

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 <monitoringec@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



CIN: U27109WB2006WPTC111146

www.orissameraliks.com

🖀 +91-33-2243 8517-20 📫 +91-33-2243 8517 🗳 sc_ompl@orissametaliks.com

METALIKS PRIVA

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. EC23A10010R5864822T).

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)

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

- (December 1st 2023) Compliance status report along with Encl.: Six Monthly annexures
- 1. The Central Pollution Control Board, Zonal Office, Southern Conclave, Block CC: -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

CORPORATE ADDRESS: Premlata Building, 39, Shakespeare Sarani, 6" Floor, Room No.: 3 & 4, Kolkata - 700 017

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.
- 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.			











View Compliance Report at Project Proponent

		-	
Proposal No Proposal Name	IA/OR/IND/24581/2009 Expansion of integr	Category ated steel plant (Sponge I	Industrial Projects - 1
	(10,60,000 TPA); Pel Captive Power Plan Battery (6,00,000 TF	let Plant (6,00,000 TPA); S t (85 MW); Coal Washery (PA) at Village - Marakuta, I	teel Melting Shop (10,50,000 TPA); (15,00,000 TPA) and Coke oven District Jharsuguda, Odisha
Plot / Survey/ Kl No.	hasra	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
overing Letter			
Covering Letter	<u>Click to View</u>		
ompliance Rep	orting 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		
etails of Produ	ction and Project Area		
Date of	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 Documents	e,Remarks/Reason and Supporting
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

2 AIR QUALITY MONITORING AND PRESERVATION AND PRESERVATION AND PRESERVATION AND PRESERVATION ATter Burning Chamber (ABC) to remove coarse solids 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		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: <u>Click to View</u>	
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	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	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: <u>Click to View</u>	

		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: <u>Click to View</u>
5	ENERGY PRESERVATION MEASURES	All the standards prescribed for the coke oven plants shall be followed as per the latest	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

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.		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: <u>Click to View</u>
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 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		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: <u>Click to View</u>
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: <u>Click to View</u>
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	PPs Submission	Is being complied with. Copy of the ground water monitoring is attached. Being Complied Attachment: <u>Click to View</u>
		Regional Office at Bhubaneswar, CPCB and OPCB.		
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	AFBC plant shall be	PPs Submission	? AFBC plant of capacity of 16 MW
	MANAGEMENT	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,		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: <u>Click to View</u>
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: <u>Click to View</u>
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

				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: <u>Click to View</u>
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	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: <u>Click to View</u>
		Office at Bhubaneswar.		
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: <u>Click to View</u>
19	Corporate Environmental Responsibility	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Sector shall	PPs Submission	The technology, guidelines and recommendations made for Steel Plants in the CREP guidelines are being/will be implemented. Being Complied Attachment: <u>Click to View</u>
		be implemented.		
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 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	PPs Submission	Complied. Complied Attachment: NA
		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

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

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: <u>Click to View</u>
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/N 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: <u>Click to View</u>
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 fro 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: <u>Click to View</u>

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 Engenerating machines to reduce the amoworkplace or environment. ? Damping of 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 202: Being Complied Attachment: <u>Click to View</u>
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: <u>Click to View</u>
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 environr safeguards as recommended in the EIA, the EC as well as socio-economic devel- 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	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
		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.		
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 con monitored data is being submitted regu the Ministry at Bhubaneswar/CPCB/OSF compliance report for the period of Oct submitted vide letter no. MSPML/IRO-N 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: <u>Click to View</u>
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 published and English Daily ?The Pioneer? on date Complied Attachment: <u>Click to View</u>

		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 Submissi	ion	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	PPs Submissi	ion	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: <u>Click to View</u>
		proposal. The clearance letter shall also be put on the website of the company by the proponent.			
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	PPs Submission	Is beir cleara our cc https:, Last h 2023 s dated Bhuba main Being Attach	ng complied with. Status of compliance of ance conditions, including results of monit ompany?s website //orissametaliks.com/data/EC_Compliance half yearly EC compliance report for the pe submitted vide letter no. MSPML/IRO-Mo I: 31st May 2023 to the Regional Office of aneswar/Zonal office CPCB/OSPCB. A digit gate of the company for display of criteria Complied hment: NA
		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.		
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 con monitored data is being submitted regu the Ministry at Bhubaneswar/Zonal offic EC compliance report for the period of submitted vide letter no. MSPML/IRO-N 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 ?as under the order (I.A No. 616/KB/2022) of 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, environmen uploaded on company?s website https; and updated periodically. Being Complied Attachment: <u>Click to View</u>
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	PPs Submission	Noted and being complied with. In commanagement has applied for transfer of to Operate vide letter dated 28th Octobauthorization vide letter dated 30th Octobart 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: <u>Click to View</u>

	may be appli the project.	icable to	
Document Uplo	ad		
Last Site Visit Report (if available) Additional Attachment (if any)	NA <u>Click to View</u>	Last Site Visit Report Date (if available)	09-07-2014
Additional Remarks (if any)Scan copy of the compliance report has been uploaded for your kind consideration, please.			
I <u>'M/s Orissa Met</u> the data and info knowledge and b misleading at any to above, I hereb expansion, etc. ha	aliks Private Limited (F ormation given in the fi pelief and I am aware th y stage, the clearance g y give undertaking tha as been taken up witho	ormerly M/s MSP Metallics Lim led compliance and enclosures nat if any part of the data and ir given to the project will be revo t no activity such as change in p put due approval.	<u>ited)'</u> hereby give undertaking that are true to be best of my nformation found to be false or oked at our risk and cost. In addition project layout, construction,
Cover Letter Fro	om IRO		

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 :** Village Marakuta, District Jharsuguda, Odisha

projectEnvironmental: 1. Environmental Clearance accorded vide F. No. J-Clearance details11011/494/2007-IA-II (I) dated 13th July 2009

- 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 Metalliks 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		portable sprinklers are installed.
facilities for all the stacks and	3.	Four (04) numbers of rain guns are
sufficient air pollution control		installed
dovices shall be provided to keep	л	We have installed 10 pec of retary
devices shall be provided to keep	4.	we have installed to hos. of foldry
the emission levels below 100		type water sprinklers with range of 50
mg/Nm ³ . At no time, the		m throw at coal and iron ore stockyard
emission level shall go beyond		to control fugitive emission.
the prescribed standards.	5.	Fog mist canon system is available.
Interlocking facilities shall be	6.	An area of 33% has already been
provided so that process can be		covered under greenbelt with total
automatically stopped in case		51 980 nos of trees till the FY 2022-
amission lovel exceeds the limit		22 2500 nos of copling have been
ernission level exceeds the limit.		23. 5,500 hos. of sapiling 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
	٥	Interlocking facility has been provided
	9.	at the emergency can of the DDI Kilpe
	1.0	
	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://ospch-
		rtdas.com/#/publicPortal/
		industry Datails (site 4111 (IDON() 204N
		IndustryDetails/site_4111/1RON%20AN
		D% 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 CAAOMS Four (04)
		numbers of Ambient Air Quality (AAQ)
		Monitoring stations has been received
		monitoring stations has been received
		and pre-rapricated 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 30^{th} October 2023 (Copy enclosed as **Annexure-IV**.) Fixed rotary type water sprinklers





		Bigital 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.



		Image: Additional system of the system of
		From crubici buy inter ob buy inter
		Coke over SMS
		Bag filter Bag filter
		Image: Second systemImage: Second systemBag filter flux areaCHP Bag filter
	In-plant control measures for	1. In-plant control measures taken for
iv)	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	 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	iii. Dry Fog system provided at the Coal
provided to continuous casting	handling area as standby measures
machine Dust extraction system	iv All the main internal roads used for
shall be provided at cooling	movement of Vehicles have been
discharge bouse product	concreted and most of the branch
constraine unit Water chrinkling	roads are also concreted that
system and dust systemation	used for pedestrian It holps in
system and dust extraction	used for pedestrian. It helps in
system shall be provided at raw	Controlling rugitive emission from
material sizing and handling	venicular movement.
areas. All conveyors shall be	V. Fixed type water sprinklers at
completely covered by GI sheets.	appropriate locations are provided.
Bag filters and dust suppression	vi. Four (04) numbers of rain guns are
system shall be provided at coal	installed.
crushing and handling areas.	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 canacity
	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
	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 enclosed as Annexure-VI).
		Telescopic ChuteDry fog systemImage: Strain of the system </th
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 working Valid PUC of
-------	---	---
		area 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	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).
	7 th 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-	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).
	circulated/reused for ash handling and coal dust suppression in coal yard. Acidic and alkaline effluent from DM	Closed-circuit system has been provided in plant and no wastewater/effluent is being or will be discharged into any main course.
	and reused in the plant. Cooling tower blow down shall be reused for dust suppression. BF-GCP and coal washery water shall be	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.
	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,	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.
	green belt development and various other activities at the	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.
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
xvi)	A time bound action plan shall be submitted to reduce solid Waste, its proper utilization and disposal.	 Authorized Cyclers/Re-processors of SPCB. 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 7 th 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 7 th 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 7 th November 2008 are.





	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 29 th August, 2023 (Annexure-XVI).
		 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 19 th 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 m³/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
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 19 th May 1993 and 31 st 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 19 th May 1993 and 31 st 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	Positioning noise sources further
	time) and 70 dBA (night time).	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.
	The project proponent shall also	Is being complied with.
x)	comply with all the environmental protection	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: 31 st May 2023. Also, condition wise compliance was uploaded on Parivesh portal (Copy attached as Annexure-XXII). Soft copy of the half yearly compliance

		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 <u>https://orissametaliks.com/data/EC- OMPL(PREVIOUSLY%20MSP).pdf</u> .
xvi)	The project proponent shall upload the status of compliance	Is being complied with. Status of compliance of the stipulated

	of the stipulated environment	environment clearance conditions
	clearance conditions, including	including results of monitored data is
	results of monitored data on their	being uploaded on our company's
	website and shall undate the	website
	same periodically. It shall	https://orissametaliks.com/data/EC_Com
	simultaneously be sent to the	pliance JUNE%202023 OMPL(MSP) pdf
	Regional Office of the MOEF the	plance some /202020 of the chory.par
	respective Zonal Office of CPCB	Last half yearly EC compliance report for
	and the SPCB. The criteria	the period of October 2022 to March
	pollutant levels namely; SPM,	2023 submitted vide letter no.
	RSPM, SO ₂ , NOx (ambient levels	MSPML/IRO-MoEF&CC/2023-24/1-E/0158
	as well as stack emissions) or	, dated: 31 st May 2023 to the Regional
	critical sectoral parameters,	Office of the Ministry at
	indicated for the projects shall be	Bhubaneswar/Zonal office CPCB/OSPCB.
	monitored and displayed at a	
	convenient location near the	A digital board has been provided at
	main gate of the company in the	main gate of the company for display of
	public domain.	criteria pollutant.
		A REAL PROPERTY AND ADDRESS OF A DESCRIPTION OF A
		TACK-
		PM : 46 mg/Nm3
		TACK 7
		Phil: 79 ma/Hes
		 A second distance with the second se Second second sec second second sec
		DRA
		STACK-1 PM : 25 mailtes
		STACK-2
		STACK-3
		FIN : 78 marchan
		SACH, THE
		Photographs of the digital display
		board showing online emission
		monitoring data
	ine project proponent shall also	is being complied with. Six-monthly
	submit six monthly reports on	compliance report and the monitored
xvii)	the status of the compliance of	data is being submitted regularly to the
,	the stipulated environmental	Regional Office of the Ministry at
	conditions including results of	Bnubaneswar/Zonal office CPCB/OSPCB.
	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.	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: 31 st May 2023.
xviii)	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the 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. 29 th 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 30 th 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				
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.		

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

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
		Phase-I (Existing)	Phase-II	Phase-III	Capacity (MTPA)
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

P.... a N. ILILING

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)	7,86,60Q	10,50,000
5	Coal washery		7 00 000	(0x10 W11+1x20 W11)	15.00.000
6	Sinter Plant		4,60,000 (40 sq. mt)	0,00,000	4,60,000
7	Pellet Plant		6.00.000		8 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.

2

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 m³/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 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 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 m³, 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 :

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 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/Nm³.

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.

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

3

- 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 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 recirculation 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 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.

6 10 at 198 at 14

- ix) Prior permission for the drawl of 10,271 m³/day water from IB River from the concerned department shall be obtained.
- x) The water consumption should not exceed 16 m³/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 environmentfriendly 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.
- 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

5

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.
- 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, SO₂ 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.
- 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

- Ievels 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.
- Χ. 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. 1.
- 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.

6

- The Project Proponent shall inform the public that the project has been accorded XIII. 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.
- Project authorities shall inform the Regional Office as well as the Ministry, the date of xiv. financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.
- A copy of clearance letter shall be sent by the proponent to concerned Panchayat, XV. 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.
- The project proponent shall upload the status of compliance of the stipulated xvi. 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 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 rMOEF, 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.
- Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi – 110 032.
- Chairman, Orissa Pollution Control Board, Parivesh Bhavan, A/118, Nikanthhanagar, Unit-8, Bhuvaneswar - 751 012, Orissa.
- The Chief Conservator of Forests (Eastern), Regional Office (EZ), A/3, Chandrasekharpur, Bhuvaneswar - 751 023, Orissa.
- Adviser (IA-II), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
- 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) Director

ANNEXURE411



1SP METALLICS LIMITED

Corporate Office: 16/S, Block - A, New Allpore, 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.

Board's letter bearing no.15780/Ind-II-NOC-5204 dt. 09.10.09.

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.Dev Director

Encl : As stated above.

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



Regd. Office: 1,Crooked Lane, Kolkata-700 069, Ph: 91-033-3022 2795 / 4795, Fax : 91-033-2248 1720 Works: Vill. & P.O. : Marakuta, Dist. : Jharsugda, Pin - 768202, Orissa, Ph : (06645) 227354, Fax : (06645) 227394

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)

:: 2 ::

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.

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 ***







To,

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

IA/OR/IND1/442388/2023

(vii) Name of Project

(viii) Name of Company/Organization
(ix) Location of Project (District, State)
(x) Issuing Authority
(xi) EC Date

(xiii) Details of Transferee

(xiv) Details of Transferor

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 Iharsuguda, Odisha by M/s MSP Metallics Limited M/s. Orissa Metaliks Private Limited JHARSUGUDA, ODISHA MoEF&CC 13/07/2009 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 M/s MSP Metallics Limited, 1. GARSTIN PLACE, ORBIT HOUSE, 3RD FLOOR, ROOM NO. 3B KOLKATA, WEST BENGAL. INDIA Kelkata 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 (LA 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 LF. (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. Onssa 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.

 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.

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

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

- 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
- Principal Chief Conservator of Forests & HoFF, Aranya Bhawan, Chandrasekharpur, Bhubaneswar -751 023, Odisha
- The Regional Officer, Ministry of Environment, Forest And Climate Change, Integrated Regional Office, A/3, Chandersekharpur, Bhubaneswar – 751023 ODISHA
- The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi – 32
- The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
- The Member Secretary, Odisha State Pollution Control Board, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit - VIII, Bhubaneswar -12 Odisha.
- 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

 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.

Annexure I

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

MSP/JSG/EC/2023-24/1-E/206 30th 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 1st CAAQMS (Coordinate-21.85853, 83.9644 W), 2nd CAAQMS (Coordinate-21.86124, 83.95909-N.), 3nd CAAQMS (Coordinate-21.851709, 83.968161-E-), 4th 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

Hee 30/10/23

J P Sharma Executive Director (Works)

Encl.: as above

Repri: Office :: 1. Crockett Lanc. Relisers-760 per-


GSTIN: 21AAACE6224D1ZE ANNEXURE-V



Environmental Research and Services (India) Dvt. Ltd.

