The gas then shall be cleaned in ESP before leaving out into the atmosphere through ID fan and stack. Electrostatic precipitator (ESP) shall be provided to DRI plant, WHRB and FBB boilers to control air emissions within 100 mg/Nm^3.

iii) Gas cleaning plant comprising of bag filters and cyclones shall be provided to blast furnace. (BF). Fume extraction system with bag filters shall be provided to induction furnace and ladle refining furnace to control fugitive emissions. Dust extraction system alongwith ESP and multi-cyclones shall be provided to pellet plant. ESP and bag filters shall be 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 be provided at coal crushing and handling areas.

iv) In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive dust emission from raw material and 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 be provided at raw material stock piles 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 be provided at coal crushing and handling areas.

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.

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.

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 material and finished product.

viii) As proposed, total water requirement from IB River shall not exceed 10,271 m^3/day. Ground water requirement shall not exceed the limit permitted by the CGWA vide letter no. 21-4 (51)/SER/CGWA/07-262 dated 7th May, 2007. Closed-circuit re-circulation system shall be installed to reduce fresh water consumption and no wastewater generation. Water from ash dyke shall be decanted and collected in the

reservoir and recirculated / reused for ash handling and coal dust suppression in coal yard. Acidic and alkaline effluent from DM water plant shall be neutralized and reused in the plant. Cooling tower blow down shall be reused for dust suppression. BF-GCP and coal washery water shall be treated in thickener and reused in the process. Oil and grease shall be removed from wastewater by means of oil traps and skimming devices. All the wastewater from process and domestic sources shall be treated and recycled and reused in 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 m^3/day water from IB River from the concerned department shall be obtained.

x) The water consumption should not exceed 16 m^3/Ton of Steel as per prescribed standard.

xi) Ground water 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.

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 (STP) shall be used as compost. Oily waste shall be provided to authorized recyclers/reprocessors.

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.

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 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.

xvi) A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.

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.

xviii) 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.

xix) All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Sector shall be implemented.

xx) All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 7th November, 2008 shall be satisfactorily implemented.

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.

B. GENERAL CONDITIONS:

i. The project authorities must strictly adhere to the stipulations made by the Orissa Pollution Control Board (OPCB) and the State Government.

ii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.

iii. The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The 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.

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 stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and OPCB, CPCB once in six months.

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.

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 form time to time. The treated wastewater shall be utilized for plantation purpose.

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 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).

viii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

ix. The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.

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 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.

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 alongwith statistical interpretation shall be submitted to them regularly.

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 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.

xv. A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.

xvi. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO_2, 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.

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) Rules, 1986, as amended subsequently, shall also be put on the website of the company alongwith the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.

7.0 The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

8.0 The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

9.0 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.

10.0 The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules, 2003 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.

(Dr. P. B. Rastogi)
Director

Copy to :

1. The Secretary, Department of Environment, Govt. of Orissa, Bhubaneswar, Orissa.
2. Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi – 110 032.
3. Chairman, Orissa Pollution Control Board, Parivesh Bhavan, A/118, Nikanthhanagar, Unit-8, Bhuvaneswar - 751 012, Orissa.
4. The Chief Conservator of Forests (Eastern), Regional Office (EZ), A/3, Chandrasekharpur, Bhuvaneswar - 751 023, Orissa.
5. Adviser (IA-II), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
7. Monitoring Cell
8. Guard File.
9. Record File.

(Dr. P. B. Rastogi) 13/7/09
Director

ANNEXURE-II

MSP METALLICS LIMITED

Corporate Office: 16/S, Block - A, New Alipore, 2nd Floor, Kolkata - 700 053
Ph.: 91-033-4005 7777, 2457 0038 Fax : 91-033-2458 2239
Email: contactus@mspsteel.com, Web: www.mspsteel.com

Date: 11.02.2010

To
The Hon'ble Member Secretary,
State Pollution Control Board, Orissa,
A/118, Nilakantha Nagar, Unit – VIII,
Bhubaneswar – 7510112.

Sub: Application for " Consent to Establish" in respect of of 2.25 LTPA Sponge Iron, 2.47 LTPA Pig Iron, 2.12 LTPA Billet, 48 MW CPP, 7.0 LTPA Coal Washery & 2.50 LTPA Coke Oven Plant under expansion in our existing plant at Marakuta, Jharsuguda, Orissa.

Ref :1) Our formal application dt. 31.07.09 for grant of Consent-to-Establish.
2) Board's letter bearing no.15780/Ind-II-NOC-5204 dt. 09.10.09.
3) Our compliance letter dt. 13.10.09.

Respected Sir,

This in continuation to our application for consent-to-establish dt. 31.07.2009 and Board's letter dt. 09.10.2009 and our subsequent compliance letter dt. 13.10.2009.

As we have undertaken in our letter of compliance dt. 13.10.09 to furnish the approval/ order of MoEF regarding the proposed change in configuration of plant facilities by necessary amendment of the EC, we are enclosing herewith the extract of the confirmation of the Minutes of 3rd Meeting on the Expert Appraisal Committee (Industry) held during 23rd & 24th September'09, wherein our proposal for change in plant configuration has been accepted, approved and confirmed as has been proposed by us.

Kindly place the same in your record and do the needful. Please look into the matter of issue of consent-to-establish at the earliest.

Thanking you in anticipation,

Yours faithfully,
For MSP Metallics Ltd.

P.K.Dey
Director

Encl : As stated above.

cc. to : The Regional Officer,
Sambalpur Region,
State Pollution Control Board,
Ainthapali Chaka, Sambalpur, Orissa

No. ... Dt. 15/2/10

RECEIVED
15 FEB 2010
S.P.C. BOARD
REGIONAL OFFICE-12

Approved by the Chairman on 6th November, 2009

MINUTES FOR THE 4th MEETING OF THE RECONSTITUTED EXPERT APPRAISAL COMMITTEE (INDUSTRY-1) HELD DURING 26th ? 27th OCTOBER, 2009

VENUE: S & DP Conference Room, Indian Oil Corporation Ltd.
5th Floor, Core 6, Scope Convention Centre Institutional Area,
Lodhi Road, New Delhi -110003.

1.0 Opening Remarks of the Chairman

2.0 Confirmation of the Minutes of 3rd Meeting of the Expert Appraisal Committee (Industry) held during 23rd-24th September, 2009

Consideration of the Projects

27th October, 2009 (9.30 AM)

New Proposals :

Expansion of Integrated Steel Plant (Sponge Iron (9,94,000 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 by M/s MSP Metallics Ltd. (Amendment).

Environment clearance was accorded to M/s MSP Metallics Ltd. for the 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 vide Ministry?s latter no. J-11011/494/2007-IA-II(I) dated 13th July, 2009.

Now, PAs vide letter dated 21st September, 2009 have requested for the following changed :

i. Installation of sponge iron plant (2,10,000 TPA; 4x100 TPD & 1x300 TPD) instead of environment clearance accorded for the Sponge iron plant (2,64,000 TPA; 4x175 TPD) reduction in the quantity of sponge iron production by 56, 000 TPA.

Contd...../2

ii. Installation of SMS (2,15,400 TPA; 4x30 MT) instead of SMS (2,15,400 TPA; 2x60 MT)

The reason mentioned is due to availability of standard size/module for rotary kiln as well as induction furnace and operational viability. It is also mentioned that change in configuration will neither increase total capacity of the plant nor additional pollution load burden.

The committee observed that :

i. The capacity of the sponge iron plant will be reduced from 2,64,000 TPA to 2,10,000 TPA in phase II due to proposed change in configuration from 4x175 TPD to 4x100 TPD & 1x300 TPD. Total capacity of the DRI plant will be reduced from 10,50,000 TPA to 9,94,000 TPA.

ii. No change in the final capacity of the products from the SMS viz. 2,15,400 TPA is anticipated due to no change in the overall capacity of the induction furnace. The change involved is only from 2x60 MT to 4x30 MT, final capacity being the same i.e. 120 MT.

The Committee expressed its ?no objection? to the proposed changes in configuration since there is no increase in pollution load and proposed capacities being same for the SMS and less for the sponge iron plant subject to ensure compliance to all the environmental conditions stipulated for the expansion of Integrated Steel Plant (Sponge Iron (10,05,000 TPA, now revised to 9,94,000 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 by M/s MSP Metallics Ltd. vide Ministry?s latter no. J-11011/494/2007-IA-II(I) dated 13th July, 2009.

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ANNEXURE-III

सत्यमेव जयते

File No:J-11011/494/2007-IA.II(I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division
***

Dated **23/10/2023**

To,

M/s. Orissa Metaliks Private Limited
GRASTIN PLACE, ORBIT 3RD FLOOR ROOM NO. 3B, KOLKATA, KOLKATA, WEST BENGAL, NEAR BANSAL COURT, 700001
Email: orissametalikspvtltd@gmail.com

Subject: **Transfer of Environment Clearance titled "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, Odisha" from M/s. MSP Metallics Limited to M/s. Orissa Metaliks Private Limited – regarding**

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/OR/IND1/442388/2023, dated 19/09/2023 requesting the Ministry to transfer the Environment Clearance accorded by MoEF&CC vide letter no. J-11011/494/2007-IA. II(I) dated 13/07/2009 from M/s. MSP Metallics Limited to M/s. Orissa Metaliks Private Limited.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC23A1001OR5864822T
(ii) File No.	J-11011/494/2007-IA.II(I)
(iii) Clearance Type	Transfer of EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	3(a) Metallurgical Industries (ferrous and non ferrous),4(b) Coke oven plants,2(a) Coal washeries,1(d) Thermal Power Plants,1(d) Thermal Power Plants
(vi) Sector	Industrial Projects - 1

(vii) Name of 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, Odisha by M/s MSP Metallics Limited
(viii) Name of Company/Organization	M/s. Orissa Metaliks Private Limited
(ix) Location of Project (District, State)	JHARSUGUDA, ODISHA
(x) Issuing Authority	MoEF&CC
(xi) EC Date	13/07/2009
(xiii) Details of Transferee	M/s. Orissa Metaliks Private Limited., 1, GARSTIN PLACE, ORBIT HOUSE, 3RD FLOOR, ROOM NO. 3B KOLKATA, WEST BENGAL, INDIA,Kolkata,315,19,NEAR BANSAL COURT,700001
(xiv) Details of Transferor	M/s MSP Metallics Limited, 1, GARSTIN PLACE, ORBIT HOUSE, 3RD FLOOR, ROOM NO. 3B KOLKATA, WEST BENGAL, INDIA,Kolkata,315,19,700001

3. The Ministry of Environment, Forest and Climate Change (MoEF&CC) has examined the request submitted by you and the following points are noted:

(i). Environment clearance (EC) to the project cited above was initially accorded by the Ministry vide letter no letter no J-11011/494/2007-IA II(I) dated 13/07/2009 in the name of M/s. MSP Metallics Limited under the provisions of the EIA Notification, 2006 for 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).

(ii). Further PP submitted that for change in configuration of plant an application was submitted to MOEFCC, New Delhi vide letter no. 21.09.2009 & in 4th Reconstituted Expert Appraisal Committee (Industry-1) MoEFCC, New Delhi meeting held on 26th & 27th October 2009 the project was considered on 27th October 2009 and after detail deliberation the project was recommended for change in plant configuration and capacity of plant. The sponge iron production capacity has reduced by 56,000 TPA and PP obtained the CTE as per the change in configuration.

(iii). According to the records made available by the project proponent obtained CTE vide order No 2517/Ind-II-NOC-5204 dated 20.02.2010 and CTO was obtained for partial implementation vide letter 925/III-CON(Operate)203 dated 21.04.2011 and Letter No 5772/IND-1-CON-5973 dated 31.03.2015 from SPCB, Odisha.

(iv). According to the records made available by the project proponent, the following are the facilities as per EC and its implementation status is given at **Annexure I.**

(v). Reasons for transfer of EC: M/s MSP Metallics Limited has gone in "Liquidation" & M/s Orissa Metaliks Private Limited (OMPL) has purchased/acquired the assets of MSP Metallics Limited on "assets sale basis" under liquidation under the order (I.A No. 616/KB/2022, dated

11.07.2022) 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. Now, M/s Orissa Metaliks Private Limited (OMPL) is operating the plant under the name of M/s MSP Metallics Limited after obtaining Consent to Operate from State Pollution Control Board, Odisha.

Post-acquisition, new management of the company started revamping work of the units and applied for renewal of consent to operate to OSPCB with requisite fees & OSPCB issued renewal of consent to operate in phased manner dated 17.08.2022, 07.01.2023 and renewed on 22.03.2023 (valid up to 31.03.2024) for operation of 8 x 100 TPD DRI, 24 MW (8 MW WHRB + 16 MW AFBC) Captive Power Plant, 2 x 30 T I.F. (SMS), 4,60,000 TPA Sinter Plant, 6,00,000 TPA Pellet Plant, and 2 X 4,000 Nm3/Hr Producer gas plant and dated 13.06.2023 for 1,88,000 TPA Blast furnace. Revamping work of, 7,00,000 TPA Coal Washery and 2, 40,000 TPA Coke oven Battery is in progress and application made to SPCB, Odisha for consent to operate is in progress.

(vi). Documents submitted for EC transfer

(a) Form No.7 for transfer of Environmental Clearance.

(b) NOC by way of affidavit in non-judicial stamp certificate dated 29/08/2023 from M/s. MSP Metallics Limited.

(c) Undertaking by way of affidavit in non-judicial stamp certificate dated 29/08/2023 by M/s. Orissa Metaliks Private Limited that they will abide/obey all the conditions stipulated in the Environment Clearance by MoEF&CC vide letter no. vide F.No. 11011/494/2007-IA-II(I) dated 13.07.2009.

(d) NCLT Kolkata order dated 18/08/2023.

4. This Ministry hereby accepts your request for transfer the implemented facility of Environment Clearance accorded by MoEF&CC vide letter no. J-11011/494/2007-IA. II (I) dated 13/07/2009 as per Annexure I table, i.e. DRI kiln (2,40,000 TPA), Mini Blast Furnace (1,88,000 TPA), Captive Power plant (8 MW WHRB +16 MW AFBC), Steel Melting Shop(1,07,700 TPA), Coal washery (7,00,000 TPA), Sinter Plant (4,60,000 TPA), Pellet Plant(6,00,000 TPA) and Coke oven battery 2,40,000 TPA from M/s. MSP Metallics Limited to M/s. Orissa Metaliks Private Limited, subject to satisfactory compliance to all the stipulated specific and general conditions.

5. You are hereby requested to obtain Consent to Operate in the name of to M/s. Orissa Metaliks Private Limited from State Pollution Control Board.

6. M/s. Orissa Metaliks Private Limited shall comply with the all specific and general conditions stipulated in the Environment Clearance letter of even no. dated 13/07/2009.

7. In case, there is a change in the scope of the project, fresh Environment Clearance shall be obtained.

8. This issues with the approval of the Competent Authority.

(Dr. R. B. Lal)
Scientist 'F'/ Director
Tel: 011-20819346
Email-rb.lal@nic.in

Copy To

1. The Principal Secretary, Department of Forest and Environment, Government of Odisha, Bhubaneswar, Odisha
2. Director General of Forest, Ministry of Environment, Forest and Climate Change, New Delhi
3. Principal Chief Conservator of Forests & HoFF, Aranya Bhawan, Chandrasekharpur, Bhubaneswar - 751 023, Odisha
4. The Regional Officer, Ministry of Environment, Forest And Climate Change, Integrated Regional Office, A/3, Chandersekharpur, Bhubaneswar – 751023 ODISHA
5. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi – 32
6. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
7. The Member Secretary, Odisha State Pollution Control Board, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit - VIII, Bhubaneswar -12 Odisha.
8. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.
9. District Collector, Jharsuguda, Odisha.
10. M/s. MSP Metallics Limited -for information
11. Guard File/Monitoring File/ Parivesh Portal /Record File.

Additional EC Conditions

1. This EC Transfer is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
2. This EC Transfer granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.

facilities as per EC and its implementation status

S No	Facilities/ Activities	Unit Configuration In EC dated 13/07/2009	Implementation status as per CTO
1	DRI kiln	(4x100) +(4x175) + (4x550) Rotary Kilns Total capacity 10,50,000 TPA	8x100 TPD, Implemented capacity 2,40,000 TPA
2	Mini Blast Furnace	(1x215 m^3) +(1x300 m^3)+)(2x380 m^3) Total capacity 10,60,000	1x215 m3, Implemented capacity 1,88,000 TPA
3	Captive Power plant WHRB+CFBC	(4x2.5+25+50) 85 MW	8 MW WHRB +16 MW AFBC Implemented capacity 24 MW
4	Steel Melting shop	IF ((1x15 MT) + (2x60 MT))+SAF with LD (3x18MT+1x20MT) Total capacity 10,50,000 TPA	IF (2 x 30 T) Implemented capacity 1,07,700 TPA
5	Coal washery	(7,00,000+8,00,000) Total capacity15,00,000	Implemented capacity 7,00,000 TPA
6	Sinter Plant	4,60,000 TPA	Implemented capacity 4,60,000 TPA
7	Pellet Plant	6,00,000 TPA	Implemented capacity 6,00,000 TPA
8	Coke oven battery (Non-recovery type)	6,00,000 TPA 5x0.12 MT)	Implemented capacity 2,40,000 TPA

Signature Not Verified
Digitally Signed by : Dr R B Lal
Member Secretary, MoEFCC (EC)
Date: 23/10/2023

ANNEXURE-IV

MSP METALLICS LIMITED

Office : Vill. & P.O. [illegible], Dist. [illegible], PIN-[illegible], Odisha
Ph. [illegible] E-mail [illegible]
CIN No. [illegible]

MSP/JSG/EC/2023-24/1-E/206
30[th] October 2023

To,
The Regional officer
Odisha State Pollution Control Board
Jharsuguda, Odisha

Sub: Installation of Continuous Ambient Air Quality Monitoring System (CAAQMS) in our Plant M/s. MSP Metallics Limited, Marakuta, Jharsuguda.

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

Dear Sir,

With reference to the above cited subject, we have procured 04 numbers of CAAQMS in compliance to the Consent to Operate Condition. Considering the predominant nearest habitation, we have proposed 04 location inside the Plant i.e. CAAQMS-01-Location near Admin building (Near Budhipadar Village, Western side), CAAQMS-02-Location near water reservoir (Near Malidhi village, Northern side), CAAQMS-03-Location near C Gate (Near Marakuta village, Eastern side), CAAQMS-04-Location near Coke oven (Near Jamera Village, Southern side).

The Geographical coordinates of the proposed location are 1[st] CAAQMS (Coordinate-21.85863, 83.9644-W), 2[nd] CAAQMS (Coordinate-21.86124, 83.96909-N.), 3[rd] CAAQMS (Coordinate-21.851709, 83.968161-E-), 4[th] CAAQMS (Coordinate-21.85054, 83.96019-S).

We are submitting the following documents for your kind perusal.

- Plant Layout Drawing showing the proposed locations of CAAQMS (Enclosure-1)

Requesting to review the appropriateness of the proposed locations for the installation of CAAQMS in our Plant area and record your confirmation for commencement of the installation work.

Thanking you.

With sincere regards,
For MSP Metallics Limited

30/10/23

J P Sharma
Executive Director (Works)

Encl.: as above

31/10/2023
JHARSUGUDA

CIN - U73100OR1995PTC003889

GSTIN : 21AAACE6224D1ZE

ANNEXURE-V

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory, OSPCB 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-TC744022000000179F

Test Report Format No.: ERSIPL/FM/38

TEST REPORT (FLUE GAS)

Date: 20 Apr 2023

Test Report No: ERSIPL/TR/SE/018

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	:	10.04.2023
Analysis Started on	:	10.04.2023
Analysis Completed on	:	20.04.2023
Method of Sampling	:	Iso- kinetic CPCB(ER) 1985
Quantity of Sample	:	01 sample for each parameter
Environment Condition	:	All Tests carried out in Room Temperature

Sample ID. No.		Location
1. ERSIPL/SE/063 ; dt. 04.04.2023	:	Stack attached to ESP of DRI Kiln – I & II
2. ERSIPL/SE/064 ; dt. 03.04.2023	:	Stack attached to ESP of DRI Kiln – V & VI
3. ERSIPL/SE/065 ; dt. 03.04.2023	:	Stack attached to ESP of DRI Kiln – VII & VIII
4. ERSIPL/SE/066 ; dt. 03.04.2023	:	Stack attached to ESP connected to Rotary Drum – Pellet Plant

Sample ID No.	Test Method	Test Parameters					
		Temp. of Flue gases in (deg. C)	Velocity of flue gases in mps	Particulate matter in mg/Nm³			SO_2 in mg/Nm³
				Analyzed result without CO_2 Correction	Permissible limit as per EC	Permissible limit as per SPCB	Permissible limit as per SPCB (600)
ERSIPL/SE/063	For PM IS:11255(Part-1):1985, Reaffirmed 2019 & for SO_2 IS:11255(Part-2):1985, Reaffirmed 2019, Barium Perchlorate Method	148.0	23.2704	**33.43**	< 100	100.0	xx
ERSIPL/SE/064		218.0	26.2823	**35.05**	< 100	100.0	xx
ERSIPL/SE/065		183.0	23.0552	**30.40**	< 100	100.0	xx
ERSIPL/SE/066		104.0	20.2274	**33.75**	< 100	100.0	xx

(Authorized Signatory)

S.P.Pattanayak

Tech.Manager

...END OF TEST REPORT...

CIN - U73100OR1995PTC003889

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
Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/38

TEST REPORT (FLUE GAS)

Date: 20 Apr 2023 **Test Report No: ERSIPL/TR/SE/T-018**

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	:	10.04.2023
Analysis Started on	:	10.04.2023
Analysis Completed on	:	20.04.2023
Method of Sampling	:	Iso- kinetic CPCB(ER) 1985
Quantity of Sample	:	01 sample for each parameter
Environment Condition	:	All Tests carried out in Room Temperature

Sample ID. No.		Location
1. ERSIPL/SE/063 ; dt. 04.04.2023	:	Stack attached to ESP of DRI Kiln – I & II
2. ERSIPL/SE/064 ; dt. 03.04.2023	:	Stack attached to ESP of DRI Kiln – V & VI
3. ERSIPL/SE/065 ; dt. 03.04.2023	:	Stack attached to ESP of DRI Kiln – VII & VIII
4. ERSIPL/SE/066 ; dt. 03.04.2023	:	Stack attached to ESP connected to Rotary Drum – Pellet Plant

Sample ID No.	Test Parameters				
	Temp. of Flue gases in (deg. C)	Velocity of flue gases in mps	CO % (v/v)	NO_2 in mg/Nm³	Hg in mg/Nm³
			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/063	148.0	23.2704	<0.02	xx	
ERSIPL/SE/064	218.0	26.2823	<0.02		
ERSIPL/SE/065	183.0	23.0552	<0.02		
ERSIPL/SE/066	104.0	20.2274	<0.02		

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

...END OF TEST REPORT...

CIN - U73100OR1995PTC003889

GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory, OSPCB 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-TC744022000000230F

Test Report Format No.: ERSIPL/FM/38

TEST REPORT (FLUE GAS)

Date: 30 May 2023

Test Report No: ERSIPL/TR/SE/022

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	:	22.05.2023
Analysis Started on	:	22.05.2023
Analysis Completed on	:	30.05.2023
Method of Sampling	:	Iso- kinetic CPCB(ER) 1985
Quantity of Sample	:	01 sample for each parameter
Environment Condition	:	All Tests carried out in Room Temperature

Sample ID. No.		Location
1. ERSIPL/SE/079 ; dt. 08.05.2023	:	Stack attached to ESP of DRI Kiln – I & II
2. ERSIPL/SE/080 ; dt. 08.05.2023	:	Stack attached to ESP of DRI Kiln – III & IV
3. ERSIPL/SE/081 ; dt. 09.05.2023	:	Stack attached to ESP of 16MW AFBC Boiler
4. ERSIPL/SE/082 ; dt. 09.05.2023	:	Stack attached to ESP connected to Rotary Drum – Pellet Plant

Sample ID No.	Test Method	Test Parameters				
		Temp. of Flue gases in (deg. C)	Velocity of flue gases in mps	Particulate matter in mg/Nm³		SO_2 in mg/Nm³
				Analyzed result	Permissible limit as per SPCB	Permissible limit as per SPCB (600)
ERSIPL/SE/079	For PM IS:11255(Part-1):1985, Reaffirmed 2019 & for SO_2 IS:11255(Part-2):1985, Reaffirmed 2019, Barium Perchlorate Method	153.0	21.5018	**36.77**	100.0	xx
ERSIPL/SE/080		147.0	22.8767	**38.42**	100.0	xx
ERSIPL/SE/081		136.0	23.9874	**33.17**	50.0	40.37
ERSIPL/SE/082		117.0	22.0446	**35.80**	100.0	xx

(Authorized Signatory)

S.P.Pattanayak

Tech.Manager

...END OF TEST REPORT...

CIN - U731000R1995PTC003889

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
Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/38

TEST REPORT (FLUE GAS)

Date: 30 May 2023 **Test Report No: ERSIPL/TR/SE/T-022**

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	:	22.05.2023
Analysis Started on	:	22.05.2023
Analysis Completed on	:	30.05.2023
Method of Sampling	:	Iso- kinetic CPCB(ER) 1985
Quantity of Sample	:	01 sample for each parameter
Environment Condition	:	All Tests carried out in Room Temperature

Sample ID. No.		Location
1. ERSIPL/SE/079 ; dt. 08.05.2023	:	Stack attached to ESP of DRI Kiln – I & II
2. ERSIPL/SE/080 ; dt. 08.05.2023	:	Stack attached to ESP of DRI Kiln – III & IV
3. ERSIPL/SE/081 ; dt. 09.05.2023	:	Stack attached to ESP of 16MW AFBC Boiler
4. ERSIPL/SE/082 ; dt. 09.05.2023	:	Stack attached to ESP connected to Rotary Drum – Pellet Plant

Sample ID No.	Test Parameters				
	Temp. of Flue gases in (deg. C)	Velocity of flue gases in mps	CO % (v/v)	NO_2 in mg/Nm³	Hg in mg/Nm³
			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/079	153.0	21.5018	<0.02	xx	
ERSIPL/SE/080	147.0	22.8767	<0.02		
ERSIPL/SE/081	136.0	23.9874	xx	168.0	<0.01
ERSIPL/SE/082	117.0	22.0446	xx		

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

...END OF TEST REPORT...

CIN - U73100OR1995PTC003889

GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory, OSPCB 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-TC744022000000293F

Test Report Format No.: ERSIPL/FM/38

TEST REPORT (FLUE GAS)

Date: 27 June 2023

Test Report No: ERSIPL/TR/SE/028

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	:	17.06.2023
Analysis Started on	:	17.06.2023
Analysis Completed on	:	27.06.2023
Method of Sampling	:	Iso- kinetic CPCB(ER) 1985
Quantity of Sample	:	01 sample for each parameter
Environment Condition	:	All Tests carried out in Room Temperature

Sample ID. No.		Location
1. ERSIPL/SE/108 ; dt. 12.06.2023	:	Stack attached to ESP of DRI Kiln – I & II
2. ERSIPL/SE/109 ; dt. 13.06.2023	:	Stack attached to ESP of DRI Kiln – III & IV
3. ERSIPL/SE/110 ; dt. 13.06.2023	:	Stack attached to ESP of 16MW AFBC Boiler
4. ERSIPL/SE/111 ; dt. 12.06.2023	:	Stack attached to ESP connected to Rotary Drum – Pellet Plant

Sample ID No.	Test Method	Test Parameters				
		Temp. of Flue gases in (deg. C)	Velocity of flue gases in mps	Particulate matter in mg/Nm³		SO_2 in mg/Nm³
				Analyzed result	Permissible limit as per SPCB	Permissible limit as per SPCB (600)
ERSIPL/SE/108	For PM IS:11255(Part-1):1985, Reaffirmed 2019 & for SO_2 IS:11255(Part-2):1985, Reaffirmed 2019, Barium Perchlorate Method	147.0	23.9581	**35.89**	100.0	xx
ERSIPL/SE/109		149.0	22.9311	**38.14**	100.0	xx
ERSIPL/SE/110		137.0	22.6027	**35.49**	50.0	50.59
ERSIPL/SE/111		133.0	24.2383	**37.55**	100.0	xx

(Authorized Signatory)

S.P.Pattanayak

Tech.Manager

...END OF TEST REPORT...

CIN - U73100OR1995PTC003889

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
Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/38

TEST REPORT (FLUE GAS)

Date: 27 June 2023 **Test Report No: ERSIPL/TR/SE/T-028**

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	:	17.06.2023
Analysis Started on	:	17.06.2023
Analysis Completed on	:	27.06.2023
Method of Sampling	:	Iso- kinetic CPCB(ER) 1985
Quantity of Sample	:	01 sample for each parameter
Environment Condition	:	All Tests carried out in Room Temperature

Sample ID. No.		Location
1. ERSIPL/SE/108 ; dt. 12.06.2023	:	Stack attached to ESP of DRI Kiln – I & II
2. ERSIPL/SE/109 ; dt. 13.06.2023	:	Stack attached to ESP of DRI Kiln – III & IV
3. ERSIPL/SE/110 ; dt. 13.06.2023	:	Stack attached to ESP of 16MW AFBC Boiler
4. ERSIPL/SE/111 ; dt. 12.06.2023	:	Stack attached to ESP connected to Rotary Drum – Pellet Plant

Sample ID No.	Test Parameters				
	Temp. of Flue gases in (deg. C)	Velocity of flue gases in mps	CO % (v/v)	NO_2 in mg/Nm³	Hg in mg/Nm³
			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/108	147.0	23.9581	<0.02	NA	
ERSIPL/SE/109	149.0	22.9311	<0.02		
ERSIPL/SE/110	137.0	22.6027	NA	142.0	<0.01
ERSIPL/SE/111	133.0	24.2383	NA		

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

...END OF TEST REPORT...

CIN - U73100OR1995PTC003889

GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory, OSPCB 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-TC744022000000354F

Test Report Format No.: ERSIPL/FM/38

TEST REPORT (FLUE GAS)

Date: 24 July 2023

Test Report No: ERSIPL/TR/SE/033

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	:	15.07.2023
Analysis Started on	:	15.07.2023
Analysis Completed on	:	24.07.2023
Method of Sampling	:	Iso- kinetic CPCB(ER) 1985
Quantity of Sample	:	01 sample for each parameter
Environment Condition	:	All Tests carried out in Room Temperature

Sample ID. No.		Location
1. ERSIPL/SE/115 ; dt. 04.07.2023	:	Stack attached to ESP of DRI Kiln – II (Kiln I Not in Operation)
2. ERSIPL/SE/116 ; dt. 05.07.2023	:	Stack attached to ESP of DRI Kiln – III & IV
3. ERSIPL/SE/119 ; dt. 05.07.2023	:	Stack attached to ESP of 16MW AFBC Boiler
4. ERSIPL/SE/118 ; dt. 04.07.2023	:	Stack attached to ESP connected to Rotary Drum – Pellet Plant

Sample ID No.	Test Method	Test Parameters				
		Temp. of Flue gases in (deg. C)	Velocity of flue gases in mps	Particulate matter in mg/Nm³		SO_2 in mg/Nm³
				Analyzed result	Permissible limit as per SPCB	Permissible limit as per SPCB (630)
ERSIPL/SE/115	For PM IS:11255(Part-1):1985, Reaffirmed 2019 & for SO_2 IS:11255(Part-2):1985, Reaffirmed 2019, Barium Perchlorate Method	127.0	20.4458	**32.94**	100.0	xx
ERSIPL/SE/116		147.0	22.5047	**34.80**	100.0	xx
ERSIPL/SE/119		131.0	23.8404	**32.76**	50.0	47.88
ERSIPL/SE/118		118.0	21.3489	**34.33**	100.0	xx

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

...END OF TEST REPORT...

CIN - U73100OR1995PTC003889

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
Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/38

TEST REPORT (FLUE GAS)

Date: 24 July 2023 **Test Report No: ERSIPL/TR/SE/T-033**

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 : 15.07.2023

Analysis Started on : 15.07.2023

Analysis Completed on : 24.07.2023

Method of Sampling : Iso- kinetic CPCB(ER) 1985

Quantity of Sample : 01 sample for each parameter

Environment Condition : All Tests carried out in Room Temperature

Sample ID. No.	Location
1. ERSIPL/SE/115 ; dt. 04.07.2023	Stack attached to ESP of DRI Kiln – II (Kiln I Not in Operation)
2. ERSIPL/SE/116 ; dt. 05.07.2023	Stack attached to ESP of DRI Kiln – III & IV
3. ERSIPL/SE/119 ; dt. 05.07.2023	Stack attached to ESP of 16MW AFBC Boiler
4. ERSIPL/SE/118 ; dt. 04.07.2023	Stack attached to ESP connected to Rotary Drum – Pellet Plant

Sample ID No.	Test Parameters				
	Temp. of Flue gases in (deg. C)	Velocity of flue gases in mps	CO % (v/v)	NO_2 in mg/Nm³	Hg in mg/Nm³
			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/115	127.0	20.4458	<0.02	NA	
ERSIPL/SE/116	147.0	22.5047	<0.02		
ERSIPL/SE/119	131.0	23.8404	NA	167.0	<0.01
ERSIPL/SE/118	118.0	21.3489	NA		

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

...END OF TEST REPORT...

CIN - U73100OR1995PTC003889

GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory, OSPCB 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-TC744022000000351F

Test Report Format No.: ERSIPL/FM/38

TEST REPORT (FLUE GAS)

Date: 17 July 2023

Test Report No: ERSIPL/TR/SE/032

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	:	15.07.2023
Analysis Started on	:	15.07.2023
Analysis Completed on	:	17.07.2023
Method of Sampling	:	Iso- kinetic CPCB(ER) 1985
Quantity of Sample	:	01 sample for each parameter
Environment Condition	:	All Tests carried out in Room Temperature

Sample ID. No. — Location

1. ERSIPL/SE/117 ; dt. 05.07.2023 : Stack attached to Sintering Plant – Multi cyclone of sintering process

Sample ID No.	Test Method	Test Parameters			
		Temp. of Flue gases in (deg. C)	Velocity of flue gases in mps	Particulate matter in mg/Nm³	
				Analyzed result	Permissible limit as per SPCB
ERSIPL/SE/117	For PM IS:11255(Part-1):1985, Reaffirmed 2019	108.0	23.8041	40.16	100.0

(Authorized Signatory)

S.P.Pattanayak
Tech.Manager

...END OF TEST REPORT...

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory)

TC-7440

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-TC744022000000470F

Test Report Format No.: ERSIPL/FM/38

TEST REPORT (FLUE GAS)

Date: 06 SEPT 2023 **Test Report No: ERSIPL/TR/SE/041**

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	:	01.09.2023
Analysis Started on	:	01.09.2023
Analysis Completed on	:	05.09.2023
Method of Sampling	:	Iso- kinetic CPCB(ER) 1985
Quantity of Sample	:	01 sample for each parameter
Weather Condition	:	All Tests carried out in Room Temperature
Stack top	:	circular
Atmospheric Temperature (Min/Max)	:	33.0 – 36.0 ^{0}C

Sample ID. No.		Location
1. ERSIPL/SE/141 ; dt. 28.08.2023	:	Stack attached to ESP of DRI Kiln –I& II
2. ERSIPL/SE/142 ; dt. 28.08.2023	:	Stack attached to ESP of DRI Kiln – III & IV
3. ERSIPL/SE/143 ; dt. 28.08.2023	:	Stack attached to ESP of 16MW AFBC Boiler
4. ERSIPL/SE/144 ; dt. 29.08.2023	:	Stack attached to Multi cyclone of sintering process sinter plant
5. ERSIPL/SE/145 ; dt. 29.09.2023	:	Stack attached to ESP connected to Rotary Drum – Pellet Plant

Sample ID No.	Test Method	Test Parameters						
		Stack Height (AGL in m)	Stack Internal Dia. In cm	Height of Sampling Platform (AGL in m)	Temp. of Flue gases in (deg. C)	Velocity of flue gases in mps	Particulate matter in mg/Nm^3	SO_2 in mg/Nm^3
ERSIPL/SE/141	For PM IS:11255(Part-1):1985, Reaffirmed 2019 & for SO_2 IS:11255(Part-2):1985, Reaffirmed 2019, Barium Perchlorate Method	30	243	12	149	33.8374	29.64	xx
ERSIPL/SE/142		30	243	12	143	21.3265	33.78	xx
ERSIPL/SE/143		77	243	25	142	22.3704	33.98	49.67
ERSIPL/SE/144		50	343	25	151	21.1311	37.24	xx
ERSIPL/SE/145		52	373	25	143	22.3973	31.17	xx

Note:

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4. Samples (Filter Papers & Thimbles) received shall be destroyed after 01 year & Gaseous/liquid samples received shall be destroyed after 07 days from the date of issue of the test report, unless otherwise specified.
5. This report shall not used in any advertising media or as evidence in the court of law without prior written consent of ERS (I) Pvt. Ltd.

ERSI PVT. LTD.

(Authorized Signatory)

CIN - U73100OR1995PTC003889

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
Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/38

TEST REPORT (FLUE GAS)

Date: 06 SEPT 2023 **Test Report No: ERSIPL/TR/SE/T-041**

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	:	01.09.2023
Analysis Started on	:	01.09.2023
Analysis Completed on	:	05.09.2023
Method of Sampling	:	Iso- kinetic CPCB(ER) 1985
Quantity of Sample	:	01 sample for each parameter
Weather Condition	:	All Tests carried out in Room Temperature
Stack top	:	circular
Atmospheric Temperature (Min/Max)	:	33.0 – 36.0 ^{0}C

Sample ID. No.		Location
1. ERSIPL/SE/141 ; dt. 28.08.2023	:	Stack attached to ESP of DRI Kiln – II (Kiln I Not in Operation)
2. ERSIPL/SE/142 ; dt. 28.08.2023	:	Stack attached to ESP of DRI Kiln – III & IV
3. ERSIPL/SE/143 ; dt. 28.08.2023	:	Stack attached to ESP of 16MW AFBC Boiler
4. ERSIPL/SE/144 ; dt. 29.08.2023	:	Stack attached to Multi cyclone of sintering process sinter plant
5. ERSIPL/SE/145; dt. 29.08.2023	:	Stack attached to ESP connected to Rotary Drum – Pellet Plant

Sample ID No.	Test Parameters				
	Temp. of Flue gases in (deg. C)	Velocity of flue gases in mps	CO % (v/v)	NO_2 in mg/Nm^3	Hg in mg/Nm^3
			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/141	149	33.8774	<0.02	NA	
ERSIPL/SE/142	143	21.3265	<0.02		
ERSIPL/SE/143	142	22.3704	NA	165.0	<0.01
ERSIPL/SE/144	151	21.1311	NA		
ERSIPL/SE/145	143	22.3973	NA		

ERSI PVT. LTD. BBSR

(Authorized Signatory)

..END OF TEST REPORT..

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory)

TC-7440

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-TC744022000000486F

Test Report Format No.: ERSIPL/FM/38

TEST REPORT (FLUE GAS)

Date: 25 SEPT 2023 **Test Report No: ERSIPL/TR/SE/043**

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	:	07.09.2023
Analysis Started on	:	04.09.2023
Analysis Completed on	:	13.09.2023
Method of Sampling	:	As per Applicable Test Method
Quantity of Sample	:	01 sample for each parameter
Weather Condition	:	Sunny
Stack top	:	circular
Atmospheric Temperature (Min/Max)	:	28.0 – 36.0 °C

Sample ID. No.		Location
1. ERSIPL/SE/153 ; dt. 01.09.2023	:	Stack attached to ESP of DRI Kiln –I& II
2. ERSIPL/SE/154 ; dt. 02.09.2023	:	Stack attached to ESP of DRI Kiln – III & IV
3. ERSIPL/SE/155 ; dt. 01.09.2023	:	Stack attached to ESP of 16MW AFBC Boiler
4. ERSIPL/SE/156 ; dt. 01.09.2023	:	Stack attached to Multi cyclone of sintering process sinter plant
5. ERSIPL/SE/157 ; dt. 02.09.2023	:	Stack attached to ESP connected to Rotary Drum – Pellet Plant

Sample ID No.	Test Method	Test Parameters							
		Stack Height (AGL in m)	Stack Internal Dia. In cm	Height of Sampling Platform (AGL in m)	Temp. of Flue gases in (deg. C)	Velocity of flue gases in mps	Particulate matter in mg/Nm³		SO_2 in mg/Nm³
							Analyzed result	Permissible limit as per SPCB	Permissible limit as per SPCB (600)
ERSIPL/SE/153	For PM IS:11255(Part -1):1985, Reaffirmed 2019 & for SO_2 IS:11255(Part -2):1985, Reaffirmed 2019.	30	243	12	141.0	21.5858	33.37	100.0	xx
ERSIPL/SE/154		30	243	12	151.0	21.6490	30.06	100.0	xx
ERSIPL/SE/155		77	243	25	145.0	21.6898	32.59	50.0	43.27
ERSIPL/SE/156		50	343	25	145.0	21.2990	35.51	100.0	xx
ERSIPL/SE/157		52	373	25	143.0	22.3973	30.62	100.00	xx

Note-

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5. This report shall not used in any advertising media or as evidence in the court of law without prior written consent of ERS (I) Pvt. Ltd.

CIN - U73100OR1995PTC003889

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

Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/38

TEST REPORT (FLUE GAS)

Date: 25 SEPT 2023 **Test Report No: ERSIPL/TR/SE/T-043**

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	:	07.09.2023
Analysis Started on	:	04.09.2023
Analysis Completed on	:	13.09.2023
Method of Sampling	:	As per Applicable Test Method
Quantity of Sample	:	01 sample for each parameter
Weather Condition	:	Sunny
Stack top	:	circular
Atmospheric Temperature (Min/Max)	:	28.0 – 36.0 ^{0}C

Sample ID. No.		Location
1. ERSIPL/SE/153 ; dt. 01.09.2023	:	Stack attached to ESP of DRI Kiln –I& II
2. ERSIPL/SE/154 ; dt. 02.09.2023	:	Stack attached to ESP of DRI Kiln – III & IV
3. ERSIPL/SE/155 ; dt. 01.09.2023	:	Stack attached to ESP of 16MW AFBC Boiler
4. ERSIPL/SE/156 ; dt. 01.09.2023	:	Stack attached to Multi cyclone of sintering process sinter plant
5. ERSIPL/SE/157 ; dt. 02.09.2023	:	Stack attached to ESP connected to Rotary Drum – Pellet Plant

Sample ID No.	Test Parameters				
	Temp. of Flue gases in (deg. C)	Velocity of flue gases in mps	CO % (v/v)	NO_2 in mg/Nm^3	Hg in mg/Nm^3
			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/153	141.0	21.5858	<0.02	NA	
ERSIPL/SE/154	151.0	21.6490	<0.02		
ERSIPL/SE/155	145.0	21.6898	NA	130.0	<0.01

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

..END OF TEST REPORT..

Fugitive Emission Monitoring Report
Frequency of Monitoring: Monthly Once
(April 2023 to September 2023)

S. No	Monitoring Stations	Month	Date of Monitoring	Test Parameters : SPM
				Analysis Result in µg/m3
1	Near Iron Ore Stock Yard	April 2023	04/04/2023	207.65
		May 2023	09/05/2023	207.09
		June 2023	13/06/2023	202.02
		July 2023	05/07/2023	203.01
		August 2023	29/08/2023	204.30
		September 2023	02/09/2023	208.80
2	Near Coal Stock Yard	April 2023	04/04/2023	207.16
		May 2023	09/05/2023	212.11
		June 2023	13/06/2023	211.62
		July 2023	05/07/2023	206.90
		August 2023	29/08/2023	200.20
		September 2023	02/09/2023	201.29
3	Near Raw Material Handling System	April 2023	04/04/2023	201.65
		May 2023	09/05/2023	210.94
		June 2023	13/06/2023	203.87
		July 2023	05/07/2023	205.74
		August 2023	29/08/2023	206.84
		September 2023	02/09/2023	205.87
4	Near Steel Melting Shop	April 2023	04/04/2023	203.57
		May 2023	09/05/2023	207.04
		June 2023	13/06/2023	203.13
		July 2023	05/07/2023	211.93
		August 2023	29/08/2023	201.25
		September 2023	02/09/2023	208.79
Permissible Limit as per G. S. R. 414 (E) dated 30/05/2008				**2000.0**

CIN - U73100OR1995PTC003889

GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory, OSPCB 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-TC744023000000178F

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Date: 20 Apr 2023

Test Report No: ERSIPL/TR/AA/070

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	:	04.04.2023
Sample Received on	:	10.04.2023
Analysis Started on	:	10.04.2023
Analysis Completed on	:	20.04.2023
Method of Sampling	:	ERSIPL/MSP/06
Quantity of Sample	:	01 sample for each parameter
Environment Condition	:	Sunny

Sample ID. No.	**Locations**
1. ERSIPL/AA/255 (Fugitive Emission)	1. Near Iron Ore Stock Yard
2. ERSIPL/AA/256 (Fugitive Emission)	2. Near Coal Stock Yard
3. ERSIPL/AA/257 (Fugitive Emission)	3. Near RMHS
4. ERSIPL/AA/258 (Fugitive Emission)	4. Near Steel Melting Shop

TEST FINDINGS:

Sl. No	Test Parameters	Test & Sampling method	Unit	Permissible Limit as per G.S.R 414 (E) dtd. 30.05.2008	Results			
					ERSIPL /AA/ 255	ERSIPL /AA/ 256	ERSIPL /AA/ 257	ERSIPL /AA/ 258
1	Suspended Particulate Matter (SPM)	IS: 5182 (Part 4)- 1999, Reaffirmed 2019, Gravimetric Method	$\mu g/m^3$	2000.0	207.65	207.16	201.65	203.57

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

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

CIN - U73100OR1995PTC003689

GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory, OSPCB 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: ersibhsr@gmail.com

ULR-TC744023000000229F

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Date: 30 May 2023

Test Report No: ERSIPL/TR/AA/090

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	:	09.05.2023
Sample Received on	:	22.05.2023
Analysis Started on	:	22.05.2023
Analysis Completed on	:	30.05.2023
Method of Sampling	:	ERSIPL/MSP/06
Quantity of Sample	:	01 sample for each parameter
Environment Condition	:	Sunny

Sample ID. No.	Locations
1. ERSIPL/AA/368 (Fugitive Emission)	1. Near Iron Ore Stock Yard
2. ERSIPL/AA/369 (Fugitive Emission)	2. Near Coal Stock Yard
3. ERSIPL/AA/370 (Fugitive Emission)	3. Near RMHS
4. ERSIPL/AA/371 (Fugitive Emission)	4. Near Steel Melting Shop

TEST FINDINGS

Sl. No	Test Parameters	Test & Sampling method	Unit	Permissible Limit as per G.S.R 414 (E) dtd. 30.05.2008	Results			
					ERSIPL /AA/ 368	ERSIPL /AA/ 369	ERSIPL /AA/ 370	ERSIPL /AA/ 371
1	Suspended Particulate Matter (SPM)	IS: 5182 (Part 4)- 1999, Reaffirmed 2019, Gravimetric Method	$\mu g/m^3$	2000.0	207.09	212.11	210.94	207.04

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

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

CIN - U73100OR199SPTC003889

GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

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Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

ULR-TC744023000000292F

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Date: 27 June 2023

Test Report No: ERSIPL/TR/AA/116

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	:	13.06.2023
Sample Received on	:	17.06.2023
Analysis Started on	:	17.06.2023
Analysis Completed on	:	27.06.2023
Method of Sampling	:	ERSIPL/MSP/06
Quantity of Sample	:	01 sample for each parameter
Environment Condition	:	Sunny

Sample ID. No.	Locations
1. ERSIPL/AA/467(Fugitive Emission)	1. Near Iron Ore Stock Yard
2. ERSIPL/AA/468 (Fugitive Emission)	2. Near Coal Stock Yard
3. ERSIPL/AA/469 (Fugitive Emission)	3. Near RMHS
4. ERSIPL/AA/470 (Fugitive Emission)	4. Near Steel Melting Shop

TEST FINDINGS:

Sl. No	Test Parameters	Test & Sampling method	Unit	Permissible Limit as per G.S.R 414 (E) dtd. 30.05.2008	Results			
					ERSIPL /AA/ 467	ERSIPL /AA/ 468	ERSIPL /AA/ 469	ERSIPL /AA/ 470
1	Suspended Particulate Matter (SPM)	IS: 5182 (Part 4)- 1999, Reaffirmed 2019, Gravimetric Method	$\mu g/m^3$	2000.0	202.02	211.62	203.87	203.13

(Authorized Signatory)

S.P.Pattanayak

Tech.Manager

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

CIN - U73100OR1995PTC003889

GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory, OSPCB Empanelled Laboratory and ISO 9001 : 2015 Certified Company)

Plot No: B-22, Sector-B, Industrial Estate Chandaka, Infocity Road, Bhubaneswar-751024, Odisha
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ULR-TC744023000000353F

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Date: 24 July 2023

Test Report No: ERSIPL/TR/AA/141

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	:	05.07.2023
Sample Received on	:	15.07.2023
Analysis Started on	:	15.07.2023
Analysis Completed on	:	24.07.2023
Method of Sampling	:	ERSIPL/MSP/06
Quantity of Sample	:	01 sample for each parameter
Environment Condition	:	Sunny

Sample ID. No.	Locations
1. ERSIPL/AA/530(Fugitive Emission)	1. Near Iron Ore Stock Yard
2. ERSIPL/AA/531 (Fugitive Emission)	2. Near Coal Stock Yard
3. ERSIPL/AA/532 (Fugitive Emission)	3. Near RMHS
4. ERSIPL/AA/533 (Fugitive Emission)	4. Near Steel Melting Shop

TEST FINDINGS:

Sl. No	Test Parameters	Test & Sampling method	Unit	Permissible Limit as per G.S.R 414 (E) dtd. 30.05.2008	Results			
					ERSIPL /AA/ 530	ERSIPL /AA/ 531	ERSIPL /AA/ 532	ERSIPL /AA/ 533
1	Suspended Particulate Matter (SPM)	IS: 5182 (Part 4)- 1999, Reaffirmed 2019, Gravimetric Method	$\mu g/m^3$	2000.0	203.01	206.90	205.74	211.93

(Authorized Signatory)

S.P.Pattanayak
Tech.Manager

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

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory)

TC-7440

Plot No: B-22, Sector-B, Industrial Estate Chandaka, Infocity Road, Bhubaneswar-751024, Odisha

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ULR-TC744023000000469F

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Date: 06 SEPT 2023

Test Report No: ERSIPL/TR/AA/190

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	:	29.08.2023
Sample Received on	:	01.09.2023
Analysis Started on	:	01.09.2023
Analysis Completed on	:	05.09.2023
Method of Sampling	:	As per Applicable Test Method
Quantity of Sample	:	01 sample for each parameter
Weather Condition	:	Sunny
Atmospheric Temperature (Min/Max)	:	27.0 – 33.0 °C
Atmospheric Pressure (Min/Max)	:	1001-1003 mbar

Sample ID. No.	Locations
1. ERSIPL/AA/679(Fugitive Emission)	1. Near Iron Ore Stock Yard
2. ERSIPL/AA/680 (Fugitive Emission)	2. Near Coal Stock Yard
3. ERSIPL/AA/681 (Fugitive Emission)	3. Near RMHS
4. ERSIPL/AA/682 (Fugitive Emission)	4. Near Steel Melting Shop

TEST FINDINGS:

Sl. No	Test Parameters	Test & Sampling method	Unit	Permissible Limit as per G.S.R 414 (E) dtd. 30.05.2008	Results			
					ERSIPL /AA/ 679	ERSIPL /AA/ 680	ERSIPL /AA/ 681	ERSIPL /AA/ 682
1	Suspended Particulate Matter (SPM)	ERSIPL/SOP/SPM/ 2023/01	$\mu g/m^3$	2000.0	204.30	200.20	206.84	201.25

Note-

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3. This certificate shall not be reproduced fully or in part without prior written consent of ERS (I) Pvt. Ltd.
4. Samples (Filter Papers & Thimbles) received shall be destroyed after 01 year & Gaseous/Liquid samples received shall be destroyed after 07 days from the date of issue of the test report, unless otherwise [illegible]
5. This report shall not used in any advertising media or as evidence in the court of law without prior written consent of ERS (India) Ltd.

ERSI PVT. LTD. BBSR

(Authorized Signatory)

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

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory)

TC-7440

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-TC744023000000485F **Test Report Format No.: ERSIPL/FM/37**

TEST REPORT (AMBIENT AIR)

Date: 25 SEPT 2023 **Test Report No: ERSIPL/TR/AA/194**

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	:	02.09.2023
Sample Received on	:	04.09.2023
Analysis Started on	:	04.09.2023
Analysis Completed on	:	13.09.2023
Method of Sampling	:	As per Applicable Test Method
Quantity of Sample	:	01 sample for each parameter
Weather Condition	:	Sunny
Atmospheric Temperature (Min/Max)	:	31.0 – 35.0 ^{0}C
Atmospheric Pressure (Min/Max)	:	1005-1006 mbar

Sample ID. No.	Locations
1. ERSIPL/AA/697(Fugitive Emission)	1. Near Iron Ore Stock Yard
2. ERSIPL/AA/698 (Fugitive Emission)	2. Near Coal Stock Yard
3. ERSIPL/AA/699 (Fugitive Emission)	3. Near RMHS
4. ERSIPL/AA/700 (Fugitive Emission)	4. Near Steel Melting Shop

TEST FINDINGS:

Sl. No	Test Parameters	Test & Sampling method	Unit	Permissible Limit as per G.S.R 414 (E) dtd. 30.05.2008	Results			
					ERSIPL /AA/ 697	ERSIPL /AA/ 698	ERSIPL /AA/ 699	ERSIPL /AA/ 700
1	Suspended Particulate Matter (SPM)	ERSIPL/SOP/SPM/ 2023/01	$\mu g/m^3$	2000.0	208.80	201.29	205.87	208.79

Note-

1. The test results relate only to the items sampled and tested.
2. Total Liability of ERS (I) Pvt. Ltd. is limited to the invoice Amount.
3. This certificate shall not be reproduced fully or in part without prior written consent of ERS (I) Pvt. Ltd.
4. Samples (Filter Papers & Thimbles) received shall be destroyed after 01 year & Gaseous/liquid samples received shall be destroyed after 07 days from the date of issue of the test report, unless otherwise specified.
5. This report shall not used in any advertising media or as evidence in the court of law without prior written consent of ERS (I) Pvt. Ltd.

(Authorized Signatory)

ANNEXURE-VII

Office of the Engineer-in-Chief, Water Resources,
Secha Sadan, Keshari Nagar, Odisha, Bhubaneswar-751001,
Phone:0674-2391693 E-Mail: cews-eicwr.od@nic.in

WS-IWS-240/21 4231 Date 19/02/2022

From

Er. Ashim Kumar Mohapatra,
Engineer-in-Chief, Planning & Design.

To

The Additional Chief Secretary to Govt.
Department of Water Resources,
Odisha, Bhubaneswar-751001.

Sub: Application for revalidation of 4.08 cusec of surface water for operational purpose from river IB in favour of MSP Metallics Ltd., Village- Marakuta, Block- Jharsuguda, Dist- Jharsuguda.

Ref : Application No.- 20211028410000305, dt. 20.10.2021.

Madam,

MSP Metallics Ltd., Village- Marakuta, Block- Jharsuguda, Dist- Jharsuguda (Application No- 20211028410000305) has applied online through GO-SWIFT portal on dt.20.10.2021 for revalidation of 4.08 cusec of surface water for operational purpose from river IB with Intake location Latitude: 21º 51' 0.144" & Longitude: 83º 57' 1.944". IPICOL has recommended for allocation of 10000 cum/day (i.e. 4.08 cusec) of water from River IB in favour of the Industry.

Initially the Industry has been allocated 4.08 cusec of surface water vide DoWR Lr No 4557/WR, dtd. 23.02.2012. But the Industry hasn't drawn surface water. Subsequently, the allocated quantity has been revalidated vide DoWR Lr No.-18396, dt.08.07.2013. Now, the Industry has applied for revalidation of the 4.08 cusec of surface water which was earlier allocated. The industry has proposed in its application to make some arrangements for in house storage facility to meet the water demand during lean period.

The company had been drawing GW @ 2000 cum/day by executing agreement and the last agreement was valid up to 31.03.2017. The Industry has been closed since Feb, 2016 and it has an arrear outstanding of Rs.169.08 lakhs .

Water availability study of the Chief Engineer, Planning reveals that, there is scarcity of water for 03 (Three) months during non-monsoon period i.e., March to May. It also states that, any adversity of climate effect resulting change in flow

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pattern in IB River cannot be ruled out in future and opined to ascertain the level of intake point of the industry & FRL of Hirakud Reservoir.

It is found that, a Technical Committee had been constituted vide E-I-C, WR, Order No-13598, dt.20.11.2012 to examine the location of the proposed intake and to ascertain whether it is coming within the boundary line of the Hirakud Reservoir or in River IB. The Technical Committee in their Inspection Report dt.14.3.2013 have reported that, the proposed intake point of the industry is at about RL 618.63 feet which comes within the boundary line of the Hirakud Reservoir (FRL 630.00 feet).

The case was discussed in the 110th WAC meeting held on dt.04.02.2022. As decided in the meeting, the application is recommended for revalidation of the 4.08 cusec of surface water from River IB (Hirakud Reservoir) for operational purpose, without assurance during lean period subject to recovery/settlement of outstanding dues against MSP Metallics Limited with the terms & conditions as detailed below.

TERMS AND CONDITIONS:-

1. MSP Metallics Ltd. shall make suitable arrangement to take the water from the Irrigation Works at which it will be supplied. MSP Metallics Ltd. shall not use the water supplied to him for any purpose other than that which is specified in the schedule.
2. If the water rate/license fees for the aforesaid quantity of water or any part thereof, is not paid on or before the date specified in agreement it shall become payable at once (unless the Government sanctions for special reason an extension of time) and MSP Metallics Ltd. and the sureties shall be liable jointly and severally to pay the same with compound interest at the rate of two percent *per mensem* from the date of default. All amount due to the Government under terms of these presents shall if not paid in time, be recoverable as a public demand under the Orissa Public Demands Recovery Act, 1962.
3. (i) MSP Metallics Ltd. shall be liable for criminal and civil action if by drawal of water, the rights of any third party are affected and shall indemnify the Government against all claims for damage preferred by person or persons affected by the permission granted.

   (ii) MSP Metallics Ltd. shall not without prior permission in writing from the Government, lay pipeline on Government or communal lands. If the pipe lines have to pass through Government lands permission of the Government for

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this shall be taken separately which may be granted subject to the protection of rights of Government or community, as the case may be.

(iii) MSP Metallics Ltd. shall not draw or lift water more than the quantity mentioned in the requisition or order and not exceeding the volume mentioned in the Schedule except with the prior approval of the Government. The Executive Engineer shall assess the fees to be charged as per Unit quantity of water drawn or allocated whichever is higher. If drawal is more than the allocation, a penal rate at six times the rate specified in Schedule II shall be charged on the quantity of excess drawal, in addition to the normal bill on allocated quantity. The excess drawal is permissible for a maximum period of six months, within which licensee shall have to apply for a higher allocation of water with reason where the licensee fails to so apply for such higher allocation or where the licensee is refused for such higher allocation, the agreement shall be liable to cancellation and the water supplied shall be stopped thereafter.

(iv)The permission granted shall not be deemed to exempt MSP Metallics Ltd. from liability to payment of water charges lawfully assessable at the rate as may be prescribed by Govt. from time to time.

(v) Government reserves the right to suspend or cancel the permission in case of violation of any of the covenants.

4. MSP Metallics Ltd. at his own cost shall install a Flow Meter or a suitable measuring device for measurement of water drawn or lifted by him from the Govt. water source as per the procedure laid down in rule 23-A(b). The Executive Engineer shall visit the location of drawal or lifting of water, verify the quantities of water drawn or lifted by MSP Metallics Ltd. and ensure such control as may be necessary for administering the drawal or lifting of water. Assessment of water rate shall be made as per the quantity of water drawn or allocated whichever is higher. In case of any defect or non-functioning of the Flow Meter, the licensee shall bring the fact to the notice of the Executive Engineer forthwith and take appropriate steps to remove the defects in the Meter or for replacement thereof within a period of three months and in such cases the fees shall be charged on the quantity of water allocated for the said period of three months or till the defect in the Meter is removed or the Meter replaced, as the case may be whichever is earlier, and where the licensee fails to bring the defect or non-functioning of the Meter to the notice of the Executive Engineer or fails to remove the defects in the Meter or to replace the same, as the case may be, within a period of three months, the agreement

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shall be liable to cancellation and thereafter the water supply shall b stopped.

5. MSP Metallics Ltd. shall construct full proof effluent discharge plant before commissioning of the project. For proper test of such effluent there shall be computerized testing system and MSP Metallics Ltd. shall give details of effluent discharged in the natural source (in river or nala).

6. For construction of head works and control mechanism i.e, intake well, pump house and other related facilities, MSP Metallics Ltd. will get the land leased in their favour through IDCO as is done in respect of any other government land required by the industry. IDCO will make available land on long term lease to MSP Metallics Ltd. The continuance of the lease agreement will subject to the condition that the industry shall pay water rates as per prevailing water rate and all other dues of Government and IDCO from time to time.

7. MSP Metallics Ltd. would be required to pay 3 (three) months advance water charges in favour of Executive Engineer concerned in shape of Bank Draft or FDR duly discharged by the company as non – interest bearing security deposit and for 9 (nine) months a Bank Guarantee duly pledged in favour of concerned Executive Engineer. Onus of maintaining the Bank Guarantee lies with the company.

8. In case of water supply for MSP Metallics Ltd. is to be met from a common source through a sharing mechanism, such common infrastructure for drawal of water will be constructed, maintained and operated either by IDCO or Special Purpose Vehicle (SPV) after taking due clearance from IDCO. Water will be supplied to Industry by IDCO/SPV and they would also be liable for payment of water rate to the Govt. and will in turn have arrangements as similar therein as clauses (6) and (7) detailed earlier.

9. MSP Metallics Ltd. drawing or allocated water from the reservoir for its uses, shall sign supplementary agreement with the Odisha Hydro Power Corporation ltd., to compensate the loss of energy generation due to its drawal and the Odisha Hydro Power Corporation ltd., shall raise demands for compensation of loss of energy generation within first week of every month against the quantity of water drawn or allocated, whichever is higher.

10. MSP Metallics Ltd. will not disturb the normal flow of water so that riparian rights in the downstream will be affected and the company shall have no claim on the account.

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11. The drawal mechanism for raw water and disposal system of effluent to be established by the industry without disturbing existing eco system and environmental set up.

12. The Rehabilitation and Resettlement Action Plan/ Welfare Action Plan, if so required will be prepared in conformity with the current Orissa Rehabilitation and Resettlement policy and executed by the company at its own cost under the supervision of the Water Resources Department and the Collector of the District.

13. MSP Metallics Ltd. should not claim as a matter of right to get the desired quantity of water during non-monsoon and lean period to meet their full industrial use and the Company has to make adequate storage facility in their own land for supply of water to their plant during such period.

14. The safety design of all the structures lies fully on the company.

15. In case of any dispute / interpretation required, the decision of the Government in Water Resources Department shall be final.

16. Any surplus power from the Captive Power Plant shall be sold by MSP Metallics Ltd. to GRIDCO or any other entity to be notified by the State Government under mutual acceptable terms & conditions.

17. The allocation of water will automatically lapse if the company does not use the water for the purpose applied for within three years of allotment.

18. This agreement shall be valid for a period of three years from the date of execution subject to the renewal of agreement by the Executive Engineer. For renewal of the agreement, the concerned drawee has to apply minimum three months before the expiry of the agreement.

19. If it is found that the industry is drawing water unauthorizedly before signing the agreement/ installation of flow-meter, the Executive Engineer will charge a penal rate at six times the normal rate as provided in Schedule II of the Rule.

20. Government shall be at liberty to review the water allocation unilaterally in case of exigencies.

21. The Executive Engineer or his authorized representative reserves the right to inspect all installations of drawal and disposal mechanism during and after construction including intake structure, flow meter and treatment plant.

22. MSP Metallics Ltd. will have to show clearly in water management plan as to what storage facility the company will create for the lean season and to what extent and how the water is going to be recycled which shall be a part of the project report of the unit.

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23. MSP Metallics Ltd. may engage at their own cost consultant(s) experienced in the field to take up field investigations, prepare design and drawing to set up the water supply scheme for drawing water from the Govt. water source for their proposed plant. The actual work will start after approval of the scheme by the competent authority of Water Resources Department who can inspect work during the construction.

24. The exact place for lifting will be decided in consultation with the competent authority of Water Resources Department.

25. Department of Water Resources (DoWR) will not be held responsible for non-availability of water due to dry season, disruption, repair & maintenance of Canal/Reservoir.

26. The agreement to be executed by the Industry/ commercial establishment with local authority/ Executive Engineer must be approved by the DoWR before drawal of water.

ADITIONAL TERMS & CONDITIONS:-

27. MSP Metallics Ltd. will have to adopt water harvesting, rooftop water harvesting, ground water recharge and recycling of waste water measures in its plant premises as per the approved water management plan.

28. MSP Metallics Ltd. shall pay contribution towards water conservation fund (WCF) complying with Gazette Notification No.-1545 dt.07.11.2015 of DOWR.

29. MSP Metallics Ltd. shall follow the zero effluent discharge principle and satisfy State Pollution Control Board (SPCB) norms and obtain requisite permissions from the SPCB, Odisha before drawal of operational water.

30. In case, MSP Metallics Ltd. intends to supply bulk water to Municipalities, Notified Area Councils, other local authorities and cluster of villages, MSP Metallics Ltd. shall install separate flow meter or measuring device, as the case may be, at a suitable place along the pipe line to ensure quantum of water supplied to such Municipalities, Notified Area Councils, other local authorities and cluster of villages for drinking and washing etc. in addition to installation of the flow meter under clause 23-A (1)(b) which shall be treated as industrial or commercial use and license fee for such industrial or commercial use shall be at the rate double the existing rate as provided in item 3 (ii) of Schedule-II.

31. MSP Metallics Ltd. shall abide by the conditions laid down by the competent authority of DoWR during approval of scheme of drawal.

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32. Only applicable for Hirakud reservoir :-

(i) Dumping of earth in reservoir area is not permitted.

(ii) Drawal of water below RL 595 Ft. of the reservoir shall not be allowed.

33. MSP Metallics Ltd. shall undertake water utilization audit in every three years and make the report available for scrutiny by the competent authority of DoWR.

34. License fees shall be charged and collected at the rate as specified in the Schedule–II per unit or quantity of water actually drawn or allocated whichever is higher and shall be enhanced at the rate of ten percent per annum with effect from the first day of April;

35. MSP Metallics Ltd. acquired with the irrigated land for industrial purpose under unavoidable circumstances has to comply with the conditions laid down vide DoWR Notification No.-4538, dt.24.02.2016.

36. MSP Metallics Ltd. shall register the project in the IWCRCM website within 7 days of entry, after due execution of agreement with the concerned Executive Engineer of DoWR.

Yours faithfully,

Engineer-in-Chief.
Planning & Design

Memo No 4232 Date 19/02/2022

Copy forwarded to the Superintending Engineer, Main Dam Division, Burla. Dist- Jharsuguda for information and necessary action.

Engineer-in-Chief.
Planning & Design

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ANNEXURE-VIII

भारत सरकार
जल शक्ति मंत्रालय
जल संसाधन, नदी विकास
और गंगा संरक्षण विभाग
केन्द्रीय भूमि जल प्राधिकरण
Government of India
Ministry of Jal Shakti
Department of Water Resources,
River Development & Ganga Rejuvenation
Central Ground Water Authority

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)
NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name:	M/s Msp Metallics Ltd		
Project Address:	Village-marakuta, Dist-jharsuguda		
Village:	Marakuta	Block:	Jharsuguda
District:	Jharsuguda	State:	Odisha
Pin Code:			
Communication Address:	M/s Msp Metallics Ltd, At/po-marakuta Dist-jharsuguda, Jharsuguda, Jharsuguda, Odisha - 768202		
Address of CGWB Regional Office :	Central Ground Water Board South Eastern Region, Bhujal Bhawan, Khandagiri Square, Nh-5, Bhubaneshwar, Khordha, Odisha - 750001		

1.	**NOC No.:**	CGWA/NOC/IND/ORIG/2022/14872			
2.	Application No.:	21-4/3053/OR/IND/2021	3.	Category: (GWRE 2020)	Safe
4.	Project Status:	Existing Project	5.	NOC Type:	New
6.	**Valid from:**	07/02/2022	7.	**Valid up to:**	06/02/2025

8. Ground Water Abstraction Permitted:

Fresh Water		Saline Water		Dewatering		Total	
m³/day	m³/year	m³/day	m³/year	m³/day	m³/year	m³/day	m³/year
490.00	178850.00						

9. Details of ground water abstraction /Dewatering structures

	Total Existing No.:7						**Total Proposed No.:0**					
	DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu
Abstraction Structure*	0	0	7	0	0	0	0	0	0	0	0	0

*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit;MPu-Mine Pumps

10.	Ground Water Abstraction/Restoration Charges paid (Rs.):	357700.00

11.	Number of Piezometers(Observation wells) to be constructed/ monitored & Monitoring mechanism.	No. of Piezometers	Monitoring Mechanism		
			Manual	DWLR**	DWLR With Telemetry
	**DWLR - Digital Water Level Recorder	1	0	1	0

(Compliance Conditions given overleaf)

This is an auto generated document & need not to be signed.

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011
Phone: (011) 23383561 Fax: 23382051, 23386743
Website: cgwa-noc.gov.in

Validity of this NOC shall be subject to compliance of the following conditions:

Mandatory conditions:

1) Installation of tamper proof digital water flow meter with telemetry on all the abstraction structure(s) shall be mandatory for all users seeking No Objection Certificate and intimation regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate.

2) Proponents shall mandatorily get water flow meter calibrated from an authorized agency once in a year.

3) Construction of purpose-built observation wells (piezometers) for ground water level monitoring shall be mandatory as per Section 14 of Guidelines. Water level data shall be made available to CGWA through web portal. Detailed guidelines for construction of piezometers are given in Annexure-II of the guidelines.

4) Proponents shall monitor quality of ground water from the abstraction structure(s) once in a year. Water samples from bore wells/ tube wells / dug wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, pesticides/ organic compounds etc. Water quality data shall be made available to CGWA through the web portal.

5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.

6) In case of mining project the firm shall submit water quality report of mine discharge/ seepage from Govt. approved/ NABL accredited lab.

7) The firm shall report compliance of the NOC conditions online in the website (www.cgwa-noc.gov.in) within one year from the date of issue of this NOC.

8) Industries abstracting ground water in excess of 100 m 3 /d shall undertake annual water audit through certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next three years through appropriate means.

9) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment (Protection) Act, 1986.

10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable.

General conditions:

11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).

12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).

13) Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws in the premise.

14) The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.

15) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.

16) Wherever feasible, requirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water.

17) Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.

18) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.

19) In case of violation of any NOC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines.

20) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities.

21) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.

22) In case of change of ownership, new owner of the industry will have to apply for incorporation of necessary changes in the No Objection Certificate with documentary proof within 60 days of taking over possession of the premises.

23) This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.

24) Proponents, who have installed/constructed artificial recharge structures in compliance of the NOC granted to them previously and have availed rebate of upto 50% (fifty percent) in the ground water abstraction charges/ground water restoration charges, shall continue to regularly maintain artificial recharge structures.

25) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, pharmaceutical, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution as per Annexure III of the guidelines.

26) In case of new infrastructure projects having ground water abstraction of more than 20 m3/day, the firm/entity shall ensure implementation of dual water supply system in the projects.

27) In case of infrastructure projects, paved/parking area must be covered with interlocking/perforated tiles or other suitable measures to ensure groundwater infiltration/harvesting.

28) In case of coal and other base metal mining projects, the project proponent shall use the advance dewatering technology (by construction of series of dewatering abstraction structures) to avoid contamination of surface water.

29) The NOC issued is conditional subject to the conditions mentioned in the Public notice dated 27.01.2021 failing which penalty/EC/cancellation of NOC shall be imposed as the case may be.
30) This NOC is issued subject to the clearance of Expert Appraisal Committee (EAC) (if applicable).

(Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)

CENTRAL GROUND WATER AUTHORITY

Government of India
Central Ground Water Authority
Ministry of Water Resources

No. 21-4(5)/SER /CGWA/07-269

Dated:- 07 MAY 2007

TAPAN DAS, NOTARY KOLKATA (24 PARGANAS) 483/94 GOVT. OF INDIA

To
M/s MSP Metallics Limited
1, Crooked Lane
Kolkata 700069

Sub:- NOC for extraction of ground water in respect of M/s MSP Metallics Limited, 1, Crooked Lane, Kolkata. - reg

Sir,

Kindly refer to your letter No. Nil dated 10.3.2007 on the above cited subject. As the proposed industry falls in the safe category area on ground water resource considerations, permission is not required to be obtained from CGWA for withdrawal of ground water.

Yours faithfully

S Bhattacharya 3/5/07

(S. Bhattacharya)
Scientist D
for Member Secretary

For MSP Metallics Ltd.

Director

MSP METALLICS LTD. KOLKATA

A-2/W-3, Curzon Road Barracks, Kasturba Gandhi Marg, New Delhi - 110 001
Phone No. (011) 23387582, 23385620 FAX No. (011) 23388310

Received on 14/5/07

COMPARED AND FOUND TO BE CORRECT
BENCHU GOPAL MANDAL
ADVOCATE

Certified to be True Copy
Attested by Identification

TAPAN DAS, NOTARY
KOLKATA (24-PGS)
30 JUL 2010

CIN - U73100OR1995PTC003889

GSTIN : 21AAACE6224D1ZE

ANNEXURE-IX

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory, OSPCB 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-TC744023000000184F **Test Report Format No.: ERSIPL/FM/40**

TEST REPORT (WATER/ ~~WASTE WATER~~)

Date: 20 Apr 2023 **Test Report No: ERSIPL/TR/WA/096**

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	04.04.2023
Sample Collected by	:	Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	10.04.2023
Analysis Started on	:	10.04.2023
Analysis Completed on	:	20.04.2023
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/216
2. ERSIPL/WA/217

Locations

1. Bore Well Water- from Admin Office
2. Bore Well Water- from Mechanical Work Shop

TEST FINDINGS

S. No.	Parameters Analyzed	Test Method	Unit	Result		Permissible Limit as per IS:10500, 2012
				ERSIPL/ WA/ 216	ERSIPL/ WA/ 217	
01	pH	IS 3025:Part 11: 1983 Reaffirmed-2017	No	7.06	7.04	6.5-8.5
02	Turbidity	IS 3025:Part 10: 1984 Reaffirmed-2017	NTU	0.53	0.50	1.0
03	Total Hardness (as $CaCO_3$)	IS 3025:Part 21: 2009 Reaffirmed-2019	mg/L	128.0	156.0	200.0
04	Iron (as Fe)	IS 3025:Part 53: 2003 Reaffirmed-2019	mg/L	0.05	0.07	0.30
05	Chloride (as Cl)	IS 3025:Part 32: 1988 Reaffirmed-2019	mg/L	27.59	30.55	250.0
06	Total Dissolved Solids	IS 3025:Part 16: 1984 Reaffirmed-2017	mg/L	237.8	274.1	500.0
07	Calcium (as Ca)	IS 3025:Part 40: 1991 Reaffirmed-2019	mg/L	33.67	34.47	75.0
08	Sulphate (as SO_4)	IS 3025:Part 24: 1986 Reaffirmed-2019	mg/L	8.59	17.69	200.0
09	Fluoride (as F)	IS 3025:Part 60: 2008 Reaffirmed-2019	mg/L	<0.1	<0.1	1.0
10	Alkalinity (as $CaCO_3$)	IS 3025:Part 23: 1986 Reaffirmed-2019	mg/L	268.0	230.0	200.0

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

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

CIN - U73100OR1995PTC003889

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

Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ ~~WASTE WATER~~)

Date: 20 Apr 2023

Test Report No: ERSIPL/TR/WA/T-096

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	04.04.2023
Sample Collected by	:	Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	10.04.2023
Analysis Started on	:	10.04.2023
Analysis Completed on	:	20.04.2023
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/216
2. ERSIPL/WA/217

Locations

1. Bore Well Water- from Admin Office
2. Bore Well Water- from Mechanical Work Shop

TEST FINDINGS

Sl	Parameters Analysed	Test Method	Unit	Result		Permissible Limit as per IS:10500, 2012
				ERSIPL/ WA/ 216	ERSIPL/ WA/ 217	
01	Colour	IS 3025:Part 04: 1983 Reaffirmed-2017	Hazen	<5.0	<5.0	5.0
02	Odour	IS 3025:Part 05: 1983 Reaffirmed-2017	--	A	A	Agreeable (A)
03	Taste	IS 3025:Part 07,08: 1984 Reaffirmed-2017	--	A	A	Agreeable (A)
04	Nitrate as NO_3	IS 3025:Part 34: 1988 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	IS 3025:Part 42: 1992 Reaffirmed-2019	mg/L	ND	ND	0.05
07	Manganese	IS 3025:Part 59: 2006 Reaffirmed-2017	mg/L	ND	ND	0.1
08	Phenolic Compound	IS 3025:Part 43: 1992 Reaffirmed-2019	mg/L	ND	ND	0.001
09	Mercury	IS 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

CIN - U73100OR1995PTC003889

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

Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

11	Selenium	IS 3025:Part 56: 2003 Reaffirmed-2019	mg/L	ND	ND	0.01
12	Total Arsenic	IS 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	Lead	IS 3025:Part 47: 1994 Reaffirmed-2019	mg/L	ND	ND	0.01
15	Zinc	IS 3025:Part 49: 1994 Reaffirmed-2019	mg/L	ND	ND	5.0
16	Anionic detergents	IS 13428 :2005 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	Polynuclear aromatic hydrocarbons	APHA 6440	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	ND	---
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	IS 3025:Part 54: 2003 Reaffirmed-2019	mg/L	ND	ND	0.02

ND-Not Detected

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

...END OF TEST REPORT...

CIN - U73100OR1995PTC003889

GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory, OSPCB Empanelled Laboratory and ISO 9001 : 2015 Certified Company)

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ULR-TC744023000000235F **Test Report Format No.: ERSIPL/FM/40**

TEST REPORT (WATER/ ~~WASTE WATER~~)

Date: 30 May 2023 **Test Report No: ERSIPL/TR/WA/123**

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	09.05.2023
Sample Collected by	:	Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	22.05.2023
Analysis Started on	:	22.05.2023
Analysis Completed on	:	30.05.2023
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.	Locations
1. ERSIPL/WA/281	1. Bore Well Water- from Admin Office
2. ERSIPL/WA/282	2. Bore Well Water- from Mechanical Work Shop

TEST FINDINGS

S. No.	Parameters Analyzed	Test Method	Unit	Result		Permissible Limit as per IS:10500, 2012
				ERSIPL/ WA/ 281	ERSIPL/ WA/ 282	
01	pH	IS 3025:Part 11: 1983 Reaffirmed-2017	No	6.97	6.95	6.5-8.5
02	Turbidity	IS 3025:Part 10: 1984 Reaffirmed-2017	NTU	0.49	0.42	1.0
03	Total Hardness (as $CaCO_3$)	IS 3025:Part 21: 2009 Reaffirmed-2019	mg/L	132.0	158.0	200.0
04	Iron (as Fe)	IS 3025:Part 53: 2003 Reaffirmed-2019	mg/L	0.07	0.05	0.30
05	Chloride (as Cl)	IS 3025:Part 32: 1988 Reaffirmed-2019	mg/L	31.54	32.52	250.0
06	Total Dissolved Solids	IS 3025:Part 16: 1984 Reaffirmed-2017	mg/L	243.5	277.5	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	9.62	18.46	200.0
09	Fluoride (as F)	IS 3025:Part 60: 2008 Reaffirmed-2019	mg/L	<0.1	<0.1	1.0
10	Alkalinity (as $CaCO_3$)	IS 3025:Part 23: 1986 Reaffirmed-2019	mg/L	272.0	236.0	200.0

(Authorized Signatory)

S.P.Pattanayak
Tech.Manager

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

CIN - U73100OR1995PTC003889 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
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Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ ~~WASTE WATER~~)

Date: 30 May 2023 **Test Report No: ERSIPL/TR/WA/T-123**

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	09.05.2023
Sample Collected by	:	Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	22.05.2023
Analysis Started on	:	22.05.2023
Analysis Completed on	:	30.05.2023
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.	Locations
1. ERSIPL/WA/281	1. Bore Well Water- from Admin Office
2. ERSIPL/WA/282	2. Bore Well Water- from Mechanical Work Shop

TEST FINDINGS

Sl	Parameters Analysed	Test Method	Unit	Result		Permissible Limit as per IS:10500, 2012
				ERSIPL/WA/281	ERSIPL/WA/282	
01	Colour	IS 3025 Part 04: 1983 Reaffirmed-2017	Hazen	<5.0	<5.0	5.0
02	Odour	IS 3025:Part 05: 1983 Reaffirmed-2017	--	A	A	Agreeable (A)
03	Taste	IS 3025:Part 07,08: 1984 Reaffirmed-2017	--	A	A	Agreeable (A)
04	Nitrate as NO_3	IS 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	IS 3025:Part 42: 1992 Reaffirmed-2019	mg/L	ND	ND	0.05
07	Manganese	IS 3025:Part 59: 2006 Reaffirmed-2017	mg/L	ND	ND	0.1
08	Phenolic Compound	IS 3025:Part 43: 1992 Reaffirmed-2019	mg/L	ND	ND	0.001
09	Mercury	IS 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

CIN - U73100OR1995PTC003689 GSTIN : 21AAACE6224B1ZE

Environmental Research and Services (India) Pvt. Ltd.