(Am ISD./IEC 17025 - 2017 (KABI) Accordined 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: ersibbsn@gmail.com

ULR-TC744022000000179F

Test Report Format No.: ERSIPL/FM/38

TEST REPORT (FLUE GAS)

Pg No: 1 of 1

Date: 20 Apr 2023		Test Report No: ERSIPL/TR/SE/018	
Name and Address of the Customer	Ř	MSP Metallics Limited, Village: Marakuta, Jharsuguda, Dist: Jharsuguda, Odisha	Tehsil:
Sample Collected by	2	Representative of ERS (I) Pvt. Ltd.	
Sample Collected in presence of	彩	Representative of the Customer.	
Sample Received on	- 10	10.04.2023	
Analysis Started on	82	10.04.2023	
Analysis Completed on		20.04.2023	
Method of Sampling	35	Iso- kinetic CPCB(ER) 1985	
Quantity of Sample	*1	01 sample for each parameter	
Environment Condition	1	All Tests carried out in Room Temperature	
AND A COURT PLACEMENT OF A			

Sample ID. No.

1. ERSIPL/SE/063; dt. 04.04.2023

2. ERSIPL/SE/064; dt. 03.04.2023

3. ER5IPL/SE/065 ; dt. 03 04 2023

4. ERSIPL/SE/066 ; dt. 03.04.2023

Location

: Stack attached to ESP of DRI Kiln – I & II

: Stack attached to ESP of DRI Kiln - V & VI

: Stack attached to ESP of DRI Klin - VII & VIII

Stack attached to ESP connected to Rotary Drum - Pellet Plant

		Test Parameters							
Sample ID No.			Velocity of flue gases in mps	Particul	SO ₂ in mg/Nm ³				
	Test Method	Temp. of Flue gases in (deg. C)		Analyzed result without CO, Correction	Permissible limit asper EC	Permisaible limit as per SPCB	ermissible mlt as per SPC8 (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			
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.Pattanayok Tech.Manager

....END OF TEST REPORT

CIN - U73100CR1995PTC003889



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 Chandake, Infocity Road, Bhubaneswar-751024, Odisha Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/38

TEST REPORT (FLUE GAS)

Pg No: 1 of 1

Date: 20 Apr 2023		Test Report No: ERSIPL/TR/SE/T-018	
Name and Address of the Customer	5	MSP Metallics Limited, Village: Marakuta, Jharsuguda, Dist: Jharsuguda, Odisha	Tehsil:
Sample Collected by	2	Representative of ERS (I) Pvt. Ltd.	
Sample Collected in presence of	10	Representative of the Customer.	
Sample Received on	10	10.04.2023	14
Analysis Started on	£	10.04.2023	
Analysis Completed on	1	20.04.2023	
Method of Sampling	÷	Iso-kinetic CPCB(ER) 1985	
Quantity of Sample	8	01 sample for each parameter	
Environment Condition	±0	All Tests carried out in Room Temperature	
3 772 550			

Sample ID. No.

- 1 ERSIPL/SE/063 ; dt. 04.04.2023
- 2. ERSIPL/SE/064; dt. 03.04.2023
- ERSIPL/SE/065 ; dt. 03.04.2023
- 4. ERSIPL/SE/066; dt. 03.04.2023

- Location
- Stack attached to ESP of DRI Kiln i & II
- Stack attached to ESP of DRI Kiln V & VI
- Stack attached to ESP of DRI Kiln VII & VIII
- Stack attached to ESP connected to Rotary Drum Pellet Plant

	Test Parameters									
		Velocity	CO % (V/V)	NO2 in mg/Nm ³	Hg in mg/Nm ³					
Sample ID No.	Temp. of Flue gaves in (deg. C)	of flue gases in mps	Analyzed result Permisable limit as per OSPC8 (1.0)	Permissible limit as per SPCB (300) max	Permissible limit as per 5PCB (0.03) max					
ERSIPL/SE/063	148.0	23.2704	<0.02							
ERSIPL/SE/064	218.0	25.2823	<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.Menagar

... END OF TEST REPORT ...

CIN - U731000R1995PTC003889



GSTIN: 21AAACE6224D1ZE



Environmental Research and Services (India) Pvt. Ltd.

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

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

ULR-TC744022000000230F

Test Report Format No.: ERSIPL/FM/38

TEST REPORT (FLUE GAS)

Pg No: 1 of 1

Date: 30 May 2023		Test Report No: ERSIPL/TR/SE/022	
Name and Address of the Customer	52	MSP Metallics Limited, Village: Marakuta, Jharsuguda, Dist: Jharsuguda, Odisha	Tehsil:
Sample Collected by	\$0	Representative of ERS (I) Pvt. Ltd.	
Sample Collected in presence of	¥.	Representative of the Customer.	
Sample Received on	÷.	22.05.2023	
Analysis Started on	12	22.05.2023	
Analysis Completed on		30.05.2023	
Method of Sampling	ŧ	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.		Invation	

1.	ERSIPL/SE/079; dt. 08.05.2023	1	Stack attached to ESP of DRI Kiln - 1 & II
2.	ERSIPL/SE/080 ; dt. 08.05.2023	3	Stack attached to ESP of DRI Kiin - III & IV
3.	ERSIPL/SE/081 ; dt. 09.05.2023	4	Stack attached to ESP of 16MW AFBC Boiler
4	ERSIPL/SE/082; dt. 09.05.2023	1	Stack attached to ESP connected to Rotary Drum - Pellet Plant

Sample ID No.		Test Parameters						
	Test Method		1.200 B	Particulate ma	SO ₂ in mg/Nm ³			
		Temp. of Flue gases in (deg. C)	of flue gases in mps	Analyzed result	Permissible fmit at per SPCB	ermissible Imit av per SPCB (600)		
ERSIPL/SE/079	For PM IS:11255[Part-	153.0	21.5018	36.77	100.0	308		
ERSIPL/SE/080	1):1985, Reaffirmed 2019 & for SO ₂ IS:11255(Part- 2):1985, Reaffirmed 2019, Barium Perchlorate Method	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.Pettanayek Tech.Mansger

... END OF TEST REPORT



UT31000R1995FFC00388



0311M TDA0/CF0TT401TF

Environmental Research and Services (India) Pvt. Ltd.

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

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

Test Report Format No.: ERSIPL/FM/38

TEST REPORT (FLUE GAS)

Pg No: 1 of 1 Date: 30 May 2023 Test Report No: ERSIPL/TR/SE/T-022 Name and Address of the Customer 21 MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha Sample Collected by Representative of ERS (I) Pvt. Ltd. t: Sample Collected in presence of Representative of the Customer. Sample Received on 22.05.2023 2 Analysis Started on 22.05.2023 5 Analysis Completed on 30.05.2023 5 Method of Sampling 2 Iso- kinetic CPCB(ER) 1985 Quantity of Sample 01 sample for each parameter 57 Environment Condition All Tests carried out in Room Temperature \mathbb{N} Sample ID. No. Location

- 1. ERSIPL/SE/079; dt. 08.05.2023
- ERSIPL/SE/080; dt. 08.05.2023
- 3. ERSIPL/SE/081; dt. 09.05.2023
- ERSIPL/SE/082 ; dt. 09.05.2023 ;
- Stack attached to ESP of DRI Kiln 1 & II Stack attached to ESP of DRI Kiln - III & IV
- Stack attached to ESP of 16MW AFBC Boiler 22
 - Stack attached to ESP connected to Rotary Drum Pellet Plant

	Test Parameters									
		Melocity	CO % (v/v)	NO2 in mg/Nm ³	Hg in mg/Nm ³					
Sample ID No.	Temp. of Flue gases in (deg. C)	of flue gases in mps	Analyzed result Permisalble 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							
ERSIPL/SE/080	147.0	22.8767	<0.02	×	8					
ERSIPL/SE/081	136.0	23.9874	XX	168.0	<0.01					
ERSIPL/SE/082	117.0	22.0446		ж						

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

... END OF TEST REPORT





Environmental Research and Services (India) Pvt. Ltd.

(An ISO (IEL 17025 - 2017 (MARL) According Laboratory, OSPCI Empowerlied Laboratory and ISO 4001 - 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)

		NB NO: 1 01 1	
Date: 27 June 2023		Test Report No: ERSIPL/TR/SE/028	
Name and Address of the Customer	10	MSP Metallics Limited, Village: Marakuta, Jharsuguda, Dist: Jharsuguda, Odisha	Tehsil:
Sample Collected by	3	Representative of ERS (I) Pvt. Ltd.	
Sample Collected in presence of	4	Representative of the Customer.	
Sample Received on	(4)	17.06.2023	10
Analysis Started on	3	17.06.2023	
Analysis Completed on	8 2 5	27.06.2023	
Method of Sampling	14	Iso- kinetic CPCB(ER) 1985	
Quantity of Sample	311	01 sample for each parameter	
Environment Condition	3	All Tests carried out in Room Temperature	

Sample ID. No.

1. ERSIPL/SE/108; dt. 12.06.2023 2. ERSIPL/SE/109; dt. 13.06.2023

Location

: Stack attached to ESP of DRI Kiln -1 & II

Stack attached to ESP of DRI Kiln - III & IV

: Stack attached to ESP of 16MW AFBC Boiler

- 3. ERSIPL/SE/110; dt. 13.06.2023 4. ERSIPL/SE/111; dt. 12.06.2023
 - : Stack attached to ESP connected to Rotary Drum Pellet Plant

	10	Test Parameters						
	Test Method			Particulate ma	SO ₂ in mg/Nm ³			
Sample ID No.		Temp. of Flue gases in (deg. C)	of flue gases in mos	tinear bastlenA	Permissible IInit as por SPCB	ermissible limit as per SPCE [600]		
ERSIPL/SE/108	For PM IS:11255(Part-	147.0	23.9581	35.89	100.0	×x.		
ERSIPL/SE/109	1):1985, Reaffirmed 2019 & for SO ₂ IS:11255(Part- 2):1985, Reaffirmed 2019, Barium Perchlorate Method	149.0	22.9311	38.14	100.0	306		
ERSIPL/SE/110		137,0	22.6027	35.49	50.0	50.59		
ERSIPL/SE/111		133.0	24.2383	37.55	100.0	**		

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

... END OF TEST REPORT ...

CIN - U731000R1995PTC003889



G5TIN: 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)

Pg No: 1 of 1

Date: 27 June 2023		Test Report No: ERSIPL/TR/SE/T-028	
Name and Address of the Customer	a.	MSP Metallics Limited, Village: Marakuta, Jharsuguda, Dist: Jharsuguda, Odisha	Tehsil
Sample Collected by	à.	Representative of ERS (I) Pvt. Ltd.	
Sample Collected in presence of	$\langle \Psi \rangle$	Representative of the Customer.	
Sample Received on	8	17.06.2023	
Analysis Started on	31	17.06.2023	
Analysis Completed on	3	27.06.2023	
Method of Sampling	$\{ \mathbf{z} \}$	Iso- kinetic CPCB(ER) 1985	
Quantity of Sample	S.	01 sample for each parameter	
Environment Condition	3	All Tests carried out in Room Temperature	

Sample ID. No.

1. ERSIPL/SE/108 : dt. 12.06.2023

2. ERSIPL/SE/109; dt. 13.06.2023

.

3. ERSIPL/SE/110 ; dt. 13.06.2023

4. ERSIPL/SE/111; dt. 12.06.2023

Location

: Stack attached to ESP of DRI Kiln - 1 & II

: Stack attached to ESP of DRI Kiin - III & IV

Stack attached to ESP of 16MW AFBC Boiler

: Stack attached to ESP connected to Rotary Drum - Pellet Plant

	Test Parameters								
		Valacity	CO % (v/v)	NO ₂ in mg/Nm ³	Hg in mg/Nm ³				
Sample ID No.	ple ID No. Temp. of Flue gases in (deg. C) : gases in mps		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) Tech.Manager

CEN - U73100CR1995PTC003889



GSTIN: 21AAACE6224D1ZE

Environmental Research and Services (India) Dvt. Ltd.

(An ISO/IEC 17025 ; 2017 (NABL) Accredited Laboratory, OSPCIL Exepanalled Laboratory and ISO 9001 ; 2015 Cartified Company)

Plot No: 8-22, 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)

Fg No: 1 of 1 Test Report No: ERSIPL/TR/SE/033 Date: 24 July 2023 Marakuta, Tehsil: Name and Address of the Customer MSP Metallics Limited, Village: 23 Jharsuguda, Dist: Jharsuguda, Odisha Sample Collected by Representative of ERS (I) Pvt. Ltd. ž Sample Collected in presence of Representative of the Customer 1 Sample Received on 15.07.2023 h Analysis Started on 15.07.2023 ÷ 24,07,2023 Analysis Completed on 25 Method of Sampling Iso-kinetic CPCB(ER) 1985 01 sample for each parameter Quantity of Sample Environment Condition All Tests carried out in Room Temperature 21

Sample ID. No.

3. ERSIPL/SE/119 ; dt. 05:07.2023

4. ERSIPL/SE/118 ; dt. 04.07 2023

Location

1 ERSIPL/SE/115 ; dt. 04.07.2023 : Stack attached to ESP of DRI Kiin – II (Kiin I Not in Operation)

2. ERSIPL/SE/116 ; dt. 05:07:2023 : Stack attached to ESP of DRI Kiln - III & IV

: Stack attached to ESP of 16MW AFBC Boiler

: Stack attached to ESP connected to Rotary Drum - Pellet Plant

		Test Parameters							
	Test Method			Particulate mat	SQ ₂ in mg/Nm ³				
Sample ID No.		temp. of Flue gases in (deg. C)	of flue gases in mps	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 Tecci Manager

....END OF TEST REPORT







Environmental Research and Services (India) Pvt. Ltd.

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

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

Test Report Format No.: ERSIPL/FM/38

TEST REPORT (FLUE GAS)

Pg No: 1 of 1

Date: 24 July 2023		Test Report No: ERSIPL/TR/SE/T-033						
Name and Address of the Customer		MSP Metallics Limited, Village: Marakuta, Jharsuguda, Dist: Jharsuguda, Odisha	Tehsil					
Sample Collected by	÷.	Representative of ERS (I) Pvt. Ltd.						
Sample Collected in presence of	161	Representative of the Customer.						
Sample Received on	12	15.07.2023						
Analysis Started on	125	15.07.2023						
Analysis Completed on	Ē.	24.07.2023						
Method of Sampling	E:	Iso-kinetic CPCB(ER) 1985						
Quantity of Sample	330	01 sample for each parameter						
Environment Condition	3	All Tests carried out in Room Temperature						

Sample ID. No.

- 1. ERSIPL/SE/115 ; dt. 04.07.2023 2. ERSIPL/SE/116; dt. 05.07.2023
- 3. ERSIPL/SE/119; dt. 05.07.2023
- 4. ERSIPI/SE/118; dt. 04.07.2023

Location

- Stack attached to ESP of DRI Kiln II (Kiln I Not in Operation)
- : Stack attached to ESP of DRI Kiln III & IV
 - Stack attached to ESP of 16MW AFBC Boiler
 - Stack attached to ESP connected to Rotary Drum Pallet Plant

	Test Parameters											
Sample ID No.		A CHEROMAN	CO % (v/v)	NO ₂ in mg/Nm ³	Hg in mg/Nm ³ Permissible limit as per SPCB (0.03) max							
	Temp. of Flue gases in (deg. 5)	of flue gases in mps	Analyzed result Permissible limit as per OSPCB (1.0)	Permissible limit as per SPCB (300) 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							
FRSIPI/SE/118	118.0	21.3489		ŇA								

21.5

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

CEN - U731000R1995PTC003889



GSTIN: 21AAACE6224D1ZE

Pg No: 1 of 1

Environmental Research and Services (India) Pvt. Ltd.



(As ISO/IEC 17025 - 2017 (HABL) Accredited Laboratory, OSPCR Expanolial Cobaratory and ISO 9001 - 2015 Cartified 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

Name and Address of the Customer

Sample Collected in presence of

Date: 17 July 2023

Sample Collected by

Sample Received on

Analysis Started on

Method of Sampling

Quantity of Sample

Analysis Completed on

Environment Condition

Test Report Format No.: ERSIPL/FM/38

TEST REPORT (FLUE GAS)

Test Report No: ERSIPL/TR/SE/032 : MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha : Representative of ERS (I) Pvt. Ltd.

Representative of the Customer.

15.07.2023

: 15,07.2023

ŝ,

2

4

4

: 17.07.2023

Iso-kinetic CPCB(ER) 1985

01 sample for each parameter

All Tests carried out in Room Temperature

Sample ID. No.