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Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

11	Selenium	IS 3025:Part 56: 2003 Reaffirmed-2019	mg/L	ND	ND	0.01
12	Total Arsenic	IS 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	Lead	IS 3025:Part 47: 1994 Reaffirmed-2019	mg/L	ND	ND	0.01
15	Zinc	IS 3025:Part 49: 1994 Reaffirmed-2019	mg/L	ND	ND	5.0
16	Anionic detergents	IS 13428 :2005 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	Polynuclear aromatic hydrocarbons	APHA 6440	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	ND	---
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	IS 3025:Part 54: 2003 Reaffirmed-2019	mg/L	ND	ND	0.02

ND-Not Detected

(Authorized Signatory)

S.P.Pattanayak
Tech.Manager

...END OF TEST REPORT...

CIN - U73100OR1995PTC003889

GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory, OSPCB Empanelled Laboratory and ISO 9001 : 2015 Certified Company)

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Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

ULR-TC744023000000298F **Test Report Format No.: ERSIPL/FM/40**

TEST REPORT (WATER/ ~~WASTE WATER~~)

Date: 27 June 2023 **Test Report No: ERSIPL/TR/WA/154**

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	12.06.2023
Sample Collected by	:	Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	17.06.2023
Analysis Started on	:	17.06.2023
Analysis Completed on	:	27.06.2023
Method of Sampling	:	IS 17614: Part 1: 2021
Quantity of Sample	:	2ltrs
Type of Container	:	Glass Bottle & HDPE Bottle
Environment Condition	:	All Tests carried out in Room Temperature

Sample ID. No.	Locations
1. ERSIPL/WA/367	1. Bore Well Water- from Admin Office
2. ERSIPL/WA/368	2. Bore Well Water- from Mechanical Work Shop

TEST FINDINGS

S. No.	Parameters Analyzed	Test Method	Unit	Result		Permissible Limit as per IS:10500, 2012
				ERSIPL/ WA/ 367	ERSIPL/ WA/ 368	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	No	6.91	6.90	6.5-8.5
02	Turbidity	IS 3025:Part 10: 2023	NTU	0.43	0.38	1.0
03	Total Hardness (as $CaCO_3$)	IS 3025:Part 21: 2009 Reaffirmed-2019	mg/L	130.0	156.0	200.0
04	Iron (as Fe)	IS 3025:Part 53: 2003 Reaffirmed-2019	mg/L	0.06	0.07	0.30
05	Chloride (as Cl)	IS 3025:Part 32: 1988 Reaffirmed-2019	mg/L	29.57	31.54	250.0
06	Total Dissolved Solids	IS 3025:Part 16: 2023	mg/L	240.0	275.1	500.0
07	Calcium (as Ca)	IS 3025:Part 40: 1991 Reaffirmed-2019	mg/L	32.06	33.67	75.0
08	Sulphate (as SO_4)	IS 3025 (Part 24/Sec 1) : 2022	mg/L	8.72	17.82	200.0
09	Fluoride (as F)	IS 3025:Part 60: 2008 Reaffirmed-2019	mg/L	<0.1	<0.1	1.0
10	Alkalinity (as $CaCO_3$)	IS 3025:Part 23: 1986 Reaffirmed-2019	mg/L	270.0	234.0	200.0

(Authorized Signatory)

S.P.Pattanayak

Tech.Manager

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

CIN - U73100OR1995PTC003869

GSTIN : 21AAACE6224D1ZE

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~~)

Date: 27 June 2023 **Test Report No: ERSIPL/TR/WA/T-154**

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	12.06.2023
Sample Collected by	:	Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	17.06.2023
Analysis Started on	:	17.06.2023
Analysis Completed on	:	27.06.2023
Method of Sampling	:	IS 17614: Part 1: 2021
Quantity of Sample	:	2ltrs
Type of Container	:	Glass Bottle & HDPE Bottle
Environment Condition	:	All Tests carried out in Room Temperature

Sample ID. No.	Locations
1. ERSIPL/WA/367	1. Bore Well Water- from Admin Office
2. ERSIPL/WA/368	2. Bore Well Water- from Mechanical Work Shop

TEST FINDINGS

Sl	Parameters Analysed	Test Method	Unit	Result		Permissible Limit as per IS:10500, 2012
				ERSIPL/ WA/ 367	ERSIPL/ WA/ 368	
01	Colour	IS 3025:Part 04: 1983 Reaffirmed-2021	Hazen	<5.0	<5.0	5.0
02	Odour	IS 3025:Part 05:2018	–	A	A	Agreeable (A)
03	Taste	IS 3025:Part 07,08: 1984 Reaffirmed-2017	–	A	A	Agreeable (A)
04	Nitrate as NO_3	IS 3025:Part 34: 1988 Reaffirmed-2019	mg/L	<5.0	<5.0	45.0
05	Residual Free Chlorine	IS 3025:Part 26: 2021	mg/L	Nil	Nil	0.2 (min) When chlorinated
06	Copper	IS 3025:Part 42: 1992, Reaffirmed-2019	mg/L	ND	ND	0.05
07	Manganese	IS 3025:Part 59: 2006 Reaffirmed-2022	mg/L	ND	ND	0.1
08	Phenolic Compound	IS 3025:Part 43: 1992 Reaffirmed-2019	mg/L	ND	ND	0.001
09	Mercury	IS 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

CIN - U73100OR1995PTC003889

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

Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

11	Selenium	IS 3025:Part 56: 2003 Reaffirmed-2019	mg/L	ND	ND	0.01
12	Total Arsenic	IS 3025:Part 37: 2022	mg/L	ND	ND	0.01
13	Cyanide	IS 3025:Part 27: 1986 Reaffirmed-2019	mg/L	ND	ND	0.05
14	Lead	IS 3025:Part 47: 1994 Reaffirmed-2019	mg/L	ND	ND	0.01
15	Zinc	IS 3025:Part 49: 1994 Reaffirmed-2019	mg/L	ND	ND	5.0
16	Anionic detergents	IS 13428 :2005 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	Polynuclear aromatic hydrocarbons	APHA 6440	mg/L	ND	ND	0.0001
19	Mineral Oil	IS 3025:Part 39: 2021	mg/L	ND	ND	0.5
20	Pesticides	USEPA gas-liquid chromatography	mg/L	ND	ND	---
21	Aluminium	IS 3025:Part 55: 2003 Reaffirmed-2019	mg/L	ND	ND	0.03
22	Boron	IS 3025:Part 57: 2021	mg/L	ND	ND	0.5
23	Nickel	IS 3025:Part 54: 2003 Reaffirmed-2019	mg/L	ND	ND	0.02

ND-Not Detected

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

...END OF TEST REPORT...

CIN - U731000R1995PTC003889

GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory, OSPCB Empanelled Laboratory and ISO 9001 : 2015 Certified Company)

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ULR-TC744023000000359F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ ~~WASTE WATER~~)

Date: 24 July 2023

Test Report No: ERSIPL/TR/WA/185

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist.: Jharsuguda, Odisha
Date of Sampling	:	04.07.2023
Sample Collected by	:	Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	15.07.2023
Analysis Started on	:	15.07.2023
Analysis Completed on	:	24.07.2023
Method of Sampling	:	IS 17614: Part 1: 2021
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/430
2. ERSIPL/WA/431

Locations

1. Bore Well Water- from Admin Office
2. Bore Well Water- from Mechanical Work Shop

TEST FINDINGS

S. No.	Parameters Analyzed	Test Method	Unit	Result		Permissible Limit as per IS:10500, 2012
				ERSIPL/ WA/ 430	ERSIPL/ WA/ 431	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	No	7.15	6.75	6.5-8.5
02	Turbidity	IS 3025:Part 10: 2023	NTU	0.63	0.87	1.0
03	Total Hardness (as $CaCO_3$)	IS 3025:Part 21: 2009 Reaffirmed-2019	mg/L	120.0	166.0	200.0
04	Iron (as Fe)	IS 3025:Part 53: 2003 Reaffirmed-2019	mg/L	0.05	0.07	0.30
05	Chloride (as Cl)	IS 3025:Part 32: 1988 Reaffirmed-2019	mg/L	9.86	19.71	250.0
06	Total Dissolved Solids	IS 3025:Part 16: 2023	mg/L	254.0	360.0	500.0
07	Calcium (as Ca)	IS 3025:Part 40: 1991 Reaffirmed-2019	mg/L	26.45	39.28	75.0
08	Sulphate (as SO_4)	IS 3025 (Part 24/Sec 1) : 2022	mg/L	11.87	64.85	200.0
09	Fluoride (as F)	IS 3025:Part 60: 2008 Reaffirmed-2019	mg/L	<0.1	<0.1	1.0
10	Alkalinity (as $CaCO_3$)	IS 3025:Part 23: 1986 Reaffirmed-2019	mg/L	160.0	146.0	200.0

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

-----END OF TEST REPORT-----

CIN - U73100OR1995PTC003899

GSTIN : 21AAACE6224D1ZE

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~~)

Date: 24 July 2023

Test Report No: ERSIPL/TR/WA/T-185

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

Date of Sampling : 04.07.2023

Sample Collected by : Representative of ERS (I) Pvt. Ltd.

Sample Collected in presence of : Representative of the Customer.

Sample Received on : 15.07.2023

Analysis Started on : 15.07.2023

Analysis Completed on : 24.07.2023

Method of Sampling : IS 17614: Part 1: 2021

Quantity of Sample : 2ltrs

Type of Container : Glass Bottle & HDPE Bottle

Environment Condition : All Tests carried out in Room Temperature

Sample ID. No.	Locations
1. ERSIPL/WA/430	1. Bore Well Water- from Admin Office
2. ERSIPL/WA/431	2. Bore Well Water- from Mechanical Work Shop

TEST FINDINGS

Sl	Parameters Analysed	Test Method	Unit	Result		Permissible Limit as per IS:10500, 2012
				ERSIPL/ WA/ 430	ERSIPL/ WA/ 431	
01	Colour	IS 3025:Part 04: 1983 Reaffirmed-2021	Hazen	<5.0	<5.0	5.0
02	Odour	IS 3025:Part 05:2018	--	A	A	Agreeable (A)
03	Taste	IS 3025:Part 07,08: 1984 Reaffirmed-2017	--	A	A	Agreeable (A)
04	Nitrate as NO_3	IS 3025:Part 34: 1988 Reaffirmed-2019	mg/L	<5.0	<5.0	45.0
05	Residual Free Chlorine	IS 3025:Part 26: 2021	mg/L	Nil	Nil	0.2 (min) When chlorinated
06	Copper	IS 3025:Part 42: 1992 Reaffirmed-2019	mg/L	ND	ND	0.05
07	Manganese	IS 3025:Part 59: 2006 Reaffirmed-2022	mg/L	ND	ND	0.1
08	Phenolic Compound	IS 3025:Part 43: 1992 Reaffirmed-2019	mg/L	ND	ND	0.001
09	Mercury	IS 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

CIN - U73100OR1995PTC003889

GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

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

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Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

11	Selenium	IS 3025:Part 56: 2003 Reaffirmed-2019	mg/L	ND	ND	0.01
12	Total Arsenic	IS 3025:Part 37: 2022	mg/L	ND	ND	0.01
13	Cyanide	IS 3025:Part 27: 1986 Reaffirmed-2019	mg/L	ND	ND	0.05
14	Lead	IS 3025:Part 47: 1994 Reaffirmed-2019	mg/L	ND	ND	0.01
15	Zinc	IS 3025:Part 49: 1994 Reaffirmed-2019	mg/L	ND	ND	5.0
16	Anionic detergents	IS 13428 :2005 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	Polynuclear aromatic hydrocarbons	APHA 6440	mg/L	ND	ND	0.0001
19	Mineral Oil	IS 3025:Part 39: 2021	mg/L	ND	ND	0.5
20	Pesticides	USEPA gas-liquid chromatography	mg/L	ND	ND	—
21	Aluminium	IS 3025:Part 55: 2003 Reaffirmed-2019	mg/L	ND	ND	0.03
22	Boron	IS 3025:Part 57: 2021	mg/L	ND	ND	0.5
23	Nickel	IS 3025:Part 54: 2003 Reaffirmed-2019	mg/L	ND	ND	0.02

ND-Not Detected

(Authorized Signatory)

S.P.Pattanayak

Tech.Manager

...END OF TEST REPORT...

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory)

TC-7440

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-TC744023000000476F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ ~~WASTE WATER~~)

Date: 06 SEPT 2023

Test Report No: ERSIPL/TR/WA/243

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	29.08.2023
Sample Collected by	:	S. samantaray, Field assistant, ERS(I) Pvt. Ltd
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	01.09.2023
Analysis Started on	:	01.09.2023
Analysis Completed on	:	05.09.2023
Method of Sampling	:	As per Applicable Test Method
Quantity of Sample	:	2ltrs
Type of Container	:	Glass Bottle, HDPE Bottle & BOD Bottle
Weather Condition	:	Overcast
Atmospheric temperature	:	33 °C

Sample ID. No.	Locations
1. ERSIPL/WA/559	1. Bore Well Water- from Admin Office
2. ERSIPL/WA/560	2. Bore Well Water- from Mechanical Work Shop

TEST FINDINGS

S. No.	Parameters Analyzed	Test Method	Unit	Result		Permissible Limit as per IS:10500, 2012
				ERSIPL/ WA/ 559	ERSIPL/ WA/ 560	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	No	7.11	6.77	6.5-8.5
02	Turbidity	IS 3025:Part 10: 2023	NTU	0.68	0.81	1.0
03	Total Hardness (as $CaCO_3$)	IS 3025:Part 21: 2009 Reaffirmed-2019	mg/L	122.0	168.0	200.0
04	Iron (as Fe)	IS 3025:Part 53: 2003 Reaffirmed-2019	mg/L	0.06	0.08	0.30
05	Chloride (as Cl)	IS 3025:Part 32: 1988 Reaffirmed-2019	mg/L	11.83	20.70	250.0
06	Total Dissolved Solids	IS 3025:Part 16: 2023	mg/L	258.0	363.0	500.0
07	Calcium (as Ca)	IS 3025:Part 40: 1991 Reaffirmed-2019	mg/L	27.25	40.08	75.0
08	Sulphate (as SO_4)	IS 3025 (Part 24/Sec 1) : 2022	mg/L	12.46	61.72	200.0
09	Fluoride (as F)	IS 3025:Part 60: 2008 Reaffirmed-2019	mg/L	<0.1	<0.1	1.0
10	Alkalinity (as $CaCO_3$)	IS 3025:Part 23: 1986 Reaffirmed-2019	mg/L	162.0	150.0	200.0

Note-

1. The test results relate only to the items sampled and tested.
2. Total Liability of ERS (I) Pvt. Ltd. is limited to the Invoice Amount.
3. This certificate shall not be reproduced fully or in part without prior written consent of ERS (I) Pvt. Ltd.
4. Samples (Filter Papers & Thimbles) received shall be destroyed after 01 year & Gaseous/liquid samples received shall be destroyed after 07 days from the date of issue of the test report, unless otherwise specified.
5. This report shall not used in any advertising media or as evidence in the court of law without written consent of ERS (I) Pvt. Ltd.

ERSI PVT. LTD. BBSR

(Authorized Signatory)

END OF TEST REPORT.....

CIN - U73100OR1995PTC003889

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
Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ ~~WASTE WATER~~)

Date: 06 SEPT 2023 **Test Report No: ERSIPL/TR/WA/T-243**

Name and Address of the Customer : M5P Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha

Date of Sampling : 29.08.2023
Sample Collected by : S. samantaray, Field assistant, ERS(I) Pvt. Ltd
Sample Collected in presence of : Representative of the Customer.
Sample Received on : 01.09.2023
Analysis Started on : 01.09.2023
Analysis Completed on : 05.09.2023
Method of Sampling : As per Applicable Test Method
Quantity of Sample : 2ltrs
Type of Container : Glass Bottle, HDPE Bottle & BOD Bottle
Weather Condition : Overcast
Atmospheric temperature : 33 ^{0}C

Sample ID. No.	Locations
1. ERSIPL/WA/559	1. Bore Well Water- from Admin Office
2. ERSIPL/WA/560	2. Bore Well Water- from Mechanical Work Shop

TEST FINDINGS

Sl	Parameters Analysed	Test Method	Unit	Result		Permissible Limit as per IS:10500, 2012
				ERSIPL/ WA/ 559	ERSIPL/ WA/ 560	
01	Colour	IS 3025:Part 04: 1983 Reaffirmed-2021	Hazen	<5.0	<5.0	5.0
02	Odour	IS 3025:Part 05:2018	–	A	A	Agreeable (A)
03	Taste	IS 3025:Part 07,08: 1984 Reaffirmed-2017	–	A	A	Agreeable (A)
04	Nitrate as NO_3	IS 3025:Part 34: 1988 Reaffirmed-2019	mg/L	<5.0	<5.0	45.0
05	Residual Free Chlorine	IS 3025:Part 26: 2021	mg/L	Nil	Nil	0.2 (min) When chlorinated
06	Copper	IS 3025 Part 42: 1992 Reaffirmed-2019	mg/L	ND	ND	0.05
07	Manganese	IS 3025:Part 59: 2006 Reaffirmed-2022	mg/L	ND	ND	0.1
08	Phenolic Compound	IS 3025:Part 43: 1992 Reaffirmed-2019	mg/L	ND	ND	0.001
09	Mercury	IS 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

CIN - U73100OR1995PTC003889

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

Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

11	Selenium	IS 3025:Part 56: 2003 Reaffirmed-2019	mg/L	ND	ND	0.01
12	Total Arsenic	IS 3025:Part 37: 2022	mg/L	ND	ND	0.01
13	Cyanide	IS 3025:Part 27: 1986 Reaffirmed-2019	mg/L	ND	ND	0.05
14	Lead	IS 3025:Part 47: 1994 Reaffirmed-2019	mg/L	ND	ND	0.01
15	Zinc	IS 3025:Part 49: 1994 Reaffirmed-2019	mg/L	ND	ND	5.0
16	Anionic detergents	IS 13428 :2005 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	Polynuclear aromatic hydrocarbons	APHA 6440	mg/L	ND	ND	0.0001
19	Mineral Oil	IS 3025:Part 39: 2021	mg/L	ND	ND	0.5
20	Pesticides	USEPA gas-liquid chromatography	mg/L	ND	ND	—
21	Aluminium	IS 3025:Part 55: 2003 Reaffirmed-2019	mg/L	ND	ND	0.03
22	Boron	IS 3025:Part 57: 2021	mg/L	ND	ND	0.5
23	Nickel	IS 3025:Part 54: 2003 Reaffirmed-2019	mg/L	ND	ND	0.02

ND-Not Detected

ERSI PVT. LTD. BBSR

(Authorized Signatory)

...END OF TEST REPORT...

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory)

TC-7440

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-TC744023000000491F **Test Report Format No.: ERSIPL/FM/40**

TEST REPORT (WATER/ ~~WASTE WATER~~)

Date: 25 SEPT 2023 **Test Report No: ERSIPL/TR/WA/252**

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	01.09.2023
Sample Collected by	:	R Jena, Field Supervisor, ERS(I) Pvt. Ltd
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	04.09.2023
Analysis Started on	:	04.09.2023
Analysis Completed on	:	13.09.2023
Method of Sampling	:	As per Applicable Test Method
Quantity of Sample	:	2ltrs
Type of Container	:	Glass Bottle, HDPE Bottle
Weather Condition	:	Sunny
Atmospheric temperature	:	31 ^{0}C

Sample ID. No.	Locations
1. ERSIPL/WA/590	1. Bore Well Water- from Admin Office
2. ERSIPL/WA/591	2. Bore Well Water- from Mechanical Work Shop

TEST FINDINGS

S. No.	Parameters Analyzed	Test Method	Unit	Result		Permissible Limit as per IS:10500, 2012
				ERSIPL/ WA/ 590	ERSIPL/ WA/ 591	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	No	7.06	6.75	6.5-8.5
02	Turbidity	IS 3025:Part 10: 2023	NTU	0.73	0.85	1.0
03	Total Hardness (as $CaCO_3$)	IS 3025:Part 21: 2009 Reaffirmed-2019	mg/L	118.0	160.0	200.0
04	Iron (as Fe)	IS 3025:Part 53: 2003 Reaffirmed-2019	mg/L	0.07	0.08	0.30
05	Chloride (as Cl)	IS 3025:Part 32: 1988 Reaffirmed-2019	mg/L	12.81	21.68	250.0
06	Total Dissolved Solids	IS 3025:Part 16: 2023	mg/L	251.1	358.4	500.0
07	Calcium (as Ca)	IS 3025:Part 40: 1991 Reaffirmed-2019	mg/L	25.65	38.48	75.0
08	Sulphate (as SO_4)	IS 3025 (Part 24/Sec 1) : 2022	mg/L	11.87	63.21	200.0
09	Fluoride (as F)	IS 3025:Part 60: 2008 Reaffirmed-2019	mg/L	<0.1	<0.1	1.0
10	Alkalinity (as $CaCO_3$)	IS 3025:Part 23: 1986 Reaffirmed-2019	mg/L	158.0	146.0	200.0

Note-

1. The test results relate only to the items sampled and tested.
2. Total Liability of ERS (I) Pvt. Ltd. is limited to the invoice Amount.
3. This certificate shall not be reproduced fully or in part without prior written consent of ERS (I) Pvt. Ltd.
4. Samples (Filter Papers & Thimbles) received shall be destroyed after 01 year & Gaseous/liquid samples received shall be destroyed after 07 days from the date of issue of the test report, unless otherwise specified.
5. This report shall not used in any advertising media or as evidence in the court of law without prior written consent of ERS (I) Pvt. Ltd.

(Authorized Signatory)

S.P.Pattanayak

CIN - U73100OR1995PTC003889

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
Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ ~~WASTE WATER~~)

Date: 25 SEPT 2023 **Test Report No: ERSIPL/TR/WA/T-252**

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	01.09.2023
Sample Collected by	:	R Jena, Field Supervisor, ERS(I) Pvt. Ltd
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	04.09.2023
Analysis Started on	:	04.09.2023
Analysis Completed on	:	13.09.2023
Method of Sampling	:	As per Applicable Test Method
Quantity of Sample	:	2ltrs
Type of Container	:	Glass Bottle, HDPE Bottle
Weather Condition	:	Sunny
Atmospheric temperature	:	31 ^{0}C

Sample ID. No.	Locations
1. ERSIPL/WA/590	1. Bore Well Water- from Admin Office
2. ERSIPL/WA/591	2. Bore Well Water- from Mechanical Work Shop

TEST FINDINGS

Sl	Parameters Analysed	Test Method	Unit	Result		Permissible Limit as per IS:10500, 2012
				ERSIPL/ WA/ 590	ERSIPL/ WA/ 591	
01	Colour	IS 3025:Part 04: 1983 Reaffirmed-2021	Hazen	<5.0	<5.0	5.0
02	Odour	IS 3025:Part 05:2018	--	A	A	Agreeable (A)
03	Taste	IS 3025:Part 07,08: 1984 Reaffirmed-2017	--	A	A	Agreeable (A)
04	Nitrate as NO_3	IS 3025:Part 34: 1988 Reaffirmed-2019	mg/L	<5.0	<5.0	45.0
05	Residual Free Chlorine	IS 3025:Part 26: 2021	mg/L	Nil	Nil	0.2 (min) When chlorinated
06	Copper	IS 3025:Part 42: 1992 Reaffirmed-2019	mg/L	ND	ND	0.05
07	Manganese	IS 3025:Part 59: 2006 Reaffirmed-2022	mg/L	ND	ND	0.1
08	Phenolic Compound	IS 3025:Part 43: 1992 Reaffirmed-2019	mg/L	ND	ND	0.001
09	Mercury	IS 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

CIN - U73100OR1995PTC003889

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

Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

11	Selenium	IS 3025:Part 56: 2003 Reaffirmed-2019	mg/L	ND	ND	0.01
12	Total Arsenic	IS 3025:Part 37: 2022	mg/L	ND	ND	0.01
13	Cyanide	IS 3025:Part 27: 1986 Reaffirmed-2019	mg/L	ND	ND	0.05
14	Lead	IS 3025:Part 47: 1994 Reaffirmed-2019	mg/L	ND	ND	0.01
15	Zinc	IS 3025:Part 49: 1994 Reaffirmed-2019	mg/L	ND	ND	5.0
16	Anionic detergents	IS 13428 :2005 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	Polynuclear aromatic hydrocarbons	APHA 6440	mg/L	ND	ND	0.0001
19	Mineral Oil	IS 3025:Part 39: 2021	mg/L	ND	ND	0.5
20	Pesticides	USEPA gas-liquid chromatography	mg/L	ND	ND	---
21	Aluminium	IS 3025:Part 55: 2003 Reaffirmed-2019	mg/L	ND	ND	0.03
22	Boron	IS 3025:Part 57: 2021	mg/L	ND	ND	0.5
23	Nickel	IS 3025:Part 54: 2003 Reaffirmed-2019	mg/L	ND	ND	0.02

ND-Not Detected

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

...END OF TEST REPORT...

ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED
CIN : U27209WB2019PTC234381
E-mail : info.omipl@orissametaliks.com

Declaration & Undertaking for using MBF, SMS Slag & Cement Slurry

M/s. Orissa Metallurgical Industry Private Limited (*Previously M/s Bansal Cement Private Limited*), a Private Limited company, having its registered Office at 1, Garstin Place, 3rd floor, Kolkata-700001 in West Bengal is hereby declare and undertake that:

M/s. Orissa Metallurgical Industry Private Limited (*Previously M/s Bansal Cement Private Limited*), having 1.45 MTPA (Existing + Proposed) Cement Grinding Unit, situated at Village- Gokulpur, P.O-Shyamraipur, P.S.-Kharagpur (L), Dist.-Paschim Medinipur, West Bengal-721301.

M/s. Orissa Metallurgical Industry Private Limited (*Previously M/s Bansal Cement Private Limited*), will use MBF, SMS Slag and cement slurry generated from existing & proposed expansion project of **M/s MSP Metallics Limited** situated at Village – Marakuta & Budhipadar, P.O. - Marakuta, Dist. - Jharsuguda, Odisha for cement manufacturing

I here by certified that, all the statements made in the above paragraphs here in above are true to the best of my knowledge and belief.

Date-18.06.2023 For **M/s. Orissa Metallurgical Industry Pvt. Ltd.**

For ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED
Director/Authorized Signatory

(**Authorized Signatory)**

RASHMI GROUP
A House of Infrastructure Solutions

RASHMI CEMENT LIMITED
CORPORATE OFFICE : PREMLATA BUILDING, 39, SHAKESPEARE SARANI, 6TH FLOOR, KOLKATA - 700 017, INDIA
TEL. : +91 33 2289 4255/ +91 33 2289 4256, FAX : +91 33 2289-4254 • CIN No. - U14107WB1991PLC053043
E-mail : sl_rcl@rashmigroup.com, Website : www.rashmigroup.com

Declaration & Undertaking for using MBF, SMS Slag & Cement Slurry

M/s Rashmi Cement Limited (Cement Division) incorporated under the Companies Act, 1956 having its registered office at 1 Premlata Building, Sixth Floor, 39-Shakespeare Sarani, Kolkata – 700 017 is hereby declare and undertake that:

M/s Rashmi Cement Limited (Cement Division) having 1.2596 Million TPA Cement Grinding Unit, situated at Village- Boria, P.O-Garhsalboni, P.S.-Jhargram, Dist.-Paschim Medinipur, West Bengal-721507.

M/s Rashmi Cement Limited (Cement Division) will use MBF, SMS Slag and cement slurry generated from existing & proposed expansion project of **/s MSP Metallics Limited** situated at Village – Marakuta & Budhipadar, P.O. - Marakuta, Dist. - Jharsuguda, Odisha for cement manufacturing

I here by certified that, all the statements made in the above paragraphs here in above are true to the best of my knowledge and belief.

Date-20.06.2023

For **M/s. Rashmi Cement Limited**

(**Authorized Signatory)**

MSP Metallics Ltd.

VILL & PO : MARAKUTA JHARSUGUDA - 768202 INDIA

State Code : 21
State Name : Odisha
GSTIN/Unique ID : 21AACCA5907D1ZC
CIN No. : U27109WB1996PLC082138
Dispatch From :

PAN No. : AACCA5907D
Contact Detail :

Billed To : **RASHMI CEMENTS LIMITED-U-I** BARIA GARH SALBONI, City: DIST-JHARGRAM, District: JHARGRAM - 721507, INDIA **STATE CODE** : 19 **STATE** : West Bengal **PAN NO.** : AABCR4343R **GSTIN** : 19AABCR4343R1Z5 **CONTACT DETAIL** :	**Invoice No.** : 701812314398 **Billing Date** : 26-11-2023 **SO No.** : 185817 **SO Date** : 07.10.2023 Buyer's Order No. C123435559 Date 07.10.2023 **Challan No.** : 701812314398 **Challan Date** : **LUT / CT. No.** **LUT/CT. Date** :
[illegible] No. : **LC Date** :	**LR No.** : **LR Date** :
Shipped To : (Address of Delivery) **RASHMI CEMENTS LIMITED-U-I** BARIA GARH SALBONI, City: DIST-JHARGRAM, District: JHARGRAM - 721507, INDIA **STATE CODE** : 19 **STATE** : West Bengal **PAN NO.** : AABCR4343R **GSTIN** : 19AABCR4343R1Z5 **CONTACT DETAIL** : E-Waybill No. : **E-Waybill Date** :	**Agent Name** : **Agent Area** : **Container No.** : **Seal No.** : Date Of Supply : 26-11-2023 19:38:16 **Place Of Supply** : WEST BENGAL **Dispatch Through** : DALA BODY **Vehicle No.** : WB273401 **Terms Of Payment** Net Due in 30 Days **Tare Weight** : 13.480 **Gross Weight** : 42.840 **Net Weight** : 29.360

IRN 11a764e5032461d7f638a3cf13eeea6f0b66baa384a52e0d6033e73a40 5c8f047

Ack No. : 162314925912534
Ack. Date : 2023-11-26 18:39:00

Sl No.	Descriptions Of Goods	HSN No.	Quantity	Rate Rs.	UOM	Total Value Rs.
1	GRANULATED SLAG	26180000	29.360	600.00	MT	17,616.00

Taxable Value In Words : INR - SEVENTEEN THOUSAND SIX HUNDRED SIXTEEN RUPEES ONLY

Amount of Tax (In Words) : INR - EIGHT HUNDRED EIGHTY RUPEES EIGHTY PAISE ONLY

Total :	29.360	17,616.00
IGST		880.80
Total Invoice Value		18,496.80
Rounding Off		0.20

[illegible]ity Type

Gross Invoice Value : 18,497.00

Amount Chargeable(in words) : INR - EIGHTEEN THOUSAND FOUR HUNDRED NINETY SEVEN RUPEES ONLY

HSN/SAC	Taxable Value	CGST		SGST/UGST		IGST		CESS	
		Rate	Amt	Rate	Amt	Rate	Amt	Rate	Amt
26180000	17,616.00	0.00	0.00	0.00	0.00	5.00	880.80		0.00
Total	17,616.00		0.00		0.00		880.80		0.00

Terms & Conditions :

GST Payable on Reverse Charges : NO

Freight BACK

Transporter INDIAN ROAD CARRIERS

Invoice Remarks :

Declaration : We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct and the amount indicated represents the price actually charged and there is no flow of additional consideration directly or indirectly from the buyer.

Bank Details :

Bank Name :

IFSC Code

Bank A/C No :

For MSP Metallics Ltd.

Authorised Signatory

This is a Computer Generated Invoice

Note : Subject to Midnapur Jurisdiction Only.

TAX INVOICE

TRIPLICATE FOR SUPPLIER

MSP Metallics Ltd.

VILL & PO : MARAKUTA JHARSUGUDA - 768202 INDIA

State Code : 21
State Name : Odisha
GSTIN/Unique ID : 21AACCA5907D1ZC
CIN No. : U27109WB1996PLC082138
Dispatch From :

PAN No. : AACCA5907D
Contact Detail :

Billed To :

ULTRATECH CEMENT LIMITED

UNIT JHARSUGUDA CEMENT WORKS, NEAR DHUTRA RAILWAY STATION, PO ARDA, City: JHARSUGUDA, District: JHARSUGUDA - 768202 , INDIA

STATE CODE : 21 **STATE** : Odisha
PAN NO. : AAACL6442L **GSTIN** : 21AAACL6442L1ZM
CONTACT DETAIL : 9425526128

Invoice No. : 701812314415	**Billing Date** : 27-11-2023
SO No. : 191298	**SO Date** : 09.11.2023
Buyer's Order No. **Mail**	Date **09.11.2023**
Challan No. : 701812314415	**Challan Date** :
LUT / CT. No.	**LUT/CT. Date** :
LR No. :	**LR Date** :
Agent Name :	**Agent Area** :
Container No. :	**Seal No.** :
Date Of Supply : **27-11-2023,15:03:06**	**Place Of Supply** : ODISHA
Dispatch Through : DALA BODY	**Vehicle No.** : OD15B4787
Terms Of Payment Advance	**Tare Weight** : 14.000 **Gross Weight** : 52.700 **Net Weight** : 38.700

No. : **LC Date** :

Shipped To : (Address of Delivery)

ULTRATECH CEMENT LIMITED

UNIT JHARSUGUDA CEMENT WORKS, NEAR DHUTRA RAILWAY STATION, PO ARDA, City: JHARSUGUDA, District: JHARSUGUDA - 768202 , INDIA

STATE CODE : 21 **STATE** : Odisha
PAN NO. : AAACL6442L **GSTIN** : 21AAACL6442L1ZM
CONTACT DETAIL : 9425526128

E-Waybill No : **E-Waybill Date** :

IRN : dd6d3232188acf[illegible]

Ack No. : 182314929889810
Ack. Date : 2023-11-27 15:04:00

Sl No.	Descriptions Of Goods	HSN No.	Quantity	Rate Rs.	UOM	Total Value Rs.
1	GRANULATED SLAG	26180000	38.700	600.00	MT	23,220.00

Total : 38.700	23,220.00
CGST	580.50
SGST/UGST	580.50
Total Invoice Value	24,381.00

Taxable Value in Words : INR - TWENTY THREE THOUSAND TWO HUNDRED TWENTY RUPEES ONLY

Amount of Tax(In Words) : INR - ONE THOUSAND ONE HUNDRED SIXTY ONE RUPEES ONLY

Supply Type : Domestic Sale

Gross Invoice Value : 24,381.00

Amount Chargeable(in words) : INR - TWENTY FOUR THOUSAND THREE HUNDRED EIGHTY ONE RUPEES ONLY

HSN/SAC	Taxable Value	CGST		SGST/UGST		IGST		CESS	
		Rate	Amt	Rate	Amt	Rate	Amt	Rate	Amt
26180000	23,220.00	2.50	580.50	2.50	580.50	0.00	0.00		0.00
Total	23,220.00		580.50		580.50		0.00		0.00

Terms & Conditions :

GST Payable on Reverse Charges : NO

Freight Basis :

Transporter : SELF BY PARTY

Invoice Remarks : 1) MATERIAL IS " AS IS WHERE IS BASIS" 2) BUYER SHOULD LIFT THE ENTIRE QTY OF THIS SALE ORDER BY 31.12.2023

Declaration : We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct and the amount indicated represents the price actually charged and there is no flow of additional consideration directly or indirectly from the buyer.

Bank Details :

Bank Name :

Bank A/C No. : IFSC Code :

This is a Computer Generated Invoice

For MSP Metallics Ltd.

MSP METALLICS LIMITED JHARSUGUDA (ODISHA) MARAKUTA

Note : Subject to Midnapur Jurisdiction Only.

CENTRE FOR ENVOTECH AND MANAGEMENT CONSULTANCY PVT. LTD.

An ISO 9001-2015 & OHSAS 45001:2018 Certified Company, Empanelled with OCCL, ORSAC and SPCB of Govt. of Odisha
Accredited by NABET, QCI for EIA Studies as 'A' Category Consultant Organization. Empanelled with PCCF(Wildlife) &CWLW,Odisha
Enlisted in Construction Industry Development Council (CIDC) established by the Planning Commission (Govt. of India)
MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986 & NABL Accredited Laboratory

Report No. - CEMC/MSP/050923 **Issued Date-05.09.2023**

TCLP TEST RESULT

Name & Address of the Client	**M /s MSP Metallics Limited,Marakuta,Jharsuguda**
Reference No.	**CEMC-050923S**
Nature of Sampling	**SMS Slag Sample**
Sampling By	**Client's representative**
Sampling Date	**23.08.2023**
Date of Sample Receiving	**24.08.2023**

PARAMETERS	UNIT	RESULT	STANDARD AS PER HWM SCHEDULE-II
Arsenic (as As)	mg/ltr	<0.01	5.0
Mercury (as Hg)	mg/ltr	<0.001	0.2
Lead (as Pb)	mg/ltr	0.79	5.0
Chromium (VI)	mg/ltr	0.26	5.0
Total Chromium (as Cr)	mg/ltr	0.63	5.0
Nickel (as Ni)	mg/ltr	0.98	20
Zinc (as Zn)	mg/ltr	0.91	250
Selenium (as Se)	mg/ltr	0.05	1.0
Manganese (as Mn)	mg/ltr	0.95	10.0
Beryllium (as Be)	mg/ltr	0.03	0.75
Cobalt (as Co)	mg/ltr	0.29	80.0
Copper (as Cu)	mg/ltr	0.48	25.0
Molybdenum (as Mo)	mg/ltr	0.04	350.0
Antimony (as Sb)	mg/ltr	<0.01	15.0
Vanadium (as V)	mg/ltr	0.04	24.0
Fluoride (as F)	mg/ltr	0.9	180.0
Silver (as Ag)	mg/ltr	0.63	5.0
Barium (as Ba)	mg/ltr	1.04	100.0
Cadmium (as Cd)	mg/ltr	0.73	1.0
Cyanide (as Cn)	mg/ltr	<0.1	20.0

Authorized Signatory **Seal of Laboratory**

Notes:

- The results relate only to the sample tested.
- This Test Report shall not be reproduced wholly or in part without prior written consent of the laboratory.
- The samples received shall be destroyed after two weeks from the date of issue of the Test Report unless specified otherwise.
- This Test Report shall not be used in any advertising media or as evidence in the court of Law without prior written consent of the laboratory.