1. ERSIPL/SE/117; dt. 05.07.2023

Location

; dt. 05.07.2023 : Stack attached to Sintering Plant - Multi cyclone of sintering process

		Test Parameters						
Sample ID No.		0		Particulate matter in mg/Nm ²				
	Test Method	Temp. of Fine gates in (deg.C)	Velocity of flue gases in mps	Anayzed result	Perrvissible limit as per SPCB			
ERSIPL/SE/117	For PM (5:11255(Part- 1):1985, Reaffirmed 2019	108.0	23.8041	40:16	100.0			

(Authorized Signatory)

S.P.Pattenayek Tech.Manager

... END OF TEST REPORT__



Environmental Research and Services (India) Pvt. Ltd.

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

TC-7440

the March 19 and 19

plant

orized Signate

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)

		L8 NO: 1 DI 1	
Date: 06 SEPT 2023		Test Report No: ERSIPL/TR/SE/041	
Name and Address of the Customer	51	MSP Metallics Limited, Village: Marakuta,	Tehsil:
		Jharsuguda, Dist: Jharsuguda, Odisha	
Sample Collected by	5	Representative of ERS (I) Pvt. Ltd.	
Sample Collected in presence of	-	Representative of the Customer.	
Sample Received on	Ţ.	01.09.2023	
Analysis Started on	2	01.09.2023	
Analysis Completed on	100	05.09.2023	
Method of Sampling	1	Iso- kinetic CPCB(ER) 1985	
Quantity of Sample	1	01 sample for each parameter	
Weather Condition	171	All Tests carried out in Room Temperature	
Stack top	<i>\$</i> 1	circular	
Atmospheric Temperature (Min/Max)	÷	33.0 - 36.0 ⁰ C	

Sample ID. No.

Lucation

_	the second se		
1	ERSIPL/SE/141; dt. 28.08.2023	-271	Stack attached to ESP of DRI Kiln -1& II
2	ERSIP1/SE/142 ; dt. 28:08:2023	Refi	Stack attached to ESP of DRI Kiin - III & IV
3.	ERSIPL/SE/143; dt. 28.08.2023	(#2	Stack attached to ESP of 16MW AFBC Boiler
4	ERSIPL/SE/144 ; dt. 29.08.2023	140	Stack attached to Multi cyclone of sintering process sinter plan
6	ERSIPL/SE/145 ; dt. 29.09.2023	1	Stack attached to ESP connected to Rotary Drum - Pellet Plant

Sample ID No. Test		Test Parameters								
	Test Method	Stack Height (AGL in m)	Stack Internel 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 _z in mg/Nm ³		
ERSIPL/SE/141	For PM IS:11255(Part- 1):1985, Reaffirmed	30	243	12	149	33.8374	29.64	XX		
ERSIPL/SE/142		30	243	12	143	21.3265	33,78	xx		
ERSIPL/SE/143	2019 & for 50; (5:11255(Part-2):1985, Partformer 2010	77	243	25	142	22.3704	33.98	49.67		
ERSIPL/SE/144	Barium Perchlorate Method	50	343	25	151	21.1311	37.24	xx		
ERSIPL/SE/145		52	173	25	143	22.3973	31.17	XX C		

Note 3.

The test results relate only to the iteration complete and traced. Total Lobility of E8S (I) Pvt: Ltit, is limited to the Invoice Amount. 2

This certificate shall not be reproduced fully or in part without prior written consent of Elis (I) Pvt. Ebi. 3.

Samples (Filter Papers & Thimbles) received shall be destroyed after 01 year & Gaseous/liquid samples received shall be 4.

destroyed after 07 days from the date of issue of the test report, where otherwise This report shall not used in any advertising media or as evidence in the sourcef contraint-of-ERS(0) Proc Little R.

CIN - U731000R1995PTC003889



GSTIN: 21AAACE6224D1ZE



Environmental Desearch and Services (India) Dvt. Ltd.

(OSPCB 'A' Category Emponelled 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)

		PS N014.014	
Date: 06 SEPT 2023 Name and Address of the Customer	Ĕ,	Test Report No: ERSIPL/TR/SE/T-041 MSP Metallics Limited, Village: Marakuta, Jharsuguda, Dist: Jharsuguda, Odisha	Tehsi
Sample Collected by	E.	Representative of ERS (I) Pvt. Ltd.	
Sample Collected in presence of	12	Representative of the Customer.	
Sample Received on	6	01.09.2023	
Analysis Started on	£.	01.09.2023	
Analysis Completed on	1	05.09.2023	
Method of Sampling	÷.	Iso- kinetic CPCB(ER) 1985	
Quantity of Sample	11	01 sample for each parameter	
Weather Condition	÷	All Tests carried out in Room Temperature	
Stack top	÷.	circular	
Atmospheric Temperature (Min/Max)	13	33.0 - 36.0 °C	

Sample ID. No.

ERSIPL/SE/141 ; dt. 28.08.2023

2. ERSIPL/SE/142; dt. 28.08.2023

3. ERSIPL/SE/143; dt. 28.08.2023

4. ERSIPL/SE/144 ; dt. 29.08.2023

3 : Stack attached to ESP of 16MW AFBC Boiler
 23 : Stack attached to Multi cyclone of sintering process sinter plant.

3.0

1

Location

Stack attached to ESP of DRI Kiin - III & IV

5. ERSIPL/SE/145; dt. 29.08.2023

Stack attached to ESP connected to Rotary Drum - Pellet Plant

Stack attached to ESP of DRI Kiln - II (Kiln | Not in Operation)

			Test Parame	ters	
	Verticale		CO 36 (v/v)	NO ₂ in mg/Nm ³	Hg in mg/Nm ³
Sample ID No.	Temp. of Flue gases In (deg. C)	of flue gases in mps	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	N	A.
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	





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)

		Pg No: 1 of 1	
Date: 25 SEPT 2023		Test Report No: ERSIPL/TR/SE/043	
Name and Address of the Customer	T	MSP Metallics Limited, Village: Marakuta, T	ehsil:
		Jharsuguda, Dist: Jharsuguda, Odisha	
Sample Collected by	1	Representative of ERS (I) Pvt. Ltd.	
Sample Collected in presence of	1	Representative of the Customer.	
Sample Received on		07.09.2023	
Analysis Started on		04.09.2023	
Analysis Completed on	8	13.09.2023	
Method of Sampling	ŧ.	As per Applicable Test Method	
Quantity of Sample	8	01 sample for each parameter	
Weather Condition	÷.	Sunny	
Stack top	22	circular	
Atmospheric Temperature (Min/Max)	Ę.	28.0 - 36.0 °C	

Sample ID. No.

Location

ERSIPL/SE/153 ; dt. 01.09.2023 : Stack attached to ESP of DRI Kiln -I& II

ERSIPL/SE/154 ; dt. 02.09.2023

Stack attached to ESP of DRI Kiln – III & IV
 Stack attached to ESP of 16MW AFBC Boiler

- ERSIPL/SE/155; dt. 01.09.2023
 St
 ERSIPL/SE/156; dt. 01.09.2023
 St
- 5. ERSIPL/SE/157; dt. 02.09.2023
- Stack attached to Multi cyclone of sintering process sinter plant
- : Stack attached to ESP connected to Rotary Drum Pellet Plant

					est Paramete	Parameters			
Sample ID No.		Test Stack Stack Height GF Flue V Method Height Internal Gf gases ((AGL in Dia. In Platform in gases) m) cm (AGL in m) C)		Holpht	Temp.		Particulate matter in mg/Nm ³		SO ₂ in mg/Nm ¹
	Method		of flue gases in mps	Analyzed result	Permissible limit as per 5PCB	Permissible funit as per SPCB (600)			
ERSIPL/SE/153	Eer HAA	30	243	12	141.0	21.5858	33.37	100.0	XX
ERSIPL/SE/154	15:11255(Part -1):1985, Reaffirmed	30	243	12	151.0	21.5490	30.06	100.0	××
ERSIPL/SE/155	2010 & for 50s 15:11255(Part -2):1385, RealTimod 2019,	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-

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.

This certificate shall not be reproduced fully or in part without prior written consent of FRS (I) Pvt. Ltd.
 Samples (Filter Papers & Thimbles) recoved shall be destroyed after 01 year & Gasebury/inuid samples (Filter Papers & Thimbles) recoved shall be destroyed after 01 year & Gasebury/inuid samples (Filter Papers & Thimbles) recoved shall be destroyed after 01 year & Gasebury/inuid samples (Filter Papers & Thimbles) recoved shall be destroyed after 01 year & Gasebury/inuid samples (Filter Papers & Thimbles) recoved shall be destroyed after 01 year & Gasebury/inuid samples (Filter Papers & Thimbles) recoved shall be destroyed after 01 year & Gasebury/inuid samples (Filter Papers & Thimbles) recoved shall be destroyed after 01 year & Gasebury/inuid samples (Filter Papers & Thimbles) recoved shall be destroyed after 01 year & Gasebury/inuid samples (Filter Papers & Thimbles) recoved shall be destroyed after 01 year & Gasebury/inuid samples (Filter Papers & Thimbles) recoved shall be destroyed after 01 year & Gasebury/inuid samples (Filter Papers & Thimbles) recoved shall be destroyed after 01 year (Filter Papers & Thimbles) recoved shall be destroyed after 01 year (Filter Papers & Thimbles) recoved shall be destroyed after 01 year (Filter Papers & Thimbles) recoved shall be destroyed after 01 year (Filter Papers & Thimbles) recoved shall be destroyed after 01 year (Filter Papers & Thimbles) recoved shall be destroyed after 01 year (Filter Papers & Thimbles) recoved shall be destroyed after 01 year (Filter Papers & Thimbles) recoved shall be destroyed shall

Samples (Filter Papers & Thimbles) recoved shall be destroyed after 01 year & Gaseous/liquid samples received shall be destroyed after 07 days from the date of linue of the test report, unless otherwise specified.

This report shall not used in any advertising media or as evidence in the court of law without prior written consent of DO-30 Per. Ins.

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)

			Pg No: 1 of 1	
Date: 25 SEPT 2023		Test Report No: ERSIPL/TR/SE/T-043		
Name and Address of the Customer	8	MSP Metallics Limited, Village: Jharsuguda, Dist: Jharsuguda, Odisha	Marakuta,	Tehsil
Sample Collected by	÷.	Representative of ERS (I) Pvt. Ltd.		
Sample Collected in presence of	3	Representative of the Customer.		
Sample Received on	20	07.09.2023		
Analysis Started on	-	04.09.2023		100
Analysis Completed on	4	13.09.2023		
Method of Sampling	4	As per Applicable Test Method		
Quantity of Sample	÷	01 sample for each parameter		
Weather Condition	1	Sunny		
Stack top	2	circular		
Atmospheric Temperature (Min/Max)		28.0-36.0°C		

Sample ID. No.

ERSIPL/SE/153 ; dt. 01.09.2023

ERSIPL/SE/154 ; dt. 02.09.2023

ERSIPL/SE/155 ; dt. 01.09.2023

4. ERSIPL/SE/156; dt. 01.09.2023

5 ERSIPL/SE/157; dt. 02.09.2023

Location

Stack attached to ESP of DRI Kiln -1& II

Stack attached to ESP of DRI Kiln - III & IV

Stack attached to ESP of 16MW AFBC Boiler

: Stack attached to Multi cyclone of sintering process sinter plant

: Stack attached to ESP connected to Rotary Drum - Pellet Plant

			Test Parame	ters		
		CO % (v/v) NO2 in mg/Nm ^k		co % (v/v) NO2 in mg/Nm ³		
Sample ID No.	ale ID No. Temp. of Flue gases in (deg, C) mps		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			
ERSIPL/SE/154 151.0 21		21.6490	<0.02		A	
ERSIPL/SE/155	145.0	21.6898	NA	130.0	<0.01	

1231

24

21

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

S.	Monitoring		Date of	Test Parameters : SPM
No	Stations	Month	Monitoring	Analysis Result in
				µg/m3
		April 2023	04/04/2023	207.65
		May 2023	09/05/2023	207.09
	Near Iron Ore	June 2023	13/06/2023	202.02
1	Stock Yard	July 2023	05/07/2023	203.01
		August 2023	29/08/2023	204.30
		September 2023	02/09/2023	208.80
		April 2023	04/04/2023	207.16
		May 2023	09/05/2023	212.11
	Near Coal	June 2023	13/06/2023	211.62
2	Stock Yard	July 2023	05/07/2023	206.90
		August 2023	29/08/2023	200.20
		September 2023	02/09/2023	201.29
		April 2023	04/04/2023	201.65
	No Dour	May 2023	09/05/2023	210.94
	Near Raw Material	June 2023	13/06/2023	203.87
3	Handling	July 2023	05/07/2023	205.74
	System	August 2023	29/08/2023	206.84
		September 2023	02/09/2023	205.87
		April 2023	04/04/2023	203.57
		May 2023	09/05/2023	207.04
4	Near Steel	June 2023	13/06/2023	203.13
Т	Melting Shop	July 2023	05/07/2023	211.93
		August 2023	29/08/2023	201.25
		September 2023	02/09/2023	208.79
Pern 30/0	nissible Limit 05/2008	as per G. S. R	8. 414 (E) dated	2000.0





Environmental Research and Services (India) Pvt. Ltd.

(An ISD/IEC 17025 - 2017 (MABL) According Laboratory, OSPCE Empowelled 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: ersibbsn@gmail.com

ULR-TC744023000000178F

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

		Pg No: 1 of 1
Date: 20 Apr 2023		Test Report No: ERSIPL/TR/AA/070
Name and Address of the Customer	6.4	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	ф.	10.04.2023
Analysis Started on	÷	10.04.2023
Analysis Completed on	2	20.04.2023
Method of Sampling	÷	ERSIPL/MSP/06
Quantity of Sample	2	01 sample for each parameter
Environment Condition	7	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. Near Steel Melting Shop

ERSIPL/AA/258 (Fugitive Emission)

TEST FINDINGS:

SI. No				Bornsteathte		Re	sults	
	Test Parameters	Test & Sampling method	Unit	Permissible Limit as per G.S.R 414 (E) dtd. 30.05.2008	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	μg/m ³	2000.0	207.65	207.16	201.65	203.57

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





Invironmental Research and Services (India) Pvt. Ltd.

(As 150/(EC 17025 - 2017 (MABL) According Laboratory, 059/CII Exponsiled Laboratory and 150 4001 - 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-TC744023000000229F

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Pg No: 1 of 1

Date: 30 May 2023		Test Report No: ERSIPL/TR/AA/090
Name and Address of the Customer	2	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Sample Collected by	c.	Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of	ġ,	Representative of the Customer.
Date of Sampling/Monitoring	2	09 05 2023
Sample Received on	ų,	22.05.2023
Analysis Started on	(ê	22.05.2023
Analysis Completed on	÷	30.05.2023
Method of Sampling	i.	ERSIPL/MSP/06
Quantity of Sample	i,	01 sample for each parameter
Environment Condition	3	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	·			es solare		Re	sults	
	Test Parameters	Test & Sampling method	Unit	Permissible Limit as per G.S.R 414 (E) dtd. 30.05.2008	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	μg/m ³	2000.0	207.09	212.11	210.94	207.04

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





Environmental Research and Services (India) Pvt. Ltd.

(AAISD/IEC 17025 - 2017 (NABI) Accedited Laboratory, 05PCB Emponelled Laboratory and ISO 7001 - 2015 Centified Componyl Plot No: B-22, Sector-8, Industrial Estate Chandaka, Infocity Road, Bhubaneswar-751024, Odisha Tel: +91-9437021932, +91-9937690329, E-mail: ersibbsr@igmail.com

ULR-TC744023000000292F

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Pg No: 1 of 1

Date: 27 June 2023		Test Report No: ERSIPL/TR/AA/116
Name and Address of the Customer	1	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Sample Collected by	2	Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of	12	Representative of the Customer.
Date of Sampling/Monitoring	- 8	13.06.2023
Sample Received on	- É	17.06.2023
Analysis Started on	4	17.06.2023
Analysis Completed on		27.06.2023
Method of Sampling	1	ERSIPL/MSP/06
Quantity of Sample	d,	01 sample for each parameter
Environment Condition	38	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:

				windeevaationa		Re	sults	
SI. No	Test Parameters	Test & Sampling method	Unit	Permissible Limit as per G.S.R 414 (E) dtd. 30.05.2008	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	µg/m ³	2000.0	202.02	211.62	203.87	203.13

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

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

CIN - U731000R1995PTC003889



GSTIN: 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.