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Report No. - CEMC/MSP/050923 **Issued Date-05.09.2023**

TCLP TEST RESULT

Name & Address of the Client	**M /s MSP Metallics Limited,Marakuta,Jharsuguda**
Reference No.	**CEMC-050923S**
Nature of Sampling	**MBF Slag Sample**
Sampling By	**Client's representative**
Sampling Date	**23.08.2023**
Date of Sample Receiving	**24.08.2023**

PARAMETERS	UNIT	RESULT	STANDARD AS PER HWM SCHEDULE-II
Arsenic (as As)	mg/ltr	<0.01	5.0
Mercury (as Hg)	mg/ltr	<0.001	0.2
Lead (as Pb)	mg/ltr	0.69	5.0
Chromium (VI)	mg/ltr	0.26	5.0
Total Chromium (as Cr)	mg/ltr	0.56	5.0
Nickel (as Ni)	mg/ltr	0.77	20
Zinc (as Zn)	mg/ltr	0.78	250
Selenium (as Se)	mg/ltr	0.05	1.0
Manganese (as Mn)	mg/ltr	0.82	10.0
Beryllium (as Be)	mg/ltr	0.022	0.75
Cobalt (as Co)	mg/ltr	0.25	80.0
Copper (as Cu)	mg/ltr	0.44	25.0
Molybdenum (as Mo)	mg/ltr	0.034	350.0
Antimony (as Sb)	mg/ltr	<0.01	15.0
Vanadium (as V)	mg/ltr	0.032	24.0
Fluoride (as F)	mg/ltr	0.74	180.0
Silver (as Ag)	mg/ltr	0.52	5.0
Barium (as Ba)	mg/ltr	0.88	100.0
Cadmium (as Cd)	mg/ltr	0.66	1.0
Cyanide (as Cn)	mg/ltr	<0.1	20.0

Authorized Signatory **Seal of Laboratory**

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OMPL

ORISSA METALIKS PRIVATE LIMITED

Vill. & P.O.: Marakuta, Dist.: Jharsuguda, Pin-768202, Odisha
Ph.: 8093089903, Email : sc_ompl@orissametaliks.com, edoffice@mspsteeljsg.com
CIN No. U27109WB2006PTC111146

OMPL(MSP)/Intimation_Bricks Plant/2023-24/064
9th November 2023

To,
The Regional Officer,
State Pollution Control Board,
Regional Office, Jharsuguda,
Plot No. 370/5971, At: Babubagicha (Cox Colony),
St. Mary's Hospital Road, PO- Industrial Estate,
Dist.: Jharsuguda, Odisha - 768203

Sub.: Establishment of Fly Ash Brick / Block manufacturing facility of capacity 1,20,000 Bricks / Block per day at Village - Marakuta, Dist. Jharsuguda, Odisha (768202) by M/s Orissa Metaliks Private Limited (Formerly MSP Metallics Limited)- Intimation reg.

Ref.: 1. State Pollution Control Board, Odisha Order No. 15889/Ind-I-Con(M)1204, Dated: 31/10/2016
2. Modified directions U/s 18(1)(b) of the Water (Prevention & Control of Pollution) Act, 1974 and the Air (Prevention & Control of Pollution) Act, 1981 regarding harmonization of classification of industrial sectors under Red/Orange/Green/White categories issued by Central Pollution Control Board vide letter No. B-29012/ESS(CPA)/2015-16/ Dated: 07/03/2016

Dear Sir,

This has reference to the above mentioned subject and Order of State Pollution Control Board, Odisha on dated 31/10/2016. Fly Ash Brick/Block manufacturing facility is re-categorized as White in revised classification of industrial sectors under Red, Orange, Green and White categories dated February 29, 2016 and Order in respect of categorization of industries issued by State Pollution Control Board, Odisha. As per the revised classification of industrial sectors and OSPCB Order, there is no necessity of obtaining consent for White Category of industries and intimation to OSPCB is sufficient.

We would like to inform your good office that we are going to establish a Fly Ash Brick / Block manufacturing facility of capacity 1,20,000 Bricks / Blocks per Day at Village - Marakuta, Dist. Jharsuguda, Odisha - 768202 for utilization of Fly Ash generated from our captive power plant.

This is for your kind information and consideration, please.

Yours faithfully,
For Orissa Metaliks Private Limited
(Formerly MSP Metallics Limited)

9/11/23
J P Sharma
Executive Director (Works)

REGIONAL OFFICE STATE POLLUTION CONTROL BOARD, ODISHA
RECEIVED
09/11/2023
JHARSUGUDA

ANNEXURE-XIII

FORMAT FOR PROVIDING PARTICULARS ON GREEN BELT/PLANTATION UNDER E (P) ACT 1986

1 a)	**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 by M/s Orissa Metaliks Private Limited (Formerly MSP Metallics Limited)
1 b)	**Environment Clearance Nos. :**		1. Environmental Clearance accorded vide F. No. J-11011/494/2007-IA-II (I) dated 13th July 2009. 2. Recommendation of the 4th Reconstituted Expert Appraisal Committee (Industry-1) MoEF&CC, New Delhi in its meeting held on 26th & 27th October 2009 for change in plant configuration and capacity. 3. Transfer of Environment Clearance vide File No: J-11011/494/2007-IA.II(I) dated 23.10.2023 (EC Identification No. EC23A1001OR5864822T).
2	**Location, Block/ Sub. Divn. / Dist/ State:**		Village - Marakuta, District – Jharsuguda, Odisha
3	**Address for communication :**		1, Garstin Place, Orbit House, 3rd Floor, Room No. - 3B, Kolkata – 700 001, West Bengal
4	**Existing vegetation in the area/ region**		Industrial land
	a	Species (trees/shrubs/ grasses/climbers)	Vacant land
	b	Major prevalent species of each type	Not Applicable
5	**Land coverage by the project**		
	a	Total area under the project	103.82 Hectares (256.54 Acres)
	b	Area covered for basic infrastructure (roads/building/factory etc.)	27.15 Hecatres (67.09 acres)
6	**Details about natural vegetation**		Industrial Land
	a	Name and number of tree/ species felled	NA
	b	Name and number of plant species still available in the area	NA
	c	By protecting the area will indigenous stock come up	NA

	d	Extent of greenbelt developed (till September 2023)	34.26 hectares i.e., 33.0% areas of total plant premises
7	**Plantations required to be carried out as per**		
	a	Conditions of Environmental Clearance in ha./ Nos.	33%
	b	Conditions for Forest act (c) clearance in ha./ Nos.	Not Applicable
	c	Voluntarily in acres (truck parking area etc.)	-
	d	Voluntarily in no. for green belt development in nearby area	-
8	**Details of plantations**		

	A	Plantation details (category wise & methodology used)	**Year of plantation**			
	b	Survival of plantation	**FY 2022-2023**	**FY 2023-24 (till October 2023)**		
		- Total Seedling/Plantation (No.)	-	3,500		
		- Survival Trees (No) as on date from date of EC	51,980	3,325		
		- Survival	-	95.0%		
9.	**Future Plan on Green Belt development**		Existing Greenbelt/plantation is being/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 2500 trees per hectare as per CPCB guideline.			
10.	**Agency carrying out plantation and maintenance**		Our own horticulture department & third party			
11.	**Financial details (year wise) plantation wise and item wise**		**S. No.**	**Year**	**Fund allocated (₹)**	**Expenditure including voluntary tree plantation cost (₹)**
			1	2023-24	30,00,000	13,00,000

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.	**Coke Oven Plants** • To meet the parameters PLD (%leaking doors), PLL (%leaking lids), PLO (%leaking off take), of the notified standards under EPA within three years. Industry will submit time bound action plan and PERT Chart along with the Bank Guarantee for the implementation of the same. • To rebuild at least 40% of the coke oven batteries* in next 10 years.	For the existing coke oven 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 stack of for better dispersion of pollutant.
3.	**Blast Furnace** Direct inject of reducing agents.	Presently the Blast furnace is in operation. Direct injection of reducing agents is ensured during operation of blast furnace.
4.	**Solid waste/Hazardous Waste management** Utilisation of Steel Melting Shop (SMS)/ Blast Furnace (BF) Slag.	100% SMS slag is given for metal recovery, converted to aggregates (special balls) and used in road and bricks making. MBF Slag is stored at designated location inside the plant premises and is also supplied to the cement grinding unit/ associate company of the Group.
5.	**Water conservation/water**	

S. No.	Recommendation	Plan for Implementation
	pollution • To reduce specific water consumption for long products. • To operate CO-BP effluent treatment plant efficiently to achieve the notified effluent discharge standards.	• Not applicable. • A neutralizing pit and effluent collection sump (called common monitoring basin) has been installed for treating & reusing the effluent generated.
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. 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 04 nos. of CAAQMS. Four (04) numbers of Ambient Air Quality (AAQ) Monitoring stations has been received and pre-fabricated station work is in progress. Also, an application has been submitted to the Regional Office, State Pollution Control Board, Odisha for site approval for installation of CAAQMS and shall be installed after getting site approval from OSPCB.
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	Existing pollution control equipment are being operated efficiently and regular record maintained. The records will be submitted to the SPCB at regular intervals.

S. No.	Recommendation	Plan for Implementation
	be submitted to CPCB/SPCB.	
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.
9.	The industry will initiate the steps to adopt the following clean technologies/measures to improve the performance of industry towards production, energy and environment.	The following clean technologies/measures are being adopted as follows.
	➢ Energy recovery of top Blast Furnace (BF) gas.	Blast furnace 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 the runners.
	➢ 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.
	➢ Suppression of fugitive emissions using nitrogen gas or other inert gas.	This shall be carried out in the applicable equipment.
	➢ 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 MBF and fly ash from CPP is being/will be used in cement manufacturing and brick manufacturing. The slag generated from the SMS plant is being/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.

S. No.	Recommendation	Plan for Implementation
		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.
	➢ Reduction of Green House Gases by: 1. Reduction in power consumption 2. Use of by-products gases for power generation 3. Promotion of Energy Optimization Technology including energy audit	1. The power use is being/will be reduced through energy conservation measures on commencement of operation. 2. DRI exhaust is used for power generation. 3. Energy auditing is being/will be 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.	NABL accredited consultant has been engaged for environmental monitoring. Monthly report is being maintained. The man powers of the consultants are well trained for performing environmental monitoring and analysis.
	➢ To improve overall housekeeping.	Action taken by company for improvement of housekeeping and controlling emission are: a) 114 numbers of fixed rotary

S. No.	Recommendation	Plan for Implementation
		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. 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 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.

S. No.	Recommendation	Plan for Implementation
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. Management will ensure that all APCD are working efficiently to control emissions within the permissible limits.

ANNEXURE-XV

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

Goverment of India

Minister of Enviroment,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
2. Name of the Proposal:	Expansion of Steel Plant 1.05 Million TPA With 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

1) The alternate sites considered, the relative merits and demerits and the reasons for selecting the proposed site for the Beneficiation Plant should be indicated.

2) Details of the technology and process involved for beneficiation should be given. .

3) 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.

4) Treatment of run of mine (ROM) and or of the fines/waste dump should be spelt out.

5) Estimation of the fines going into the washings should be made and its management described.

6) Details of the equipment, settling pond etc. should be furnished.

7) 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.

11) 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).

14) 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

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.

16) The study area will comprise of 10 km zone around the Plant.

17) 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.

19) 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.

26) 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

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.

28) 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).

31) 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

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.

35) 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.

41) 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.

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:-

a) 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.

e) 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. J-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 MoEF&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

i. 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

i. 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 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.
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):

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

i. 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 <u>all</u> 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 <u>all</u> 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.

3. Description of the Environment

i. Study period

ii. Approach and methodology for data collection as furnished below.

Attributes	Sampling		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	1 hourly continuous	• IS 5182 Part 1-20 • Site specific primary data is essential • Secondary data from IMD, New Delhi • CPCB guidelines to be considered.
Pollutants • $PM_{2.5}$ • 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 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 weeks of all stations as

Attributes	Sampling		Remarks
	Network	Frequency	
			per frequency given in the NAAQM Notification of 16/11/2009 along 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.
B. Noise			
• Hourly equivalent noise levels	At least 8-12 locations	As per CPCB norms	
C. Water			
Parameters for water quality • pH, temp, turbidity, magnesium hardness, total 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	Samples for water quality should be collected and analyzed as per: • IS: 2488 (Part 1-5) methods for sampling and testing of Industrial effluents • Standard methods for examination of water and wastewater analysis published by American Public Health Association.		
For River Bodies • Total Carbon • pH • Dissolved Oxygen • Biological Oxygen Demand • Free NH4 • Boron • Sodium Absorption Ratio • Electrical	• Surface water quality of the nearest River (60m upstream and downstream) and other surface water	• Yield of water sources to be measured during critical season • Standard methodology for collection of surface water (BIS standards)	

Attributes	Sampling		Remarks
	Network	Frequency	
Conductivity	bodies		
For Ground Water	• Ground water monitoring data should be collected at minimum of 8 locations (from existing wells /tube wells/existing current records) from the study area and shall be included.		
D. Traffic Study			
• Type of vehicles • Frequency of vehicles for transportation of materials • Additional traffic due to proposed project • Parking arrangement	-		
E. Land Environment			
Soil • Particle size distribution • Texture • pH • Electrical conductivity • Cation exchange capacity • Alkali metals • Sodium Absorption Ratio (SAR) • Permeability • Water holding capacity • Porosity	Soil samples be collected as per BIS specifications		
Land use/Landscape • Location code • Total project area • Topography • Drainage (natural) • Cultivated, forest, plantations, water bodies, roads and settlements	-		
E. Biological Environment			

Attributes	Sampling		Remarks
	Network	Frequency	
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) **Terrestrial** • 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	• Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. Indicator species which indicate ecological and environment degradation should be identified and included to clearly state whether the proposed project would result in to any adverse effect on any species. • Samples to collect from upstream and downstream of discharge point, nearby tributaries at downstream, and also from dug wells close to activity site. • For forest studies, direction of wind should be considered while selecting forests. • Secondary data to collect from Government offices, NGOs, published literature.		
F. socio-economic			
• Demographic structure • Infrastructure resource base • Economic resource base • Health status: Morbidity pattern • Cultural and aesthetic attributes	• Socio-economic survey is based on proportionate, stratified and random sampling method. • Primary data collection through questionnaire • Secondary data from census records, statistical hard books, topo sheets, health records and relevant official records available with Govt. Agencies		

Attributes	Sampling		Remarks
	Network	Frequency	
• Education			

iii. Interpretation of each environment attribute shall be enumeratedand 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			

ii. 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

iv. 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

ix. Impact on terrestrial and aquatic habitat (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)

a. Construction phase
b. Operation phase

x. Impact on socio-economic environment (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)

a. Construction phase
b. Operation phase

xi. 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)

i. 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 phase					
Operation phase					

7. Additional Studies

i. 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 and action plan		Year of implementation (Budget in INR)			Total Expenditure (Rs. in Crores)
	Name of the Activity	Physical Targets	1st	2nd	3rd	

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

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)

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)
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-

1. 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.
2. 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.
6. 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.
7. 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.
11. 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-.

1. Introduction

i. Background about the project
ii. Need of the project
iii. Purpose of the EIA study
iv. Scope of the EIA study

2. Project description

Site Details

i. 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 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.
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.

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

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

ii. 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.

4. Salient features of the project

i. 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 <u>all</u> 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 <u>all</u> 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.

5. Description of the Environment

i. Study period

ii. Approach and methodology for data collection as furnished below.

Attributes	Sampling		Remarks
	Network	**Frequency**	
. Air Environment			
licro-Meteorological Wind speed (Hourly) Wind direction Dry bulb temperature Wet bulb temperature Relative humidity Rainfall Solar radiation Cloud cover Environmental Lapse Rate	inimum 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.
ollutants $PM_{2.5}$ PM_{10} SO_2 NOx CO HC Other parameters relevant to the project and topography of the area	t least 8-12 locations	s per ational Ambient Air Quality Standards, CPCB otification.	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 weeks of all stations as per frequency given in

Attributes	Sampling		Remarks
	Network	Frequency	
			the NAAQM Notification of 16/11/2009 along 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.
. Noise			
Hourly equivalent noise levels	t least 8-12 locations	s per CPCB norms	
. Water			
arameters for water quality pH, temp, turbidity, magnesium hardness, total 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	amples for water quality should be collected and analyzed as per: IS: 2488 (Part 1-5) methods for sampling and testing of Industrial effluents Standard methods for examination of water and wastewater analysis published by American Public Health Association.		
or River Bodies Total Carbon pH Dissolved Oxygen Biological Oxygen Demand Free NH4 Boron Sodium Absorption Ratio Electrical Conductivity	Surface water quality of the nearest River (60m upstream and downstream) and other surface water bodies	Yield of water sources to be measured during critical season Standard methodology for collection of surface water (BIS standards)	

Attributes	Sampling		Remarks
	Network	Frequency	
or Ground Water	Ground water monitoring data should be collected at minimum of 8 locations (from existing wells /tube wells/existing current records) from the study area and shall be included.		
. Traffic Study			
Type of vehicles Frequency of vehicles for transportation of materials Additional traffic due to proposed project Parking arrangement			
. Land Environment			
oil Particle size distribution Texture pH Electrical conductivity Cation exchange capacity Alkali metals Sodium Absorption Ratio (SAR) Permeability Water holding capacity Porosity	oil samples be collected 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	Detailed description of flora and fauna (terrestrial and		

Attributes	Sampling		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)	aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. Indicator species which indicate ecological and environment degradation should be identified and included to clearly state whether the proposed project would result in to any adverse effect on any species. Samples to collect from upstream and downstream of discharge point, nearby tributaries at downstream, and also from dug wells close to activity site. For forest studies, direction of wind should be considered while selecting forests. Secondary data to collect from Government offices, NGOs, published literature.		
errestrial			
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			
Demographic structure Infrastructure resource base Economic resource base Health status: Morbidity pattern Cultural and aesthetic attributes	Socio-economic survey is based on proportionate, stratified and random sampling method. Primary data collection through questionnaire Secondary data from census records, statistical hard books, topo sheets, health records and relevant official records available with Govt. agencies		

Attributes	Sampling		Remarks
	Network	Frequency	
Education			

iii. Interpretation of each environment attribute shall be enumeratedand 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

6. 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
onstruction phase			
peration phase			

ii. 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

iv. 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

ix. Impact on terrestrial and aquatic habitat (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)

a. Construction phase
b. Operation phase

x. Impact on socio-economic environment (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)

a. Construction phase
b. Operation phase

xi. Impact on occupational health and safety (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)

a. 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

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**:

ctivity	**spect**	**Monitoring Parameter**	**ocation**	**requency**	**Responsibility**
onstruction phase					
peration phase					

9. Additional Studies

i. 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 and action plan**		**Year of implementation (Budget in INR)**			**Total Expenditure (Rs. in Crores)**
	ame of the Activity	**Physical Targets**	**1st**	**2nd**	**3rd**	

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)
xi. 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 CONDITONS-

1. Limestone and coal linkage documents along with the status of environment clearance of limestone and coal mines.
2. Quantum of production of coal and limestone from coal & limestone mines and the projects they cater to;
3. 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.
4. If the raw materials used have trace elements, an environment management plan shall also be included.
5. Plan for the implementation of the recommendations made for the cement plants in the CREP guidelines shall be prepared.
6. Energy consumption per ton of clinker and cement grinding
7. Provision of waste heat recovery boiler
8. Arrangement for co-processing of hazardous waste in cement plant.
9. Provision of Alternate fuels.
10. 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

i. 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

i. 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 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.
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):

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

i. 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.
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.

3. Description of the Environment

i. Study period

ii. Approach and methodology for data collection as furnished below.

Attributes	Sampling		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	1 hourly continuous	• IS 5182 Part 1-20 • Site specific primary data is essential • Secondary data from IMD, New Delhi • CPCB guidelines to be considered.
Pollutants • $PM_{2.5}$	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
• PM_{10}			
• SO_2			
• NOx			
• CO			
• HC			
• Other parameters relevant to the project and topography of the area			

Attributes	Sampling		Remarks
	Network	Frequency	
			sensitive receptors including reserved forests, • Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAAQM Notification of 16/11/2009 along 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.
B. Noise			
• Hourly equivalent noise levels	At least 8-12 locations	As per CPCB norms	-
C. Water			
Parameters for water quality • pH, temp, turbidity, magnesium hardness, total alkalinity, chloride, sulphate, nitrate, fluoride, sodium, potassium, salinity • Total nitrogen, total phosphorus, DO, BOD, COD, Phenol • Heavy metals • Total coliforms,	Samples for water quality should be collected and analyzed as per: • IS: 2488 (Part 1-5) methods for sampling and testing of Industrial effluents • Standard methods for examination of water and wastewater analysis published by American Public Health Association.		

Attributes	Sampling		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	• Surface water quality of the nearest River (60m upstream and downstream) and other surface water bodies	• Yield of water sources to be measured during critical season • Standard methodology for collection of surface water (BIS standards)	
For Ground Water	• Ground water monitoring data should be collected at minimum of 8 locations (from existing wells /tube wells/existing current records) from the study area and shall be included.		
D. Traffic Study			
• Type of vehicles • Frequency of vehicles for transportation of materials • Additional traffic due to proposed project • Parking arrangement	-		
E. Land Environment			
Soil • Particle size distribution • Texture • pH • Electrical conductivity • Cation exchange	Soil samples be collected 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 Environment			
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)	• Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. Indicator species which indicate ecological and environment degradation should be identified and included to clearly state whether the proposed project would result in to any adverse effect on any species. • Samples to collect from upstream and downstream of discharge point, nearby tributaries at downstream, and also from dug wells close to activity site. • For forest studies, direction of wind should be considered while selecting forests. • Secondary data to collect from Government offices, NGOs, published literature.		

Attributes	Sampling		Remarks
	Network	Frequency	
Terrestrial • 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	• Socio-economic survey is based on proportionate, stratified and random sampling method. • Primary data collection through questionnaire • Secondary data from census records, statistical hard books, topo sheets, health records and relevant official records available with Govt. Agencies		

iii. Interpretation of each environment attribute shall be enumeratedand 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			

ii. 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

iv. 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

ix. Impact on terrestrial and aquatic habitat (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)

a. Construction phase
b. Operation phase

x. Impact on socio-economic environment (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)

a. Construction phase
b. Operation phase

xi. 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)

i. 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 phase					
Operation phase					

7. Additional Studies

i. 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 activity and action plan		**Year of implementation (Budget in INR)**			**Total Expenditure (Rs. in Crores)**
	Name of the Activity	**Physical Targets**	**1st**	**2nd**	**3rd**	

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
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)
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)
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-

1. Justification for selecting recovery/non-recovery (beehive) type batteries with the proposed unit size.
2. Details of proposed layout clearly demarcating various facilities such as coal storages, coke making, by-product recovery area,etc within the plant.
3. Details of coke oven plant (recovery/non-recovery type) including coal handling, coke oven battery operations, coke handling and preparation.
4. Scheme for coal changing, charging emission centre, Coke quenching technology, pushing emission control.
5. Scheme for coke oven effluent treatment plant details including scheme for meeting cyanide standard.
6. 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.

F. No. IA- J-11011/494/2007-IA. II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

Indira Paryavaran Bhawan
Jor Bagh Road, Aliganj,
New Delhi – 110003

Dated: 29th August, 2023

To,

M/s MSP Metallics Limited,
Garstin Place, Orbit House, 3rd Floor, Room No 3b,
Kolkata- 700001
Email: mspmetallicsltdworks@gmail.com

Subject: Expansion of existing implemented project [1 x 225 m^3 MBF (1,88,000 TPA), 1 x 40 m2 Sinter Plant (4,60,000 TPA), 8 x 100 TPD DRI Plant (2,40,000 TPA), 2 x 30 T I.F. SMS (1,07,700 TPA), 1 x 0.7 MTPA Coal washery, 2 x 0.12 MTPA Non-recovery type Coke Oven Plant, 1 x 0.6 million TPA Pellet plant, 2 x 4,000 Nm3/hr Producer Gas Plant, 16 MW AFBC, 8 x 1.0 MW (8.0 MW) WHRB Based CPP from existing DRI Plant] to Integrated Steel Plant of capacity 1.7 Million TPA (Finished Steel) with 275 MW Captive Power Plant and 1.25 million TPA Cement Grinding Unit by addition of some facilities and by revamping, augmentation, up gradation/modification of existing technologies & facilities, located at Village – Marakuta & Budhipadar, P.O. - Marakuta, Dist. - Jharsuguda, Odisha by M/s MSP Metallics Limited – Amendment in Terms of Reference – regarding.

Sir,

This has reference to the application of M/s MSP Metallics Limited made vide proposal no. IA/OR/IND/291725/2022 dated 14.07.2023 along with Form 3, (CAF, Form – I Part A & B) and revised PFR and sought for amendment in Standard Terms of Reference accorded by the Ministry vide F. No. IA-J-11011/494/2007-IA-II(I) dated 28.09.2022 w.r.t. subject and implementation status of existing project recorded in the Standard ToR.

2. The proposal cited above was considered in 41st meeting of Expert Appraisal Committee (Industry-1 Sector) held during 2nd & 4th & 8th August, 2023. The proceeding of the said meeting is given as below:

Details submitted by the project proponent

3. M/s. MSP Metallics Limited had initially applied for Terms of Reference vide Proposal No. IA/OR/IND/291725/2022 dated 24.09.2022 for Expansion of Steel Plant 1.05 million TPA With CPP To Integrated Steel Plant 1.7 million TPA Finished Steel With 275 MW Captive Power Plant. Accordingly, Standard ToR was granted by the Ministry vide no. F. No. IA-J-11011/494/2007-IA-II(I) dated: 28.09.2022.

4. The instant proposal is for amendment in Terms of Reference dated 28.09.2022 w.r.t. change in subject and implementation status of existing project recorded in the Standard TOR. The details are given below:

(A) Subject of the ToR

Sl. No	As per ToR F. No. IA-J-11011/494/2007-IA-II(I) dated: 28.09.2022.	Proposed Amendment
1.	**Subject:** Expansion of Steel Plant 1.05 million TPA With CPP To Integrated Steel Plant 1.7 million TPA Finished Steel With 275 MW Captive Power Plant	**Subject:** Expansion of existing implemented project [1 x 225 m^3 MBF (1,88,000 TPA), 1 x 40 m2 Sinter Plant (4,60,000 TPA), 8 x 100 TPD DRI Plant (2,40,000 TPA), 2 x 30 T I.F. SMS (1,07,700 TPA), 1 x 0.7 MTPA Coal washery, 2 x 0.12 MTPA Non-recovery type Coke Oven Plant, 1 x 0.6 million TPA Pellet plant, 2 x 4,000 Nm3/hr Producer Gas Plant, 16 MW AFBC, 8 x 1.0 MW (8.0 MW) WHRB Based CPP from existing DRI Plant] to Integrated Steel Plant of capacity 1.7 Million TPA (Finished Steel) with 275 MW Captive Power Plant and 1.25 million TPA Cement Grinding Unit by addition of some facilities and by revamping, augmentation, up gradation/modification of existing technologies & facilities and increasing annual working days to 330 days.

(B) Implementation status of existing EC, proposed configuration and capacity to be in modified TOR is as follows:

S. No.	Plant Equipment/ Facility	Existing facilities as per EC dated 13.07.2009 & 27.10.2009								Expansion proposal considering 330 annual working days		Final (Existing + Proposed)		Remarks
		Total (A+B)		Implemented (A)		Unimplemented (B)		As per last (21/04/2011, 31.03.2015)/ valid CTO (22.03.2023 & 13.06.2023)						
		Config.	Capacity	Config.	Capacity	Config.	Capacity	Config.	Capacity	Configuration	Capacity	Configuration	Capacity	
1.	Mini Blast Furnace with PCM	1 x 225 m^3 + 1 x 300 m^3 + 2 x 380 m^3	10,60,000 TPA	1 x 225 m^3	1,88,000 TPA	1 x 300 m^3 + 2 x 380 m^3	8,72,000 TPA	1 x 225 m^3	1,88,000 TPA	**Expansion of existing MBF** 1 x 225 m^3 by process optimization and raw material mix and changing core size to 450 m^3.	5,30,000 TPA	2 x 450 m^3	1.06 million TPA	Hot Liquid Metal/ Pig Iron/High Quality Liquid steel
										Addition of 1 x 450 m^3 MBF	5,30,000 TPA			
	Matching New	**	**	**	**	**	**	**	**	**New PCM-**	2800 TPD	2 x 1400TPD		

S. No.	Plant Equipment/ Facility	Existing facilities as per EC dated 13.07.2009 & 27.10.2009								Expansion proposal considering 330 annual working days		Final (Existing + Proposed)		Remarks
		Total (A+B)		Implemented (A)		Unimplemented (B)		As per last (21/04/2011, 31.03.2015)/ valid CTO (22.03.2023 & 13.06.2023)						
		Config.	Capacity	Config.	Capacity	Config.	Capacity	Config.	Capacity	Configuration	Capacity	Configuration	Capacity	
	PCM, & LD									2 x 1400 TPD				
										LD/BOF- 2 x 45 T	90 T	2 x 45 T		
2.	Sinter Plant	1 x 40 m^2	4,60,000 TPA	1 x 40 m^2	4,60,000 TPA	**	**	1 x 40 m^2	4,60,000 TPA	Expansion by process optimization and raw material mix	69,000 TPA	1 x 40 m^2 + 1 x 75 m^2	1.52 million TPA	Sinter
										Addition of new module of Sinter plant of 1 x 75 m^2	(+) 9,91,000 TPA			
3.	DRI plant	8 x 100 TPD + 1 x 300 TPD + 4 x 550 TPD	9,94,000 TPA	8 x 100 TPD	2,40,000 TPA	1 x 300 TPD + 4 x 550 TPD	7,54,000 TPA	8 x 100 TPD	2,40,000 TPA	**Expansion** of existing 8 x 100 TPD kiln by process optimization and raw material mix	1,40,000 TPA	8 x 145 TPD + 4 x 1000 TPD	1.70 million TPA	Sponge Iron
	Matching Preheater with DRI kiln & Coal Dryer (Stand by)	**	**	**	**	**	**	**	**	**Addition of new 4 x 1,000 TPD** DRI	13,20,000 TPA			
4.	Steel Melting Shop	1 X 15 T + 3 X 18 T+ 1 X 20 T + 4 X 30 T	10,50,000 TPA	2 X 30 T	1,07,700 TPA	1 X 15 T + 3 X 18 T+ 1 X 20 T + 2 X 30 T	9,42,300 TPA	2 X 30 T	1,07,700 TPA	**Expansion of existing SMS** (I.F.) by process optimization	(+) 50,300 TPA	(15 x 25 T + 6 x 30 T) I.F.	1.50 million TPA	Billets & Slab
	Matching LRF/AOD, CCM	**	**	**	**	**	**	**	**	**Addition of** 15 x 25 T I.F. + 4 x 30 T I.F. **with**	13,42,000 TPA			

S. No.	Plant Equipment/ Facility	Existing facilities as per EC dated 13.07.2009 & 27.10.2009								Expansion proposal considering 330 annual working days		Final (Existing + Proposed)		Remarks
		Total (A+B)		Implemented (A)		Unimplemented (B)		As per last (21/04/2011, 31.03.2015)/ valid CTO (22.03.2023 & 13.06.2023)						
		Config.	Capacity	Config.	Capacity	Config.	Capacity	Config.	Capacity	Configuration	Capacity	Configuration	Capacity	
	and oxygen optimized furnace									**matching LRF/AOD, CCM and oxygen optimized furnace**				
5.	SMS Slag Crusher	**	**	**	**	**	**	**	**	**New 3 x 20 TPH**	60 TPH	3 x 20 TPH	60 TPH	Metal Recovery
6.	Oxygen Plant	**	**	**	**	**	**	**	**	**New 2 x 200 TPD**	400 TPD	2 x 200 TPD	400 TPD	Oxygen
7.	Lime Dolomite Plant	**	**	**	**	**	**	**	**	**New 1 x 300 TPD**	300 TPD	1 x 300 TPD	300 TPD	Calcined Lime & Dolomite
8.	Ferro Alloy Plant	**	**	**	**	**	**	**	**	**New 6 x 9 MVA**	0.12 million TPA	6 x 9 MVA	0.12 million TPA	Ferro Alloys (FeMn, FeSi, SiMn & FeCr)
9.	Jigging Plant	**	**	**	**	**	**	**	**	**New 4 x 11 TPH**	44 TPH	4 x 11 TPH	44 TPH	Metal Recovery
10.	Chrome Briquette plant	**	**	**	**	**	**	**	**	**New 2 x 40 TPH**	80 TPH	2 x 40 TPH	80 TPH	Chrome Briquette
11.	Coal Washery	1 x 0.7 + 1 x 0.8 MTPA	15,00,000 TPA	1 x 0.7 MTPA	7,00,000 TPA	1 x 0.8 MTPA	8,00,000 TPA	1 x 0.7 MTPA	7,00,000 TPA	**Change in technology & expansion of existing coal washery 1 x 0.7 MTPA to 1 x 0.8 MTPA by process optimization and addition of new 1 x 0.8 MTPA**	(+) 0.9 million TPA	2 x 0.8 MTPA	1.60 million TPA	Washed Coal
12.	Non-recovery type Coke Oven Plant	5 x 0.12 MTPA	6,00,000 TPA	2 x 0.12 MTPA	2,40,000 TPA	3 x 0.12 MTPA	3,60,000 TPA	2 x 0.12 MTPA	2,40,000 TPA	**Expansion of existing 2 x 0.12 MTPA to 2 x 0.13**	(+) 0.41 million TPA	5 x 0.13 MTPA	0.65 million TPA	Metallurgical Coke

S. No.	Plant Equipment/ Facility	Existing facilities as per EC dated 13.07.2009 & 27.10.2009								Expansion proposal considering 330 annual working days		Final (Existing + Proposed)		Remarks
		Total (A+B)		Implemented (A)		Unimplemented (B)		As per last (21/04/2011, 31.03.2015)/ valid CTO (22.03.2023 & 13.06.2023)						
		Config.	Capacity	Config.	Capacity	Config.	Capacity	Config.	Capacity	Configuration	Capacity	Configuration	Capacity	
										by process optimization and addition of 3 x 0.13 MTPA				
13.	Rolling Mill with Pickling Line & Continuous Galvanizing/ Galvalume, CCL Line	**	**	**	**	**	**	**	**	**New 0.70 million TPA**		0.70 million TPA		HR Product (Flat, Coil); Seamless Pipes Galvanized/ Galvalume / Colour Coated Product
14.	Bar, Wire Rod Mill and Wire Drawing	**	**	**	**	**	**	**	**	**New 0.50 million TPA**		0.50 million TPA		TMT Bar, Wire & Wire Rod
15.	Ductile Iron Plant	**	**	**	**	**	**	**	**	**New 0.50 million TPA**		0.50 million TPA		DI Pipes, Fitting & Accessories
16.	Pellet plant	1 x 0.6 million TPA	6,00,000 TPA	1 x 0.6 million TPA	6,00,000 TPA	**	**	1 x 0.6 million TPA	6,00,000 TPA	**Enhancement** of existing pellet plant capacity by process optimization.	(+) 4,00,000 TPA	1 x 1.0 million TPA + 2 x 1.25 million TPA	3.5 million TPA	Iron Ore Pellet
										Addition of new module (2 x 1.25 million TPA)	2.5 million TPA			
17.	I/O Beneficiation	**	**	**	**	**	**	**	**	1 x 1.5 + 1 x 3.0 million TPA	4.5 million TPA	1.5 million TPA + 1 x 3.0 million	4.5 million TPA	Concentrated Iron Ore

S. No.	Plant Equipment/ Facility	Existing facilities as per EC dated 13.07.2009 & 27.10.2009								Expansion proposal considering 330 annual working days		Final (Existing + Proposed)		Remarks
		Total (A+B)		Implemented (A)		Unimplemented (B)		As per last (21/04/2011, 31.03.2015)/ valid CTO (22.03.2023 & 13.06.2023)						
		Config.	Capacity	Config.	Capacity	Config.	Capacity	Config.	Capacity	Configuration	Capacity	Configuration	Capacity	
												TPA		
18.	Producer Gas Plant	**	**	**	**	**	**	2 x 4,000 Nm^3/hr	8,000 Nm^3/hr	Enhancement of gas generation existing PGP 2 x 4,000 Nm^3/hr to 2 x 6,000 Nm^3/hr and addition of 18 x 6,000 Nm^3/hr	(+) 1,12,000 Nm^3/hr	20 x 6,000 Nm^3/hr	1,20,000 Nm^3/hr	Producer Gas
19.	Cement Grinding unit	**	**	**	**	**	**	**	**	3 x 600 TPD (Ball Mill) + 1 x 2000 TPD (VRM)	1.25 million TPA	3 x 600 TPD (Ball Mill) + 1 x 2000 TPD (VRM)	1.25 million TPA	OPC, PPC, PSC & Composite
20.	Captive Power Plant	1 x 25 MW- **F.B.C**	25 MW	1 x 16 MW-A.F.B.C	16 MW	**	**	1 x 16 MW-A.F.B.C	16 MW	**Expansion in** existing AFBC by improvement in heat efficiency of boiler	(+) 4 MW	**110 MW FBC (Coal & Dolochar Mix) Based**- 1 x 20 MW A.F.B.C + 2 x 45 MW C.F.B.C	275 MW	Power
										Addition of new CFBC (Coal Dolochar mix based) 2 x 45 MW	90 MW			
		8 x 2.5 MW + 4 x 10 MW- **WHRB**	60 MW	8 x 1.0 MW	8 MW	8 x 1.5 MW + 4 x 10 MW- **WHRB**	52 MW	8 x 1.0 MW	8 MW	**Expansion in WHRB Based CPP from** existing DRI Plant by improvement in heat efficiency of boiler	(+) 8 MW	**165 MW WHRB** Based (120 MW from DRI Plant + 45 MW Coke oven)		

S. No.	Plant Equipment/ Facility	Existing facilities as per EC dated 13.07.2009 & 27.10.2009								Expansion proposal considering 330 annual working days		Final (Existing + Proposed)		Remarks
		Total (A+B)		Implemented (A)		Unimplemented (B)		As per last (21/04/2011, 31.03.2015)/ valid CTO (22.03.2023 & 13.06.2023)						
		Config.	Capacity	Config.	Capacity	Config.	Capacity	Config.	Capacity	Configuration	Capacity	Configuration	Capacity	
										Additional WHRB Based CPP from 4 x 1000 TPD DRI	104 MW			
										WHRB Based CPP from Coke Oven plant	45 MW			
21.	Railway Siding	**	**	**	**	**	**	**	**	New	01 No.	01 No.		Material Handling

5. Project Proponent reported that there is no change in configuration and capacity of the proposed project.

6. It has been reported by PP that, there is no violation under EIA Notification, 2006/court case/show cause/direction related to the project under consideration.

Deliberation by the Committee

7. The Committee noted the following:

i. M/s. MSP Metallics Limited had initially applied for Terms of Reference vide Proposal No. IA/OR/IND/291725/2022 dated 24.09.2022 for Expansion of Steel Plant 1.05 million TPA With CPP To Integrated Steel Plant 1.7 million TPA Finished Steel With 275 MW Captive Power Plant. Accordingly, Standard ToR was granted by the Ministry vide no. F. No. IA-J-11011/494/2007-IA-II(I) dated 28.09.2022.

ii. The instant proposal is for amendment in Terms of Reference dated 28.09.2022 w.r.t. change in subject and implementation status of existing project recorded in the Standard TOR as detailed in para 4 above.

iii. The PP reported that the expansion proposal was submitted considering expansion from EC accorded facilities but only few facilities i.e. "1 x 225 m3 MBF (1,88,000 TPA), 1 x 40 m2 Sinter Plant (4,60,000 TPA), 8 x 100 TPD DRI Plant (2,40,000 TPA), 2 x 30 T I.F. SMS (1,07,700 TPA), 1 x 0.7 MTPA Coal washery, 2 x 0.12 MTPA Non-recovery type Coke Oven Plant, 1 x 0.6 million Pellet plant capacity TPA, 16 MW AFBC, 8 x 1.0 MW (8.0 MW) WHRB Based CPP from DRI Plant from EC accorded configuration have been implemented and rest of the facilities are yet to be implemented and the environmental clearance validity accorded to M/s MSP Metallics Limited have been expired. Looking after the facts of implementation of the project and to have more clarity w.r.t to project

implementation and proposed expansion, company has decided to apply for amendment in TOR already accorded by ministry. Accordingly, the subject and content of the PFR has been revised keeping the ultimate production capacity as per previous accorded valid TOR.

iv. The EAC also deliberated on the submitted written representation of project proponent and found it satisfactory.

Recommendations of the Committee

8. After deliberations, the Committee recommended the proposal subject to uploading the written submission on portal for amendment in ToR granted vide no. F. No. IA-J-11011/494/2007-IA-II(I) dated 28.09.2022 w.r.t. subject and implementation status of existing project recorded in the Standard ToR as detailed in para.4 above. The other terms and conditions of ToR dated 28.09.2023 shall remain the same.

Decision of MoEF&CC

9. The Ministry of Environment, Forest and Climate Change (MoEF&CC) has considered the aforesaid proposal based on the recommendations of the Expert Appraisal Committee (Industry 1) and hereby decided to grant amendment in the ToR dated 28.09.2022 as mention in tables given at the paragraph 4 above.