(An ISO/HEC 17025 - 2017 (NABL) Accordited Laboratury, OSPCR Emponelled Laboratory and ISO 9081 - 2015 Contified Company)

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

ULR-TC744023000000353F

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Pg No: 1 of 1 Test Report No: ERSIPL/TR/AA/141 Date: 24 July 2023 : MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Name and Address of the Customer Dist: Iharsuguda, Odisha Representative of ERS (I) Pvt. Ltd. Sample Collected by Representative of the Customer. Sample Collected in presence of 21 : 05.07.2023 Date of Sampling/Monitoring 15.07.2023 Sample Received on : 15.07.2023 Analysis Started on : 24.07.2023 Analysis Completed on ERSIPL/MSP/06 Method of Sampling 01 sample for each parameter Quantity of Sample 11 Ξ. Sunny Environment Condition Locations Sample ID, No. 1. Near Iron Ore Stock Yard 1. ERSIPL/AA/530(Fugitive Emission) 2. Near Coal Stock Yard 2. ERSIPL/AA/531 (Fugitive Emission) 3: Near RMHS 3. ERSIPL/AA/532 (Fugitive Emission) 4. Near Steel Melting Shop 4. ERSIPL/AA/533 (Fugitive Emission)

TEST FINDINGS.

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

(Authorized Signatory)

5.P.Palisnayak Tech.Manager

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



Environmental Research and Services (India) Pvt. Ltd.

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

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-TC744023000000469F

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Pg No: 1 of 1

C-7440

Date: 06 SEPT 2023		Test Report No: ERSIPL/TR/AA/190
Name and Address of the Customer	2	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Sample Collected by	ii.	Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of		Representative of the Customer.
Date of Sampling/Monitoring	34	29.08.2023
Sample Received on	11	01.09.2023
Analysis Started on	्रह	01.09.2023
Analysis Completed on	1	05.09.2023
Method of Sampling	12	As per Applicable Test Method
Quantity of Sample	2	01 sample for each parameter
Weather Condition	13	Sunny
Atmospheric Temperature (Min/Max)	22	27.0 - 33.0 °C
Atmospheric Pressure (Min/Max)	5 <u>\$</u> 2	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:

						Res	ults	
SI. No	Test Parameters	Test & Sampling method	Unit	Limit as per G.S.R 414 (E) dtd. 30.05.2008	ERSIPL /AA/ 679	ERSIPL /AA/ 680	ERSIPL /AA/ 681	ERSIPL /AA/ 682
1	Suspended Particulate Matter (SPM)	ERSIPL/SOP/SPM/ 2023/01	µg/m ³	2000.0	204.30	200.20	206.84	201.25

NUCLE

11

The test results relate only to the items sampled and rested

2. Total Liability of ERS (U.Pvt. Ltd. is limited to the Involue Annual.

This certificate shall not be reproduced fully or in part without prior written comient of ERS (I) Pvt. 11d.
 Samples (Filter Papers & Thimsles) isoclased shall be destroyed after 51 year & GappTClipted samples meeting shall be

 Samples (Fitter Pagers & Thimbles) received stall be detrined after 05 year & to destroyed after 07 days from the date of none of the test report, unless otherwese

5. This report shall not used in any advertising modia or as evidence in the source of a

Authorized Signatory)

......END OF TEST REPORT





Pr No: 1 of 1

TC-7440

Environmental Research and Services (India) Pvt. Ltd.

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

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)

		1.8 10. 10. 1
Date: 25 SEPT 2023		Test Report No: ERSIPL/TR/AA/194
Name and Address of the Customer	1 1 1	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Sample Collected by	1	Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of Date of Sampling/Monitoring	100	Representative of the Customer.
Sample Received on	ŝ	04.09.2023
Analysis Started on		04.09.2023
Analysis Completed on	а. В	13.09.2023
Method of Sampling	-12	As per Applicable Test Method
Quantity of Sample	2	01 sample for each parameter
Weather Condition	10	Sunny
Atmospheric Temperature (Min/Max)	10	31.0 - 35.0 °C
Atmospheric Pressure (Min/Max)	Ě	1005-1006 mbar
Sample ID. No.		Locations
 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 (Engitive Emission)		4. Near Steel Melting Shop

TEST FINDINGS:

						Re	sults	
Sl. No	Test Parameters	Test & Sampling method	Unit	Permissible Limit as per G.S.R 414 (E) dtd. 30.05.2008	ERSIPL /AA/ 697	ERSIPL /AA/ 698	ERSIPL /AA/ 699	ERSIPL /AA/ 700
ï	Suspended Particulate Matter (SPM)	ERSIPL/SOP/SPM/ 2023/01	μg/m ³	2000.0	208.80	201.29	205.87	208.79

Note

13

The test results relate only to the items sampled and tested.

2. Total Liability of ERS (I) Pvt. Ltd. is limited to the involte Amount.

This certificate shall not be reproduced fully or in part without prior written cunsent of ERS () Put. Ltd.

 Samples (Filter Papers & Thimbles) received shall be destroyed after 01 year & Gaseovs/fiquid samples received shall be destroyed after 07 days from the date bit usue 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 poisent of EIS (I) PM, and

(Authorized Signatory)

ANNEXURE-VII

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

WS-IWS-240/21 42

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.- 2021102841000305, dt. 20.10.2021.

Madam,

MSP Metallics Ltd., Village- Marakuta, Block- Jharsuguda, Dist- Jharsuguda (Application No- 2021102841000305) 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: 83° 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

Page 1

- Official and

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:-

- 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

> "Every drop of water is precious. Use optimally by adopting recycle, reuse and zero discharge technology".

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.

MSP Metallics Ltd. at his own cost shall install a Flow Meter or a suitable 4. 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

> "Every drop of water is precious. Use optimally by adopting recycle, reuse and zero discharge technology".

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

- 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.
- 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.
- 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.
- 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.

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.

- Department of Water Resources (DoWR) will not be held responsible for nonavailability 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.
- 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.

"Every drop of water is precious. Use optimally by adopting recycle, reuse and zero discharge technology".

- Only applicable for Hirakud reservoir :-32.
 - Dumping of earth in reservoir area is not permitted. (i)
 - Drawal of water below RL 595 Ft. of the reservoir shall not be allowed. (iii)
- MSP Metallics Ltd. shall undertake water utilization audit in every three years and make the report available for scrutiny by the competent authority of 33.
- 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 34. whichever is higher and shall be enhanced at the rate of ten percent per

annum with effect from the first day of April;

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

Yours faithfully.

Planning & Design

Date 19/02/2022 4232 Memo No

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

Planning & Design

"Every drop of water is preclous. Use optimally by adopting recycle, reuse and zero discharge technology".

Page 7

Scanned with CamScanner

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-jharsugud	la			
Village:	Marakuta	Block:	Jharsuguda		
District:	Jharsuguda	State:	Odisha		
Pin Code:			- ACC		
Communication Address:	M/s Msp Metallics Ltd, At/po-mai Jharsuguda, Odisha - 768202	rakuta Dis	t-jharsuguda, Jharsuguda,		
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.:		CGW	A/NOC	/IND/O	RIG/20	22/14	4872		$\langle \gamma \rangle$	2				
2.	Application	No.:	21-4/3	3053/O	R/IND/2	2021			3.	Cate (GW	egory: /RE 2020)	Sat	Safe		
4.	Project Sta	itus:	Existi	ng Proj	ect				5.	NOC	OC Type: New				
6.	Valid from	1:	07/02	02/2022			7.	Vali	d up to:	06/	02/202	5			
8.	Ground Wa	ater Absti	raction	Permit	ted:			2V							
	Fresh	Water			Saline	Water	0	21	De	wate	ering		Т	otal	
	m³/day	m³/ye	ar	m³/	day	m³	/year	×	m³/day		m³/year	mª	/day	m³.	/year
	490.00	178850	0.00			2	2								
9.	Details of g	ground wa	ater ab	stractio	on /Dew	atering	g stru	ctures							
			Tota	I Exist	ing No.	.:7					1	otal Prop	osed N	lo.:0	
				DW	DCB	BW	TW	MP	MPu	D١	N DCB	BW	ΤW	MP	MPu
	Abstraction	Structure) *	0	0	7	0	0	0	0	0	0	0	0	0
*DW	- Dug Well; D	CB-Dug-cur	n-Bore V	Vell; BW-	-Bore We	ll; TW-T	ube W	ell; MP-Mi	ne Pit;MP	u-Mine	e Pumps				
10.	Ground Wa	ater Abstr	raction	/Restor	ation C	harges	s paid	l (Rs.):				3577	00.00		
11.	Number of constructe	Piezome d/ monito	ters(O red & N	bservat Monitor	tion wel ing mea	lls) to b chanisr	be m.	No. of I	Piezome	eters		Monitorin	ig Mech	anism	
		CY									Manual	DWLR**	DWLF	With T	elemetry
	**DWLR - Dig	ital Water L	evel Re	corder					1		0	1		0	
	DWLK - DIQ	jilai vvaler L	Level Re	corder					1		U	1		U	

(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

> पानी बचाये – जीवन बचाये SAVE WATER - SAVE LIFE

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.cqwa-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.)



Government of India Central Ground Water Authority Ministry of Water Resources

7 MAY 20

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

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

Dated:-

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) Scientist D for Member Secretary



For MSP Metallics Ltd.

A-2/W-3, Curzon Road Barracks, Kasturba Gandhi Marg, New Delhi - 110 D01 Phone No. (011) 23387582, 23385620 FAX No. (011) 23388310

TO BE CORRECT

comined is be True Copy Bentification DAS, NOTARS 14-263

100



ANNEXURE-IX



Environmental Research and Services (India) Dvt. Ltd.

(Am 150/110 17025 - 2017 (NAB1) Accordited 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)

Pg No: 1 of 1

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

TEST FINDINGS

Locations

1. Bore Well Water- from Admin Office

2. Bore Well Water- from Mechanical Work Shop

				Res	Permissible	
S. No.	Parameters Analyzed	Test Method	Unit	ERSIPL/ WA/ 216	ERSIPL/ WA/ 217	Limit as per 15:10500, 2012
01	pН	IS 3025 Part 11: 1993 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 ₁)	IS 3025 Part 21: 2009 Reaffirmed-2019	mg/t	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 15: 1984 Reaffirmed-2017	mg/L	237.8	274.1	500.0
07	Calcium (as Ca)	15 3025:Part 40: 1991 Reaffirmed-2019	mg/L	33.67	34.47	75.0
08	Sulphate (as SO ₄)	IS 3025:Part 24: 1985 Reaffirmed-2019	me/L	8.59	17.69	200.0
09	Fluoride (as F)	15 3025:Part 60: 2008 Reaffirmed-2019	mg/L	<0.1	<0.1	1.0
10	Alkalinity (as CaCO ₃)	19 3035-0art 23- 1986 Roaffirmed-2019	mg/L	268.0	230.0	200.0

(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)

Pg No: 1 of 1

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	15 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/216	1. Bore Well Water- from Admin Office
2. ERSIPL/WA/217	2. Bore Well Water- from Mechanical Work Shop
TEST FINDINGS	Second and the second second second

	Parameters			Re	sult	Decembrality Figure
SI	Analysed	Test Method	Unit	ERSIPL/ WA/ 216	FRSIPI/ WA/ 217	as per 15:10500, 2012
01	Colour	th 38725:Part 04: 1983 Reaffirmed-2017	Hazen	<5.0	<5.0	5.0
02	Odour	/5 5025:Part 05: 1983 Reaffirmed-2017	200	A	A	Agreeable (A)
03	Taste	15 3025:Part 07,08: 1984 Reaffirmed-2017		A	A	Agreeable (A)
04	Nitrate as NO ₅	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	15 3025:Part 42: 1992 . Reaffirmed-2019	mg/L	ND	ND	0.05
07	Manganese	15 3025:Part 59: 2006 Reaffirmed-2017	mg/L	ND	ND	0.1
08	Phenolic Compound	15 3025 Part 43: 1992 Reaffirmed-2019	mg/L	ND	ND	0.001
09	Mercury	15 3025:Part 48: 1994 Reaffirmed-2019	mg/L	ND	ND	0.001
10	Cadmium	15 3025:Part 41: 1997 Reaffirmed-2019	mg/L	ND	ND	0.003

CIN - U731000R1995PTC003889



GSTIN: 21AAACE6224D1ZE



Environmental Research and Services (India) Dvt. Ltd.

(OSPCB 'A' Category Empanelled Laboratory and ISO 9001 : 2015 Certified Company) Plot No: B-22, Sector-B, Industrial Estate Chandaka, Infocity Road, Bhubaneswar-751024, Odisha Tel: +91-9437021932, +91-9937690329 , E-mail: ersibbsr@gmail.com

_					Pg No:	:2 of 2
11	Selenium	45 3025:Part 56: 2003 Reaffirmed-2019	mg/t	ND	ND	0.01
12	Total Arsenic	IS 3025 Part 37: 1988 Reaffirmed-2029	mE/L	ND	ND	0.01
13	Cyanide	15 3025:Part 27: 1986 Reaffirmed-2019	mg/L	ND	ND	0.05
14	Lead	IS 3025:Part 47: 1594 Reaffirmed-2019	mg/L	ND	ND	0.01
15	Zinc	15 3025 Part 49: 1994 Reaffirmed-2019	mg/L	ND	ND	5.0
16	Anionic detergents	15 13428 :2005 Reaffirmed-2019	mg/L	ND	ND	0.2
17	Total Chromium	15 3025:Part 52: 2003 Reaffirmed-2019	mg/L	ND	ND	0.05
18	Polynuclear aromatic hydrocarbons	Ална 5440	mg/l.	ND	ND	0.0001
19	Mineral Oil	15 3025:Part 39: 1991 Reaffirmed-2019	mg/L	ND	ND	0.5
20	Pesticides	USEPA gas liquid chromatography	mg/L	ND	ND	
21	Aluminium	15 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.Pattanayek Tech.Manager

... END OF TEST REPORT





Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17025 - 2017 (MARL) According Laboratory, DSPCB Expansified Laboratory and ISO 9001 - 2015 Enrified 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-TC744023000000235F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

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	. 15 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/281

2. ERSIPL/WA/282

TEST FINDINGS

Locations

1. Bore Well Water- from Admin Office

2. Bore Well Water- from Mechanical Work Shop

				Res	ult	Permissible
S. No.	Parameters Analyzed	Test Method	Unit	ERSIPL/ WA/ 281	ERSIPL/ WA/ 282	Limit as per 15:10500, 2012
01	рH	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 CaCO3)	IS 3025:Part 21: 2009 Reaffirmed-2019	mg/L	132.0	158.0	200.0
04	Iron (as Fe)	15 3025:Part 53: 2003 Reaffirmed-2019	mg/L	0.07	0.05	0.30
05	Chloride (as Cl)	15 3025:Part 32: 1988 Reaffirmed-2019	mg/L	31.54	32.52	250.0
06	Total Dissolved Solids	IS 3025:Part 15: 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 ₂)	15 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 CaCOs)	IS 3025:Part 23: 1986 Reaffirmed-2019	mg/L	272.0	235.0	200.0

(Authorized Signatory)

S.P.Patteneyek Tech,Manager

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







Environmental Research and Services (India) Pvt. Ltd.

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

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

Test Report Format No.: ERSIPL/FM/40 TEST REPORT (WATER/ WASTE WATER)

Test Report No: ERSIPL/TR/WA/T-123

Pg No: 1 of 1

Date: 30 May 2023

Name and Address of the Customer

Date of Sampling

Sample Collected by Sample Collected in presence of Sample Received on Analysis Started on Analysis Completed on Method of Sampling Quantity of Sample Type of Container Environment Condition

Sample ID, No.

1. ERSIPL/WA/281

2. ERSIPL/WA/282

TEST FINDINGS

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

: 09.05.2023

: Representative of ERS (I) Pvt. Ltd.