10. All terms and conditions mentioned in the earlier TOR letter no. letter no IA-J-11011/494/2007-IA-II(I) dated 28.09.2022 shall remain unchanged.

11. The PP shall obtain fresh Terms of Reference in case of change in scope of the project if any.

12. This issues with the approval of the Competent Authority.

(Dr. R. B. Lal)
Scientist 'F'/ Director
Tel: 011-20819346
Email-rb.lal@nic.in

Copy to: -

1. The Principal Secretary, Department of Forest and Environment, Government of Odisha, Bhubaneswar, Odisha
2. Director General of Forest, Ministry of Environment, Forest and Climate Change, New Delhi
3. Principal Chief Conservator of Forests & HoFF, Aranya Bhawan, Chandrasekharpur, Bhubaneswar - 751 023, Odisha

4. The Regional Officer, Ministry of Environment, Forest And Climate Change, Integrated Regional Office, A/3, Chandersekharpur, Bhubaneswar – 751023 ODISHA
5. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi – 32
6. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
7. The Member Secretary, Odisha State Pollution Control Board, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit - VIII, Bhubaneswar -12 Odisha.
8. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.
9. District Collector, District Jharsuguda, Odisha.
10. Guard File/Monitoring File/ Parivesh Portal /Record File.

(Dr. R. B. Lal)
Scientist 'F'/ Director
Tel: 011-20819346
Email-rb.lal@nic.in

सत्यमेव जयते

File No.: IA-J-11011/494/2007-IA.II(I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division
****

Dated **02/11/2023**

To,

M/s. ORISSA METALIKS PRIVATE LIMITED
GRASTIN PLACE, ORBIT 3RD FLOOR ROOM NO . 3B, KOLKATA, Kolkata, KOLKATA, WEST BENGAL, NEAR BANSAL COURT, 700001
Email: orissametalikspvtltd@gmail.com

Subject: **Expansion of existing implemented project [1 x 225 m3 MBF (1,88,000 TPA), 1 x 40 m2 Sinter Plant (4,60,000 TPA), 8 x 100 TPD DRI Plant (2,40,000 TPA), 2 x 30 T I.F. SMS (1,07,700 TPA), 1 x 0.7 MTPA Coal washery, 2 x 0.12 MTPA Nonrecovery type Coke Oven Plant, 1 x 0.6 million TPA Pellet plant, 2 x 4,000 Nm3/hr Producer Gas Plant, 16 MW AFBC, 8 x 1.0 MW (8.0 MW) WHRB Based CPP from existing DRI Plant] to Integrated Steel Plant of capacity 1.7 Million TPA (Finished Steel) with 275 MW Captive Power Plant and 1.25 million TPA Cement Grinding Unit by addition of some facilities and by revamping, augmentation, up gradation/modification of existing technologies & facilities, located at Village – Marakuta & Budhipadar, P.O. - Marakuta, Dist. - Jharsuguda, Odisha- Transfer of TOR from M/s. MSP Metallics Limited to M/s. Orissa Metaliks Private Limited – regarding.**

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/OR/IND1/445038/2023 dated 26/09/2023 transfer the Terms of Reference accorded by MoEF&CC vide letter no. J-11011/494/2007-IA.II (I) dated 28/09/2022 and amendment in ToR dated 29/08/2023 from M/s. MSP Metallics Limited to M/s. Orissa Metaliks Private Limited under the provision of the EIA Notification 2006-and as amended thereof.

2. The particulars of the proposal are as below :

(i) ToR Identification No.	TO23A1001OR5989156T
(ii) File No.	IA-J-11011/494/2007-IA.II(I)
(iii) Clearance Type	Transfer of ToR
(iv) Category	A

(v) Schedule No./ Project Activity	3(a) Metallurgical Industries (ferrous and non ferrous),2(a) Coal washeries,4(b) Coke oven plants,1(d) Thermal Power Plants,1(d) Thermal Power Plants,2(b) Mineral beneficiation,3(b) Cement plants
(vi) Sector	Industrial Projects - 1
(vii) Name of Project	Expansion of existing implemented project [1x225 m3 MBF (1,88,000 TPA), 1x40 m2 Sinter Plant (4,60,000 TPA), 8x100 TPD DRI Plant (2,40,000 TPA), 2x30 T I.F. SMS (1,07,700 TPA), 1x0.7 MTPA Coal washery, 2x0.12 MTPA Nonrecovery type Coke Oven Plant, 1x0.6 MTPA Pellet plant, 2x4,000 Nm3/hr PGP, 16 MW AFBC, 8x1.0 MW (8.0 MW) WHRB Based CPP from existing DRI Plant] to Integrated Steel Plant of capacity 1.7 Million TPA (Finished Steel) with 275 MW CPP and 1.25 million TPA Cement Grinding Unit
(viii) Location of Project (District, State)	JHARSUGUDA, ODISHA
(ix) Issuing Authority	MoEF&CC
(xi) Details of Transferee	ORISSA METALIKS PRIVATE LIMITED ,GRASTIN PLACE, ORBIT 3RD FLOOR ROOM NO . 3B, KOLKATA,KOLKATA, Kolkata,WEST BENGAL, NEAR BANSAL COURT,700001
(xii) Details of Transferor	M/s MSP Metallics Limited,1, GARSTIN PLACE, ORBIT HOUSE, 3RD FLOOR, ROOM NO. 3BKOLKATA, WEST BENGAL, INDIA,KOLKATA, Kolkata,WEST BENGAL, 700001

3. The Ministry of Environment, Forest and Climate Change (MoEF&CC) has examined the request submitted by you and the following points are noted;

(i). The project proponent was granted obtained ToR for Expansion of Steel Plant 1.05 million TPA With CPP To Integrated Steel Plant 1.7 million TPA Finished Steel With 275 MW Captive Power Plant vide No. IA-J-11011/494/2007-IA-II(I) dated: 28th September 2022.

(ii). The project proponent applied for amendment in TOR already accorded by ministry. Accordingly, the subject and content of the PFR has been revised keeping the ultimate production capacity as per previous accorded valid TOR. MOEFCC vide F. No. IA-J-11011/494/2007-IA-II(I) dated 29 th August, 2023 issued an amendment in Standard Terms of Reference dated 28.09.2022 as “Expansion of existing implemented project [1 x 225 m3 MBF (1,88,000 TPA), 1 x 40 m2 Sinter Plant (4,60,000 TPA), 8 x 100 TPD DRI Plant (2,40,000 TPA), 2 x 30 T I.F. SMS (1,07,700 TPA), 1 x 0.7 MTPA Coal washery, 2 x 0.12 MTPA Nonrecovery type Coke Oven Plant, 1 x 0.6 million TPA Pellet plant, 2 x 4,000 Nm3/hr Producer Gas Plant, 16 MW AFBC, 8 x 1.0 MW (8.0 MW) WHRB Based CPP from existing DRI Plant] to Integrated Steel Plant of capacity 1.7 Million TPA (Finished Steel) with 275 MW Captive Power Plant and 1.25 million TPA Cement Grinding Unit by addition of some facilities and by revamping, augmentation, upgradation/modification of existing technologies & facilities increasing annual working days to 330 days” located at Village – Marakuta & Budhipadar, P.O. - Marakuta, Dist. - Jharsuguda, Odisha by M/s MSP Metallics Limited.

(iii). Reasons for transfer of ToR:M/s MSP Metallics Limited has gone in 'Liquidation' & M/s Orissa Metaliks Private Limited (OMPL) has purchased/acquired the assets of MSP Metallics Limited on "assets sale basis" under liquidation under the order (I.A No. 616/KB/2022, dated 11.07.2022) 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. Now, M/s Orissa Metaliks Private Limited (OMPL) is operating the plant under the name of M/s MSP Metallics Limited after obtaining Consent to Operate from State Pollution Control Board, Odisha.Post-acquisition, new management of the company started revamping work of the units and applied for renewal of consent to operate to OSPCB with requisite fees & OSPCB issued renewal of consent to operate in phased manner dated 17.08.2022, 07.01.2023 and renewed on 22.03.2023 (valid up to 31.03.2024) for operation of 8 x 100 TPD DRI, 24 MW (8 MW WHRB + 16 MW AFBC) Captive Power Plant, 2 x 30 T I.F. (SMS), 4,60,000 TPA Sinter Plant, 6,00,000 TPA Pellet Plant, and 2 X 4,000 Nm3/Hr Producer gas plant and dated 13.06.2023 for 1,88,000 TPA Blast furnace. Revamping work of, 7,00,000 TPA Coal Washery and 2, 40,000 TPA Coke oven Battery is in progress and application made to SPCB, Odisha for consent to operate is in progress.

(iv). Documents submitted for Transfer of ToR:

- Form no 8 for Transfer of Terms of Reference.
- NCLT Kolkata order dated 18/08/2023.
- Undertaking dated 29/08/2023 of M/s. Orissa Metaliks Private Limited stating that they accept the Terms and Conditions of TOR issued to M/s. MSP Metallics Limited., by MoEF&CC vide letter no. IA-J-11011/494/2007-IA-II(I) dated: 28th September 2022 and amendment in ToR dated 29th August, 2023.
- NOC in non-judicial stamp certificate from M/s. MSP Metallics Limited.

4. The Ministry has transferred the existing environmental clearance from M/s. MSP Metallics Limited to M/s. Orissa Metaliks Private Limited vide letter dated 23/10/2023.

5. This Ministry hereby accepts your request for transfer of ToR accorded vide letter no. J-11011/494/2007-IA.II (I) dated 28/09/2022 and amendment in ToR dated 29/08/2023 from **M/s. MSP Metallics Limited to M/s. Orissa Metaliks Private Limited** subject to satisfactory compliance to all the stipulated specific and general ToRs.

6. It is requested that the EIA/EMP Report may be prepared in accordance with ToR accorded vide letter no. J-11011/494/2007-IA.II (I) dated 28/09/2022 and amendment in ToR dated 29/08/2023

7. The ToRs are valid for a period of four years from date of issue of the ToR letter dated 28/09/2022 as per the Ministry's Notification S.O. 751 (E) dated 17/02/2020.

8. This issues with the approval of the Competent Authority.

Yours faithfully,

(Dr. R. B. Lal)
Scientist 'E'/Additional Director

Tel: 011-20819346
Email-rb.lal@nic.in

Copy To

1. The Principal Secretary, Department of Forest and Environment, Government of Odisha, Bhubaneswar, Odisha
2. Director General of Forest, Ministry of Environment, Forest and Climate Change, New Delhi
3. Principal Chief Conservator of Forests & HoFF, Aranya Bhawan, Chandrasekharpur, Bhubaneswar - 751 023, Odisha
4. The Regional Officer, Ministry of Environment, Forest And Climate Change, Integrated Regional Office, A/3, Chandersekharpur, Bhubaneswar – 751023 ODISHA
5. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi – 32
6. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
7. The Member Secretary, Odisha State Pollution Control Board, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit - VIII, Bhubaneswar -12 Odisha.
8. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.
9. District Collector, Jharsuguda, Odisha.
10. Guard File/Monitoring File/ Parivesh Portal /Record File.

Additional Terms of Reference

1. This TOR Transfer is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

2. This TOR Transfer granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.

Ambient Air Quality Monitoring Report
Frequency of Monitoring: Monthly Once
(April 2023 to September 2023)

S. No	Monitoring Stations	Month	Date of Monitoring	Analysis Result in µg/m³			
				PM_{10}	$PM_{2.5}$	SO_2	NO_x
1	Near Main Gate	April 2023	03/04/2023	76.49	33.77	8.30	13.50
		May 2023	08/05/2023	76.15	33.24	8.17	13.58
		June 2023	12/06/2023	73.74	32.51	8.65	13.09
		July 2023	04/07/2023	75.90	35.59	9.52	13.73
		August 2023	28/08/2023	73.19	34.98	8.07	13.18
		September 2023	01/09/2023	74.24	36.64	8.12	13.26
2	Near Pellet Plant	April 2023	03/04/2023	75.91	34.00	8.70	13.09
		May 2023	08/05/2023	74.27	35.53	9.25	14.67
		June 2023	12/06/2023	76.18	34.37	9.90	12.05
		July 2023	04/07/2023	73.32	35.04	8.31	12.22
		August 2023	28/08/2023	73.55	34.16	8.77	12.91
		September 2023	01/09/2023	71.08	30.39	7.86	10.44
3	Near Steel Melting Shop	April 2023	03/04/2023	75.98	35.31	8.93	12.46
		May 2023	08/05/2023	74.20	33.40	8.68	12.24
		June 2023	12/06/2023	74.31	31.61	8.77	13.94
		July 2023	04/07/2023	70.60	34.55	8.11	13.16
		August 2023	28/08/2023	74.89	30.50	7.59	13.13
		September 2023	01/09/2023	73.62	32.68	9.78	12.11
4	Near Coke Plant	April 2023	03/04/2023	74.36	30.90	7.33	13.90
		May 2023	08/05/2023	74.22	34.91	7.94	14.72
		June 2023	12/06/2023	76.93	32.37	7.52	12.66
		July 2023	04/07/2023	71.20	31.07	8.20	12.84
		August 2023	28/08/2023	73.55	33.06	8.09	13.70
		September 2023	01/09/2023	73.34	32.60	8.46	13.65
Permissible Limits as per NAAQS, 2009				**100.0**	**60.0**	**80.0**	**80.0**

CIN - U73100OR1995PTC003889

GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory, OSPCB 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-TC744023000000177F

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Date: 20 Apr 2023

Test Report No: ERSIPL/TR/AA/069

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	:	03-04.04.2023
Sample Received on	:	10.04.2023
Analysis Started on	:	10.04.2023
Analysis Completed on	:	20.04.2023
Method of Sampling	:	ERSIPL/MSP/06
Quantity of Sample	:	01 sample for each parameter
Environment Condition	:	Sunny

Sample ID. No.	**Locations**
1. ERSIPL/AA/251	1. Near Main Gate
2. ERSIPL/AA/252	2. Near Pellet Plant
3. ERSIPL/AA/253	3. Near Steel Melting Shop
4. ERSIPL/AA/254	4. Near Coke Oven Plant

TEST FINDINGS:

Sl. No	Test Parameters	Test method	Unit	Permissible Limit as per NAAQ Standards CPCB Nov-2009	Results			
					ERSIPL/ AA/ 251	ERSIPL/ AA/ 252	ERSIPL/ AA/ 253	ERSIPL/ AA/ 254
1	Particulate Matter (size less than 10 µm) or PM 10	IS 5182 (Part 23): 2006, Reaffirmed-2017,Gravimetric Method	$\mu g/m^3$	100.0	76.49	75.91	75.98	74.36
2	Particulate Matter (size less than 2.5 µm) or PM 2.5	IS 5182 (Part 24): 2019, Gravimetric Method	$\mu g/m^3$	60.0	33.77	34.00	35.31	30.90
3	Sulphur Dioxide (SO_2)	IS 5182 (Part 2): 2001, Reaffirmed-2017, Improved West & Gaeke Method	$\mu g/m^3$	80.0	8.30	8.70	8.93	7.33
4	Oxides of Nitrogen (NO_x)	IS 5182 (Part 6): 2006, Reaffirmed - 2017	$\mu g/m^3$	80.0	13.50	13.09	12.46	13.90

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

END OF TEST REPORT

CIN - U73100OR1995PTC003889

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

Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Date: 20 Apr 2023

Test Report No: ERSIPL/TR/AA/T-069

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 : 03-04.04.2023

Sample Received on : 10.04.2023

Analysis Started on : 10.04.2023

Analysis Completed on : 20.04.2023

Method of Sampling : ERSIPL/MSP/06

Quantity of Sample : 01 sample for each parameter

Environment Condition : Sunny

Sample ID. No.

1. ERSIPL/AA/251
2. ERSIPL/AA/252
3. ERSIPL/AA/253
4. ERSIPL/AA/254

Locations

1. Near Main Gate
2. Near Pellet Plant
3. Near Steel Melting Shop
4. Near Coke Oven Plant

TEST FINDINGS:

Sl. No	Test Parameters	Test method	Unit	Permissible Limit as per NAAQ Standards CPCB Nov 2009	Results			
					ERSIPL/ AA/ 251	ERSIPL/ AA/ 252	ERSIPL/ AA/ 253	ERSIPL/ AA/ 254
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.....

CIN - U73100OR1995PTC003889

GSTIN : 21AAACE6224D1ZF

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory, OSPCB 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-TC744023000000228F

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Date: 30 May 2023

Test Report No: ERSIPL/TR/AA/089

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	:	08-09.05.2023
Sample Received on	:	22.05.2023
Analysis Started on	:	22.05.2023
Analysis Completed on	:	30.05.2023
Method of Sampling	:	ERSIPL/MSP/06
Quantity of Sample	:	01 sample for each parameter
Environment Condition	:	Sunny

Sample ID. No.	**Locations**
1. ERSIPL/AA/364	1. Near Main Gate
2. ERSIPL/AA/365	2. Near Pellet Plant
3. ERSIPL/AA/366	3. Near Steel Melting Shop
4. ERSIPL/AA/367	4. Near Coke Oven Plant

TEST FINDINGS:

Sl. No	Test Parameters	Test method	Unit	Permissible Limit as per NAAQ Standards CPCB Nov-2009	Results			
					ERSIPL/ AA/ 364	ERSIPL/ AA/ 365	ERSIPL/ AA/ 366	ERSIPL/ AA/ 367
1	Particulate Matter (size less than 10 µm) or PM 10	IS 5182 (Part 23): 2006, Reaffirmed-2017, Gravimetric Method	$\mu g/m^3$	**100.0**	76.15	74.27	74.20	74.22
2	Particulate Matter (size less than 2.5 µm) or PM 2.5	IS 5182 (Part 24): 2019, Gravimetric Method	$\mu g/m^3$	**60.0**	33.24	35.53	33.40	34.91
3	Sulphur Dioxide (SO_2)	IS 5182 (Part 2): 2001, Reaffirmed-2017, Improved West & Gaeke Method	$\mu g/m^3$	**80.0**	8.17	9.25	8.68	7.94
4	Oxides of Nitrogen (NO_X)	IS 5182 (Part 6): 2006, Reaffirmed - 2017	$\mu g/m^3$	**80.0**	13.58	14.67	12.24	14.72

(Authorized Signatory)

S.P.Pattanayak
Tech. Manager

CIN - U73100OR1995PTC003889

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
Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Date: 30 May 2023 **Test Report No: ERSIPL/TR/AA/T-089**

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	:	08-09.05.2023
Sample Received on	:	22.05.2023
Analysis Started on	:	22.05.2023
Analysis Completed on	:	30.05.2023
Method of Sampling	:	ERSIPL/MSP/06
Quantity of Sample	:	01 sample for each parameter
Environment Condition	:	Sunny

Sample ID. No.	Locations
1. ERSIPL/AA/364	1. Near Main Gate
2. ERSIPL/AA/365	2. Near Pellet Plant
3. ERSIPL/AA/366	3. Near Steel Melting Shop
4. ERSIPL/AA/367	4. Near Coke Oven Plant

TEST FINDINGS:

Sl. No	Test Parameters	Test method	Unit	Permissible Limit as per NAAQ Standards CPCB Nov-2009	Results			
					ERSIPL/ AA/ 364	ERSIPL/ AA/ 365	ERSIPL/ AA/ 366	ERSIPL/ AA/ 367
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.....

CIN - U73100OR1995PTC003889

GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory, OSPCB 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-TC744023000000291F

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Date: 27 June 2023

Test Report No: ERSIPL/TR/AA/115

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	:	12-13.06.2023
Sample Received on	:	17.06.2023
Analysis Started on	:	17.06.2023
Analysis Completed on	:	27.06.2023
Method of Sampling	:	ERSIPL/MSP/06
Quantity of Sample	:	01 sample for each parameter
Environment Condition	:	Sunny

Sample ID. No.	Locations
1. ERSIPL/AA/463	1. Near Main Gate
2. ERSIPL/AA/464	2. Near Pellet Plant
3. ERSIPL/AA/465	3. Near Steel Melting Shop
4. ERSIPL/AA/466	4. Near Coke Oven Plant

TEST FINDINGS:

Sl. No	Test Parameters	Test method	Unit	Permissible Limit as per NAAQ Standards CPCB Nov-2009	Results			
					ERSIPL/AA/463	ERSIPL/AA/464	ERSIPL/AA/465	ERSIPL/AA/466
1	Particulate Matter (size less than 10 µm) or PM 10	IS - 5182 (Part 23): 2006, Reaffirmed-2022, Gravimetric Method	$\mu g/m^3$	100.0	73.74	76.18	74.31	76.93
2	Particulate Matter (size less than 2.5 µm) or PM 2.5	IS 5182 (Part 24): 2019, Gravimetric Method	$\mu g/m^3$	60.0	32.51	34.37	31.61	32.37
3	Sulphur Dioxide (SO_2)	IS 5182 (Part 2): 2001, Reaffirmed-2022, Improved West & Gaeke Method	$\mu g/m^3$	80.0	8.65	9.90	8.77	7.52
4	Oxides of Nitrogen (NO_x)	IS 5182 (Part 6): 2006, Reaffirmed - 2022	$\mu g/m^3$	80.0	13.09	12.05	13.94	12.66

(Authorized Signatory)

S.P.Pattanayak

Tech.Manager

CIN - U731000R1995PTC003899

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
Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Date: 27 June 2023 **Test Report No: ERSIPL/TR/AA/T-115**

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	:	12-13.06.2023
Sample Received on	:	17.06.2023
Analysis Started on	:	17.06.2023
Analysis Completed on	:	27.06.2023
Method of Sampling	:	ERSIPL/MSP/06
Quantity of Sample	:	01 sample for each parameter
Environment Condition	:	Sunny

Sample ID. No.	Locations
1. ERSIPL/AA/463	1. Near Main Gate
2. ERSIPL/AA/464	2. Near Pellet Plant
3. ERSIPL/AA/465	3. Near Steel Melting Shop
4. ERSIPL/AA/466	4. Near Coke Oven Plant

TEST FINDINGS:

Sl. No	Test Parameters	Test method	Unit	Permissible Limit as per NAAQ Standards CPCB Nov-2009	Results			
					ERSIPL/ AA/ 463	ERSIPL/ AA/ 464	ERSIPL/ AA/ 465	ERSIPL/ AA/ 466
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.....

CIN - U731000R1995PTC003889

GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory, OSPCB 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-TC744023000000352F

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Date: 24 July 2023 | **Test Report No: ERSIPL/TR/AA/140**

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	:	04-05.07.2023
Sample Received on	:	15.07.2023
Analysis Started on	:	15.07.2023
Analysis Completed on	:	24.07.2023
Method of Sampling	:	ERSIPL/MSP/06
Quantity of Sample	:	01 sample for each parameter
Environment Condition	:	Sunny

Sample ID. No.	Locations
1. ERSIPL/AA/526	1. Near Main Gate
2. ERSIPL/AA/527	2. Near Pellet Plant
3. ERSIPL/AA/528	3. Near Steel Melting Shop
4. ERSIPL/AA/529	4. Near Coke Oven Plant

TEST FINDINGS:

Sl. No	Test Parameters	Test method	Unit	Permissible limit as per NAAQ Standards CPCB Nov-2009	Results			
					ERSIPL/ AA/ 526	ERSIPL/ AA/ 527	ERSIPL/ AA/ 528	ERSIPL/ AA/ 529
1	Particulate Matter (size less than 10 µm) or PM 10	IS 5182 (Part 23): 2006, Reaffirmed-2022, Gravimetric Method	$\mu g/m^3$	100.0	75.90	73.32	70.60	71.20
2	Particulate Matter (size less than 2.5 µm) or PM 2.5	IS 5182 (Part 24): 2019, Gravimetric Method	$\mu g/m^3$	60.0	35.59	35.04	34.55	31.07
3	Sulphur Dioxide (SO_2)	IS 5182 (Part 2): 2001, Reaffirmed-2022, Improved West & Gaeke Method	$\mu g/m^3$	80.0	9.52	8.31	8.11	8.20
4	Oxides of Nitrogen (NO_x)	IS 5182 (Part 6): 2006, Reaffirmed - 2022	$\mu g/m^3$	80.0	13.73	12.22	13.16	12.84

(Authorized Signatory)

Tech. Manager

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

CIN - U73100OR1995PTC003889

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
Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Date: 24 July 2023 **Test Report No: ERSIPL/TR/AA/T-140**

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 : 04-05.07.2023

Sample Received on : 15.07.2023

Analysis Started on : 15.07.2023

Analysis Completed on : 24.07.2023

Method of Sampling : ERSIPL/MSP/06

Quantity of Sample : 01 sample for each parameter

Environment Condition : Sunny

Sample ID. No.	Locations
1. ERSIPL/AA/526	1. Near Main Gate
2. ERSIPL/AA/527	2. Near Pellet Plant
3. ERSIPL/AA/528	3. Near Steel Melting Shop
4. ERSIPL/AA/529	4. Near Coke Oven Plant

TEST FINDINGS:

Sl. No	Test Parameters	Test method	Unit	Permissible Limit as per NAAQ Standards CPCB Nov-2009	Results			
					ERSIPL/ AA/ 526	ERSIPL/ AA/ 527	ERSIPL/ AA/ 528	ERSIPL/ AA/ 529
1	Carbon Monoxide (CO)	By CO Monitor	mg/m^3	2.0	<1.14	<1.14	<1.14	<1.14

(Authorized Signatory)

Tech.Manager

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

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory)

TC-7440

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-TC744023000000468F

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Date: 06 SEPT 2023

Test Report No: ERSIPL/TR/AA/189

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	:	28-29.08.2023
Sample Received on	:	01.09.2023
Analysis Started on	:	01.09.2023
Analysis Completed on	:	05.09.2023
Method of Sampling	:	As per Applicable Test Method
Quantity of Sample	:	01 sample for each parameter
Weather Condition	:	Sunny
Atmospheric Temperature (Min/Max)	:	27.0 – 33.0 °C
Atmospheric Pressure (Min/Max)	:	1001-1003 mbar

Sample ID. No.	Locations
1. ERSIPL/AA/675	1. Near Main Gate
2. ERSIPL/AA/676	2. Near Pellet Plant
3. ERSIPL/AA/677	3. Near Steel Melting Shop
4. ERSIPL/AA/678	4. Near Coke Oven Plant

TEST FINDINGS:

Sl. No	Test Parameters	Test method	Unit	Permissible Limit as per NAAQ Standards CPCB Nov 2009	Results			
					ERSIPL/ AA/ 675	ERSIPL/ AA/ 676	ERSIPL/ AA/ 677	ERSIPL/ AA/ 678
1	Particulate Matter (size less than 10 µm) or PM 10	IS 5182 (Part 23): 2006, Reaffirmed-2022, Gravimetric Method	$\mu g/m^3$	100.0	73.19	73.55	74.89	73.55
2	Particulate Matter (size less than 2.5 µm) or PM 2.5	IS 5182 (Part 24): 2019, Gravimetric Method	$\mu g/m^3$	60.0	34.98	34.16	30.50	33.06
3	Sulphur Dioxide (SO_2)	IS 5182 (Part 2): 2001, Reaffirmed-2022, Improved West & Gaeke Method	$\mu g/m^3$	80.0	8.07	8.77	7.59	8.09
4	Oxides of Nitrogen (NO_x)	IS 5182 (Part 6): 2006, Reaffirmed - 2022	$\mu g/m^3$	80.0	13.18	12.91	13.13	13.70

Note:
1. The test results relate only to the items sampled and tested.
2. Total Liability of ERS (I) Pvt. Ltd. is limited to the Invoice Amount.
3. This certificate shall not be reproduced fully or in part without prior written consent of ERS (I) Pvt. Ltd.
4. Samples (Filter Papers & Thimbles) received shall be destroyed after 01 year & Gaseous/liquid samples received shall be destroyed after 07 days from the date of issue of the test report, unless otherwise [illegible]
5. This report shall not avail in any advertising media or as evidence in the court of [illegible] without prior consent of ERS (I) Pvt. Ltd.

(Authorized Signatory)

CIN - U73100OR1995PTC003889

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
Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Date: 06 SEPT 2023 **Test Report No: ERSIPL/TR/AA/T-189**

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	:	28-29.08.2023
Sample Received on	:	01.09.2023
Analysis Started on	:	01.09.2023
Analysis Completed on	:	05.09.2023
Method of Sampling	:	As per Applicable Test Method
Quantity of Sample	:	01 sample for each parameter
Weather Condition	:	Sunny
Atmospheric Temperature (Min/Max)	:	27.0 – 33.0 ^{0}C
Atmospheric Pressure (Min/Max)	:	1001-1003 mbar

Sample ID. No.	Locations
1. ERSIPL/AA/675	1. Near Main Gate
2. ERSIPL/AA/676	2. Near Pellet Plant
3. ERSIPL/AA/677	3. Near Steel Melting Shop
4. ERSIPL/AA/678	4. Near Coke Oven Plant

TEST FINDINGS:

Sl. No	Test Parameters	Test method	Unit	Permissible Limit as per NAAQ Standards CPCB Nov-2009	Results			
					ERSIPL/ AA/ 675	ERSIPL/ AA/ 676	ERSIPL/ AA/ 677	ERSIPL/ AA/ 678
1	Carbon Monoxide (CO)	By CO Monitor	mg/m^3	2.0	<1.14	<1.14	<1.14	<1.14

ERSI PVT. LTD. BBSR

(Authorized Signatory)

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

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory)

TC-7440

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-TC744023000000484F

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Date: 25 SEPT 2023

Test Report No: ERSIPL/TR/AA/193

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	:	01-02.09.2023
Sample Received on	:	04.09.2023
Analysis Started on	:	04.09.2023
Analysis Completed on	:	13.09.2023
Method of Sampling	:	As per Applicable Test Method
Quantity of Sample	:	01 sample for each parameter
Weather Condition	:	Sunny
Atmospheric Temperature (Min/Max)	:	28.0 – 36.0 °C
Atmospheric Pressure (Min/Max)	:	1002-1007 mbar

Sample ID. No.	Locations
1. ERSIPL/AA/693	1. Near Main Gate
2. ERSIPL/AA/694	2. Near Pellet Plant
3. ERSIPL/AA/695	3. Near Steel Melting Shop
4. ERSIPL/AA/696	4. Near Coke Oven Plant

TEST FINDINGS:

Sl. No	Test Parameters	Test method	Unit	Permissible Limit as per NAAQ Standards CPCB Nov-2009	Results			
					ERSIPL/AA/693	ERSIPL/AA/694	ERSIPL/AA/695	ERSIPL/AA/696
1	Particulate Matter (size less than 10 µm) or PM 10	IS 5182 (Part 23): 2006, Reaffirmed-2022, Gravimetric Method	µg/m^3	**100.0**	74.24	71.08	73.62	73.34
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**	34.64	30.39	32.68	32.60
3	Sulphur Dioxide (SO_2)	IS 5182 (Part 2): 2001, Reaffirmed-2022, Improved West & Gaeke Method	µg/m^3	**80.0**	8.12	7.86	9.78	8.46
4	Oxides of Nitrogen (NO_x)	IS 5182 (Part 6): 2006, Reaffirmed - 2022	µg/m^3	**80.0**	13.26	10.44	12.11	13.65

Note:

1. The test results relate only to the items sampled and tested.
2. Total Liability of ERS (I) Pvt. Ltd. is limited to the Invoice Amount.
3. This certificate shall not be reproduced fully or in part without prior written consent of ERS (I) Pvt. Ltd.
4. Samples (Filter Papers & Thimbles) received shall be destroyed after 01 year & Gaseous/liquid samples received shall be destroyed after 07 days from the date of issue of the test report, unless otherwise specified.
5. This report shall not used in any advertising media or as evidence in the court of law without prior written consent of ERS (I) Pvt. Ltd

CIN - U731000R1995PTC003889

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
Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Date: 25 SEPT 2023 **Test Report No: ERSIPL/TR/AA/T-193**

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	:	01-02.09.2023
Sample Received on	:	04.09.2023
Analysis Started on	:	04.09.2023
Analysis Completed on	:	13.09.2023
Method of Sampling	:	As per Applicable Test Method
Quantity of Sample	:	01 sample for each parameter
Weather Condition	:	Sunny
Atmospheric Temperature (Min/Max)	:	28.0 – 36.0 °C
Atmospheric Pressure (Min/Max)	:	1002-1007 mbar

Sample ID. No.	Locations
1. ERSIPL/AA/693	1. Near Main Gate
2. ERSIPL/AA/694	2. Near Pellet Plant
3. ERSIPL/AA/695	3. Near Steel Melting Shop
4. ERSIPL/AA/696	4. Near Coke Oven Plant

TEST FINDINGS:

Sl. No	Test Parameters	Test method	Unit	Permissible Limit as per NAAQ Standards CPCB Nov-2009	Results			
					ERSIPL/ AA/ 693	ERSIPL/ AA/ 694	ERSIPL/ AA/ 695	ERSIPL/ AA/ 696
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.....

ANNEXURE-XIX

CIN - U73100OR1995PTC003889

GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory, OSPCB 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-TC744023000000180F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (~~WATER~~/ WASTE WATER)

Date: 20 Apr 2023

Test Report No: ERSIPL/TR/WA/092

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	04.04.2023
Sample Collected by	:	Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	10.04.2023
Analysis Started on	:	10.04.2023
Analysis Completed on	:	20.04.2023
Method of Sampling	:	IS 3025: Part 1: 1987, Reaffirmed 2019
Quantity of Sample	:	2ltrs
Type of Container	:	Glass Bottle, HDPE Bottle & BOD Bottle
Environment Condition	:	All Tests carried out in Room Temperature

Sample ID. No.	Locations
1. ERSIPL/WA/218	1. Boiler Blow down of WHRB-1
2. ERSIPL/WA/219	2. Boiler Blow down of WHRB-2
3. ERSIPL/WA/220	3. Boiler Blow down of WHRB-5
4. ERSIPL/WA/221	3. Boiler Blow down of WHRB-6

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result				Permissible Limit as per CTO
				ERSIPL /WA/ 218	ERSIPL /WA/ 219	ERSIPL /WA/ 220	ERSIPL /WA/ 221	
01	pH Value	IS 3025: Part 11: 1983 Reaffirmed-2017	--	8.41	8.45	8.47	8.96	xx
02	Total Suspended Solids	IS 3025: Part 17: 1984 Reaffirmed-2017	mg/L	3.7	3.5	2.8	2.9	100.0
03	Oil & Grease	IS 3025: Part 39: 1991 Reaffirmed-2019	mg/L	1.21	1.14	0.90	0.97	20.0
04	Iron (as Fe)	IS 3025: Part 53: 2003 Reaffirmed-2019	mg/L	0.05	0.08	0.08	0.06	1.0

(Authorized Signatory)

S.P.Pattanayak

Tech.Manager

CIN - U73100OR1995PTC003889

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

Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (~~WATER~~/ WASTE WATER)

Date: 20 Apr 2023

Test Report No: ERSIPL/TR/WA/T-092

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	04.04.2023
Sample Collected by	:	Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	10.04.2023
Analysis Started on	:	10.04.2023
Analysis Completed on	:	20.04.2023
Method of Sampling	:	IS 3025: Part 1: 1987, Reaffirmed 2019
Quantity of Sample	:	2ltrs
Type of Container	:	Glass Bottle, HDPE Bottle & BOD Bottle
Environment Condition	:	All Tests carried out in Room Temperature

Sample ID. No.	Locations
1. ERSIPL/WA/218	1. Boiler Blow down of WHRB-1
2. ERSIPL/WA/219	2. Boiler Blow down of WHRB-2
3. ERSIPL/WA/220	3. Boiler Blow down of WHRB-5
4. ERSIPL/WA/221	3. Boiler Blow down of WHRB-6

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result				Permissible Limit as per CTO
				ERSIPL /WA/ 218	ERSIPL /WA/ 219	ERSIPL /WA/ 220	ERSIPL /WA/ 221	
01	Copper	IS 3025: Part 42: 1992 Reaffirmed-2019	mg/L	Not Detected				1.0

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

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

CIN - U73100OR1995PTC003889

GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory, OSPCB Empanelled Laboratory and ISO 9001 : 2015 Certified Company)

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Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

ULR-TC744023000000181F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (~~WATER~~/ WASTE WATER)

Date: 20 Apr 2023

Test Report No: ERSIPL/TR/WA/093

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	04.04.2023
Sample Collected by	:	Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	10.04.2023
Analysis Started on	:	10.04.2023
Analysis Completed on	:	20.04.2023
Method of Sampling	:	IS 3025: Part 1: 1987, Reaffirmed 2019
Quantity of Sample	:	2ltrs
Type of Container	:	Glass Bottle, HDPE Bottle & BOD Bottle
Environment Condition	:	All Tests carried out in Room Temperature

Sample ID. No.	Locations
1. ERSIPL/WA/222	1. Boiler Blow down of WHRB-7
2. ERSIPL/WA/223	2. Boiler Blow down of WHRB-8

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result		Permissible Limit as per CTO
				ERSIPL /WA/ 222	ERSIPL /WA/ 223	
01	pH Value	IS 3025: Part 11: 1983 Reaffirmed-2017	--	8.71	8.45	xx
02	Total Suspended Solids	IS 3025: Part 17: 1984 Reaffirmed-2017	mg/L	3.9	3.1	100.0
03	Oil & Grease	IS 3025: Part 39: 1991 Reaffirmed-2019	mg/L	1.04	1.12	20.0
04	Iron (as Fe)	IS 3025: Part 53: 2003 Reaffirmed-2019	mg/L	0.07	0.05	1.0

(Authorized Signatory)

S.P.Pattanayak

Tech.Manager

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

CIN - U73100OR1995PTC003889

GSTIN : 21AAACE6224D1ZE

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)

Date: 20 Apr 2023 **Test Report No: ERSIPL/TR/WA/T-093**

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	04.04.2023
Sample Collected by	:	Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	10.04.2023
Analysis Started on	:	10.04.2023
Analysis Completed on	:	20.04.2023
Method of Sampling	:	IS 3025: Part 1: 1987, Reaffirmed 2019
Quantity of Sample	:	2ltrs
Type of Container	:	Glass Bottle, HDPE Bottle & BOD Bottle
Environment Condition	:	All Tests carried out in Room Temperature

Sample ID. No.	Locations
1. ERSIPL/WA/222	1. Boiler Blow down of WHRB-7
2. ERSIPL/WA/223	2. Boiler Blow down of WHRB-8

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result		Permissible Limit as per CTO
				ERSIPL /WA/ 222	ERSIPL /WA/ 223	
01	Copper	IS 3025: Part 42: 1992 Reaffirmed-2019	mg/L	Not Detected		1.0

(Authorized Signatory)

S.P.Pattanayak

Tech.Manager

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

CIN - U73100OR1995PTC003889

GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory, OSPCB Empanelled Laboratory and ISO 9001 : 2015 Certified Company)

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Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

ULR-TC744023000000182F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (~~WATER~~/ WASTE WATER)

Date: 20 Apr 2023

Test Report No: ERSIPL/TR/WA/094

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	04.04.2023
Sample Collected by	:	Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	10.04.2023
Analysis Started on	:	10.04.2023
Analysis Completed on	:	20.04.2023
Method of Sampling	:	IS 3025: Part 1: 1987, Reaffirmed 2019
Quantity of Sample	:	2ltrs
Type of Container	:	Glass Bottle, HDPE Bottle & BOD Bottle
Environment Condition	:	All Tests carried out in Room Temperature

Sample ID. No.

1. ERSIPL/WA/224

Locations

1. Cooling Tower Blow Down of WHRB-01 to 08

S. No.	Test Parameters	Test Method	Unit	Result	Permissible Limit as per CTO
				ERSIPL /WA/ 224	
01	pH Value	IS 3025: Part 11: 1983 Reaffirmed-2017	–	8.46	xx
02	Phosphate (as PO_4)	IS 3025: Part 31: 1988 Reaffirmed-2019	mg/L	0.10	2.0

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

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

CIN - U73100OR1995PTC003869

GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

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

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Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (~~WATER~~/ WASTE WATER)

Date: 20 Apr 2023

Test Report No: ERSIPL/TR/WA/T-094

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

Date of Sampling : 04.04.2023

Sample Collected by : Representative of ERS (I) Pvt. Ltd.

Sample Collected in presence of : Representative of the Customer.

Sample Received on : 10.04.2023

Analysis Started on : 10.04.2023

Analysis Completed on : 20.04.2023

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

Quantity of Sample : 2ltrs

Type of Container : Glass Bottle, HDPE Bottle & BOD Bottle

Environment Condition : All Tests carried out in Room Temperature

Sample ID. No.	Locations
1. ERSIPL/WA/224	1. Cooling Tower Blow Down of WHRB-01 to 08

S. No.	Test Parameters	Test Method	Unit	Result	Permissible Limit as per CTO
				ERSIPL /WA/ 224	
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	0.5
03	Zinc	IS 3025:Part 39: 1991 Reaffirmed-2019	mg/L	Not Detected	1.0

(Authorized Signatory)

S.P.Pattanayek

Tech.Manager

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

CIN - U73100OR1995PTC003889

GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory, OSPCB Empanelled Laboratory and ISO 9001 : 2015 Certified Company)

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ULR-TC744023000000231F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (~~WATER~~/ WASTE WATER)

Date: 30 May 2023

Test Report No: ERSIPL/TR/WA/119

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	09.05.2023
Sample Collected by	:	Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	22.05.2023
Analysis Started on	:	22.05.2023
Analysis Completed on	:	30.05.2023
Method of Sampling	:	IS 3025: Part 1: 1987, Reaffirmed 2019
Quantity of Sample	:	2ltrs
Type of Container	:	Glass Bottle, HDPE Bottle & BOD Bottle
Environment Condition	:	All Tests carried out in Room Temperature

Sample ID. No.	Locations
1. ERSIPL/WA/283	1. Boiler Blow down of WHRB-1
2. ERSIPL/WA/284	2. Boiler Blow down of WHRB-2
3. ERSIPL/WA/285	3. Boiler Blow down of WHRB-3
4. ERSIPL/WA/286	3. Boiler Blow down of WHRB-4

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result				Permissible Limit as per CTO
				ERSIPL /WA/ 283	ERSIPL /WA/ 284	ERSIPL /WA/ 285	ERSIPL /WA/ 286	
01	pH Value	IS 3025: Part 11: 1983 Reaffirmed-2017	-	8.11	8.24	8.33	8.74	xx
02	Total Suspended Solids	IS 3025: Part 17: 1984 Reaffirmed-2017	mg/L	3.3	3.1	2.5	3.9	100.0
03	Oil & Grease	IS 3025: Part 39: 1991 Reaffirmed-2019	mg/L	1.51	1.74	1.79	1.97	20.0
04	Iron (as Fe)	IS 3025: Part 53: 2003 Reaffirmed-2019	mg/L	0.08	0.06	0.06	0.05	1.0

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

CIN - U73100OR1995PTC003889 GSTIN : 21AAACE6224D1ZE

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)

Date: 30 May 2023 **Test Report No: ERSIPL/TR/WA/T-119**

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	09.05.2023
Sample Collected by	:	Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	22.05.2023
Analysis Started on	:	22.05.2023
Analysis Completed on	:	30.05.2023
Method of Sampling	:	IS 3025: Part 1: 1987, Reaffirmed 2019
Quantity of Sample	:	2ltrs
Type of Container	:	Glass Bottle, HDPE Bottle & BOD Bottle
Environment Condition	:	All Tests carried out in Room Temperature

Sample ID. No.	Locations
1. ERSIPL/WA/283	1. Boiler Blow down of WHRB-1
2. ERSIPL/WA/284	2. Boiler Blow down of WHRB-2
3. ERSIPL/WA/285	3. Boiler Blow down of WHRB-3
4. ERSIPL/WA/286	3. Boiler Blow down of WHRB-4

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result				Permissible Limit as per CTO
				ERSIPL /WA/ 283	ERSIPL /WA/ 284	ERSIPL /WA/ 285	ERSIPL /WA/ 286	
01	Copper	IS 3025: Part 42; 1992 Reaffirmed-2019	mg/L	Not Detected				1.0

(Authorized Signatory)

S.P.Pattanayak

Tech.Manager

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

CIN - U73100OR1995PTC003889

GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory, OSPCB Empanelled Laboratory and ISO 9001 : 2015 Certified Company)

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ULR-TC744023000000232F **Test Report Format No.: ERSIPL/FM/40**

TEST REPORT (~~WATER~~/ WASTE WATER)

Date: 30 May 2023 **Test Report No: ERSIPL/TR/WA/120**

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	09.05.2023
Sample Collected by	:	Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	22.05.2023
Analysis Started on	:	22.05.2023
Analysis Completed on	:	30.05.2023
Method of Sampling	:	IS 3025: Part 1: 1987, Reaffirmed 2019
Quantity of Sample	:	2ltrs
Type of Container	:	Glass Bottle, HDPE Bottle & BOD Bottle
Environment Condition	:	All Tests carried out in Room Temperature

Sample ID. No.	Locations
1. ERSIPL/WA/287	1. Boiler Blow down of WHRB-5
2. ERSIPL/WA/288	2. Boiler Blow down of WHRB-7
3. ERSIPL/WA/289	3. Boiler Blow down of AFBC

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result			Permissible Limit as per CTO
				ERSIPL /WA/ 287	ERSIPL /WA/ 288	ERSIPL /WA/ 289	
01	pH Value	IS 3025: Part 11: 1983 Reaffirmed-2017	--	8.66	8.23	8.46	xx
02	Total Suspended Solids	IS 3025: Part 17: 1984 Reaffirmed-2017	mg/L	3.1	3.8	3.4	100.0
03	Oil & Grease	IS 3025: Part 39: 1991 Reaffirmed-2019	mg/L	1.14	1.82	1.97	20.0
04	Iron (as Fe)	IS 3025: Part 53: 2003 Reaffirmed-2019	mg/L	0.07	0.07	0.06	1.0

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

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

CIN - U731000R1995PTC003889

GSTIN : 21AAACE6224D1ZE

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)

Date: 30 May 2023 **Test Report No: ERSIPL/TR/WA/T-120**

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	09.05.2023
Sample Collected by	:	Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	22.05.2023
Analysis Started on	:	22.05.2023
Analysis Completed on	:	30.05.2023
Method of Sampling	:	IS 3025: Part 1: 1987, Reaffirmed 2019
Quantity of Sample	:	2ltrs
Type of Container	:	Glass Bottle, HDPE Bottle & BOD Bottle
Environment Condition	:	All Tests carried out in Room Temperature

Sample ID. No.	Locations
1. ERSIPL/WA/287	1. Boiler Blow down of WHRB-5
2. ERSIPL/WA/288	2. Boiler Blow down of WHRB-7
3. ERSIPL/WA/289	3. Boiler Blow down of AFBC

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result			Permissible Limit as per CTO
				ERSIPL /WA/ 287	ERSIPL /WA/ 288	ERSIPL /WA/ 289	
01	Copper	IS 3025: Part 42: 1992 Reaffirmed-2019	mg/L	Not Detected			1.0

(Authorized Signatory)

S.P.Pattanayak

Tech.Manager

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

CIN - U73100OR1995PTC003889

GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory, OSPCB Empanelled Laboratory and ISO 9001 : 2015 Certified Company)

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ULR-TC744023000000233F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (~~WATER~~/ WASTE WATER)

Date: 30 May 2023

Test Report No: ERSIPL/TR/WA/121

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	09.05.2023
Sample Collected by	:	Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	22.05.2023
Analysis Started on	:	22.05.2023
Analysis Completed on	:	30.05.2023
Method of Sampling	:	IS 3025: Part 1: 1987, Reaffirmed 2019
Quantity of Sample	:	2ltrs
Type of Container	:	Glass Bottle, HDPE Bottle & BOD Bottle
Environment Condition	:	All Tests carried out in Room Temperature

Sample ID. No.	Locations
1. ERSIPL/WA/290	1. Cooling Tower Blow Down of WHRB-01 to 08 & AFBC

S. No.	Test Parameters	Test Method	Unit	Result	Permissible Limit as per CTO
				ERSIPL /WA/ 290	
01	pH Value	IS 3025: Part 11: 1983 Reaffirmed-2017	--	8.21	xx
02	Phosphate (as PO_4)	IS 3025: Part 31: 1988 Reaffirmed-2019	mg/l	0.13	2.0

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

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

CIN - U73100OR1995PTC003889

GSTIN : 21AAACE6224D1ZE

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)

Date: 30 May 2023 **Test Report No: ERSIPL/TR/WA/T-121**

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

Date of Sampling : 09.05.2023

Sample Collected by : Representative of ERS (I) Pvt. Ltd.

Sample Collected in presence of : Representative of the Customer.

Sample Received on : 22.05.2023

Analysis Started on : 22.05.2023

Analysis Completed on : 30.05.2023

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

Quantity of Sample : 2ltrs

Type of Container : Glass Bottle, HDPE Bottle & BOD Bottle

Environment Condition : All Tests carried out in Room Temperature

Sample ID. No.	Locations
1. ERSIPL/WA/290	1. Cooling Tower Blow Down of WHRB-01 to 08

S. No.	Test Parameters	Test Method	Unit	Result ERSIPL /WA/ 290	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	0.5
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 - U73100OR1995PTC003889

GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory, OSPCB 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-TC744023000000294F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (~~WATER~~/ WASTE WATER)

Date: 27 June 2023

Test Report No: ERSIPL/TR/WA/150

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	12.06.2023
Sample Collected by	:	Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	17.06.2023
Analysis Started on	:	17.06.2023
Analysis Completed on	:	27.06.2023
Method of Sampling	:	IS 17614: Part 1: 2021
Quantity of Sample	:	2ltrs
Type of Container	:	Glass Bottle, HDPE Bottle & BOD Bottle
Environment Condition	:	All Tests carried out in Room Temperature

Sample ID. No.	Locations
1. ERSIPL/WA/369	1. Boiler Blow down of WHRB-1
2. ERSIPL/WA/370	2. Boiler Blow down of WHRB-2
3. ERSIPL/WA/371	3. Boiler Blow down of WHRB-3
4. ERSIPL/WA/372	3. Boiler Blow down of WHRB-4

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result				Permissible Limit as per CTO
				ERSIPL /WA/ 369	ERSIPL /WA/ 370	ERSIPL /WA/ 371	ERSIPL /WA/ 372	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	--	8.21	8.14	8.23	8.71	xx
02	Total Suspended Solids	IS 3025:Part 17: 1984 Reaffirmed-2022	mg/L	3.7	3.5	2.9	3.1	100.0
03	Oil & Grease	IS 3025:Part 39: 2021	mg/L	1.71	1.40	1.59	1.27	20.0
04	Iron (as Fe)	IS 3025: Part 53: 2003 Reaffirmed-2019	mg/L	0.05	0.07	0.06	0.05	1.0

(Authorized Signatory)

S.P.Pattanayak

Tech.Manager

CIN - U73100OR1995PTC003889

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

Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (~~WATER~~/ WASTE WATER)

Date: 27 June 2023 **Test Report No: ERSIPL/TR/WA/T-150**

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	12.06.2023
Sample Collected by	:	Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	17.06.2023
Analysis Started on	:	17.06.2023
Analysis Completed on	:	27.06.2023
Method of Sampling	:	IS 17614: Part 1: 2021
Quantity of Sample	:	2ltrs
Type of Container	:	Glass Bottle, HDPE Bottle & BOD Bottle
Environment Condition	:	All Tests carried out in Room Temperature

Sample ID. No.	Locations
1. ERSIPL/WA/369	1. Boiler Blow down of WHRB-1
2. ERSIPL/WA/370	2. Boiler Blow down of WHRB-2
3. ERSIPL/WA/371	3. Boiler Blow down of WHRB-3
4. ERSIPL/WA/372	3. Boiler Blow down of WHRB-4

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result				Permissible Limit as per CTO
				ERSIPL /WA/ 369	ERSIPL /WA/ 370	ERSIPL /WA/ 371	ERSIPL /WA/ 372	
01	Copper	IS 3025: Part 42: 1992 Reaffirmed-2019	mg/L	Not Detected				1.0

(Authorized Signatory)

S.P.Pattanayak

Tech.Manager

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

CIN - U73100OR1995PTC003889

GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory, OSPCB Empanelled Laboratory and ISO 9001 : 2015 Certified Company)

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Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

ULR-TC744023000000295F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (~~WATER~~/ WASTE WATER)

Date: 27 June 2023

Test Report No: ERSIPL/TR/WA/151

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	12.06.2023
Sample Collected by	:	Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	17.06.2023
Analysis Started on	:	17.06.2023
Analysis Completed on	:	27.06.2023
Method of Sampling	:	IS 17614: Part 1: 2021
Quantity of Sample	:	2ltrs
Type of Container	:	Glass Bottle, HDPE Bottle & BOD Bottle
Environment Condition	:	All Tests carried out in Room Temperature

Sample ID. No.	Locations
1. ERSIPL/WA/373	1. Boiler Blow down of WHRB-5
2. ERSIPL/WA/374	2. Boiler Blow down of WHRB-6
3. ERSIPL/WA/375	3. Boiler Blow down of WHRB-8
4. ERSIPL/WA/376	4. Boiler Blow down of AFBC

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result				Permissible Limit as per CTO
				ERSIPL /WA/ 373	ERSIPL /WA/ 374	ERSIPL /WA/ 375	ERSIPL /WA/ 376	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	--	8.81	8.13	8.26	8.19	xx
02	Total Suspended Solids	IS 3025:Part 17: 1984 Reaffirmed-2022	mg/L	3.3	3.6	3.1	3.2	100.0
03	Oil & Grease	IS 3025:Part 39: 2021	mg/L	1.44	1.22	1.47	1.22	20.0
04	Iron (as Fe)	IS 3025: Part 53: 2003 Reaffirmed-2019	mg/L	0.07	0.08	0.06	0.08	1.0

(Authorized Signatory)

S.P.Pattanayak

Tech.Manager

END OF TEST REPORT

CIN - U73100OR1995PTC003889

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

Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (~~WATER~~/ WASTE WATER)

Date: 27 June 2023 **Test Report No: ERSIPL/TR/WA/T-151**

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	12.06.2023
Sample Collected by	:	Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	17.06.2023
Analysis Started on	:	17.06.2023
Analysis Completed on	:	27.06.2023
Method of Sampling	:	IS 17614: Part 1: 2021
Quantity of Sample	:	2ltrs
Type of Container	:	Glass Bottle, HDPE Bottle & BOD Bottle
Environment Condition	:	All Tests carried out in Room Temperature

Sample ID. No.	Locations
1. ERSIPL/WA/373	1. Boiler Blow down of WHRB-5
2. ERSIPL/WA/374	2. Boiler Blow down of WHRB-6
3. ERSIPL/WA/375	3. Boiler Blow down of WHRB-8
4. ERSIPL/WA/376	4. Boiler Blow down of AFBC

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result				Permissible Limit as per CTO
				ERSIPL /WA/ 373	ERSIPL /WA/ 374	ERSIPL /WA/ 375	ERSIPL /WA/ 376	
01	Copper	IS 3025: Part 42: 1992 Reaffirmed-2019	mg/L	Not Detected				1.0

(Authorized Signatory)

S.P.Pattanayak

Tech.Manager

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

CIN - U73100OR1995PTC003889

GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory, OSPCB Empanelled Laboratory and ISO 9001 : 2015 Certified Company)

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Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

ULR-TC744023000000296F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (~~WATER~~/ WASTE WATER)

Date: 27 June 2023

Test Report No: ERSIPL/TR/WA/152

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	12.06.2023
Sample Collected by	:	Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	17.06.2023
Analysis Started on	:	17.06.2023
Analysis Completed on	:	27.06.2023
Method of Sampling	:	IS 17614: Part 1: 2021
Quantity of Sample	:	2ltrs
Type of Container	:	Glass Bottle, HDPE Bottle & BOD Bottle
Environment Condition	:	All Tests carried out in Room Temperature

Sample ID. No.	Locations
1. ERSIPL/WA/377	1. Cooling Tower Blow Down of WHRB-01 to 08 & AFBC

S. No.	Test Parameters	Test Method	Unit	Result	Permissible Limit as per CTO
				ERSIPL /WA/ 377	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	--	8.21	xx
02	Phosphate (as PO_4)	IS 3025 (Part 31/Sec 1) : 2022	mg/L	0.11	2.0

(Authorized Signatory)

S.P.Pattanayak

Tech.Manager

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

CIN - U73100OR1995PTC003889 GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

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

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Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (~~WATER~~/ WASTE WATER)

Date: 27 June 2023 **Test Report No: ERSIPL/TR/WA/T-152**

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	12.06.2023
Sample Collected by	:	Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	17.06.2023
Analysis Started on	:	17.06.2023
Analysis Completed on	:	27.06.2023
Method of Sampling	:	IS 17614: Part 1: 2021
Quantity of Sample	:	2ltrs
Type of Container	:	Glass Bottle, HDPE Bottle & BOD Bottle
Environment Condition	:	All Tests carried out in Room Temperature

Sample ID. No.	Locations
1. ERSIPL/WA/377	1. Cooling Tower Blow Down of WHRB-01 to 08

S. No.	Test Parameters	Test Method	Unit	Result	Permissible Limit as per CTO
				ERSIPL /WA/ 377	
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: 2021	mg/L	NIL	0.5
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 - U73100OR1995PTC003869

GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory, OSPCB Empanelled Laboratory and ISO 9001 : 2015 Certified Company)

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ULR-TC744023000000355F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (~~WATER~~/ WASTE WATER)

Date: 24 July 2023

Test Report No: ERSIPL/TR/WA/181

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	04.07.2023
Sample Collected by	:	Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	15.07.2023
Analysis Started on	:	15.07.2023
Analysis Completed on	:	24.07.2023
Method of Sampling	:	IS 17614: Part 1: 2021
Quantity of Sample	:	2ltrs
Type of Container	:	Glass Bottle, HDPE Bottle & BOD Bottle
Environment Condition	:	All Tests carried out in Room Temperature

Sample ID. No.	Locations
1. ERSIPL/WA/432	1. Boiler Blow down of WHRB-2
2. ERSIPL/WA/433	2. Boiler Blow down of WHRB-3
3. ERSIPL/WA/434	3. Boiler Blow down of WHRB-4
4. ERSIPL/WA/435	4. Boiler Blow down of WHRB-5

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result				Permissible Limit as per CTO
				ERSIPL /WA/ 432	ERSIPL /WA/ 433	ERSIPL /WA/ 434	ERSIPL /WA/ 435	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022		7.05	6.87	7.32	7.45	xx
02	Total Suspended Solids	IS 3025:Part 17: 1984 Reaffirmed-2022	mg/L	4.1	3.3	2.1	3.7	100.0
03	Oil & Grease	IS 3025:Part 39: 2021	mg/L	1.11	1.94	1.29	1.57	20.0
04	Iron (as Fe)	IS 3025: Part 53: 2003 Reaffirmed-2019	mg/L	0.06	0.07	0.06	0.05	1.0

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

END OF TEST REPORT

CIN - U73100OR1995PTC003889

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

Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (~~WATER~~/ WASTE WATER)

Date: 24 July 2023 **Test Report No: ERSIPL/TR/WA/T-181**

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	04.07.2023
Sample Collected by	:	Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	15.07.2023
Analysis Started on	:	15.07.2023
Analysis Completed on	:	24.07.2023
Method of Sampling	:	IS 17614: Part 1: 2021
Quantity of Sample	:	2ltrs
Type of Container	:	Glass Bottle, HDPE Bottle & BOD Bottle
Environment Condition	:	All Tests carried out in Room Temperature

Sample ID. No.	Locations
1. ERSIPL/WA/432	1. Boiler Blow down of WHRB-2
2. ERSIPL/WA/433	2. Boiler Blow down of WHRB-3
3. ERSIPL/WA/434	3. Boiler Blow down of WHRB-4
4. ERSIPL/WA/435	4. Boiler Blow down of WHRB-5

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result				Permissible Limit as per CTO
				ERSIPL /WA/ 432	ERSIPL /WA/ 433	ERSIPL /WA/ 434	ERSIPL /WA/ 435	
01	Copper	IS 3025: Part 42: 1992 Reaffirmed-2019	mg/L	Not Detected				1.0

(Authorized Signatory)

S.P.Pattanayak

Tech.Manager

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

CIN - U73100OR1995PTC003889

GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory, OSPCB Empanelled Laboratory and ISO 9001 : 2015 Certified Company)

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ULR-TC744023000000356F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (~~WATER~~/ WASTE WATER)

Date: 24 July 2023

Test Report No: ERSIPL/TR/WA/182

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	04.07.2023
Sample Collected by	:	Representative of ERS (I) Pvt. Ltd
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	15.07.2023
Analysis Started on	:	15.07.2023
Analysis Completed on	:	24.07.2023
Method of Sampling	:	IS 17614: Part 1: 2021
Quantity of Sample	:	2ltrs
Type of Container	:	Glass Bottle, HDPE Bottle & BOD Bottle
Environment Condition	:	All Tests carried out in Room Temperature

Sample ID. No.	Locations
1. ERSIPL/WA/436	1. Boiler Blow down of WHRB-6
2. ERSIPL/WA/437	2. Boiler Blow down of WHRB-7
3. ERSIPL/WA/438	3. Boiler Blow down of WHRB-8
4. ERSIPL/WA/439	4. Boiler Blow down of AFBC

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result				Permissible Limit as per CTO
				ERSIPL /WA/ 436	ERSIPL /WA/ 437	ERSIPL /WA/ 438	ERSIPL /WA/ 439	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	—	7.57	7.40	7.35	7.23	xx
02	Total Suspended Solids	IS 3025:Part 17: 1984 Reaffirmed-2022	mg/L	3.7	3.6	3.9	4.2	100.0
03	Oil & Grease	IS 3025:Part 39: 2021	mg/L	1.04	1.72	1.57	1.52	20.0
04	Iron (as Fe)	IS 3025: Part 53: 2003 Reaffirmed-2019	mg/L	0.07	0.06	0.06	0.05	1.0

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

END OF TEST REPORT

CIN - U73100OR1995PTC003809

GSTIN : 21AAACE6224D1ZE

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)

Date: 24 July 2023 **Test Report No: ERSIPL/TR/WA/T-182**

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	04.07.2023
Sample Collected by	:	Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	15.07.2023
Analysis Started on	:	15.07.2023
Analysis Completed on	:	24.07.2023
Method of Sampling	:	IS 17614: Part 1: 2021
Quantity of Sample	:	2ltrs
Type of Container	:	Glass Bottle, HDPE Bottle & BOD Bottle
Environment Condition	:	All Tests carried out in Room Temperature

Sample ID. No.	Locations
1. ERSIPL/WA/436	1. Boiler Blow down of WHRB-6
2. ERSIPL/WA/437	2. Boiler Blow down of WHRB-7
3. ERSIPL/WA/438	3. Boiler Blow down of WHRB-8
4. ERSIPL/WA/439	4. Boiler Blow down of AFBC

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result				Permissible Limit as per CTO
				ERSIPL /WA/ 436	ERSIPL /WA/ 437	ERSIPL /WA/ 438	ERSIPL /WA/ 439	
01	Copper	IS 3025: Part 42: 1992 Reaffirmed-2019	mg/L	Not Detected				1.0

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

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

CIN - U73100OR1995PTC003899

GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory, OSPCB Empanelled Laboratory and ISO 9001 : 2015 Certified Company)

Certificate No.: TC-3440

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ULR-TC744023000000357F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (~~WATER~~/ WASTE WATER)

Date: 24 July 2023

Test Report No: ERSIPL/TR/WA/183

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	04.07.2023
Sample Collected by	:	Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	15.07.2023
Analysis Started on	:	15.07.2023
Analysis Completed on	:	24.07.2023
Method of Sampling	:	IS 17614: Part 1: 2021
Quantity of Sample	:	2ltrs
Type of Container	:	Glass Bottle, HDPE Bottle & BOD Bottle
Environment Condition	:	All Tests carried out in Room Temperature

Sample ID. No.	Locations
1. ERSIPL/WA/440	1. Cooling Tower Blow Down of WHRB-01 to 08 & AFBC
2. ERSIPL/WA/441	2. Cooling Tower Blow Down of Induction Furnace
3. ERSIPL/WA/442	3. Cooling Tower Blow Down of Blast Furnace

S. No.	Test Parameters	Test Method	Unit	Result			Permissible Limit as per CTO
				ERSIPL /WA/ 440	ERSIPL /WA/ 441	ERSIPL /WA/ 442	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	—	8.0	8.37	8.15	xx
02	Phosphate (as PO_4)	IS 3025 (Part 31/Sec 1) : 2022	mg/L	0.42	0.38	0.16	2.0

(Authorized Signatory)

S. P. Pattanayak

Tech. Manager

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

CIN - U73100OR1995PTC003889

GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

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

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Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (~~WATER~~/ WASTE WATER)

Date: 24 July 2023 **Test Report No: ERSIPL/TR/WA/T-183**

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

Date of Sampling : 04.07.2023
Sample Collected by : Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of : Representative of the Customer.
Sample Received on : 15.07.2023
Analysis Started on : 15.07.2023
Analysis Completed on : 24.07.2023
Method of Sampling : IS 17614: Part 1: 2021
Quantity of Sample : 2ltrs
Type of Container : Glass Bottle, HDPE Bottle & BOD Bottle
Environment Condition : All Tests carried out in Room Temperature

Sample ID. No.	Locations
1. ERSIPL/WA/440	1. Cooling Tower Blow Down of WHRB-01 to 08 & AFBC
2. ERSIPL/WA/441	2. Cooling Tower Blow Down of Induction Furnace
3. ERSIPL/WA/442	3. Cooling Tower Blow Down of Blast Furnace

S. No.	Test Parameters	Test Method	Unit	Result			Permissible Limit as per CTO
				ERSIPL /WA/ 440	ERSIPL /WA/ 441	ERSIPL /WA/ 442	
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: 2021	mg/L	NIL			0.5
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.....

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory)

TC-7440

Plot No: B-22, Sector-B, Industrial Estate Chandaka, Infocity Road, Bhubaneswar-751024, Odisha

Tel: +91-9437021932, +91-9937690329, E-mail: ersibbsr@gmail.com

IIR-TC7440230000000471F **Test Report Format No.: ERSIPL/FM/40**

TEST REPORT (~~WATER~~/ WASTE WATER)

Date: 06 SEPT 2023 **Test Report No: ERSIPL/TR/WA/238**

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	29.08.2023
Sample Collected by	:	S. samantaray, Field assistant, ERS(I) Pvt. Ltd
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	01.09.2023
Analysis Started on	:	01.09.2023
Analysis Completed on	:	05.09.2023
Method of Sampling	:	As per Applicable Test Method
Quantity of Sample	:	2ltrs
Type of Container	:	Glass Bottle, HDPE Bottle & BOD Bottle
Weather Condition	:	Overcast
Atmospheric temperature	:	33 ^{0}C

Sample ID. No.	Locations
1. ERSIPL/WA/561	1. Boiler Blow down of WHRB-1
2. ERSIPL/WA/562	2. Boiler Blow down of WHRB-2
3. ERSIPL/WA/563	3. Boiler Blow down of WHRB-3
4. ERSIPL/WA/564	3. Boiler Blow down of WHRB-4

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result				Permissible Limit as per CTO
				ERSIPL /WA/ 561	ERSIPL /WA/ 562	ERSIPL /WA/ 563	ERSIPL /WA/ 564	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	–	7.08	6.83	7.22	7.37	xx
02	Total Suspended Solids	IS 3025:Part 17: 1984 Reaffirmed-2022	mg/L	4.3	3.1	2.9	4.2	100.0
03	Oil & Grease	IS 3025:Part 39: 2021	mg/L	1.81	2.40	2.29	2.57	20.0
04	Iron (as Fe)	IS 3025: Part 53: 2003 Reaffirmed-2019	mg/L	0.08	0.07	0.06	0.07	1.0

Note:
1. This test results relate only to the items sampled and tested.
2. Total Liability of ERS (I) Pvt. Ltd. is limited to the Invoice Amount.
3. This certificate shall not be reproduced fully or in part without prior written consent of ERS (I) Pvt. Ltd.
4. Samples (Filter Papers & Thimbles) received shall be destroyed after 01 year. Aqueous/liquid samples received shall be destroyed after 07 days from the date of issue of the test report, unless otherwise specified.
5. This report shall not used in any advertising media or as evidence in the court of law without the written consent of ERS (I) Pvt. Ltd.

ERS(I) PVT. LTD. BBSR

(Authorized Signatory)

CIN - U73100OR1995PTC003889

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
Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (~~WATER~~/ WASTE WATER)

Date: 06 SEPT 2023 **Test Report No: ERSIPL/TR/WA/T-238**

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	29.08.2023
Sample Collected by	:	S. samantaray, Field assistant, ERS(I) Pvt. Ltd
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	01.09.2023
Analysis Started on	:	01.09.2023
Analysis Completed on	:	05.09.2023
Method of Sampling	:	As per Applicable Test Method
Quantity of Sample	:	2ltrs
Type of Container	:	Glass Bottle, HDPE Bottle & BOD Bottle
Weather Condition	:	Overcast
Atmospheric temperature	:	33 °C

Sample ID. No.	Locations
1. ERSIPL/WA/561	1. Boiler Blow down of WHRB-1
2. ERSIPL/WA/562	2. Boiler Blow down of WHRB-2
3. ERSIPL/WA/563	3. Boiler Blow down of WHRB-3
4. ERSIPL/WA/564	3. Boiler Blow down of WHRB-4

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result				Permissible Limit as per CTO
				ERSIPL /WA/ 561	ERSIPL /WA/ 562	ERSIPL /WA/ 563	ERSIPL /WA/ 564	
01	Copper	IS 3025: Part 42: 1992 Reaffirmed 2019	mg/L	Not Detected				1.0

ERSI PVT. LTD. BBSR

(Authorised Signatory)

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

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory)

TC-7440

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-TC744023000000472F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (~~WATER~~/ WASTE WATER)

Date: 06 SEPT 2023

Test Report No: ERSIPL/TR/WA/239

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	29.08.2023
Sample Collected by	:	S. samantaray, Field assistant, ERS(I) Pvt. Ltd
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	01.09.2023
Analysis Started on	:	01.09.2023
Analysis Completed on	:	05.09.2023
Method of Sampling	:	As per Applicable Test Method
Quantity of Sample	:	2ltrs
Type of Container	:	Glass Bottle, HDPE Bottle & BOD Bottle
Weather Condition	:	Overcast
Atmospheric temperature	:	33 ^{0}C

Sample ID. No.	Locations
1. ERSIPL/WA/565	1. Boiler Blow down of WHRB-5
2. ERSIPL/WA/566	2. Boiler Blow down of WHRB-6
3. ERSIPL/WA/567	3. Boiler Blow down of WHRB-7
4. ERSIPL/WA/568	4. Boiler Blow down of WHRB-8

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result				Permissible Limit as per CTO
				ERSIPL /WA/ 565	ERSIPL /WA/ 566	ERSIPL /WA/ 567	ERSIPL /WA/ 568	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	--	7.51	7.44	7.31	7.27	xx
02	Total Suspended Solids	IS 3025:Part 17: 1984 Reaffirmed-2022	mg/L	3.2	3.8	3.3	3.2	100.0
03	Oil & Grease	IS 3025:Part 39: 2021	mg/L	1.44	1.32	2.57	2.52	20.0
04	Iron (as Fe)	IS 3025: Part 53: 2003 Reaffirmed-2019	mg/L	0.07	0.06	0.05	0.07	1.0

Note:
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4. Samples (Filter Papers & Thimbles) received shall be destroyed after 01 year & Gaseous/liquid samples received shall be destroyed after 07 days from the date of issue of the test report, unless otherwise [illegible]
5. This report shall not used in any advertising media or as evidence in the court of law without prior written consent of ERS(I) Pvt. Ltd.

ERSIPL

(Authorized Signatory)

CIN - U73100OR1995PTC003889

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

Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (~~WATER~~/ WASTE WATER)

Date: 06 SEPT 2023 **Test Report No: ERSIPL/TR/WA/T-239**

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	29.08.2023
Sample Collected by	:	S. samantaray, Field assistant, ERS(I) Pvt. Ltd
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	01.09.2023
Analysis Started on	:	01.09.2023
Analysis Completed on	:	05.09.2023
Method of Sampling	:	As per Applicable Test Method
Quantity of Sample	:	2ltrs
Type of Container	:	Glass Bottle, HDPE Bottle & BOD Bottle
Weather Condition	:	Overcast
Atmospheric temperature	:	33 ^{0}C

Sample ID. No.	Locations
1. ERSIPL/WA/565	1. Boiler Blow down of WHRB-5
2. ERSIPL/WA/566	2. Boiler Blow down of WHRB-6
3. ERSIPL/WA/567	3. Boiler Blow down of WHRB-7
4. ERSIPL/WA/568	4. Boiler Blow down of WHRB-8

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result				Permissible Limit as per CTO
				ERSIPL /WA/ 565	ERSIPL /WA/ 566	ERSIPL /WA/ 567	ERSIPL /WA/ 568	
01	Copper	IS 3025: Part 42: 1992 Reaffirmed-2019	mg/L	Not Detected				1.0

(Authorized Signatory)

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

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory)

TC-7440

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-TC744023000000473F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (~~WATER~~/ WASTE WATER)

Date: 06 SEPT 2023

Test Report No: ERSIPL/TR/WA/240

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	29.08.2023
Sample Collected by	:	S. Samantaray, Field Assistant, ERS(I) Pvt. Ltd.
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	01.09.2023
Analysis Started on	:	01.09.2023
Analysis Completed on	:	05.09.2023
Method of Sampling	:	As per Applicable Test Method
Quantity of Sample	:	2ltrs
Type of Container	:	Glass Bottle, HDPE Bottle & BOD Bottle
Weather Condition	:	Overcast
Atmospheric temperature	:	33 ^{0}C

Sample ID. No.	Locations
1. ERSIPL/WA/569	1. Boiler Blow down of AFBC

S. No.	Test Parameters	Test Method	Unit	Result	Permissible Limit as per CTO
				ERSIPL /WA/ 569	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	--	7.31	xx
02	Total Suspended Solids	IS 3025:Part 17: 1984 Reaffirmed-2022	mg/L	4.2	100.0
03	Oil & Grease	IS 3025:Part 39: 2021	mg/L	1.92	20.0
04	Iron (as Fe)	IS 3025: Part 53: 2003 Reaffirmed-2019	mg/L	0.06	1.0

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ERSI PVT. LTD. BBSR

(Authorized Signatory)

CIN - U73100OR1995PTC003889

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
Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (~~WATER~~/ WASTE WATER)

Date: 06 SEPT 2023 **Test Report No: ERSIPL/TR/WA/T-240**

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

Date of Sampling : 29.08.2023
Sample Collected by : S. samantaray, Field assistant, ERS(I) Pvt. Ltd
Sample Collected in presence of : Representative of the Customer.
Sample Received on : 01.09.2023
Analysis Started on : 01.09.2023
Analysis Completed on : 05.09.2023
Method of Sampling : As per Applicable Test Method
Quantity of Sample : 2ltrs
Type of Container : Glass Bottle, HDPE Bottle & BOD Bottle
Weather Condition : Overcast
Atmospheric temperature : 33 °C

Sample ID. No. Locations
1. ERSIPL/WA/569 1. 6 Boiler Blow down of AFBC

S. No.	Test Parameters	Test Method	Unit	Result	Permissible Limit as per CTO
				ERSIPL /WA/ 569	
01	Copper	IS 3025: Part 42: 1992 Reaffirmed-2019	mg/L	Not Detected	1.0

ERSI PVT. LTD. BBSR

(Authorised Signatory)

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

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory)

TC-7440

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-TC744023000000474F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Date: 06 SEPT 2023

Test Report No: ERSIPL/TR/WA/241

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	29.08.2023
Sample Collected by	:	S. samantaray, Field assistant, ERS(I) Pvt. Ltd
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	01.09.2023
Analysis Started on	:	01.09.2023
Analysis Completed on	:	05.09.2023
Method of Sampling	:	As per Applicable Test Method
Quantity of Sample	:	2ltrs
Type of Container	:	Glass Bottle, HDPE Bottle & BOD Bottle
Weather Condition	:	Overcast
Atmospheric temperature	:	33 ^{0}C

Sample ID. No.	Locations
1. ERSIPL/WA/570	1. Cooling Tower Blow Down of WHRB-01 to 08 & AFBC
2. ERSIPL/WA/571	2. Cooling Tower Blow Down of Induction Furnace
3. ERSIPL/WA/572	3. Cooling Tower Blow Down of Blast Furnace

S. No.	Test Parameters	Test Method	Unit	Result			Permissible Limit as per CTO
				ERSIPL/WA/570	ERSIPL/WA/571	ERSIPL/WA/572	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	--	8.11	8.41	8.24	xx
02	Phosphate (as PO_4)	IS 3025 (Part 31/Sec 1) : 2022	mg/L	0.40	0.35	0.13	2.0

Note-

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ERSI PVT. LTD. BBSR

(Authorized Signatory)

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

CIN - U73100OR1995PTC003889

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

Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (~~WATER~~/ WASTE WATER)

Date: 06 SEPT 2023

Test Report No: ERSIPL/TR/WA/T-241

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	29.08.2023
Sample Collected by	:	S. samantaray, Field assistant, ERS(I) Pvt. Ltd
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	01.09.2023
Analysis Started on	:	01.09.2023
Analysis Completed on	:	05.09.2023
Method of Sampling	:	As per Applicable Test Method
Quantity of Sample	:	2ltrs
Type of Container	:	Glass Bottle, HDPE Bottle & BOD Bottle
Weather Condition	:	Overcast
Atmospheric temperature	:	33 ^{0}C

Sample ID. No.	Locations
1. ERSIPL/WA/570	1. Cooling Tower Blow Down of WHRB-01 to 08 & AFBC
2. ERSIPL/WA/571	2. Cooling Tower Blow Down of Induction Furnace
3. ERSIPL/WA/572	3. Cooling Tower Blow Down of Blast Furnace

S. No.	Test Parameters	Test Method	Unit	Result			Permissible Limit as per CTO
				ERSIPL /WA/ 570	ERSIPL /WA/ 571	ERSIPL /WA/ 572	
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: 2021	mg/L	NIL			0.5
03	Zinc	IS 3025:Part 39: 1991 Reaffirmed-2019	mg/L	Not Detected			1.0

ERSI PVT. LTD. BBSR

(Authorised Signatory)

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

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory)

TC-7440

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-TC744023000000487F **Test Report Format No.: ERSIPL/FM/40**

TEST REPORT (~~WATER~~/ WASTE WATER)

Date: 25 SEPT 2023 **Test Report No: ERSIPL/TR/WA/248**

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	01.09.2023
Sample Collected by	:	R Jena, Field Supervisor, ERS(I) Pvt. Ltd
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	04.09.2023
Analysis Started on	:	04.09.2023
Analysis Completed on	:	13.09.2023
Method of Sampling	:	As per Applicable Test Method
Quantity of Sample	:	3ltrs
Type of Container	:	Glass Bottle, HDPE Bottle
Weather Condition	:	Sunny
Atmospheric temperature	:	31 °C

Sample ID. No.	Locations
1. ERSIPL/WA/592	1. Boiler Blow down of WHRB-1
2. ERSIPL/WA/593	2. Boiler Blow down of WHRB-2
3. ERSIPL/WA/594	3. Boiler Blow down of WHRB-3
4. ERSIPL/WA/595	3. Boiler Blow down of WHRB-4

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result				Permissible Limit as per CTO
				ERSIPL /WA/ 592	ERSIPL /WA/ 593	ERSIPL /WA/ 594	ERSIPL /WA/ 595	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	--	7.10	6.85	7.23	7.35	xx
02	Total Suspended Solids	IS 3025:Part 17: 1984 Reaffirmed-2022	mg/L	3.7	3.3	3.9	3.2	100.0
03	Oil & Grease	IS 3025:Part 39: 2021	mg/L	2.11	2.54	2.19	2.17	20.0
04	Iron (as Fe)	IS 3025: Part 53: 2003 Reaffirmed-2019	mg/L	0.05	0.07	0.06	0.07	1.0

Note:
1. The test results relate only to the items sampled and tested.
2. Total Liability of ERS (I) Pvt. Ltd. is limited to the invoice Amount.
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4. Samples (Filter Papers & Thimbles) received shall be destroyed after 01 year & Gaseous/liquid samples received shall be destroyed after 07 days from the date of issue of the test report, unless otherwise specified.
5. This report shall not used in any advertising media or as evidence in the court of law without prior written consent of ERS (I) Pvt. Ltd.