: Representative of the Customer.

- : 22.05.2023
- : 22.05.2023
- : 30.05.2023
- : IS 3025: Part 1: 1987, Reaffirmed 2019

2ltrs

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

Locations

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

				Re	sult	Permissible Limit
SI	Parameters Analysed	Test Method	Unit	ERSIPL/ WA/ 281	ERSIPL/ WA/ 282	as per 15:10500, 2012
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	. 	А	A	Agreeable (A)
03	Taste	IS 3025:Pairt 07,08: 1984 Reaffirmed-2017	(0)	Á	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	(5 3025:Part 26: 1986 Reaffirmed-2019	mg/L	NII	Nil	0.2 (min) When chlorinated
06	Copper	IS 3025:Part 42: 1992 Reaffirmed-2019	mg/L_	ND	ND	0.05
07	Manganese	t5 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	NÐ	ND	0.001
10	Cadmium	IS 3025 Part 41: 1992 Reatfirmed-2019	mg/L	ND	ND	0.003



CH4 - 010100001350L10003003



ODITE STROUTEDEEDDIE

Environmental Research and Services (India) Pvt. Ltd.

(OSPCB 1A1 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

					Pg No:	2 of 2
11	Selenium	iS 3025:Part 55: 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	/5 3025:Part 27: 1986 Reaffirmed-2019	mg/t,	ND	ND	0.05
14	Lead	15 3025:Part 47: 1994 Reaffirmed-2019	mg/L	ND	ND	0.01
15	Zìnc	15 3025:Pair 49: 1994 Reaffirmed-2019	mg/L	ND	ND	5.0
16	Anionic detergents	15 13428 (2005 Reaffirmed-2019	mg/L	ND	ŇÐ	0.2
17	Total Chromium	IS 3025: Part 52: 2003 Reaffirmed: 2019	mg/L	ND	ND	0.05
18	Polynuclear aromatic hydrocarbons	APHA 6410	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	15 3025:Part 57: 2005 Reaffirmed-2017	mg/L	ND	ND	0.5
23	Nickel	15 3025:Part 54: 2003 Reaffirmed-2019	mg/L	ND	ND	0.02

ND-Not Detected

Ca (Authorized Signatory)

S.P.Pattenayek Tech.Manager

... END OF TEST REPORT ...


GSTIN: 21AAACE6224D1ZE



Environmental Research and Services (India) Dvt. Ltd.

(Am 150/LEC 17025 - 2017 (MABL) Accedited Cohercitory: OSPCE Empenation Laboratory and 150 4001 - 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-TC744023000000298F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

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.

1. ERSIPL/WA/367

2. ERSIPL/WA/368

TEST FINDINGS

Locations

1. Bore Well Water- from Admin Office

2. Bore Well Water- from Mechanical Work Shop

				Result		Permissible
5. No.	Parameters Analyzed	Test Method	Unit	ERSIPL/ WA/ 367	ERSIPL/ WA/ 368	Limit as per IS:10500, 2012
01	pH Value	15 3025 Part 11, 1983 Reaffirmed-2022	Ńa	6.91	0.90	6.5-8.5
02	Turbidity	IS 3025: Part 10: 2023	NTU	0,43	0.38	1.0
03	Total Hardness (as CaCO ₂)	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)	15 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 CaCOs)	15 3025:Part 23: 1986 Reaffirmed-2019	mg/L	270.0	234.0	200.0

(Authorized Signatory) S.P.Pattanayak Tech, Mar.agar

CIN - U731000R1995PTC003869



GSTIN: 21AAACE6224D1ZE



Environmental Research and Services (India) Pvt. Ltd.

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

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

Test Report Format No.: ERSIPL/FM/40 TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 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 CT C 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 020 Type of Container Glass Bottle & HDPE Bottle 321 Environment Condition : All Tests carried out in Room Temperature

Sample ID. No.

1. ERSIPL/WA/367

2. ERSIPL/WA/368

TEST FINDINGS

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

	Descentions		14 L	Re	sult	Parmin the lines	
SI	Analysed	Analysed Test Method		ERSIPL/ ERSIPL/ WA/ WA/ 367 368		as per 15:10500, 2012	
01	Colour	IS 3025:Part 04: 1983 Reaffirmed-2021	Hazan	<5.0	<5.0	5.0	
02	Odour	15 3025:Part 05:2018	22	A	A	Agreeable (A)	
03	Taste	15 3025:Part 07,05: 1984 Reaffirmed-2017	5.	A	A.	Agreeable (A)	
04	Nitrate as NO ₃	15 3025:Pert 34: 1983 Reaffirmed-2019	mg/L	<5.0	<5.0	45.0	
05	Residual Free Chlorine	IS 3025:Part 26: 2021	mg/L	Nil	Nii	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	NÐ	ND	0.1	
08	Phenolic Compound	IS 3025:Part 43: 1002 Reaffirmied-2019	mg/L	ND	ND	0.001	
09	Mercury	i5 3025:Part 48: 1994 Reaffirmed-2019	mg/L	ND	ND	0.001	
10	Cadmium	15 3025:Part 41: 1992 Realformed, 2019	mg/i,	ND	NÐ	0.003	

CIN - U731000R1995PTC003889



GSTIN: 21AAACE6224D1ZE

Decklass B a Fra



Environmental Research and Services (India) Pvt. Ltd.

(OSPCB 'A' Category Emponelled 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: ensibbsr@gmail.com

					PE NO.	2012
11	Selenium	15 3025-Part 56: 2003 Reaffirmed-2019	mg/L	ND	ND	0.01
12	Total Arsenic	15 3025:Pairt 37: 2022	mg/L	ND	ND	0.01
13	Cyanide	15 3025:Part 27: 1986 Reaffirmed-2019	mg/L	ND	ND	0.05
14	Lead	15 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	Polynuciear aromatic hydrocarbons	APHA 6440	mg/L	ND	ND	0.0001
19	Mineral Oil	15 3025:Part 39: 2021	mg/L	ND	ND	0.5
20	Pesticides	USEPA gas-liquid chromatography	mg/L	ND	ND	12257
21	Aluminium	IS 3025:Part 55: 2003 Reaffirmed-2019	- mg/L	ND	ND	0.03
22	Boron	(5 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.Pattanayah Tech.Manager

... END OF TEST REPORT ...



GSTIN: 21AAACE6224DIZE

Environmental Research and Services (India) Dvt. Ltd.



(An ISO/IEC 17025 : 2017 (HABL) According Laboratory, OSPCB Empanelled Lobaratory and ISO 9081 : 2015 Certified Company)

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

ULR-TC744023000000359F

Test Report Format No.: ERSIPL/FM/40 TEST REPORT (WATER/ WASTE WATER)

TIM PTO ANIA ISOE

Pg No: 1 of 1

Date: 24 July 2023	Test Report No: ERSIPL/TR/WAY 105
Name and Address of the Customer	: MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda,
Date of Sampling Sample Collected by Sample Collected in presence of	04.07.2023 Representative of ERS (I) Pvt. Ltd. Representative of the Customer. 15.07.2023
Sample Received on Analysis Started on Analysis Completed on	: 15.07.2023 : 24.07.2023
Method of Sampling	: IS 17614: Part 1: 2021 2ltrs
Type of Container Environment Condition	: Glass Bottle & HDPE Bottle : All Tests carried out in Room Temperature
Sample ID, No.	Locations

1. Bore Well Water- from Admin Office

2. Bore Well Water- from Mechanical Work Shop

Sample ID, No.

1. ERSIPL/WA/430

Z. ERSIPL/WA/431

TEST FINDINGS

				Result		Permissibio	
S. No.	Parameters Analyzed	Test Method	Unit	ERSIPL/ WA/ 430	ERSIPL/ WA/ 431	Limit as per IS:10500, 2012	
01	nH Value	15 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	15 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	Chioride (as CI)	IS 3025:Part 32: 1988 Reaffirmed-2019	mg/L	9.86	19.71	250.0	
06	Total Dissolved Solids	15 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)	15 3025 (Part 24/5ec 1) : 2022	mg/L	11.87	64,85	200.0	
00	Fluoride (as E)	IS 3025:Part 50: 2008 Reaffirmed-2019	mg/L	<0.1	<0.1	1.0	
10	Alkalinity (as	IS 3025:Part 23: 1986 Reaffirmed-2019	mg/L	160,0	146.0	200.0	

(Authorized Signatory) Pathina ya Tech,Manager





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)

Pg No: 1 of 1

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.

- : 15.07.2023
- ; 15.07.2023
- : 24.07.2023
- : |5 17614: Part 1: 2021
- : 2itrs
- : Glass Bottle & HDPE Bottle
- : All Tests carried out in Room Temperature Locations
 - 1. Bore Well Water- from Admin Office
 - 2. Bore Well Water- from Mechanical Work Shop

Date of Sampling Sample Collected by Sample Collected in presence of Sample Received on Analysis Started on Analysis Completed on Method of Sampling Quantity of Sample Type of Container Environment Condition Sample ID, No.

1. ERSIPL/WA/430

- 2. ERSIPL/WA/431
- TEST FINDINGS

				Re	sult	Permissible timit
sı	Parameters Analysed	Parameters Test Method Analysed	Unit	ERSIPL/ WA/ 430	ERSIPL/ WA/ 431	as per 15:10500, 2012
01	Colour	IS 3025:Part 04: 1953 Reaffirmed 2021	Hazen	<5.0	<5.0	5.0
D2	Odour	15 3025:Part 05/2018	э.	A.	A	Agreeable (A)
03	Taste	IS 3025:Part 07,08: 1984 Reaffirmed-2017	_ 8	A,	A	Agreeable (A)
04	Nitrate as NO ₃	(\$ 3025:Part 34: 1983 Reaffirmed-2019	mg/L	<5.0	<5.0	45.0
05	Residual Free Chlorine	IS 3025 Part 26: 2021	mg/L	Nil	NI	0.2 (min) When chlorinated
06	Copper	15 3025: Part 42: 1992 Reaffirmed 2019	mer	ND	ND	0.05
07	Manganese	15 3025:Part 59: 2006 Reaffirmed-2022	mg/L	ND	ND	D.1
08	Phenolic Compound	IS 3025:Part 43: 1992 Reaffirmed-2019	mell	ND	ND	0.001
09	Mercury	15 3025:Pert 48: 1994 Reaffirmed-2019	mg/L	ND	ND	0.001
10	Cadmium	IS 3025-Part 41: 1992	HER/L	ND	ND	0.003

CIN - U7310/0R1995PTC003889



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

					Pg No:	2 of 2
11	Selenium	15-3025-Part 56: 2003 Reaffirmed-2019	mg/L	ND	ND	0.01
12	Total Arsenic	IS 3025 Part 37: 2022	me/L	ND	ND	0.01
13	Cyanide	IS 3025 Part 27: 1986 Beaffirmed-2019	mg/L	ND	ND	0.05
14	Lead	15 3025 Part 47: 1994 Reuffirmed-2019	mg/L	ND	ND	0.01
15	Zinc	15 3025 Pers 49, 1994 Reaffirmed-2019	me/L	ND	ND	5.0
16	Anionic detergents	IS 19428 (2005 Reaffirmed-2019	rig/L	ND	ND	0.2
17	Total Chromium	15 3025:Part 52: 2003 Beatfirmed-2019	mell	ND	ND	0.05
18	Polynuclear aromatic hydrocarbons	ZARHA/6440	mg/L	ND	ND	0.0001
19	Mineral Oil	IS 3025 Part 39: 2021	mg/L	ND	ND	0.5
20	Pesticides	USEPA gat-liquid chromatography	me/L	ND	ND	
21	Aluminium	15 3025:Part 55: 2003 Reaffirmed-2019	mg/L	ND +	ND	0.03
22	Boron	15 3025:Part 57: 2021	mg/L	ND	ND	0,5
23	Nickel	15 3025:Part 54: 2003. Reaffirmed-2019	mik/s	NO	ND	0.02

ND-Not Detected

(Authorized Signatory)

S.P.Pattanayak Tech.Mariager

... END OF TEST REPORT ...



Environmental Research and Services (India) Pvt. Ltd.

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



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 ULR-TC744023000000476F TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

94703-956-9	0.0.0	947.40	de St Rend		
Name	and	Add	ress of	the	Customer

Date: 06 SERT 2023

Date of Sampling Sample Collected by Sample Collected in presence of Sample Received on Analysis Started on Analysis Completed on Method of Sampling Quantity of Sample Type of Container Weather Condition Atmospheric temperature

Sample ID. No.

1_ERSIPL/WA/559

- 2. ERSIPL/WA/560
- TEST FINDINGS

Dist: Jharsuguda, Odisha : 29.08.2023 5. samantaray, Field assistant, ERS(I) Pvt. Ltd Representative of the Customer. 01.09.2023 01.09.2023 + 05.09.2023 . : As per Applicable Test Method

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

Test Report No: ERSIPL/TR/WA/243

- 2ltrs Glass Bottle, HDPE Bottle & BOD Bottle
- : Overcast
- : 33 °C

Locations

1. Bore Well Water- from Admin Office

2. Bore Well Water- from Mechanical Work Shop

				Result		Permissible	
S. No.	Parameters Analyzed	Test Method	Unit	ERSIPL/ WA/ 559	ERSIPL/ WA/ 560	klmit as per (5:10500, 2012	
01	pH Value	15 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 ₁)	IS 3075-Part 21: 2009 Reaffirmed-2019	mg/L	122.0	168.0	200.0	
04	iron (as Fe)	15 3025:Part 53: 2003 Reaffirmed 2019	mg/L	0.06	0.08	0.30	
05	Chloride (as CI)	IS 3025:Part 32: 1988 Reaffirmed-2019	mg/L	11.83	20.70	250.0	
06	Total Dissolved Solids	15 3025:Part 16: 2023	mg/1	258.0	363.0	500.0	
07	Calcium (as Ca)	15 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)	15 3025:Part 60: 2008 Beaffirmed-2019	mg/L	<0.1	<0.1	1.0	
10	Alkalinity (as CaCO ₃)	15-3025:Part 23: 1986 Reaffirmed-2019	mg/L	162.0	150.0	200.0	

Note

The lest results relate only to the forms sampled and tested. 1

Total Liability of EPS In Pvt. Ltd. is immed to the Immice Amount. 2. This certificate shall not be reproduced fully or in part without prior written consent of FRS (I) Pie. Ltd. .

Samples (filter Papers & Thambles) received shall be destroyed after 01 year & Gaussian/liquid samples received shall be 4. destroyed after 07 days from the date of tisse of the test report, unless otherwise

This report shall not used in any advertising media or as evidence in the most of a 5.1

Authbrized Signator





GSTIN: 21AAACE6224D1ZE



Environmental Research and Services (India) Dvt. Ltd.

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

Plot No: 8-22, Sector-B, Industrial Estate Chandaka, Infocity Road, Bhubaneswar-751024, Odisha Tel: +91-9437021932, +91-9937690329, E-mail: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/40 TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date:	06	SEPT	2023	

Name and Address of the Customer

Date of Sampling Sample Collected by Sample Collected in presence of Sample Received on Analysis Started on Analysis Completed on Method of Sampling Cuantity of Sample Type of Container Weather Condition Atmospheric temperature

Sample ID. No.