(Authorized Signatory)

CIN - U73100OR1995PTC003889

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
Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (~~WATER~~/ WASTE WATER)

Date: 25 SEPT 2023 **Test Report No: ERSIPL/TR/WA/T-248**

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	01.09.2023
Sample Collected by	:	R Jena, Field Supervisor, ERS(I) Pvt. Ltd
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	04.09.2023
Analysis Started on	:	04.09.2023
Analysis Completed on	:	13.09.2023
Method of Sampling	:	As per Applicable Test Method
Quantity of Sample	:	3ltrs
Type of Container	:	Glass Bottle, HDPE Bottle
Weather Condition	:	Sunny
Atmospheric temperature	:	31 ^{0}C

Sample ID. No.	Locations
1. ERSIPL/WA/592	1. Boiler Blow down of WHRB-1
2. ERSIPL/WA/593	2. Boiler Blow down of WHRB-2
3. ERSIPL/WA/594	3. Boiler Blow down of WHRB-3
4. ERSIPL/WA/595	3. Boiler Blow down of WHRB-4

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result				Permissible Limit as per CTO
				ERSIPL /WA/ 592	ERSIPL /WA/ 593	ERSIPL /WA/ 594	ERSIPL /WA/ 595	
01	Copper	IS 3025: Part 42: 1992 Reaffirmed-2019	mg/L	Not Detected				1.0

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

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

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory)

TC-7440

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-TC744023000000488F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (~~WATER~~/ WASTE WATER)

Date: 25 SEPT 2023

Test Report No: ERSIPL/TR/WA/249

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	01.09.2023
Sample Collected by	:	R Jena, Field Supervisor, ERS(I) Pvt. Ltd
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	04.09.2023
Analysis Started on	:	04.09.2023
Analysis Completed on	:	13.09.2023
Method of Sampling	:	As per Applicable Test Method
Quantity of Sample	:	3ltrs
Type of Container	:	Glass Bottle, HDPE Bottle
Weather Condition	:	Sunny
Atmospheric temperature	:	31 ^{0}C

Sample ID. No.	Locations
1. ERSIPL/WA/596	1. Boiler Blow down of WHRB-5
2. ERSIPL/WA/597	2. Boiler Blow down of WHRB-6
3. ERSIPL/WA/598	3. Boiler Blow down of WHRB-7
4. ERSIPL/WA/599	4. Boiler Blow down of WHRB-8
5. ERSIPL/WA/600	5. Boiler Blow down of AFBC

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result					Permissible Limit as per CTO
				ERSIPL /WA/ 596	ERSIPL /WA/ 597	ERSIPL /WA/ 598	ERSIPL /WA/ 599	ERSIPL /WA/ 600	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	--	7.48	7.43	7.33	7.29	7.25	xx
02	Total Suspended Solids	IS 3025:Part 17: 1984 Reaffirmed-2022	mg/L	3.8	3.1	3.9	4.2	3.2	100.0
03	Oil & Grease	IS 3025:Part 39: 2021	mg/L	2.44	2.32	2.17	2.42	2.92	20.0
04	Iron (as Fe)	IS 3025: Part 53: 2003 Reaffirmed-2019	mg/L	0.05	0.06	0.05	0.06	0.05	1.0

Note:
1. The test results relate only to the items sampled and tested.
2. Total Liability of ERS (I) Pvt. Ltd. is limited to the Invoice Amount.
3. This certificate shall not be reproduced fully or in part without prior written consent of ERS (I) Pvt. Ltd.
4. Samples (Filter Papers & Thimbles) received shall be destroyed after 01 year & Gaseous/liquid samples received shall be destroyed after 07 days from the date of issue of the test report, unless otherwise specified.
5. This report shall not used in any advertising media or as evidence in the court of law without prior written consent of ERS (I) Pvt. Ltd.

(Authorized Signatory)
S.P.Pattanayak

CIN - U73100OR1995PTC003889

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
Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (~~WATER~~/ WASTE WATER)

Date: 25 SEPT 2023 **Test Report No: ERSIPL/TR/WA/T-249**

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	01.09.2023
Sample Collected by	:	R Jena, Field Supervisor, ERS(I) Pvt. Ltd
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	04.09.2023
Analysis Started on	:	04.09.2023
Analysis Completed on	:	13.09.2023
Method of Sampling	:	As per Applicable Test Method
Quantity of Sample	:	3ltrs
Type of Container	:	Glass Bottle, HDPE Bottle
Weather Condition	:	Sunny
Atmospheric temperature	:	31 ^{0}C

Sample ID. No.	Locations
1. ERSIPL/WA/596	1. Boiler Blow down of WHRB-5
2. ERSIPL/WA/597	2. Boiler Blow down of WHRB-6
3. ERSIPL/WA/598	3. Boiler Blow down of WHRB-7
4. ERSIPL/WA/599	4. Boiler Blow down of WHRB-8
5. ERSIPL/WA/600	5. Boiler Blow down of AFBC

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result					Permissible Limit as per CTO
				ERSIPL /WA/ 596	ERSIPL /WA/ 597	ERSIPL /WA/ 598	ERSIPL /WA/ 599	ERSIPL /WA/ 600	
01	Copper	IS 3025: Part 42: 1992 Reaffirmed-2019	mg/L	Not Detected					1.0

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

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

Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 : 2017 (NABL) Accredited Laboratory)

TC-7440

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-TC744023000000489F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (~~WATER~~/ WASTE WATER)

Date: 25 SEPT 2023

Test Report No: ERSIPL/TR/WA/250

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	01.09.2023
Sample Collected by	:	R Jena, Field Supervisor, ERS(I) Pvt. Ltd
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	04.09.2023
Analysis Started on	:	04.09.2023
Analysis Completed on	:	13.09.2023
Method of Sampling	:	As per Applicable Test Method
Quantity of Sample	:	2ltrs
Type of Container	:	HDPE Bottle
Weather Condition	:	Sunny
Atmospheric temperature	:	31 ^{0}C

Sample ID. No.	Locations
1. ERSIPL/WA/601	1. Cooling Tower Blow Down of WHRB-01 to 08 & AFBC
2. ERSIPL/WA/602	2. Cooling Tower Blow Down from Steel Melting Shop
3. ERSIPL/WA/603	3. Cooling Tower Blow Down of Blast Furnace

S. No.	Test Parameters	Test Method	Unit	Result			Permissible Limit as per CTO
				ERSIPL /WA/ 601	ERSIPL /WA/ 602	ERSIPL /WA/ 603	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	--	8.06	8.36	8.29	xx
02	Phosphate (as PO_4)	IS 3025 (Part 31/Sec 1) : 2022	mg/L	0.41	0.34	0.14	2.0

Note-

1. The test results relate only to the items sampled and tested.
2. Total Liability of ERS (I) Pvt. Ltd. is limited to the invoice Amount.
3. This certificate shall not be reproduced fully or in part without prior written consent of ERS (I) Pvt. Ltd.
4. Samples (Filter Papers & Thimbles) received shall be destroyed after 01 year & Gaseous/liquid samples received shall be destroyed after 07 days from the date of issue of the test report, unless otherwise specified.
5. This report shall not used in any advertising media or as evidence in the court of law without prior written consent of ERS (I) Pvt. Ltd.

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

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

CIN - U73100OR1995PTC003889

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

Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (~~WATER~~/ WASTE WATER)

Date: 25 SEPT 2023 **Test Report No: ERSIPL/TR/WA/T-250**

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	:	01.09.2023
Sample Collected by	:	R Jena, Field Supervisor, ERS(I) Pvt. Ltd
Sample Collected in presence of	:	Representative of the Customer.
Sample Received on	:	04.09.2023
Analysis Started on	:	04.09.2023
Analysis Completed on	:	13.09.2023
Method of Sampling	:	As per Applicable Test Method
Quantity of Sample	:	2ltrs
Type of Container	:	HDPE Bottle
Weather Condition	:	Sunny
Atmospheric temperature	:	31 ^{0}C

Sample ID. No.	Locations
1. ERSIPL/WA/601	1. Cooling Tower Blow Down of WHRB-01 to 08 & AFBC
2. ERSIPL/WA/602	2. Cooling Tower Blow Down from Steel Melting Shop
3. ERSIPL/WA/603	3. Cooling Tower Blow Down of Blast Furnace

S. No.	Test Parameters	Test Method	Unit	Result			Permissible Limit as per CTO
				ERSIPL /WA/ 601	ERSIPL /WA/ 602	ERSIPL /WA/ 603	
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: 2021	mg/L	NIL			0.5
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.....

ANNEXURE-XX

Noise Level Measurement Report
Frequency of Measurement: Monthly Once
(April 2023 to September 2023)

Noise Level in dB (A)
Day Time: (6.00 AM to 10.00 PM)
Night Time :(10.00 PM to 6.00 AM)

S. No.	Noise Level Measurement Stations	Month and Date of Measurement											
		April 2023 (04/04/2023)		May2023 (08/05/2023)		June 2023 (13/06/2023)		July 2023 (05/07/2023)		August 2023 (28/08/2023)		September 2023 (01/09/2023)	
		Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
1	Near Main Gate	59.3	51.7	61.4	53.9	54.8	42.3	53.8	48.5	51.4	43.7	50.2	42.3
2	Near Administrative Building	54.6	47.9	58.3	49.6	48.6	40.7	57.3	52.4	57.2	48.6	56.7	46.4
3	Near Store Room	67.8	63.7	73.9	69.1	58.9	52.6	63.1	57.9	80.8	76.2	60.7	59.8
4	Near Boiler (WHRB-III)	64.9	62.3	74.1	68.3	44.8	34.9	69.4	65.7	74.8	70.7	65.7	61.2
5	Near Boiler (WHRB-IV)	66.2	62.8	73.0	64.8	73.4	66.3	67.4	64.6	78.5	69.9	74.3	69.4
6	Near Boiler (WHRB-V)	73.4	65.6	72.8	65.9	72.4	60.8	72.5	68.9	79.1	76.3	72.0	69.4
7	Near Boiler (WHRB-VI)	74.0	62.3	70.6	66.7	68.9	64.4	73.4	69.0	77.4	73.8	70.4	65.2
8	Near Boiler (WHRB-VII)	72.8	60.8	73.6	65.4	64.7	64.7	74.4	69.8	76.3	73.1	73.4	68.0
9	Near Boiler (WHRB-VIII)	72.4	67.9	73.8	64.9	63.6	60.8	68.8	64.3	79.1	73.8	74.3	68.1
10	Near AFBC Boiler	61.6	59.4	70.3	68.0	69.2	62.0	73.5	68.4	69.9	68.3	74.2	67.6

CIN - U73100OR1995PTC003889

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

Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

AMBIENT NOISE LEVEL MEASUREMENT REPORT

Date: 20 Apr 2023

Name and Address of the Customer	:	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Measurement	:	04.04.2023
Measurement taken by	:	Representative of ERS (I) Pvt. Ltd.
Measurement taken in presence of	:	Representative of the Customer.

Sl. No.	Location		Result in dB (A) Leq	
			Day Time (6.00 A. M. – 10.00 P.M.)	Night Time (10.00 P.M. – 6.00 A.M.)
1	Ambient	Near Main Gate	59.3	51.7
2		Near Administrative Building	54.6	47.9
3		Near Store Room	67.8	63.7
4	Source Places (Stationary Sources)	Near Boiler (WHRB-III)	64.9	62.3
5		Near Boiler (WHRB-IV)	66.2	62.8
6		Near Boiler (WHRB-V)	73.4	65.6
7		Near Boiler (WHRB-VI)	74.0	62.3
8		Near Boiler (WHRB-VII)	72.8	60.8
9		Near Boiler (WHRB VIII)	72.4	67.9
10		Near Boiler AFBC	61.6	59.4

Ambient Noise Level Standards

Area Code	Category of Area / Zone	Limits in dB(A) L_{eq}	
		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
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

(Authorized Signatory)

S.P.Pattanayak

Tech.Manager

END OF TEST REPORT

CIN - U73100OR1995PTC003889

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

Tel: +91-9437021932, +91-9937690329 , E-mail: ersbbsr@gmail.com

AMBIENT NOISE LEVEL MEASUREMENT REPORT

Date: 30 May 2023

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

Date of Measurement : 08.05.2023

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

Measurement taken in presence of : Representative of the Customer.

Sl. No.	Location		Result in dB (A) Leq	
			Day Time (6.00 A. M. – 10.00 P.M.)	Night Time (10.00 P.M. – 6.00 A.M.)
1	Ambient	Near Main Gate	61.4	53.9
2		Near Administrative Building	58.3	49.6
3		Near Store Room	73.9	69.1
4	Source Places (Stationary Sources)	Near Boiler (WHRB-III)	74.1	68.3
5		Near Boiler (WHRB-IV)	73.0	64.8
6		Near Boiler (WHRB-V)	72.8	65.9
7		Near Boiler (WHRB-VI)	70.6	66.7
8		Near Boiler (WHRB-VII)	73.6	65.4
9		Near Boiler (WHRB-VIII)	73.8	64.9
10		Near Boiler AFBC	70.3	68.0

Ambient Noise Level Standards

Area Code	Category of Area / Zone	Limits in dB(A) L_{eq}	
		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
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

(Authorized Signatory)

S.P.Pattanayak

Tech.Manager

END OF TEST REPORT

CIN - U73100OR1995PTC003889

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

Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

AMBIENT NOISE LEVEL MEASUREMENT REPORT

Date: 27 June 2023

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

Date of Measurement : 13.06.2023

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

Measurement taken in presence of : Representative of the Customer.

Sl. No.	Location		Result in dB (A) Leq	
			Day Time (6.00 A. M. – 10.00 P.M.)	Night Time (10.00 P.M. – 6.00 A.M.)
1	Ambient	Near Main Gate	54.8	42.3
2		Near Administrative Building	48.6	40.7
3		Near Store Room	58.9	52.6
4		Near Ferro Alloys Plant	44.8	34.9
5	Source Places (Stationary Sources)	Near Boiler (WHRB-I)	73.4	66.3
6		Near Boiler (WHRB-II)	72.4	60.8
7		Near Boiler (WHRB-III)	68.9	64.4
8		Near Boiler (WHRB- VII)	64.7	64.7
9		Near SMS	63.6	60.8
10		Near Boiler AFBC	69.2	62.0

Ambient Noise Level Standards

Area Code	Category of Area / Zone	Limits in dB(A) L_{eq}	
		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
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

(Authorized Signatory)

S.P.Pattanayak

Tech.Manager

CIN - U73100OR1995PTC003889

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
Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

AMBIENT NOISE LEVEL MEASUREMENT REPORT

Date: 24 July 2023

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

Date of Measurement : 05.07.2023

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

Measurement taken in presence of : Representative of the Customer.

Sl. No.	Location		Result in dB (A) Leq	
			Day Time (6.00 A. M. – 10.00 P.M.)	Night Time (10.00 P.M. – 6.00 A.M.)
1	Ambient	Near Main Gate	53.8	48.5
2		Near Administrative Building	57.3	52.4
3		Near Store Room	63.1	57.9
4		Near Ferro Alloys Plant	69.4	65.7
5	Source Places (Stationary Sources)	Near Boiler (WHRB-I)	67.4	64.6
6		Near Boiler (WHRB-II)	72.5	68.9
7		Near Boiler (WHRB-III)	73.4	69.0
8		Near Boiler (WHRB- VII)	74.4	69.8
9		Near SMS	68.8	64.3
10		Near Boiler AFBC	73.5	68.4

Ambient Noise Level Standards

Area Code	Category of Area / Zone	Limits in dB(A) L_{eq}	
		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
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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

CIN - U73100OR1995PTC003869

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
Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

AMBIENT NOISE LEVEL MEASUREMENT REPORT

Date: 06 SEPT 2023

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

Date of Measurement : 28.08.2023

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

Measurement taken in presence of : Representative of the Customer.

Sl. No.	Location		Result in dB (A) Leq	
			Day Time (6.00 A. M. – 10.00 P.M.)	Night Time (10.00 P.M. – 6.00 A.M.)
1	Ambient	Near Main Gate	51.4	43.7
2		Near Administrative Building	57.2	48.6
3		Near Store Room	80.8	76.2
4		Near Ferro Alloys Plant	74.8	70.7
5	Source Places (Stationary Sources)	Near Boiler (WHRB-I)	78.5	69.9
6		Near Boiler (WHRB-II)	79.1	76.3
7		Near Boiler (WHRB-III)	77.4	73.8
8		Near Boiler (WHRB- VII)	76.3	73.1
9		Near SMS	79.1	73.8
10		Near Boiler AFBC	69.9	68.3

Ambient Noise Level Standards

Area Code	Category of Area / Zone	Limits in dB(A) L_{eq}	
		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
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

ERSI PVT. LTD. BBSR

(Authorized Signatory)

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

CIN - U73100OR1995PTC003889

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

Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

AMBIENT NOISE LEVEL MEASUREMENT REPORT

Date: 25 SEPT 2023

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

Date of Measurement : 01.09.2023

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

Measurement taken in presence of : Representative of the Customer.

Sl. No.	Location		Result in dB (A) Leq	
			Day Time (6.00 A. M. – 10.00 P.M.)	Night Time (10.00 P.M. – 6.00 A.M.)
1	Ambient	Near Main Gate	50.2	42.3
2		Near Administrative Building	56.7	46.4
3		Near Store Room	60.7	59.8
4		Near Ferro Alloys Plant	65.7	61.2
5	Source Places (Stationary Sources)	Near Boiler (WHRB-I)	74.3	69.4
6		Near Boiler (WHRB-II)	72.0	69.4
7		Near Boiler (WHRB-III)	70.4	65.2
8		Near Boiler (WHRB- VII)	73.4	68.0
9		Near SMS	74.3	68.1
10		Near AFBC Boiler	74.2	67.6

Ambient Noise Level Standards

Area Code	Category of Area / Zone	Limits in dB(A) L_{eq}	
		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
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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

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

ANNEXURE-XXI

Form No. 31-A

HEALTH RECORD

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

Date: 19.07.23

1.	Name of the Factory	: **M S P Metallics Limited**
2.	Name of the Employee	: Birendra Ch. Podia.
3.	Employee Distinguishing Number	: MSP060825
4.	Age of the Employee	: 47
	Identification Mark	: Cut mark on forehead
	Nature of the Job	: Sr. Supervisor.
5.	Date of Employment	: 19.09.23
6.	Length of service in years	: Nil
7.	General Survey :	
	Health	: Good/Fair/Poor
	Height	: 68 Cms.
	Weight	: 74 Kg.
8.	Blood Group	: O+
9.	Eye Vision	: Normal / Abnormal
	Use of glass	: Yes / No
10.	Hearing	: Normal / Abnormal
11.	Respiratory System and Chest Measurement	
	Inspiration	: 90 Cms.
	Expiration	: 86 Cms.
	Respirationrate	: 18 /Min.
	Remarks, if any	: Nil
12.	Cardiovascular System	
	Pulse Rate	: 72 Min.
	B.P	: 120/80
	Heart Sound	: Normal
	Remarks, If any	: Nil
13.	Abdomen Tenderness	: Yes / No
14.	Nervous System	Nil
	History of Fits	: Yes/No
	Epilepsy	: Yes/No
	Remarks on Mental Health	: Good

15. Locomoter System : Normal/Abnormal
16. Skin Condition : Normal/Abnormal
17. Remarks on any Skin disease Noticed : N.A.
18. Hearnias : Present/Absent
19. Hydrocele : Present/Absent
20. Present Complain, if any : N.C.

21. Summary of Findings :
Heart disease :
Hypertension :
Diabetes :
T.B :
Epilepsy :
Poisoning :
Others :
Occupational disease, if any : NIL

22. Recommendation if, any for any Further investigation :

Birendra Kr. Prabhakar

Signature of the Employee

Signature of the Medical Officer
Regn. No.

K.K. POLYCLINIC PATHOLAB

M. 7326859479

Dr. S.K. KASHYAP
MBBS, PGDFM & DFID (CMC, VELLORE)
FAMILY MEDICINE SPECIALIST AND DIABETOLOGIST

ALL TYPES OF BIOCHEMICAL, HEMATOLOGICAL, URINE, STOOL, SEMEN TEST DONE HERE

Patient Name: ______________________ Age/Sex: ________ Date: ____________

Medical Fitness Certificate

This is to certify that Mr. Birendra Kumar Pradhan M 46 yrs. a resident of Rachabal Jharsuguda is examined by me on 04.7.2023 at 7:30pm at my clinic. He is found to be medically fit and free from any contagious disease.

He is declared medically fit to join the Beneficiation dept. He is not related to me and I wish him success.

Birendra Ku. Pradhan
Signature attested

Kashyap
04.7.23
Dr. S. K. Kashyap
Regd. No-15033 (O)
MEDICAL OFFICER
CHC-BRAJRAJNAGAR
JHARSUGUDA

Kashyap
04.7.2023
Dr. S. K. Kashyap
Regd. No-15033 (O)
MEDICAL OFFICER
CHC-BRAJRAJNAGAR
JHARSUGUDA

Valid up to..................

SUNDAY 2nd HALF CLOSED

H.NO.-19/12 "SHIVAJI MARG" MANGAL BAZAAR ROAD, P.O./DIST. JHARSUGUDA - 768 201 (ODISHA)

Genuine Medicines Available at

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 : 40750087252

Beneficiary Details

Beneficiary Name	**Birendra Kumar Pradhan**
Age	**46**
Gender	**Male**
ID Verified	**Aadhaar # XXXXXXXX1544**
Unique Health ID (UHID)	**17-2781-2215-7822**
Beneficiary Reference ID	**65154903097970**
Vaccination Status	**Fully Vaccinated (2 Doses) and a Precaution Dose**

Vaccination Details

Vaccinated By	**Sunita Nayak**
Vaccination At	**UPHC Panchpada**

Dose Number	Date of Dose	Vaccine Name	Batch Number	Vaccine Type	Manufacturer
1/2	03 Jun 2021	COVISHIELD	[illegible]	COVID-19 vaccine, non-replicating viral vector	Serum Institute of India
2/2	31 Aug 2021	COVISHIELD	[illegible]	COVID-19 vaccine, non-replicating viral vector	Serum Institute of India
Precaution dose	23 Jul 2022	COVISHIELD	[illegible]	COVID-19 vaccine, non-replicating viral vector	Serum Institute of India Pvt. Ltd.

Together, India will defeat COVID-19"

- Prime Minister Narendra Modi

In case of any adverse events, kindly contact the nearest Public Health Center/ Healthcare Worker/District Immunization Officer/State Helpline No. 1075

CoWIN

Form No. 31-A

HEALTH RECORD

(Pre-employment / Periodical)

[Prescribed under Rule 62-1]

Date 11/06/23

1.	Name of the Factory	: **M S P Metallics Limited**
2.	Name of the Employee	: Shankar Bagle
3.	Employee Distinguishing Number	: MPL 6231
4.	Age of the Employee	: 29
	Identification Mark	: A cut mark on left hand.
	Nature of the Job	: SMS operator
5.	Date of Employment	: 14/06/23
6.	Length of service in years	: Nil
7.	General Survey :	
	Health	: Good/Fair/Poor
	Height	: 165 Cms.
	Weight	: 50 Kg
8.	Blood Group	: A +ve
9.	Eye Vision	: Normal / Abnormal
	Use of glass	: Yes / No
10.	Hearing	: Normal / Abnormal
11.	Respiratory System and Chest Measurement	
	Inspiration	: 88 Cms.
	Expiration	: 83 Cms.
	Respirationrate	: 18 /Min.
	Remarks, if any	: Nil
12.	Cardiovascular System	
	Pulse Rate	: 82 Min.
	B.P	: 120/80
	Heart Sound	: Normal
	Remarks, If any	: Nil
13.	Abdomen Tenderness	: Yes / No
14.	Nervous System	Nil
	History of Fits	: Yes/No
	Epilepsy	: Yes/No
	Remarks on Mental Health	: Good

15. Locomoter System : Normal/Abnormal
16. Skin Condition : Normal/Abnormal
17. Remarks on any Skin disease Noticed : Nil
18. Hearnias : Present/Absent
19. Hydrocele : Present/Absent
20. Present Complain, if any Nil

21. Summary of Findings :
    Heart disease :
    Hypertension :
    Diabetes :
    T.B :
    Epilepay : Nil
    Poisoning :
    Others :
    Occupational disease, if any :

22. Recommendation if, any for any Further investigation :

Signature of the Employee

Signature of the Medical Officer
Regn. No. 0956

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 15872430484

Beneficiary Details

Beneficiary Name	**Shankar Barla**
Age	**29**
Gender	**Male**
ID Verified	**Aadhaar # XXXXXXXX9465**
Unique Health ID (UHID)	
Beneficiary Reference ID	**26474126567862**
Vaccination Status	**Fully Vaccinated (2 Doses) and a Precaution Dose**

Vaccination Details

Vaccinated By	**RINKI NAYAK**
Vaccination At	**Mobile Team U-1**

Dose Number	Date of Dose	Vaccine Name	Batch Number	Vaccine Type	Manufacturer
1/2	19 Aug 2021	COVISHIELD	[illegible]	COVID-19 vaccine, non-replicating viral vector	Serum Institute of India
2/2	05 Nov 2021	COVISHIELD	[illegible]	COVID-19 vaccine, non-replicating viral vector	Serum Institute of India Pvt. Ltd.
Precaution dose	06 Sep 2022	CORBEVAX	[illegible]	COVID-19 vaccine, virus protein subunit	Biological E. Limited

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- Prime Minister Narendra Modi

In case of any adverse events, kindly contact the nearest Public Health Center/ Healthcare Worker/District Immunization Officer/State Helpline No. 1075

Form No.31-A

HEALTH RECORD

Pre-employment / Periodical

[Prescribed under Rule62-1]

Sl. No.

Date: 10/06/23

1. Name of the Factory : M S P Metallics Limited
2. Name of the Employee : RAKESH KUMAR JAISWAL
3. Employee Distinguishing Number : MSP00616
4. Age of the Employee : 38
   Identification Mark : CUT MARK ON MY FORHEAD
   Nature of the job : MECH
5. Date of Employment : 10.06.2023
6. Length of Service in years : NIL
7. General Survey
   Health – : Good/Fair/Poor
   Height – 5'7" F : 173 Cms.
   Weight – 75 : 75 Kg.
8. Blood Group : (B+)
9. Eye Vision : Normal/Abnormal
   Use of glass : Yes/No
10. Hearing : Normal/Abnormal
11. Respiratory System and Chest Measurement
    Inspiration : 96 Cms.
    Expiration : 90 Cms.
    Respiration rate : 18 /Min.
    Remarks, If any : NIL
12. Cardiovascular System
    Pulse rate : 72 Min.
    B.P. : 130/80
    Heart Sound : NORMAL
    Remarks, If any : NIL
13. Abdomen Tenderness : Yes/No
14. Nervous System : NIL
    History of Fits : Yes/ No
    Epilepsy : Yes/ No
    Remarks on Mental Health : GOOD

Locomoter System	:	Normal/Abnormal
Skin Condition:		Normal/Abnormal
Remarks on any Skin Disease noticed	:	Nil
Hernias	:	Present/Absent
Hydrocele	:	Present/Absent
Present Complain ,If any	:	Nil

Summary of findings	:	
Heart Disease	:	
Hypertension	:	
Diabetes	:	
TB.	:	
Epilepsy	:	Nil
Hearing	:	
Others	:	
Occupation Disease, If any	:	

Recommendation ,if any for any further Investigation :

Signature of the Employee

Signature of the Medical Officer
Reg .No

Dr. C. Sahu
(Retd.)
Medical Officer
MSP Metallics Ltd.,
Mandhan, Raipur

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 : 27568173777

Beneficiary Details

Beneficiary Name	Rakesh Kumar
Age	38
Gender	Male
ID Verified	Aadhaar # XXXXXXXX3062
Unique Health ID (UHID)	
Beneficiary Reference ID	20331470431403
Vaccination Status	Fully Vaccinated (2 Doses) and a Precaution Dose

Vaccination Details

Vaccinated By	GITA GAYATRI PANDA
Vaccination At	DONGASIL PHC HQ

Dose Number	Date of Dose	Vaccine Name	Batch Number	Vaccine Type	Manufacturer
1/2	18 Jun 2021	COVISHIELD	[illegible]	COVID-19 vaccine, non-replicating viral vector	Serum Institute of India Pvt. Ltd.
2/2	11 Sep 2021	COVISHIELD	[illegible]	COVID-19 vaccine, non-replicating viral vector	Serum Institute of India Pvt. Ltd.
Precaution dose	27 Aug 2022	COVISHIELD	[illegible]	COVID-19 vaccine, non-replicating viral vector	Serum Institute of India Pvt. Ltd.

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- Prime Minister Narendra Modi

[illegible] Helpline No. 1075

CoWIN

Form No. 31-A

HEALTH RECORD

(Pre-employment / Periodical)

[Prescribed under Rule 62-I]

Date : 14/06/23

1.	Name of the Factory	: **M S P Metallics Limited**	
2.	Name of the Employee	: Mr. Sourav Sarkar	
3.	Employee Distinguishing Number	: MSP000769	
4.	Age of the Employee	: 25	
	Identification Mark	: A mole on L/S @ hand finger	
	Nature of the Job	: Supervision (Weigh Bridge)	
5.	Date of Employment	: 14/06/23	
6.	Length of service in years	: Nil	
7.	General Survey :		
	Health	: ✓ Good/Fair/Poor	
	Height	: 168	Cms.
	Weight	: 83	Kg.
8.	Blood Group	: B +ve	
9.	Eye Vision	: ✓ Normal / Abnormal	
	Use of glass	: Yes / No	
10.	Hearing	: Normal / Abnormal	
11.	Respiratory System and Chest Measurement		
	Inspiration	: 94	Cms.
	Expiration	: 88	Cms.
	Respirationrate	: 17	/Min.
	Remarks, if any	: Nil	
12.	Cardiovascular System		
	Pulse Rate	: 92	Min.
	B.P	: 120/80	
	Heart Sound	: Normal	
	Remarks, If any	: Nil	
13.	Abdomen Tenderness	: Yes / No ✓	
14.	Nervous System	Nil	
	History of Fits	: Yes/No ✓	
	Epilepsy	: Yes/No ✓	
	Remarks on Mental Health	: Good	

15. Locomoter System : Normal/Abnormal
16. Skin Condition : Normal/Abnormal
17. Remarks on any Skin disease Noticed : NIL
18. Hearnias : Present/Absent
19. Hydrocele : Present/Absent
20. Present Complain, if any NIL

21. Summary of Findings :
    Heart disease :
    Hypertension :
    Diabetes :
    T.B :
    Epilepsy :
    Poisoning : NIL
    Others :
    Occupational disease, if any :

22. Recommendation if, any for any Further investigation :

Signature of the Employee

Signature of the Medical Officer
Regn. No. 6956

+91 79786 84808 ~Ovi
today at 17:45

Certificate for COVID-19 Vaccination

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Form No. 31-A

HEALTH RECORD

(Pre-employment / Periodical)

[Prescribed under Rule 62-1]

Sl. No. Date :

1.	Name of the Factory	: **M S P Metallics Limited**
2.	Name of the Employee	: Kaka Kumar Das
3.	Employee Distinguishing Number	: GSPL 6896
4.	Age of the Employee	: 21 yrs
	Identification Mark	: one black mole chest
	Nature of the Job	: Loader operator
5.	Date of Employment	: 19/06/23
6.	Length of service in years	:
7.	General Survey :	
	Health	: Good/Fair/Poor
	Height	: 160 Cms.
	Weight	: 65 Kg.
8.	Blood Group	: B+ve
9.	Eye Vision	: Normal / Abnormal
	Use of glass	: Yes / No
10.	Hearing	: Normal / Abnrmal
11.	Respiratory System and Chest Measurement	
	Inspiration	: 36 Cms.
	Expiration	: 31 Cms.
	Respirationrate	: 18 /Min.
	Remarks, if any	: nil
12.	Cardiovascular System	
	Pulse Rate	: 72 Min.
	B.P	: 120/80
	Heart Sound	: observed
	Remarks, If any	:
13.	Abdomen Tenderness	: Yes / No
14.	Nervous System	
	History of Fits	: Yes/No
	Epilepsy	: Yes/No
	Remarks on Mental Health	: good

15. Locomoter System : Normal/Abnormal
16. Skin Condition : Normal/Abnormal
17. Remarks on any Skin disease Noticed : N.T.
18. Hearnias : Present/Absent
19. Hydrocele : Present/Absent
20. Present Complain, if any N.T.

21. Summary of Findings :
    Heart disease :
    Hypertension :
    Diabetes :
    T.B :
    Epilepsy :
    Poisoning :
    Others :
    Occupational disease, if any :

NIL

22. Recommendation if, any for any Further investigation :

Kapil Kumar Deo
Signature of the Employee

Signature of the Medical Officer
Regn. No:

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: [illegible]

Beneficiary Details

Beneficiary Name / [illegible]	Kapil Kumar Deo
Age / [illegible]	20
Gender / [illegible]	Male
ID Verified / [illegible]	Aadhaar # XXXXXXXX2889
Unique Health ID (UHID)	
Beneficiary Reference ID	26474967276374
Vaccination Status / [illegible]	Fully Vaccinated (2 Doses) and a Precaution Dose

Vaccination Details

Vaccinated By / [illegible]	Dileswari Gardia
Vaccination At / [illegible]	Sahaspur CVC, Jharsuguda, Odisha

Dose Number [illegible]	Date of Dose [illegible]	Vaccine Name [illegible]	Batch Number [illegible]	Vaccine Type [illegible]	Manufacturer [illegible]
1/2	28 Jun 2021	COVISHIELD	[illegible]	COVID-19 vaccine, non-replicating viral vector	Serum Institute of India
2/2	04 Oct 2021	COVISHIELD	[illegible]	COVID-19 vaccine, non-replicating viral vector	Serum Institute of India Pvt. Ltd.
Precaution dose	30 Jul 2022	COVISHIELD	[illegible]	COVID-19 vaccine, non-replicating viral vector	Serum Institute of India Pvt. Ltd.

"[illegible]
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- [illegible]

In case of any adverse events, kindly contact the nearest Public Health Center/ Healthcare Worker/District Immunization Officer/State Helpline No. 1075

[illegible]

CoWIN

FromNo.31-A

HEALTHRECORD

Pre-employment / Periodical

[PrescribedunderRule62-1]

Sl.No. Date:_____

1.	Name of the Factory	: M S P Metallics Limited	
2.	Name of the Employee	: Intaraz Mulla	
3.	Employee Distinguishing Number	: MSP00732	
4.	Age of the Employee	: 40cp	
	Identification Mark	: one to black mole on face	
	Nature of the job	: MSP Rural Systems	
5.	Date of Employment	: 21.6.05	
6.	LengthofService inyears	:	
7.	General Survey		
	Health	: Good/Fair/Poor	
	Height	: 165	Cms.
	Weight	: 60	Kg.
8.	BloodGroup	: B+ve	
9.	Eye Vision	: Normal/Abnormal	
	Useofglass	: Yes/No	
10.	Hearing	: Normal/Abnormal	
11.	RespiratorySystemandChestMeasurement		
	Inspiration	: 87	Cms.
	Expiration	: 82	Cms.
	Respirationrate	: 18	/Min.
	Remarks,If any	: NAD	
12.	CardiovascularSystem		
	Pulserate	: 72	Min.
	B.P.	: 110/70	
	Heart Sound	: N-N	
	Remarks,If any	: - NAD	
13.	AbdomenTenderness	: Yes/No	
14.	NervousSystem	:	
	HistoryofFits	: Yes/No	
	Epilepsy	: Yes/No	
	RemarksonMentalHealth	: Good	

15. LocomoterSystem : Normal/Abnormal

16. SkinCondition: : Normal/Abnormal

17. RemarksonanySkinDiseasenoticed :

18. Hernias : Present/Absent

19. Hydrocele : Present/Absent

20. PresentComplain,ifany :

21. Summaryoffindings :

HeartDisease :

Hypertension :

Diabetes :

T.B. :

Epilepsy :

Poisoning :

Others :

OccupationDisease,ifany :

22. Recommendation,ifanyforanyfurther Investigation :

Signature of the Employee

Signature of the Medical Officer

Regn.No

Dr. Subhas Ch. Gorai
M.B.B.S. (Cal)
Speciality in Medicine & Gynae.

Mobile No.: 9434006071
7872332645
BISHNUPUR
Chamber Time Daily : 12-00 P.M. to 1-30 P.M.
7-00 P.M. to 8-30 P.M.
For Booking Call -9474489113

Name: Atanu Mukherjee Age: 41 yr Date: [illegible]

B.P.-

Pulse

Weight

Heart

Lungs

Adb.

P/O

R
This is to certify that Atanu Mukherjee S/o Bhaskar Mukherjee of vill Kankila, P.O. Bankura, P.S. Bankura, Dist. Bankura, was examined by me on 30/5/23 at 1-15 P.M. On careful examination I have found him fit physically fit and mentally able to join any physical or mental stress works. He is free from any Infectious or Contagious diseases.

Attested
Dated
30/5/23

[signature] 30/5
Dr. Subhas Ch. Gorai
M.B.B.S.(Kol)
Regd. No. [illegible]

Form No. 31-A

HEALTH RECORD

(Pre-employment / Periodical)

[Prescribed under Rule 62-1]

Date : 12/08/23

1.	Name of the Factory	: **M S P Metallics Limited**
2.	Name of the Employee	: Rajendra Meher
3.	Employee Distinguishing Number	: MSPL0765
4.	Age of the Employee	: 46 Yrs
	Identification Mark	: one black mole chest
	Nature of the Job	: Designation - manager
5.	Date of Employment	: 12/08/23
6.	Length of service in years	: Nil
7.	General Survey :	
	Health	: Good/Fair/Poor
	Height	: 165 Cms.
	Weight	: 65 Kg.
8.	Blood Group	: B+ve
9.	Eye Vision	: Normal / Abnormal
	Use of glass	: Yes / No
10.	Hearing	: Normal / Abnormal
11.	Respiratory System and Chest Measurement	
	Inspiration	: 92 Cms.
	Expiration	: 88 Cms.
	Respirationrate	: 19 /Min.
	Remarks, if any	: Nil
12.	Cardiovascular System	
	Pulse Rate	: 72 Min.
	B.P	: 120/80
	Heart Sound	: normal
	Remarks, If any	: Nil
13.	Abdomen Tenderness	: Yes / No
14.	Nervous System	nil
	History of Fits	: Yes/No
	Epilepsy	: Yes/No
	Remarks on Mental Health	: good

15. Locomoter System : Normal/Abnormal
16. Skin Condition : Normal/Abnormal
17. Remarks on any Skin disease Noticed : N-M
18. Hearnias : Present/Absent
19. Hydrocele : Present/Absent
20. Present Complain, if any N-M

21. Summary of Findings :
    Heart disease :
    Hypertension :
    Diabetes :
    T.B : N-M
    Epilepsy :
    Poisoning :
    Others :
    Occupational disease, if any :

22. Recommendation if, any for any Further investigation :

Signature of the Employee

Signature of the Medical Officer
Regn. No.
Dr. B. C. Sahu

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 : [illegible]

Beneficiary Details

Beneficiary Name / [illegible]	RABINANDAN MAHANTA
Age / [illegible]	44
Gender / [illegible]	Male
ID Verified / [illegible]	PAN Card # ARPPR6053G
Unique Health ID (UHID)	
Beneficiary Reference ID	32442711082760
Vaccination Status / [illegible]	Fully Vaccinated (2 Doses)

Vaccination Details

Vaccinated By / [illegible]	Ankita Vankor
Vaccination At / [illegible]	BHA ZANOR PHC, Bharuch, Gujarat

Dose Number	Date of Dose	Vaccine Name	Batch Number	Vaccine Type	Manufacturer
1/2	16 Aug 2021	COVAXIN	[illegible]	COVID-19 vaccine, inactivated virus	Bharat Biotech
2/2	28 Sep 2021	COVAXIN	[illegible]	COVID-19 vaccine, inactivated virus	Bharat Biotech

"દવા પણ, સાવધાની પણ
Together, India will defeat COVID-19"

- નરેન્દ્ર મોદી

In case of any adverse events, kindly contact the nearest Public Health Center/ Healthcare Worker/ District Immunisation Officer/ State Helpline No. 1075

[illegible]

COWIN
Winning Over COVID

This certificate can be verified by scanning the QR code at [illegible]

FromNo.31-A

HEALTH RECORD

Pre-employment / Periodical

[Prescribed under Rule62-1]

Sl. No. Date:_____

1.	Name of the Factory	: M S P Metallics Limited	
2.	Name of the Employee	: Rajkumar Mahanta	
3.	Employee Distinguishing Number	: MSP00280	
4.	Age of the Employee	: 30yrs	
	Identification Mark	: One black mole on face	
	Nature of the job	: Operator Weighbridge	
5.	Date of Employment	: 8/6/19	
6.	Length of Service in years	:	
7.	General Survey		
	Health	: Good/Fair/Poor	
	Height	: 165	Cms.
	Weight	: 60	Kg.
8.	Blood Group	: B+ve	
9.	Eye Vision	: Normal/Abnormal	
	Use of glass	: Yes/No	
10.	Hearing	: Normal/Abnormal	
11.	Respiratory System and Chest Measurement		
	Inspiration	: 82	Cms.
	Expiration	: 80	Cms.
	Respiration rate	: 18	/Min.
	Remarks, If any	: NIL	
12.	Cardiovascular System		
	Pulse rate	: 72	Min.
	B.P.	: 120/80	
	Heart Sound	: Normal	
	Remarks, If any	:	
13.	Abdomen Tenderness	: Yes/No	
14.	Nervous System	:	
	History of Fits	: Yes/ No	
	Epilepsy	: Yes/ No	
	Remarks on Mental Health	: Good	

15. Locomoter System : Normal/Abnormal

16. Skin Condition: Normal/Abnormal

17. Remarks on any Skin Disease noticed : N-A

18. Hernias : Present/Absent

19. Hydrocele : Present/Absent

20. Present Complain ,If any : N-A

21. Summary of findings :

Heart Disease :

Hypertension :

Diabetes :

T.B. :

Epilepsy :

Poisoning :

Others :

Occupation Disease, If any :

N-A

22. Recommendation ,if any for any further Investigation :

Signature of the Employee

Signature of the Medical Officer

Reg .No

Medical Officer
MSP Metallics Ltd.
Kuraloor, Tharangada

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 : 435483371147

Beneficiary Details

Beneficiary Name / [illegible]	Ratikanta Mahanta
Age / [illegible]	28
Gender / [illegible]	Male
ID Verified / [illegible]	Aadhaar # XXXXXXXX6877
Unique Health ID (UHID)	
Beneficiary Reference ID	97529468325490
Vaccination Status / [illegible]	Fully Vaccinated (2 Doses)

Vaccination Details

Vaccinated By / [illegible]	Shantilata Mahanta
Vaccination At / [illegible]	Bankia HS Rangamatia Champua, Kendujhar, Odisha

Dose Number [illegible]	Date of Dose [illegible]	Vaccine Name [illegible]	Batch Number [illegible]	Vaccine Type [illegible]	Manufacturer [illegible]
1/2	28 Jun 2021	COVISHIELD	4121Z169	COVID-19 vaccine, non-replicating viral vector	[illegible] Institute of India
2/2	25 Sep 2021	COVISHIELD	4121MA011M	COVID-19 vaccine, non-replicating viral vector	[illegible] Institute of India

"[illegible]
Together, India will defeat COVID-19"
– [illegible]

[illegible] Helpline No. 1075

[illegible]

ANNEXURE-XXII

EC Conditions Six Monthly Compliance Report

(by Project Proponent)

Proposal No : IA/OR/IND/5326/2009

1. Name of the Entity / Corporate Office :

2. Proponent Details :

Proponent Name :	ABHAY GUPTA	**Designation :**	-1
Telephone No :	-	**Mobile No :**	+91 9093654506
Fax No :	-	**Email Address :**	mspmetallicsltdworks@gmail.com
Website :	-1	**Pin Code :**	700001
State :	West Bengal	**District :**	Kolkata
Village/Town :			

3. Compliance Letter/Report (Proponent):

4. Summary Status of Compliance :

Total Condition :	43		
Complied :	9	**Being Complied :**	20
Not Complied :	0	**Partially Complied :**	0
Agreed to Comply :	14		

5. Details of Production and Project Area :

6. Specific Conditions (Proponent) :

S.No	Condition	Self Declaration	Remarks / Reason	Supporting Documents	Observation of IRO
1	The water consumption should not exceed 16 m3/Ton of Steel as per prescribed standard.	Agreed to Comply	We abide by the said norms.	N/A	
2	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 secured landfill as per CPCB guidelines.	Agreed to Comply	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.	N/A	

3	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.	Complied	For the existing operational project, an area 34.72 Hectares (85.8 Acres) i.e. 33% of total plant area 105.218 Hectares (260 Acres) has been earmarked and developed as greenbelt	N/A	
4	Hot gases from DRI kiln shall be passed through Dust Settling Chamber (DSC) to remove coarse solids and After Burning Chamber (ABC) to burn CO completely and used in waste heat recovery boiler (WHRB). The gas then shall be cleaned in ESP before leaving out into the atmosphere through ID fan and stack. Electrostatic Precipitator (ESP) shall be provided to DRI plant, WHRB and FBB boilers to control air emissions within 100 mg/Nm3.	Being Complied	Flue gas emission analysis report for the period of October 2022 to March 2023 is attached.		
5	Prior permission for the drawl of 10,271 m3/day water from IB River from the concerned department shall be obtained.	Complied	Application for revalidation of the same has been submitted to department of water resources and is in progress.	N/A	
6	A time bound action plan shall be submitted to reduce solid Waste, its proper utilization and disposal.	Being Complied	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.	N/A	
7	Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted. On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks and sufficient air pollution control devices shall be provided to keep the emission levels below 100 mg/Nm3. At no time, the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission l	Being Complied	Various steps have been taken to reduce RSPM level. Please refer attached Compliance report.	N/A	
8	In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive dust emission from	Being Complied	Various in-plant control measures have been taken for checking fugitive	N/A	

	raw material and 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 be provided at raw material stockpiles and loading/ unloading points. Fume extraction		emissions. Please refer attached compliance report.		
9	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.	Being Complied	Utilization of fly ash will be ensured as per Fly Ash Notification, 1999 and amendments. All the fly ash shall be disposed at designated place inside the Plant premises & to cement & brick making.	N/A	
10	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.	Being Complied	Copy of the ground water monitoring is attached.		
11	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.	Agreed to Comply	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.	N/A	
12	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	Complied.	N/A	
13	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 /	Agreed to Comply	Flue gas emission analysis report carried out by NABL accredited laboratory is enclosed.		

	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.				
14	As proposed, total water requirement from IB River shall not exceed 10,271 m3/day. Ground water requirement shall not exceed the limit permitted by the CGWA vide letter No. 21-4 (51)/SER/CGWA/07-262 dated 7th May, 2007. Closed-circuit re-circulation system shall be installed to reduce fresh water consumption and no wastewater generation. Water from ash dyke shall be decanted and collected in the reservoir and re-circulated/reused for ash handling and coal dust suppression in coal yard. Acidic an	Being Complied	No wastewater is discharged outside the Premises and zero effluent discharge is ensured.	N/A	
15	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 (STP) shall be used as compost. Oily waste shall be provided to Authorized Cyclers/Re-processors.	Agreed to Comply	Waste from DRI & Iron ore fines, coke breezes, sinter dust, GCP dust, SMS dust, are and will be used in sinter plant.	N/A	
16	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	Being Complied	? AFBC plant of capacity of 16 MW has already been installed and dolo-char is used in AFBC Boiler.	N/A	
17	All the commitments made to the public during the Public Hearing/Public Consultation meeting held on 7th November 2008 shall be satisfactorily implemented.	Complied	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 REAC (industry) held on 28th-29th August 2014.	N/A	

18	Gas cleaning plant comprising of bag filters and cyclones shall be provided to blast furnace (BF). Fume extraction system with bag filters shall be provided to induction furnace and ladle refining furnace to control fugitive emissions. Dust extraction system along with ESP and multi-cyclones shall be provided to pellet plant. ESP and bag filters shall be provided to sinter plant. Fume extraction system followed by a stack shall be provided to continuous casting machine. Bag filters and dust supp	Complied	Adequate capacity APCD has been provided in concerned units.	N/A	
19	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.	Agreed to Comply	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.	N/A	
20	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Sector shall be implemented.	Being Complied	The technology, guidelines and recommendations made for Steel Plants in the CREP guidelines are being/will be implemented.		
21	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Agreed to Comply	Agreed and noted for compliance.	N/A	

7. General Conditions (Proponent) :

S.No	Condition	Self Declaration	Remarks / Reason	Supporting Documents	Observation of IRO
1	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 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	Complied	It has already been published in Odia Daily “Pragatibadi” and English Daily “The Pioneer” on dated 01.09.2009.	N/A	
2	The Regional Office of this Ministry at Bhubaneswar/CPCB/ OPCB	Being Complied	Please refer our letter no. MSPML/IRO-	N/A	

	shall monitor the stipulated conditions. A six-monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.		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.		
3	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.	Being Complied	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.	N/A	
4	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	Complied.	N/A	
5	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.	Being Complied	In-plant control measures taken for checking fugitive emissions has been provided in Point no. i & iv of specific condition of attached compliance report.	N/A	
6	The project authorities must strictly adhere to the stipulations made by the Orissa Pollution Control Board (OPCB) and the State Government.	Being Complied	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.	N/A	
7	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Being Complied	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.		
8	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.	Being Complied	The treated wastewater is being utilized for different purposes such as plantation, sprinkling on road & raw material yard etc. Wastewater analysis report attached.		
9	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office 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 monito	Agreed to Comply	We abide by the condition.	N/A	
10	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed to Comply	Agreed and noted.	N/A	
11	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Being Complied	We are slowly replacing the old Equipments and also overhauling the machineries as per the need. The abstract of Noise Level Measurement report for the period of October 2022 to March 2023 is attached		
12	At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO2 and NOX are anticipated in consultation with the OPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and OPCB, CPCB once in six months.	Agreed to Comply	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.		
13	The gaseous emissions from various process units shall conform to the load/mass	Agreed to Comply	We also ensure to conform the respective	N/A	

	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.		standards that to be specified by The Odisha State Pollution Control Board (OSPCB).		
14	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Complied	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.	N/A	
15	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 implemented.	Being Complied	All the environmental protection measures and safeguards as recommended in the EIA/EMP report has been/will be carried out in a time bond manner.	N/A	
16	The company shall develop rainwater-harvesting structures to harvest the rainwater for utilization in the lean season besides recharging the ground water table.	Complied	01 number of Rainwater harvesting systems with settling pond has been implemented to harvest rainwater and is utilized for sprinkling, plantation.	N/A	
17	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.	Being Complied	Adequate fund towards capital & recurring has been earmarked and the fund earmarked will not be diverted/ utilized for any other purposes.	N/A	
18	Any appeal against this Environmental Clearance shall lie with the National	Agreed to Comply	Noted.	N/A	

	Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act., 1997.				
19	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Being Complied	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 attached.		
20	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) 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.	Being Complied	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.	N/A	
21	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions	Agreed to Comply	Agreed and noted for compliance.	N/A	
22	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act. 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules, 2003 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.	Agreed to Comply	Noted.	N/A	

**Note : N/A - Not Available

PRINT

ANNEXURE-XXIII

MSP METALLICS LIMITED

Corporate Office: 16/5, Block - A, New Alipore, 2nd Floor, Kolkata - 700 053
Ph.: 91-033-4005 7777, 2457 0038 Fax : 91-033-2458 2239
Email: contactus@mspsteel.com, Web: www.mspsteel.com

O/C

September 14, 2009

To
The Regional Officer,
Sambalpur Region,
State Pollution Control Borad, Orissa,
Ainthapall Chaka,
Sambalpur, Orissa

Sub : Furnishing the copies of advertisement in two daily news papers (Oriya - Pragatibadi & English – The Pioneer) both dated 1st September'2009 as per Cl.- xiii of the letter of EC dt. 13.07.09.

Respected Sir,

Your goodself is aware that M/s. MSP Metallics Ltd. has obtained the Environmental Clearance from The Ministry of Environment & Forest, Govt. of India, vide its letter bearing F. No. J-11011/494/2007-IA II(I), dated 13.07.2009 required for contemplation of expansion of its integrated steel project at Marakuta, Jharsugda.

In compliance to the conditions envisaged under clause (xiii) of the said EC letter, we have advertised about the matter of our EC and the project in the daily Oriya news paper "PRAGATIBADI" & in one English daily "THE PIONEER" on dated 01.09.2009 for the knowledge of all concerned.

We have furnished herewith the clippings of two news papers dt. 01.09.2009 in original for your perusal, record and future reference.

Thanking you for doing the needful.

Yours faithfully,
For MSP Metallics Ltd.

P. K. Dey
Director

Encl : As stated above.

CC. to : 1) The Hon'ble Member Secretary,
State Pollution Control Board, Orissa,
A/118, Nilakantha Nagar, Unit – VIII,
Bhubaneswar – 7510112.
------ for your kind information & record please.

2) The Hon'ble Collector,
District: Jharsugda
Jharsugda, Orissa.

Vol.57 No.239 (Late City)

Bhubaneswar Tuesday, September 1, 2009

Rs 2.00 Postal Regd No. ORBH-[illegible]

PRAGATIVADI

ମେସର୍ସ ଏମ୍.ଏସ୍.ପି. ମେଟାଲିକ୍ସ ଲିମିଟେଡ୍
ଗ୍ରା/ ପୋ-ମାରାକୁଟା, ଜିଲ୍ଲା-ଝାରସୁଗୁଡା, ଓଡ଼ିଶା
ସାଧାରଣ ବିଜ୍ଞପ୍ତି

ଏତଦ୍ୱାରା ସର୍ବସାଧାରଣରେ ଜଣାଇ ଦିଆଯାଉଛି ଯେ, ମେସର୍ସ ଏମ୍.ଏସ୍.ପି. ମେଟାଲିକ୍ସ ଲିମିଟେଡ୍, ଗ୍ରାମ-ମାରାକୁଟା, ଜିଲ୍ଲା-ଝାରସୁଗୁଡା ଠାରେ ଅବସ୍ଥିତ ସମନ୍ୱିତ ଇସ୍ପାତ ପ୍ଲାଣ୍ଟର ସଂପ୍ରସାରଣ ଓ ଉତ୍ପାଦନ ବୃଦ୍ଧି ଉପଲକ୍ଷେ କେନ୍ଦ୍ରସରକାରଙ୍କର ଜଙ୍ଗଲ ଓ ପରିବେଶ ମନ୍ତ୍ରଣାଳୟ, ନୂଆଦିଲ୍ଲୀଙ୍କ ଠାରୁ ପରିବେଶୀୟ ଅନୁମୋଦନ (J-11011/ 494/2007-IAII(I), D.13.07.2009) ପ୍ରାପ୍ତ କରିଛି । ଏହି ଅନୁମୋଦନଟି ବାର୍ଷିକ ୧୦,୫୦,୦୦୦ଟନ୍ ସ୍ପଞ୍ଜ ଆଇରନ୍, ୧୦,୬୦,୦୦୦ଟନ୍ ପିଗ୍ ଆଇରନ୍, ୬,୦୦,୦୦୦ଟନ୍ ପେଲେଟ୍, ୪,୬୦,୦୦୦ଟନ୍ ସିଣ୍ଟର, ୧୦,୫୦,୦୦୦ଟନ୍ ଇସ୍ପାତ, [illegible]୫ ମେଗାୱାଟ୍ ନିଜସ୍ୱ ଉତ୍ପାଦିତ ବିଦ୍ୟୁତ୍, ୧୫,୦୦,୦୦୦ଟନ୍ ପରିଷ୍କୃତ କୋଇଲା ଏବଂ ୬,୦୦,୦୦୦ଟନ୍ କୋକ୍ ଓଭେନ୍ ଉତ୍ପାଦନ ନିମନ୍ତେ ପ୍ରଦାନ କରାଯାଇଛି । ଏହି ଅନୁମୋଦନର ଏକ ପ୍ରତିଲିପି ରାଜ୍ୟ ପରିବେଶ ପ୍ରଦୂଷଣ ନିୟନ୍ତ୍ରଣ ପରିଷଦ, ଭୁବନେଶ୍ୱରଙ୍କ ନିକଟରେ ଉପଲବ୍ଧ ହେବା ସହିତ କେନ୍ଦ୍ରସରକାରଙ୍କ ଜଙ୍ଗଲ ଓ ପରିବେଶ ମନ୍ତ୍ରଣାଳୟ, ନୂଆଦିଲ୍ଲୀ ୱେବ୍‌ସାଇଟ୍ http://envfor.nic.in ରେ ମଧ୍ୟ ଉପଲବ୍ଧ ହେଉଅଛି ।

ନିର୍ଦ୍ଦେଶକ

ମେସର୍ସ ଏମ୍.ଏସ୍.ପି. ମେଟାଲିକ୍ସ ଲିମିଟେଡ୍

the pioneer
145th Year | Published From | www.dailypioneer.com

MSP Metallics Ltd.

Vill & Po: Marakuta, Dist.: Jharsuguda

NOTICE

This is for the information of all concerned that **M/s. MSP Metallics Ltd.,** Jharsuguda have been accorded Environmental Clearance from the Ministry of Environment & Forest, new Delhi vide Let. No. J-11011/494/2007-IAII (I), Dtd. 13.07.2009 for the expansion of its integrated steel plant for production of 10,50,000 TPA Sponge Iron, 10,60,000 TPA Pig Iron, 6,00,000 TPA Pellet, 4,60,000 TPA Sinter, 10,50,000 TPA Steel, 85 MW Captive power, 15,00,000 TPA Washed Coal and 6,00,000 TPA Coke oven Batery at Vill-Marakuta, Dist-Jharsuguda, Orissa.

A copy of the said clearance is available with the State Pollution Control Board, Orissa, Bhubaneswar and also at the website of the Ministry of Environment & Forest, New Delhi at *http://envfor.nic.in*

Director
MSP Metallics Ltd.

ANNEXURE-XXIV

910

MSP SPONGE IRON LIMITED

SPONGE IRON DIVISION
Corporate Office: 16/S, Block - A, New Alipore, 2nd Floor, Kolkata - 700 053
Ph.: 91-033-4005 7777, 2457 0038 Fax : 91-033-2458 2239
Email: mspgroup@vsnl.com, contactus@mspsteel.com, Web: www.mspsteel.com

September 14, 2009

To
The Environmental Engineer,
State Pollution Control Borad, Orissa,
Paribesh Bhawan,
A/118, Nilakanthanagar, Unit – VII,
Bhubaneswar – 751012.

Sub : Display of copy of Environmental Clearance for 30 days for reference of public.

Respected Sir,

We refer to your memo no. 13377 dated 20.08.2009 addressed to Collector & District Magistrate, Jharsuguda, G.M., DIC, Jharsuguda and Regional Officer, SPC Board, Sambalpur on the subject with a copy endorsed to us wherein we have been advised to display the Environmental Clearance of MSP Metallics Ltd. obtained from MOEF, New Delhi by advertising in leading newspapers.

In this connection, we are to inform your authority that we have already published our advertisement in two leading daily newspapers "The Pioneer" in English and "Pragatibadi" in Oriya both dated 01.09.2009 and photocopy of said paper clippings has been submitted at the Sambalpur Regional office on 14.09.2009 with a copy endorsed to the Member Secretary, SPCB, Orissa. However, we once again enclose copy of these paper cuttings of the advertisement for your reference and record please.

Thanking you,

Yours faithfully,
For MSP Metallics Ltd.

P.K.Dey
Director

Encl. as stated above

STATE POLLUTION CONTROL BOARD Bhubaneswar 19/9/09

FAX : 2562522/2560955
Tel. : 2564033/2563924
EPABX : 2561903/2562947
E-mail : Paribesh@sancharnet.in
website : www.ospcboard.org

STATE POLLUTION CONTROL BOARD, ORISSA

[DEPARTMENT OF FOREST & ENVIRONMENT, GOVERNMENT OF ORISSA]
Paribesh Bhawan, A/118, Nilakenthanagar, Unit - VIII,
Bhubaneswar - 751 012, INDIA

No. IND-II-NOC-4732 Date

To

The Collector & District Magistrate, Jharsuguda
The General Manager, D.I.C. Jharsuguda,
The Regional Officer, SPC Board, Sambalpur

Sub : Display of copy of Environmental Clearance for 30 days for reference of public.

Ref : Letter of Ministry of Environment & Forest, Govt. of India, dt. 13-07-2009 regarding Environment Clearance granted to M/s. MSP Metallics Ltd., for expansion of Integrated Steel Plant located at Marakuta in the district of Jharsuguda (copy enclosed).

Sir,

In inviting a reference to the above, I am directed to intimate that as per the condition stipulated in Environmental Clearance grantad to the above industrial unit / mine, the copy of the said Environmental Clearance is required to be displayed at the premises of your office for a period of thirty days for reference of the general public.

It is therefore, requested to display the copy of above said Environmental Clearance at least for a period of thirty days in your office premises.

This is for information and necessary action.

Yours faithfully,

Encl : As above

Environmental Engineer- II

Received on 17/8/09

Memo No. 13377 /dtd. 20-8-05

Copy forwarded to M/s. MSP Metalliks Ltd., 16/5, Block- 'A', New Alipore, Kolkata – 53 for information and necessary action with a request to display advertisement in leading newspapers immediately as per general condition No. XIII of the Environmental Clearance for Mass Awareness under intimation to the Board.

Encl : As above

Environmental Engineer – II

Memo No. _____/dtd.

Copy to the Receptionist, Reception Counter, SPC Board, Bhubaneswar for information and necessary action. He is requested to display the copy of Environmental Clearance (enclosed) granted in favour of M/s. MSP Metalliks Ltd., At – Marakuta, Dist – Jharsuguda in office notice board for 30 (thirty) days for reference public.

Encl : As above

Environmental Engineer- II

Memo No. _____/dtd.

Copy alognwith enclosure forwarded to consent section (Mines) for information and necessary action.

Encl : As above

Environmental Engineer – II

OMPL ORISSA METALIKS PRIVATE LIMITED
Vill. & P.O.: Marakuta, Dist.: Jharsuguda, Pin-768202, Odisha
Ph.: 8093089903, Email : sc_ompl@orissametaliks.com, edoffice@mspsteelpg.com
CIN No. U27109WB2006PTC111146

OMPL/JSG/EC_TRANSFER/2023-24/7-G/057
27th October 2023

To,
The Regional Officer,
Regional Office, Jharsuguda,
State Pollution Control Board, Odisha,
District: Jharsuguda, Odisha - 768203

Sub: **Intimation for transfer of Environment Clearance "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, Odisha" from M/s MSP Metallics Limited to M/s Orissa Metaliks Private Limited**

Dear Sir,

With reference to the above mentioned subject, we would like to intimate your good office that the Environment Clearance accorded to M/s MSP Metallics Limited vide letter no. J-11011/494/2007-IA.II(I) dated 13/07/2009 & configuration change considered in 4th REAC meeting held on 27th October 2009 for "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, Odisha" has been transferred to M/s Orissa Metaliks Private Limited by Ministry of Environment, Forest and Climate Change, Government of India vide EC Identification No. EC23A1001OR5864822T & File No. J-11011/494/2007-IA.II(I) dated 23/10/2023 (Annexure-I).

Copy of Environment Clearance transfer letter is attached herewith for your kind information & record.

Thanking you,

Yours faithfully,
For **Orissa Metaliks Private Limited**
(Formerly MSP Metallics Limited)

27/10/23

Authorised Signatory

RECEIVED 27/10/23

Encl: As above

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

OMPL

ORISSA METALIKS PRIVATE LIMITED

Vill & P.O.: Marakuta, Dist: Jharsuguda, Pin-768202, Odisha
Ph: 8093589903, Email: sc_ompl@orissametaliks.com; edoffice@mspsteeljsg.com
CIN No: U27109WB2006PTC111146

OMPL/JSG/EC_TRANSFER/2023-24/7-G/056
27th October 2023

To,
The Collector & District Magistrate,
Office of the District Magistrate and Collector,
District: Jharsuguda, Odisha - 768204

Sub: **Intimation for transfer of Environment Clearance "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, Odisha" from M/s MSP Metallics Limited to M/s Orissa Metaliks Private Limited**

Dear Sir/Madam

With reference to the above mentioned subject, we would like to intimate your good office that the Environment Clearance accorded to M/s MSP Metallics Limited vide letter no. J-11011/494/2007-IA II(I) dated 13/07/2009 & configuration change considered in 4th REAC meeting held on 27th October 2009 for '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, Odisha' has been transferred to M/s Orissa Metaliks Private Limited by Ministry of Environment, Forest and Climate Change, Government of India vide EC Identification No. EC23A1001OR5664822T & File No. J-11011/494/2007-IA II(I) dated 23/10/2023 (Annexure-I).

Copy of Environment Clearance transfer letter is attached herewith for your kind information & record.

Thanking you.

Yours faithfully,
For Orissa Metaliks Private Limited
(Formerly MSP Metallics Limited)

27/10/23

Authorised Signatory

Encl: As above

RECEIPT SECTION
27 OCT 2023
DISTRI...

Received

ANNEXURE-XXV

MSP METALLICS LIMITED

Office : VIII. & P.O. Marakuta, Dist.Jharsuguda, PIN-768202, Odisha
Ph. 8393089903, E-mail:edoffice@mspsteeljsg.com
CIN No.U27109WB1996PLC082138

MSPML/JSG/OSPCB/2023-24/1-E/198
30th September 2023

To
The Member Secretary,
State Pollution Control Board, Odisha,
A/118, Nilakantha Nagar, Unit - VIII,
Bhubaneswar, Odisha - 751 012

Sub.: Submission of Environmental Statement in Form - V as prescribed under E (P) Rules, 1986 for the Financial Year 2022-2023

Ref.: 1. Consent Order vide letter no. 4427/IND-I-CON-5973 dated 22/03/2023
2. Consent Order vide letter no. 9461/IND-I-CON-5973 dated 13/06/2023

Dear Sir,

With reference to the above, we are submitting herewith the Environmental Statement in Form - V as prescribed under E (P) Rules, 1986 for the Financial Year 2022-2023 for your kind perusal and necessary action / record please.

Thanking you,

Yours faithfully,
For MSP Metallics Limited

J P Sharma
Executive Director (Works)

Copy to: The Regional Officer, State Pollution Control Board, Odisha, Regional Office, Jharsuguda, Odisha

Environmental Statement

For
The Financial Year
(2022-2023)

M/s MSP Metallics Limited.
At/PO: Marakuta,
Dist: Jharsuguda, Odisha- 768202

[FORM – V]

(See rule 14)

Environmental Statement for the Financial Year ending the 31st March, 2023

PART – A
General Information

(i) Name and Address of the Owner / : **Mr. J. P. Sharma,** Occupier
M/s MSP Metallics Limited
At/PO: Marakuta,
District: Jharsuguda.Odisha,
PIN Code: 768202

(ii) Industry category :
Primary (STC code)
Secondary (STC code)

Sl. No	Products	As per NIC Code 2008		
		Group	Class	Sub Class
1	Sponge Iron - DRI	241	2410	24102
2	Electric Power	351	3510	35102
3	Steel Billets	241	2410	24103
4	Iron Ore Pellet	241	2410	24109
5	Iron Ore Sinter	241	2410	24109
6	Coal Gas	-	-	-
7	Pig Iron /Hot Metal	241	2410	24101

(iii) **Production, Capacity, Units**

Sl. No	Products	Installed Capacity	Unit
1	Sponge Iron - DRI	2,40,000	TPA
2	Electric Power	WHRB: 8 AFBC : 16	MW MW
3	Steel Billets	1,07,700	TPA
4	Iron Ore Pellet	6,00,000	TPA
5	Iron Ore Sinter	4,60,000	TPA
6	Pig iron	1,88,000	TPA
7	Producer gas	8000	Nm3/hr

(iv) **Year of Establishment after taken over of the Plant through NCLT Process by the Present Management** :

Sl. No	Name of the Unit	Products	Date of Commercial Production
1	DRI Kilns	Sponge Iron	04/09/2022- 8th Kiln 12/09/2022- 7th Kiln 01/10/2022- 5th Kiln 10/10/2022- 6th Kiln 03/12/2022- 2nd Kiln 26/12/2022- 3rd Kiln 27/11/2022- 4th Kiln 27/01/2023- 1st Kiln
2	CPP	Electric Power	WHRB: 15/10/2022 AFBC: 01/12/2022
3	Steel Melting Shop	Steel Billets	26/11/2022
4	Pellet Plant	Iron Ore Pellet	30/01/2023

* Commercial production mentioned after taken over of the Plant through NCLT Process by the Present Management.

(v) Date of last Environmental Statement Submitted : 30/09/2022

PART – B
Water and Raw Material Consumption

(1) Water Consumption m^3/day.

Sl. No	Requirement Purpose	Water consumed m3/ day
i	Process	27
ii	Cooling	429.00
iii	Domestic	5.00
Total		**461.00**

Name of the Products	Process water consumption per unit of product output	
	During the previous Financial year (2021-2022)	During the current Financial year (2022-2023)
	(1)	(2)
Sponge Iron	NIL Plant was completely Shut down	Nil
Electric Power		2.5m3/MWh

Steel Billets		Nil
Iron Ore Pellet		Nil
Iron Ore Sinter		Nil
Producer Gas Plant		Nil

ii) Raw Material Consumption:

Name of raw Materials	Name of products	Consumption of raw material per unit of output	
		During the previous Financial year (2021-2022)	During the current Financial year (2022-2023)
Iron Ore Pellet or Sized Iron Ore	Sponge Iron	Plant was under Shut Down	Iron Ore Pellet or Sized Iron Ore : 1.536t/t
Raw Coal			1.026t/t
Dolomite			0.058t/t
Coal	16 MW AFBC Power	Plant was under Shut Down	0.346 t/MW
Char Coal			1.118 t/MW
Sponge Iron	Steel Billets	Plant was under Shut Down	0.781t/t
Pig Iron			0.083 t/t
Scrap			0.323 t/t
Ferro Alloys			0.001 t/t
Iron Ore	Iron Ore Pellet	Plant was under Shut Down	1.151 t/t
PCI Coal			0.022 t/t
Mill Scale			0.007 t/t
Lime Stone			0.008 t/t
Coke Fines			0.024 t/t
Bentonite			0.008t/t

PART – C

Pollution discharged to environment / unit of output

(Parameter as specified in the consent issued)

Consideration: Final Output of 5291.00 Metric Ton of Steel Billets with 40 Days of Plant operation.

1) Pollutants	Quantity of pollutants discharged (mass/day)	Concentrations of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with

			reasons
a) Water	No Polluted Water being discharged from the Factory Premises	Not Applicable	Not Applicable
b) Air i. PM	392.8667907 kg.day	36.67 mg/NM3	No Variation

PART – D
Hazardous Wastes
(As specified under Hazardous Waste Management and Handling Rules, 1989)

As per the Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008, the following wastes were identified and he Hazardous Waste Authorization was issued by OSPCB vide letter no. IND-IV-HW-987/18754 dated 10/11/2014

Sl. No	Waste Description	Schedule	Waste Stream	Quantity /Annum
1	Used Oil	I	5.1	5.00 KL
2	Waste Containing Oil	I	5.2	1.00 T
3	Flue gas Cleaning Residue	I	34.1	30.00 Kg
4	Spent Resin	I	35.2	-

Quantities Generated:

Sl. No	Source From	Total Quantity Produced (in Kg./KL)	
	(1) From Process	**During the previous Financial Year (2021-2022)**	**During the Current Financial Year (2022-2023)**
1	Used Oil	The Plant was under shut down and was under previous management. The Left Over quantity by the previous management is as under Used Oil : 20,000 KL Spent Resin : 0.02 KL	2.574 KL
2	Waste Containing Oil		521.5 Kg
3	Flue gas Cleaning Residue		Nil
4	Spent Resin		Nil
	(2) From Pollution Control facilities	The Plant was under shut down and was under previous management.	Nil

PART – E

Solid Wastes

		Type of Solid Waste	Total Quantity in Metric Ton	
			During the previous Financial Year (2021-2022)	During the Current Financial Year (2022-2023)
a)	**From Process**	Slag from Induction Furnace	The Plant was under shut down and was under previous management.	25 TPD
		Fly Ash and Bottom Ash of CPP		140 TPD
b)	**From Pollution Control facility**	Dolochar & Dust from APC Devises		160 TPD
c)-1	**Quantity recycled or re-utilized within the unit**	Dolochar re- used in AFBC boiler		150 TPD
c)-2	**Sold**	-		Nil
c)-3	**Disposed**	Fly Ash and Bottom Ash of CPP		140 TPD
		Slag from Induction Furnace		25 TPD
		Dust from APC Devises		10 TPD

PART – F

Please specify the characterizations (in terms of composition of quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

Hazardous Waste: Used Oil, Wastes Containing Oil, Flue gas Cleaning Residue and Spent Resins are the main Hazardous Waste was generated in MSP Metallics Limited, Jharsuguda by the previous management.

The present management has constructed RCC flooring with covered shed for storage of those Hazardous wastes inside the Plant Premises. The location of Hazardous Storage area is at an adequate distance from the Human habitation.

Mode of Secured Storage:

Used oil: Stored in impervious containers / barrels and stored under well ventilated covered shade having RCC flooring and facilities of oil trap.

Wastes containing oil: Oily Waste, Oily Cotton are stored separately in MS or PVC Barrel with Lid which is impervious in nature under covered shade.

Spent resin: Stored inside a well ventilated impervious pit inside the factory Premises.

Solid Waste Management:

- **Dolochar & dust from APC devices** : Dumped at designated dump site inside premises (Recycled)
- **Fly and Bottom Ash of CPP**: Supplying to the bricks manufacturing unit inside the plant.
- **Slag from Induction Furnace:** To be used for Road construction / land leveling, Paver Block making after recovering metal from Slag.
- **Dust from APC devices of Pellet Plant**: To be completely reused in the Pellet Making.
- **Dust from APC devices of Sinter Plant**: To be completely reused in the Sinter Making.

PART – G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production

Air Pollution Control Measure along with Fugitive Emission Management:

- 04 (Four) numbers of ESPs i.e. ESP No.1, ESP No.2, ESP No.3 and ESP No.4 have been installed at DRI Kiln No. I & II, DRI Kiln No. III & IV, DRI Kiln No. V & VI and DRI Kiln No. VII & VIII respectively. The heights of the stacks are 45 meters each.
- 11 (Eleven) numbers of common Bag Filters are attached to DRI Kiln I, II, III, IV, V, VI, VII and VIII to handle dust emission from Iron Ore Crusher, Iron Ore Circuit, Coal Circuit, Coal Crusher, Stock House (D-Bin), I-Bin, Cooler Discharge and Product House.
- 01 (One) ESP has been attached to AFBC Boiler of 16 MW (CPP) and the height of the Stack is 77 meters.
- 01 (One) Stack attached to Bag Filter with Swiveling Hood of Induction Furnace (2 X 30 T/H) and the height of the Stack is 25 meters. Swevling Smoke Hood has been provided in Induction Furnace.
- 01 (One) number of Stack of 50 meters height is attached to Multi Cyclone of Sintering Process of Sinter Plant.
- 01 (One) number of Bag Filter of capacity 65,000 NM^3 per Hr attached at Flux area of Sinter Plant.
- 01 (One) Bag Filter of Capacity 1,10,000 NM^3 per Hr attached at Sinter Discharge End.
- 01 (One) ESP connected to Rotary Drum of Pellet Plant with Adequately high Stack of 52 Mtrs.
- 01 (One) Bag Filter at Coal Pulverizing Unit with Stack height of 24 Mtrs.
- Multi cyclone connected to PH-1 and PH-2 of Travelling Grate of Pellet Plant.
- 04 (Four) numbers of rain gun type sprinklers with a range of 50m at coal stock yard and iron ore stock yard to control fugitive emission
- 75 nos. of fixed rotary type sprinklers for dust suppression at raw material stock yard and internal roads
- Fog mist Canon System is available.
- 33% of the total plant area has already been developed as a greenbelt. However, the 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.

- 04 nos of Online Ambient Air Quality monitoring System have been reached at Plant and installation work is in progress. (Beta Attenuation)
- 07 nos. of Online Continuous emission monitoring system (CEMS) have been installed as per the guideline of CPCB.
- Continuous stack monitoring facilities PM & Gases for all the stacks of operating units have been installed as per CPCB Guidelines.
- 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 of 12 KL.

Effluent Generation and Management System

The Effluent Treatment Plant of the said project is mainly for treatment of DM Plant regeneration water, Boiler Blow Down and Cooling Tower Blow Down. Generation of waste water from those sources is to the tune of 410 M3 / Hr. ETP of capacity 1000 M3/day has been provided. All these plants are operating 100 % Re-Circulation method.

Thus there is no waste water generated for Discharge due to following reasons:

- Water is used for re-circulation for cooling purposes at DRI, SMS, CPP (WHRB & AFBC).
- Water is used for Boiler feed Make up.
- Waste water generated during DM Plant regeneration, Cooling Tower Blow Down, Auxiliary Blow Down and Boiler Blow Down are treated in ETP (Neutralization Pit).
- Neutralization Pit is provided at the DM Plant. It is mainly for pH correction of the waste water.
- This water after treatment is used for de-dusting, Fire Fighting and for irrigating plantation areas.
- Waste Water from Potable Use is being treated by Septic Tank and Soak Pit as per BIS Specification
- The cooling water will be completely recycled and will not be discharged to outside under no circumstances. Periodical discharge or the blow down of the cooling tower will be taken for use in dust suppression.
- Efforts is made to reuse the effluent generated after adequate treatment.
- Runoff water during the rainy season from the surrounding plant area, storage yard will be collected in drains and treated in the Sedimentation Tank before being discharged to outside in case required.
- 01 number of Rainwater harvesting systems with settling pond has been implemented to harvest rainwater and is utilized for sprinkling, plantation.
- Additional Permanent High Pressure Water Sprinkling System will be installed for regular spraying of water on roads to minimize fugitive dust emission.

PART – H

Additional measures/investment proposal for environmental protection including abatement of pollution, prevention of pollution

1. Installation of telescopic chutes at all the silos to control the fugitive emission during discharging of the materials has been completed.
2. Installation of Dry Fog System at ground hoppers to control fugitive emission during charging of the raw materials has been completed.
3. Installation of Sewage Treatment Plant (STP) is under progress for treatment of domestic effluent generated from canteen and office building.
4. The industry has provided mechanized wheel washing systems along with effluent treatment and recycling facilities for the raw material / product / solid waste transport vehicles at the exit point of the industry.
5. Industry has installed HD IP (Internet Protocol) Surveillance cameras.
6. Plantation of 8000 trees is in progress inside the plant.
7. Development of infrastructure for storage of raw material (iron ore) under the shed with mechanized handling facility.

PART – I

Any other particulars for improving the quality of the environment

Celebration of World Environment Day for environmental awareness among employees and contract workmen within the plant premises.

Date: 30/09/2023

Signature of the Owner/Occupier of the Industry (With seal)

ANNEXURE-XXVI

Tel : 2564033/2563924
EPBX : 2561909/2562847
Email :paribesh1@ospcboard.org
Website : www.ospcboard.org

STATE POLLUTION CONTROL BOARD, ODISHA

[DEPARTMENT OF FOREST, ENVIRONMENT & CLIMATE CHANGE, GOVERNMENT OF ODISHA]
Paribesh Bhawan, A/118, Nilakanthanagar, Unit-VIII,
Bhubaneswar 751012

No 18061 /IND-I-CON - 5973 Dt 16.11.2023

AMENDMENT

In pursuance to submission of the order of Hon'ble National Company Law Tribunal, Kolkata dated 18.08.2023, Copy of Transfer of Environmental Clearance, Certified true copy of the Board Resolution passed by the Board of Directors, Certificate of Incorporation, Memorandum of Association & Affidavit and representation by the unit vide Letter No. OMPL/JSG/2023-24/1-E/035 dtd. 10.10.2023, the name of the industry is hereby changed from **M/s. MSP Metallics Limited, At - Marakuta, Dist-Jharsuguda-768202 to M/s. Orissa Metaliks Private Limited, At - Marakuta, Dist-Jharsuguda-768202** prospectively in Consent to Operate order without any change in other terms and conditions of the Consent to Operate orders issued vide this office letter No. 9461, dtd. 13.06.2023.

16/11/23

MEMBER SECRETARY

To

The Director,
M/s. Orissa Metaliks Private Limited,
(Formerly M/s. MSP Metallics Limited),
At/PO-Marakuta,
Dist-Jharsuguda, Pin- 768202

Memo No. 18062 /Dt. 16.11.2023

Copy forwarded to

i) Regional Officer, State Pollution Control Board, **Jharsuguda**
ii) District Collector , **Jharsuguda**
iii) Director of Mines, Odisha, Bhubaneswar
iv) Director Factories & Boiler, Bhubaneswar
v) DFO, **Jharsuguda**
vi) Consent Register

16/11/23

CHIEF ENV. ENGINEER