1. ERSIPL/WA/559

ERSIPL/WA/560

TEST FINDINGS

Test Report No: ERSIPL/TR/WA/T-243 : MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Iharsuguda, Odisha 29.08.2023 5. samantaray, Field assistant, ERS(I) Pvt. Ltd . Representative of the Customer. : 01.09.2023 : 01.09.2023 05.09.2023 . : As per Applicable Test Method 2ltrs : Glass Bottle, HDPE Bottle & BOD Bottle : Overcast : 33 °C Locations

1. Bore Well Water- from Admin Office

2. Bore Well Water- from Mechanical Work Shop

			194	Re	sult	Permissible Limit	
SI	Analysed	Test Method	Unit	ERSIPL/ WA/ 559	ERSIPL/ WA/ 560	as per 15:10500, 2012	
01	Calour	15 3025:Part 04: 1983 Reaffirmed-2021	Hazen	<5,0	<s.0< td=""><td>S.0</td></s.0<>	S.0	
02	Odour	IS 3025:Part 05:2018	-	A	A	Agreeable (A)	
60	Taste	15 3025 Part 07,08: 1984 Reaffirmed-2017	¥1	A	A	Agreeable (A)	
04	Nitrate as NO ₃	IS 3025:Part 34: 1983 Reaffirmed-2019	nsg/L	<5.0	<5.0	45.0	
05	Residual Free Chlorine	15 3025:Part 26: 2021	mg∕L	Nil	Nil	0.2 (min) When chlorinated	
06	Copper	15 3025 Part 42: 1992 Reaffirmed-2019	mg/L	ND	ND	0.05	
07	Manganese	15 3025:Part 59: 2006 Reatfirmed-2022	mg/L	ND	ND	0.1	
08	Phenofic Compound	15 9025: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:Pavt 41: 1992 Reatfirmed-2019	mg/L	ND	ND	0.003	

CIN - 0731000R1995PTC003869



GSTIN: 21AAACE6224D1ZE



Environmental Research and Services (India) Dvt. Ltd.

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

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

11	Selenium	IS 3025(Part 56) 2003 Reaffirmed-2019	mg/L	ND	ND	10.01
12	Total Arsenic	IS 3025:Part 37: 2022	mg/L	ND	ND	0.01
13	Cyanide	15 3025 Part 27: 1985 Reaffirmed-2019	mg/L	ND	ND	0.05
14	Lead	15 3025 Part 47: 1994 Reaffirmed-2019	mg/L	ND	ND	0.01
15	Zinc	15 3025:Part 49: 1994 Reaffirmed-2019	mg/l	ND	NĐ	5.0
16	Anionic detergents	IS 13428 :2005 Reaffirmed-2019	mg/L	ND	ND	0.2
17	Total Chromium	15 3025:Part 52: 2003 Reaffirmed-2019	mg/L	ND	ND	0.05
18	Polynuclear aromatic hydrocarbons	APHA 5440	mg/L	ND	ND	0.0003
19	Mineral Oil	15 3025:Part 38: 2021	mg/L	ND	ND	0.5
20	Pesticides	les USEPA gat-liquid contributography		ND	ND	-
21	Aluminium	minium IS 3025:Part 55: 2003 Reathrmed-2019		ND	ND	0.03
22	Boron	IS 8025:Part 57: 2021	mg/L	ND	ND	0.5
23	Nickel	(\$ 3025:Part 54: 2003 Reaffirmed-2019	mg/L	ND	ND	0.02

ND-Not Detected

zed Signatory)

... END OF TEST REPORT



Environmental Research and Services (India) Pvt. Ltd.

TC-7440

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

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

Date: 25 SERT 2022

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

00110-20	SET I LULS	
Name ar	d Address of the Customer	

Date of Sampling Sample Collected by Sample Collected in presence of Sample Received on Analysis Started on Analysis Completed on Method of Sampling Quantity of Sample Type of Container Weather Condition Atmospheric temperature

Sample ID. No.

1. ERSIPL/WA/590

2. ERSIPL/WA/591

TEST FINDINGS

 MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
 01.09.2023
 R Jena, Field Supervisor, ERS(I) Pvt. Ltd
 Representative of the Customer.
 04.09.2023
 04.09.2023
 13.09.2023
 As per Applicable Test Method
 2ltrs
 Glass Bottle, HDPE Bottle
 Sunny
 31 °C
 Locations

1. Bore Well Water- from Admin Office

Test Report No: ERSIPL/TR/WA/252

2. Bore Well Water- from Mechanical Work Shop

			-	Result		
S. No.	Parameters Analyzed	Test Method 👘	Unit	ER51PL/ WA/ 590	ERSIPL/ WA/ 591	Vermissible Limit as per IS:10500, 2012
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	No	7.05	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 last results relate only to the items sampled and tested.

2. Total Liability of ERS (I) Pvt. Ltd. & limited to the invoice Amdunt.

This certificate shall not be reproduced fully or in part without prior written consent of ERS (i) Pet. Ltd.

 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.

This report shall not used in any advertising media or as evidence in the court of low without prior written consent of ERS (i) evi, use

(Authorized Signatory) S.P.Pattanavak





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)

Pg No: 1 of 1

Date: 25 SEPT 2023

Test Report No: ERSIPL/TR/WA/T-252

Name and Address of the Customer

Date of Sampling

Sample Collected by Sample Collected in presence of Sample Received on Analysis Started on Analysis Completed on Method of Sampling Quantity of Sample Type of Container Weather Condition Atmospheric temperature

Sample ID. No.

1. ERSIPL/WA/590

2. ERSIPL/WA/591

TEST FINDINGS

- : MSP Metallics Limited, Village: Marakuta, Tehsii: Jharsuguda, Dist: Jharsuguda, Odisha
- 01.09.2023
- R Jena, Field Supervisor, ERS(I) Pvt. Ltd
- : Representative of the Customer.
- : 04.09.2023
- : 04.09.2023
- 13.09.2023
- As per Applicable Test Method
- 2ltrs
- Glass Bottle, HDPE Bottle
- Sunny
 - 31 °C

Locations

1. Bore Well Water- from Admin Office

2. Bore Well Water- from Mechanical Work Shop

			14	Re	Permissible Umit		
SI	Analysed	Test Method	Unit	ERSIPL/ WA/ 590	ERSIPL/ WA/ 591	as per 15:10500, 2013	
01	Colour	IS 3025:Part 04: 1983 Reaffirmed-2021	Haten	<5.0	<5.0	5.0	
02	Odour	(\$ 3025:Part 05:2018	+	A	A	Agrenable (A)	
03	Taste	IS 3025:Part 07,08: 1984 RealTirmed-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: 2021	mg/L	Nil	Nil	0.2 (min) When chlorinated	
06	Copper	15 3025:Part 42: 1992 Reaffirmed-2019	mg/L	ND	ND	0.05	
07	Manganese	15 3025:Part 59: 2006 Reaffirmed-2022	mg/L	ND	ND	0.1	
80	Phenolic Compound	15 3025:Part 43: 1992 Reaffirmed-2019	mg/L	ND	ND	0.001	
09	Mercury	15 3025:Part 48: 1994 Reaffirmed-2019	mg/L	ND	ND	0.001	
10	Cadmium	15 3025:Part 41: 1992	mg/L	ND.	ND	0.003	

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

					Pg No:	2012
11	Selenium	15 3025:Part 56: 2003 Reaffirmed-2018	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: 1985 Reaffirmed-2019	mg/L	ND	ND	0.05
24	Lead	45 3025/Part 47: 1994 Reaffirmed-2019	mg/L	ND	ND	0.01
15	Zinc	15 3025:Part 49: 1994 Reaffirmed-2019	mg/L	ND	ND	5.0
16	Anionic detergents	15 13428 :2005 Reaffinned-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 5440	mg/L	ND	ND	0.0001
19	Mineral Oil	15 3025 Part 39: 2021	mg/L	ND	ND	0.5
20	Pesticides	USEPA gas-liquid chromatography	mg/L	ND	ND	
21	Aluminium	15 3025:Part 55: 2003 Reatfirmed-2029	mg/L	ND	ND	0.03
22	Boron	15 3025:Part 57: 2021	/lam	ND	ND	0.5
23	Nickel	15 3025:Part 54: 2003 Reaffirmed-2019	mg/L	ND	ND	0.02

ND-Not Detected

(Authorized Signatory) S.P.Pattanayak Tecn.Mar.ager

..., END OF TEST REPORT ...

ANNEXURE-X ORISSA METALLURGICAL INDUSTRY PRIVATE LIMITED CIN: U27209WB2019PTC234381 E-mail: info.omipt@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.

LURGICAL INDUSTRY PRUATE UNITED thorized Signatory (Authorized Signatory)



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_rci@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)

VILL & PC: MARAGUTA LHARBUGUDA - VERZE HDDA State Code: 2:1 State Name Contact Detail: State Code: State Name State Name Contact Detail: Name Code: Name State Code: State Name Code: State Code: State Name Code:	VILL & VILL & Rate Code : 21 Izte Name : Odixha ISTIN/Unique ID : 21AACCA5907D1 IN No. : U27105WB1996P	PO - MARAKUTA	JHARS	UGUDA - 768 PAN N	202 INDIA 0. TAACCA	5907D	0420034			
VILL & PO : MARAGUTA JHAREUDIA - 75502 MDA State Code: :: 21 PAN No: :: ACCOMBINED State Vance: :: 2016aba Contact Deall :: : STATE Code: :: 201700/WB1908/RLC002138 Dispatch From :: :: :: :: :: :: :: :: :: :: :: :: ::	VILL & Rate Code : 21 Rate Name : Oduna ISTIN/Unique ID : 21AACCA5907D1 IN No. : U2710SWB1996P	PO : MARAKUTA	JHARS	UGUDA - 768 PAN N	202 INDIA 9. TAACCA	45907D	2003			
State Code : : : : : : : : : : : : : : : : : : :	Rate Code : 21 Rate Name : Odkha ISTIN/Unique ID : 21AACCA5907D1 IN No. : U27105WB1996P	7.0		PAN N	D. TAACCA	50070	7	Constant of the second	25.942	S ADD A DOWN
Site Name : Oddina Constant Co	Itate Name : Odixha ISTIN/Unique ID : 21AACCA5907D1 IN No. : U2710SWB1996P	10		Bertel		N No. TAACCA5907D				に安全ない
SSTINUTIONE DE 21/AACCAS9970122 DE CONTACT DE 2014ACCAS9970122 DE CONTACT DE 2014ACCAS9970122 BINE OF : LOZTONNE HISBARLORDE JAN BINE OF : LOZTONNE HISBARLORDE JAN BINE OF : LOZTONNE HISBARLORDE JAN BINE OF : LOZTON HISBARLORDE JAN BINE OF : LOZTON HISBARLORDE JAN BINE OF : LOZDE : LINKE DAU BINE OF :	ISTIN/Unique ID : 21AACCA5907D1 IN No. : U2710SWB1996P	10		Gantag	i Dotail		100	的特别的	145	的导致
	IN No. : U27109WB1996P	De					3	FR. CHAR	(余)	
Dispatch From : Implice Mo:: Dispatch From : Di	NAMES OF TAXABLE PARTY OF TAXABLE PARTY.	10082138					9	型化图画	FRAN	的一种"ALIA"
Bine To: RASHMI CEMENTS LIMITED-U-1 RASHMI RASH RASHMI RASHMI RASH RASHMI RASHMI RASHMI RASH RASHMI RASH RASHMI RASH RASHMI RASH RASHMI RASH RASHMI RASH RASHMI RASH RASHMI RASHMI RASH RASHMI RASH RASHMI RASH RASHMI RASH RASHMI RASH RASHMI RASHMI RASH RASHMI RASHMI RASHMI RASH RASHMI RASHMI RASHMI RASH RASHMI RASHMI RASHM	Aspaton From						2	1.3.10		
Billed To : RASHMI CEMENTS LIMITED-U-I RASHMI RASHROND, IARICULALING DISTALLINGUN RUMATING							ê	197 6 2 2	中的自	連續的中
RASHMI CEMENTS LIMITED-U4 Might SALRONS. Cop. DistruktARGHAM. (Instit): JAARGHAM. 1721007 STATE CODE: 19 STATE: Viewit Beingel PAR MO AddCHENSIN STATE: Viewit Beingel No. AddCHENSIN STATE: Viewit Beingel STATE: Viewit Beingel STATE: Viewit Beingel STATE: Viewit Beingel No. AddCHENSIN STATE: Viewit Beingel STATE: Viewit Be	filled To :		-		Involce No.	701812314395		Billing Date : 2	4044-20120	1
And No. Cap UST - ALARDA ALE DENSE. JAKAR GRAAM - T21107 AD NO. Cap UST - ALARDA ALE DENSE. JAKAR GRAAM - T21107 TATE CODE 19 STATE: ViewI Beingel PAN NO ALICPHISTIR GSTN: 19AABCRASAIRT28 LIT FCT. No. LC Date : LR No. : LR Date : Agent Area : Caption Chemical Captor of Captor Area : Captor Captor	ASHMI CEMENTS LIMITED-U-I				100 Bio	allowed.	-	SD Date : 0	2:10:2011	_
STATE CODE: 97.0.3823 Challan No., 701812314306 Challan No., 701812314306 STATE CODE: LC Date: The: LC Date: LC: LC Date: The: LC Date: LC: LC Date: RAMENTED: LC Date: </td <td>ARAGARH SALEON, CALDIST JHARE</td> <td>RAM CONTRACT</td> <td>REFRAM</td> <td>721507</td> <td>Buyer's Onty</td> <td>w has</td> <td></td> <td>Date</td> <td></td> <td></td>	ARAGARH SALEON, CALDIST JHARE	RAM CONTRACT	REFRAM	721507	Buyer's Onty	w has		Date		
STATE CODE: 19 STATE: Vent Bengel Challen No. 701812214308 Challen Date: YAR NO. XARCH43238 GSTN: ISAABCR43383 LTT CT. No. LTT CT. No. YAG: LC Date: KR No. KR No. LTT CT. No. YAG: LC Date: KR No. Agent Xame: Agent Xame: YAG: LC Date: KR No. KR No. Agent Xame: YAG: LC Date: KR No. Agent Xame: Agent Xame: SARMIC CONSTRUCT DETAIL Face: Of Supply: Pace: Of Supply: Pace: Of Supply: SARTE CODE: 18 STATE: Vent Bergel Pace: Of Supply: Pace: Of Supply: SARTE CODE: 18 STATE: Vent Bergel Pace: Of Supply: Pace: Of Supply: SARTE CODE: 18 STATE: Vent Bergel Pace: Of Supply: Pace: Of Supply: SARTE CODE: 18 STATE: Vent Bergel Pace: Of Supply: Pace: Of Supply: SARTE CODE: 18 STATE: Vent Bergel Pace: Of Supply: Pace: Of Supply: SARTE CODE: 18 STATE: Vent Bergel Pace: Of Supply: Pace: Of Supply: SARTE CODE: 18 STATE: Vent Bergel Terms Of Pagment No: Weight: 107,460 Gross State: DETA: DETA	4040				C121435550			07.10.2023		
PAN RO ALGERIANS GATN : SAABCRAASHITZS CONTACT DE TAL : No. LC Date : Agent Xaans : RAME CAREARS SIDE (Very) RASHIN CEMENTS LIMITED J-J Agent Xaans : Container Ko. ! Container	TATE CODE 19 ST	TE : West Gongal			Challan No. (701812314396			Chailan Date		
CONTACT DETAIL LC Date LR Mo LR Date *No. LC Date LR Mo LR Date Ansite Contract DetAil Agent Name Agent Name Agent Anna Contract DetAil Container No. 1 Seal No. 1 Seal No. 1 Data Container No. 1 Seal No. 1 Seal No. 1 Data Of Supply STATE CODE /18 STATE : West Bangail Distance Name Distance Name Distance Name PAN NO. AddChashilar GSTN : 19A/ABCHA4HIP IZS Term Of Payment Term Weight : 12.480 Contract DETAIL : E-Warybill Date : Term Of Payment Term Weight : 12.480 RN : 1127244603046 th*Introduced/hibble@ioash844520;0000000000000000000000000000000000	AN NO. AARORADED GS	TIN : 19AABCR4343	R128		LUT / OT N	p.,		LUTICT. Date :		
'Ho.: LC Date: IR No. LR Date: Schipped To.: (Address-of Delivery) Agent Anna : Agent Anna : Schipped To.: (Address-of Delivery) Agent Anna : Agent Anna : Schipped To.: (Address-of Delivery) Agent Anna : Agent Anna : Schipped To.: (Address-of Delivery) Agent Anna : Agent Anna : Schipped To.: (Address-of Delivery) Extension Place Of Supply: Schipped To.: (Address-of Delivery) Place Of Supply: Place Of Supply: Schipped To.: (Cottainer No.: (Date Of Numply: Place Of Supply: Schipped To.: (Cottainer No.: (Cottainer No.: (Cottainer No.: Schipped To.: (Schipped To.: (Cottainer No.: (Cottainer No.: Schipped To.: (Schipped To.: (Schipped To.: (Schipped To.: Schipped To.: (Schipped To.: (Schipped To.: (Schipped To.: <	DNTAGT DETAIL			_			_			
SATIONE TO : : Address of Derivery }: RASHMI CEMENTS LIMITED-U4 RASHMI CEMENTS LIMITED-U4 RASHMI CEMENTS LIMITED-U4 RASHMI CEMENTS LIMITED-U4 RASHMI CEMENTS LIMITED-U4 RASHMI CEMENTS LIMITED-U4 Seal No. : Container No. : Seal No. : Seal No. : Container No. : Seal No. : Seal No. : Container No. : Seal No. : : Seal No. : : Seal No. : Seal No	* No. :	LC Date :			LR No.	4		LR Date		
RASHMUCEMENTS LIMITED-UI RASHMUCEMENTS RASH	nipped To : (Address of Delivery)				Agent Name	6 81		Agent Area :		
PARLIC CAPIT SALEONI, Cer, DIST-JAARORAM, Dange JAARDRAM, 721507. PARLIC CAPIT SALEONI, Cer, DIST-JAARORAM, Dange JAARDRAM, 721507. STATE CODE 119 STATE : Weith Blands Dane Of Suppry. 2010 OF Suppry. 2011 OF Suppry. 2010 OF Suppry. 20	LASHMI CEMENTS LIMITED-U-				Container N	la, t		Seal No. :		
STATE CODE 18 STATE West Series PAN NO. AAGCTASTER GSTN 190AGCGASTER Terms OF Payment Tars Weight 127.460 CONTACT DETAIL E-Waybill Date Mit Date Terms OF Payment Tars Weight 127.460 RN ************************************	ARUCOARH BALBONI, City DIST-JHARD NDIA	WRAM District JHAS	RGRAM	- 721507 -	Date Of Sup 26-11-2023.	viy - 10:38,16		Place Of Supp WEST HENGA	b(=	
PAN ND. PAGE TAL34302 GSTN: 1194/4BCR43434125 Terms Of Payment Net Due in 20 Days Tare Weight: 112.480 Gross Weight: 120.480 Gross Weight: 120.480 Net Weight: 120.480 E-Wayshill Net. E-Wayshill Date: Net Due in 20 Days Tare Weight: 120.480 Gross Weight: 120.480 IRN 110764462040 tor/HS386.tor/HS6860.tor/HS6	TATE CODE 119	STATE West Bury	0.0		Dispatch Th	rough :DALA 50	άν?	Vehicle No	W8273#	15
CONTACT DETAIL : Net Due in 20 Days Gross Weight : :20::360 E-Warghill Neil . E-Warghill Neil .	SAN NO. IAABCR4343R	GSTIN TIRAABCR	434381	25	Terms Of P	ayment		Tare Weight: :	12,480	
E-Marghell Rei E-Warghell Date Net Weight : 20:360 IRN 1107454615246 (11195365121 See add/tildeElbue304457400003197364) Acts. Date: (2023-51-26 18:39-50) IRN 10074 (1195365121 See add/tildeElbue304457400003197364) Acts. Date: (2023-51-26 18:39-50) IRN 10074 (1195365121 See add/tildeElbue304457400003197364) Acts. Date: (2023-51-26 18:39-50) IRN 10074 (1195365121 See add/tildeElbue304457400003197364) Acts. Date: (2023-51-26 18:39-50) IRN 10074 (1195365121 See add/tildeElbue304457400003197364) Acts. Date: (2023-51-26 18:39-50) IRN 10074 (11975612) IRN	CONTAGT DETAIL				Net Due in 3	O Days		Gross Weight	42.840	
Implication Implication <thimplication< th=""> <thimplication< th=""></thimplication<></thimplication<>	i Alexyndd Wein	E-Waybil	Date					Mart Winterfet	10/368	
Image Image <th< th=""><th>RN SciPC42</th><th></th><th></th><th>Han .</th><th>Ack. Date. Que</th><th>(2023-51-24</th><th>te 30-cc Nate</th><th>LUCH#</th><th>ť</th><th>olal States</th></th<>	RN SciPC42			Han .	Ack. Date. Que	(2023-51-24	te 30-cc Nate	LUCH#	ť	olal States
Testi 20.000 Testi 20.000 Control Contro Control Contro Contr	I URANULATED DLAG			180000		29 160	41000	M7	-0	the the
Total in table in young and a table in term and the set in tables and tables and tables and tables and tables and t					Total	29.368				12.616.0
Original Yeah Merekia Value Yeah Merekia Value Yeah	Goodle Make Institute 1 (1991) SEMENTEEN THE	UNANO NO HUMORISC	NUMPER:	N HOHEESS	(0357)					301
Multiple	076.1				Total In	voice Value				1904000
Jin Type Gross Invoice Value : 18,497 Amount Charge Halos words : THR - EIGHTEEN THOUBAND FOUR HUNDREED INNETY REVEN RUPEEN ONLY 100000 100000 100000	- The Control of the	ERNATY RUPSES EN	HIYPAI	NE SHEK	Hournbr	iș Off		_		1
Amoun Chargemenye works MR - EXONTEEN THOURAND FOUR HUNDRED NINETY BAYES NUMEER ONLY Histophi Teacher COST SQETU/GOT NORT SQETU/GOT NORT CERN 25/10000 17.416.01 0.00 0.00 0.00 0.05 1.00 NORT 24m 4m 25/10000 17.416.01 0.00 0.00 0.00 0.05 9.00 NORT 4m 25/10000 17.416.01 0.00 0.00 0.00 0.00 9.00	Tul (Abs.				Gross In	voice Value :		_	_	18,497.0
Million Texable Value COST ISOTODOST ISOT COST COST <thcost< th=""> COST<</thcost<>	Amount Chargeanader wordal / INR - EIGHTEE	THOUBAND FOUR H	UNDITER	NINETY REVEN RD	UPEER ONLY	Contraction of the local sectors of the local secto	£1	The Mark		THINK .
Internal According to the second of the production of the pro	HEREAD	Taxabie Value	75 TOT	COST	0-2011	BOSTINOST	27 11	HAST	Avres 1	cenn
Control Internation Control Internation <thcontrol internation<="" th=""> Control Internation</thcontrol>			1999	:Amt	Fam	Ann	P.500	405	83.8	All
Cotal FY 5/6 db C.SO Excel Terms & Conditions :	-25(800)0	17.0010.00	0.00		0.001 0.00:	0.1	Q 15.00	MDO.NI	-	1.2
Dist Propriet Transporter Dist Propriet Transporter	- torga	77 5 16 (0)		_	2.30	ų.	0	10.2	5	- 50
Prompt Back Treesponse Reported State of a dial proceeding and the second and a second reported for an and a second the second reported for an and a second for an	STT Parable on Revenue Charges - NO									
The same and that if particulars are the and and the same is a single same if any same is an and a same is a single same if any same is a same is a single sam	formed Back					-	-	-	HIC R.	
Exclusion and the next the next the second from all all provided are the provided and the and the second term of term	Incoding Biogenetics						Contraction of the local distribution of the	are the state of a		
Bank Details : Bank Details : Bank None Res At her The a Computer Communit None None Computer Communit None	Galaties and an end and an end of the state	Warner of His and Million	(11) (11) (11)		1112 and 11111	Service Average Tables	Comments II.	to all a set all branch	a	
Bank Details : Bank Norm Bank Norm Bank Norm There a Computer Computer Computer Conty.		•	_	a a cara dan bitan san a			_		_	
Bank Details For MSP Motenics Bank Details B	and an and a second								12 122	E antes es
Bank All fair Dark All fair This is a Computer Device Note: Subject to Midnager Jurisdiction Only.									For MS	AP-INOTHINGS LT
This is a Completed Demonstrated Involver Notes Reduced to Midmapur Juris Birther Only.	Bank barre		matrice						Ath	Hieramit September 6
	Bark home Bark AC he								10.214	

SP Metallics Ltd. ARAKUTA JHARSUGUDA - 788202 INDIA PAN Na; : AACCA5907D Contact Detail : 33	MSP Metallics Ltd. VILL & PO MARAKUTA JHARSUGUDA - 768202 INDIA PAN No. : AACCAS907D Contact Detail : TAACCAS907D1.2C 27108WB 1990PLC082133
SP* INTEGRATION STATION, INA RALWAY STATION, IDA - 768202, INDIA PAN Na, : AACCA5907D Contact Detail : 38 International Contact Detail : 39 International Contact Detail : 30 International Contact Deta	VILL & POI MARAKUTA JHARSUGUDA - 768202 INDIA PAN Ng. : AACCA5907D Mar Contact Datail : TAACCA5907D12C 27108WB1996PL0082135
International State International State <thinternate< th=""> International State <th< td=""><td>VILL & POLIMARAKUTA JHARSUGUDA - 768202 INDIA PAN Ng. : AACCA5907D Marine Contact Detail : IAACCA5907D1ZC 27106WB1996PL0082135</td></th<></thinternate<>	VILL & POLIMARAKUTA JHARSUGUDA - 768202 INDIA PAN Ng. : AACCA5907D Marine Contact Detail : IAACCA5907D1ZC 27106WB1996PL0082135
PAN No. : AACCA5907D Contact Detail : 38 TRA RAILWAY STATION, DA - 718202 , NDIA AACLEA42L12M RA RAILWAY STATION, DA - 718202 , NDIA AACLEA42L12M RA RAILWAY STATION, DA - 718202 , NDIA AACLEA42L12M RA RAILWAY STATION, DA - 718202 , INDIA AACLEA42L12M RA RAILWAY STATION, DA - 718202 , INDIA AACLEA42L12M RA RAILWAY STATION, DA - 718202 , INDIA AACLEA42L12M RA RAILWAY STATION, DA - 718202 , INDIA Chailen No. : 701812034415 Chailen Date : LIT / CT. No. LIT / C	PAN Ng. : AACCA5907D Contact Detail : IAACCA5907D1ZC 27105WB1996PL0082138
Contact Detail : So No: : 191259 SO Date : 00.11.2022 Bilger's Order No: Date : 27.11.2023 Contact Detail : Container No. : Seat No: : Container No. : Dispatch Through :DALA BODY	Contact Datail : IAACCA5907D1ZC 27T08WB1990PL0082133
33 TRA RAILWAY STATION, IDA - 700202 NOVA TRA RAILWAY STATION, IDA - 700202 NOVA RA RAILWAY STATION, IDA - 700202 NOVA RA RAILWAY STATION, IDA - 700202 NOVA TRA RAILWAY STATION, IDA - 7	1AACCA5907D1ZC 27109WB1996PL0082135
33 FPA RAILWAY STATION, IDA - 708202, NDDA FRA RAILWAY STATION, IDA - 708202, INDDA FRA RAILWAY STATION, IDA - 708	27108WB1996PL0082135
Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview AACL6442L1204 LUT / CT. Np. LUT / CT. Date : Interview Interview AACL6442L1204 LIR No. : LIR Date : Interview Interview RA RAILWAY STATION. LIR No. : LIN Date : Interview Interview RA RAILWAY STATION. Date Of Supply LIN Date : Interview Interview RA RAILWAY STATION. Date Of Supply Interview Interview Interview RA RAILWAY STATION. Date Of Supply Interview Interview Interview IDATE Of Supply Interview Interview Interview Interview IDATE Of Supply Interview Interview Interview Interview IDATE OF Payment Anderview Interview Interview Interview IDATE OF Payment Anderview	
Invoice No. : 701812314415 Nilling Date : 27-11-2023 SO No. : 101239 SO Date 00.11.2023 SO No. : 101239 SO Date 00.11.2023 Buyer's Criter No. Mail Date 00.11.2023 Itta Challan No.: 701812314415 Challan Date : AACL8442L12M LUT / CT. No. LUTRT. Date : e : LR No. : LUT CT. No. RA RAG.WAY STATION. IDA - 768202 ; INDIA Container No. : Seal No. : RA RAG.WAY STATION. IDA - 768202 ; INDIA Date Of Supply 27-11-2023 (15:03:08 Place Of Supply 0DiteA Obsers Dispotch Through (DALA BODY Vehicle No. : OCI1684787 ITAAACL94481.12M Terms Of Payment Admining Tare Weight : 14.000 E-Waybill Date :	III TANKA S 'URANA ANA ANA ANA ANA ANA ANA ANA ANA ANA
SO No: 1191299 SO Date 00.11.2020 HIA - 708202 , INDIA Buyer's Order No: Mail Date 00.11.2020 HIA - 708202 , INDIA Buyer's Order No: Mail Date 00.11.2020 HIA - 708202 , INDIA Challan No: -701812/3144155 Challan Date AACLEA420112M LUT / CT, No. LUT/CT, Date : # 1 LR No. Sant No: # 1 LR No. Sant No: PAR RAA, WAY STATION: IDA - 708202 , INDIA Of Supply 27-11-2023 (15:93.98) Agent Area I Container No.: Sant No: Sant No: RA RAA, WAY STATION: IDA - 708202 , INDIA Date Of Supply 27-11-2023 (15:93.98) Oblish A Costnie Dispetch Through (DALA BODY) Vabicle No. : ODI1654787 ZHAAACLA4435 (12M) Terms Of Payment Adiciance Tare Weight : 14.000 Grous Weight : 52 700 Net Weight : 38 700 Elear 10a770+D3c1478/70;293257 Ack No. 11523140/29555610 Ack: Date Terms Of Value Materia Stear 10a770+D3c1478/70;293257 Ack No. 11523140/29555610 Ack: Date :2023-11:27 15:04:00 Terms Value Weight 100000 Weight 10000 Not	Invoine No. + 701813314415 BUILDED Date - 72.11.2023
Price Real WAY STATION, IDA - 788202, INDIA Point With The Price State State Price State AACLEA402L12/M Challen No701812334415 Challen Date : AAACLEA402L12/M Challen No701812334415 Challen Date : AAACLEA402L12/M LUT / CT. No. LUT/CT. Date : Mil State LN Date : Mil State LN Date : Mil State Agent Area Date Of Supply: Challen No. : State Date Of Supply: Challen No. : CDISH/A Date Of Supply: Challen No. : CDISH/A Container No. : Dispatch Through :DALA BODY Vehicle No. : Columnary Terms Of Payment Tare Weight :14:000 Group Weight: Columnary Not Weight :13:8700 EvWay/bill Date : :2023:11:27:15:04:001 Not Weight :13:8700 Stear 100:27Dx000 Mak State Mile	FLIMITED
Mail DR.11.2023 AACLE8442L12M Challen No.::701812314415 Challen Date :: AACLE8442L12M LUT / CT. Np. LUT/CT. Date :: e : LR No. :: LR Date :: Agent Area Agent Area Container No.:: Seal No.: Date Of Supply: Place Of Supply 27-11-2023;15:03:96 ODISHA Dispatch Through (DALA BODY) Vahicle No. : CODI:EBa767 21AAACL:8442L12M Dispatch Through (DALA BODY) Vahicle No. : CODI:EBa767 E-Way/bill Date : Tare Weight ::14.000 Gross Weight ::38.700 E-Way/bill Date : ::2023:11:27.15:04:00 Net Weight ::38.700	ENT WORKS, NEAR DEUTRA RAILWAY STATION, BUYE'S CIDER NO. Date 04.11.2022
Itsa Challan No. 101812314415 Challan Date = AAOLB442L12M LUT / CT. Np. LUT /CT. Date = a : LR No. : LR Date : a : LR No. : LR Date : Agent Arms : Agent Arms : Agent Arms : Container No. : Seal No. : Otiother Arms : IDate Of Supply : Date Of Supply : Otiother Arms : IOdene : Dispatch Through :DALA BODY Vehicle No. : ODI1684787 IDAAACL6442L12M Terms Of Payment Administic Admininter Administic Administic Administic A	Mail D9.11.2023
Interviewent new LUT / CT, No. LUT/CT, Date : a : LR No. : LR Date : a : LR No. : Agent Name : Agent Name : Agent Area Container No. : Seal No. : Date Of Supply Place Of Supply : Odeme Dispatch Through :DALA BODY Dispatch Through :DALA BODY Value No. : (OD):E84787 21AAACL:R443L12M Terms Of Payment Admining E-Waybilt Date : : Dispatch Through :DALA BODY Value No. : (OD):E84787 E-Waybilt Date : : Max Admining Statt 10:271:403c1474(76/2930):7 Ack Ne. : (1823:54929808:10) Ack: Date :2023:11:27:15(04:00) Max Questing Max Questing	STATE : Odulta Challen No 701812314415 Challen Date :
A LR No. LR Date Agent Name Agent Area Container No.: Seal No. Date Of Supply. Place Of Supply Dispatch Through (DALA BODY Vehicle No. : OD(1884787) E-Wayblit Date : Tarres Of Payment E-Wayblit Date : 1823140/29500010 E-wayblit Date : 1823140/29500010 Ack: Data :2023-11/27.15/04:001 Main Quentity Not Tates Vehice Not Tates Vehice Not Tates Vehice	1000128 LUT/CT, No. LUT/CT, Date :
Agent Name Agent Area Container No.: Seal No.: Date Of Supply: Place Of Supply: Date Of Supply: 27-11-2023;15:03:06 Odems Dispatch Through (DALA BODY) 21AAACL/6442L12M Dispatch Through (DALA BODY) E-Waybilt Date : Terms Of Payment Admining E-Waybilt Date : :: E-Waybilt Date : :: Description :: E-Waybilt Date : :: :: :: :: :: <t< td=""><td>LC Date : LR No. : LR Date :</td></t<>	LC Date : LR No. : LR Date :
Container No.: Seal No.: Date 768202 ; INDIA Date Of Supply 27-11-2023;15:03:06 Place Of Supply ODISHA Odeme Dispetch Through (DALA BODY) Vehicle No. : ODI/EB4787 Odeme Dispetch Through (DALA BODY) Vehicle No. : ODI/EB4787 21AAACU/R443E12M Terms Of Payment Administry Tare Weight : 14.000 Gross Weight : 52.700 Net Weight : 53.700 E-Waybilt Date : 118231-4929500010 Ack: Date :: 118231-4929500010 Description 2023-11-27.15/04-001	s of Delivery } Agent Name : Agent Area
Read Way Station Date Of Supply 27-11-2023(15:03:96 Place Of Supply ODISHA Odere Dispatch Through (DALA BODY) Vahicle No CODIEBA787 21AAACLIN443L12M Terms Of Payment Administron Tare Weight : 14,000 E-Waybilt Date : 18231-49298506100 Steer 10x270x603c1474c7b2932x27 Ack No 118231-49298506100 Ack, Date :2023-11/27.15/04:00 Make Place Of Supply ODISHA 2010000 :2023-11/27.15/04:00	Container No.: Seal No.
Ddsmix Dispatch Through (DALA BODY Vahicle No. : C001884787 21AAACU844351256 Terms Of Payment Administration Tare Weight : 14,000 Gross Weight : 52,700 Net Weight : 52,700 Net Weight : 138,700 E-Waybilt Date : 1182314929889810 Ack: Data Tare Weight : 138,700 E-Waybilt Date : 1182314929889810 Ack: Data 1182314929889810 Ack: Data Math 2023-(11/27) 15/04/00 Math Math 20100000 Tare weight : 14,000 Gross Weight : 52,700 Net Weight : 138,700	ENT WORKS NEAR Den/TRA RAd,WAY STATION, Date Of Supply . Place Of Supply
21AAACL/0442L1256 Terms Of Payment Administration Tare Weight ±14,000 Gross Weight ±52,700 Net Weight ±52,700 Net Weight ±52,700 E-Waybit Date :	STATE (Odishe Dispatch Through (DALA BOD) Value No. (OD)1884787
Administre Gross Weight :52 700 Ner Weight :52 700 E-Waybill Date : Ner Weight :52 700 55ear 10a277bil03e1476(7h;29324); Ack Ne. 11823140295509100 Ack, Data :2023-11/27 15:04:00 Mak Quintity Rate 20100000 Ner Weight :52 700	42L GSTIN :21AAACL0442L12M Terms Of Payment Tare Weight ::14,000
E-Waybin Date : Net Weight ::38.700 SEven: 10=271+0361+74:76293247 Ack No. :18231-49295509110 Ack. Data :2023-11-27.15.04-00 MARK Date: :2023-10-27.15.04-00 MARK Date: :2023-11-27.15.04-00 MARK Date: :2023-11-27.15.04-00 MARK Date: :2023-10-27.15.04-00 MARK Date: :2023-10.07.15.04-00 MARK Date: :	Admentor Gross Weight : 52 700
SSear 10a27bi03c1476c7b2932ir Ack Ne. 1182314029580910 Ack. Data :2023-11-27.15.04-00 Mak Queensity Rate With Net Queensity Rate With Net Queensity Rate	E-Waybill Date : Net Weight 138.700
Hote Net Description Real Processor Mone Tables Value Note Description Real Processor Real Processor Real Processor 2010/00000 Note Processor Real Processor Real Processor Real Processor	121884c6851*8-35454cde256ear10x275483c1474c76293247 Ack Ne. 1182354929589810
20130000 Hit will Sold dis 1 222	Ascriptions Of Gasida Name Disorting Rates 1909 Tatas Value
16-160 000.00 MT 23.27	1941 20.20 366.00 366.00 20.20
Yotai : 38,700 27,220	Tetal 38,700 27,220
KONTRACKED MEATY BUTTER COST IN	COST 10
AED SUCY ONE HUPPES ONLY Total Invokes Value	STATE THEOSEND ONE HUNDRED SUCTY ONE HUPLES ONLY THEN WERE VALUE
Gross Invoice Value : 24 381	Be Gross Invoice Value : 24 381
GAND THREE HUNDRED EIGHTY ONE RUPEER ONLY	I INR - TWENTY FOUR THOUSAND THREE HUNDRED EIGHTY ONE RUPEES ONLY
	Terable COST BGRTAGST IOST CEDS
018 COST 9431704957 1053 CE58	25 201 01 2 46 Art Mar Art Bin Art Row Art
Die COST 9087/0057 IOST C255	Total 23.22 (d) 300.30 2.42 (a) 300.30 (c) 14.00
Image: Marcol	246.20 0.00
COGST SGRTANDERT Idext CLEDS More More Mare Area Bisse Area Rame Area 23.0225.00 29.00 3400.500 2.500 GR0.50 0.00 H.000 Area Ar	pes (ND)
TWO HUNDRED MENTY RUFFES COLT S25TUCST RED SURV CHE HUPEES CALLY Total Invaka Value Gross Invoice Value : SAND THREE HUNDRED EIGHTY ONE RUPEES CALLY	THENTY THREE THOUSAND TWO HUNDRED THENTY RUPRES COST ORE THOUSAND ONE HUNDRED SURV ONE HUNDRES ONLY Table Invoice Value : ORE THOUSAND ONE HUNDRED SURV ONE HUNDRES ONLY Table Invoice Value : INR - TWENTY FOUR THOUSAND THREE HUNDRED EIGHTY ONE RUPPEES ONLY GOST INR - TWENTY FOUR THOUSAND THREE HUNDRED EIGHTY ONE RUPPEES ONLY Idex Teremile COST ROBITUREST Value State Hun 23.22101 2.95 State 380.39 State State Total 23.22101 State State State State Total 23.22101 State
	Texmile Cost Bústrusst lost lost
nie COST BARTNISST IOST OLDA	23.225.00 2.96 305.50 2.92 Santas a.m.
Die COST 90317/0057 HOST C2208 W Fole Amt Hale Ant Bos Are Rule Amt 23.227.08 2.56 385.56 385	Total 23.220 de 300.00 million
Dia COST RGB/TAUGRT IOST CESS Mode Amt Male Amt Bias Amt Male Amt 23.222/01 2.66 3405.50 2.80 Store Amt Bias Amt Male Amt 23.222/01 2.66 3405.50 2.80 Store Store Amt	900 (000 (000 (000 (000 (000 (000 (000
COGST SGGRTANDERT HOST dddss Max Max Max Base Ann Base Ann Max Rate Ann 23.225.00 2.96 3.90.50 2.9.8 Geld Statutes 0.00 H.00 Ann 23.225.00 2.96 3.90.50 2.9.8 Geld Statutes 0.00 H.00 Ann	pes (NO)
AED SHOTY ONE HUPPER ONLY Total Invalue Value : Gross Invoice Value : GAND THREE HUNDRED EIGHTY ONE RUPEES ONLY	OPE THEOSAND ONE HUNDRED SHOTY ONE HUNDRED ONE,* Tatal Invalue Value de Gross Invoice Value : I THR - TWENTY FOUR THOUSAND THREE HUNDRED EXAMPLY ONE RUPEES ONLY I dist Termine Coart Relations on unit Value Relation on unit Relation on unit Tatal Invalue Coart Relations on unit Termine Coart Relation on unit Relation on unit Value Relation on unit Relation on unit Relation on unit Total 23.225.00 2.86 Store on unit Relation on unit Total 23.225.00 Store on unit Store on unit Relation on unit



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

	<u>TCLP TEST RESULT</u>
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

			STANDARD AS PER
PARAMETERS	UNIT	RESULT	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





- The results relate only to the sample tested boration
- 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.

Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

Regd. Office: Plot No.-522/3458,Near Utkal Hyundai,Opposite Apex College,Pahal,Bhubaneswar-752101,Odisha, India, ,Mobile: 9861032826

E-mail- cemc_consultancy@yahoo.co.in, cemc122@gmail.com, website: www.cemc.in.

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, Odisha, India, ,Mobile: 7752014842 E-mail: cemclab@yahoo.in



ENTRE FOR ENVOTECH AND GEMENT 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

	<u>TCLP TEST_RESULT</u>
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

			STANDARD AS PER
PARAMETERS	UNIT	RESULT	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

porized Signatory

Dilling. Seal of Laboratory Environmen

- 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.

Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

Regd. Office: Plot No.-522/3458,Near Utkal Hyundai,Opposite Apex College,Pahal,Bhubaneswar-752101,Odisha, India, ,Mobile: 9861032826

E-mail- cemc_consultancy@yahoo.co.in, cemc122@gmail.com, website: www.cemc.in.

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, Odisha, India, ,Mobile: 7752014842 E-mail: cemclab@yahoo.in

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
 - 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,

OMPL

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 recategorized 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)

J P Sharma 71 Executive Director (Works)



REGISTERED ADDRESS : 1, Garstin Place, orbit House, 3rd Floor, Room No.- 38, Kolkata - 700 001, India
 CORPORATE ADDRESS : Premlata Building, 39, Shakespeare Sarani, 6th Floor, Room No.: 3 & 4, Kolkata - 700 017

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. :	 Environmental Clearance accorded vide F. No. J-11011/494/2007-IA-II (I) dated 13th July 2009. 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. Transfer of Environment Clearance vide File No: J-11011/494/2007-IA.II(I) dated 23.10.2023 (EC Identification No. EC23A10010R5864822T).
2	Location, Block/ Sub. Divn. / Dist/ State:	Village - Marakuta, District – Jharsuguda, Odisha
3	Address for communication :	1, Garstin Place, Orbit House, 3 rd Floor, Room No. - 3B, Kolkata – 700 001, West Bengal
	Existing vegetation in the area/region	Industrial land
4	a Species (trees/shrubs/ grasses/climbers)	Vacant land
	b Major prevalent species of each type	Not Applicable
	Land coverage by the project	
	a Total area under the project	103.82 Hectares (256.54 Acres)
5	Area covered for basic b infrastructure (roads/building/factory etc.)	27.15 Hecatres (67.09 acres)
	Details about natural	Industrial Land
	vegetation	
	a Name and number of tree/ species felled	NA
6	Name and number of plant b species still available in the area	NA
	c By protecting the area will indigenous stock come up	NA

	d	Extent of greent developed (till Septemb 2023)	elt ber	34.26 hectares i.e., 33.0% areas of total plant premises
	Plantations required to be carried out as per			
7	а	Conditions of Environmen Clearance in ha./ Nos.	tal	33%
	b	Conditions for Forest act) clearance in ha./ Nos.	С	Not Applicable
	с	Voluntarily in acres (tru parking area etc.)	ick	-
		Voluntarily in no. for gre	en	
	d	belt development in near	by	-
		area		
8	8 Details of plantations			

	A	Plantation details (category wise & methodology used)		Yea	ar of p	lanta	tion
		Survival of plantation		FY 2022-2023		FY 2 Oct	023-24 (till ober 2023)
	Ь	 Total Seedling/Plantation (No.) 		-			3,500
	D	 Survival Trees (No) as on date from date of EC 		51,980			3,325
		- Survival		-			95.0%
9.	Fd	uture Plan on Green Belt evelopment	Existi being minin sensi densi be ind hecta	ng (/will b nize the tive m ty of th creased re as pe	Greenb e stre e impa anmac ne exis to at l er CPC	elt/pl engtho act or de st sting east 2 B guid	antation is ened and to n human and tructure tree greenbelt will 2500 trees per deline.
10.	A	gency carrying out plantation and	Our third	own ho narty	orticult	ure d	department &
11.	F	inancial details (year wise) lantation wise and item wise	S. No.	Year	Fur alloca (₹	nd ated ⁽)	Expenditure including voluntary tree plantation cost (₹)
				2025-	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.	 Not applicable.
	 To operate CO-BP effluent treatment plant efficiently to achieve the notified effluent discharge standards. 	• A neutralizing pit and effluent collection sump (called common monitoring basin) has been installed for treating & reusing the effluent generated.
		The company has successfully installed online Stack monitoring in existing operation stacks.
6.	Installation of Continuous Stack Monitoring system and its calibration in major stacks and setting up of the online ambient air quality monitoring stations.	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.	ToimplementtherecommendationsofLifeCycleAssessment(LCA)studysponsoredby MoEF.	The recommendations of MoEFCC shall be implemented on complete installation of all the plant facilities.
	The industry will initiate the steps to adopt the following clean technologies/measures to improve the performance of industry towards production, energy and environment.	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.
9.	 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: Reduction in power consumption Use of by-products gases for power generation Promotion of Energy Optimization Technology including energy audit 	 The power use is being/will be reduced through energy conservation measures on commencement of operation. DRI exhaust is used for power generation. 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 naving capacity of
		5.0 KL and another water
		c) Dry Eog 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.
	emissions.	

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

Τo,

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:

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

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.
- 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.

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 Authority of 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 Environmenti. Study period

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

1	Sampling		Remarks
	Network	Frequency	
A. Air Environment			
 Wind speed (Hourly) Wind direction Dry bulb temperature Wet bulb temperature Relative humidity Rainfall Solar radiation Cloud cover Environmental Lapse Rate 	Minimum 1 site in the project impact area	l hourly continuous	 IS 5182 Part 1-20 Site specific primary data is essential Secondary data from IMD, New Delhi CPCB guidelines to be considered.
PM _{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.	 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 AAO

	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	At least 8-12	As per CPCB	
	noise levels	locations	norms	
С.	Water			
	rameters for water quality pH, temp, turbidity, magnesium hardness, total alkalinity, chloride, sulphate, nitrate, fluoride, sodium, potassium, salinity Total nitrogen total	 Samples for wate per: IS: 2488 (Pa Industrial eff Standard n wastewater a Association. 	er quality should b art 1-5) methods fluents nethods for ex analysis published	for sampling and testing of amination of water and by American Public Health
	phosphorus, DO, BOD, COD, Phenol Heavy metals Total coliforms, faecal coliforms Phyto plankton Zee plankton			
P For	Zoo plankton	Courfs of	Viald of mo	4
•	Total Carbon pH Dissolved Oxygen Biological Oxygen Demand Free NH4 Boron Sodium Absorption	 Surrace water quality of the nearest River (60m upstream and downstream) and other surface 	 rield of wa during critic Standard me surface wate 	al season ethodology for collection of er (BIS standards)
	Katio Electrical	water		

Attributes	Samp	ling	Remarks
	Network	Frequency	
Conductivity	bodies		
For Ground Water	 Ground wate minimum of wells/existing shall be include 	r monitoring d 8 locations (current records ded.	ata should be collected at from existing wells /tube s) from the study area and
D. Traffic Study	1		
• Type of vehicles	-		
 Frequency of vehicles for transportation of 			
materials			
 Additional traffic due to proposed project 			
Parking arrangement			
L. Land Environment	Foil complex be a	llooted as per Pl	S specifications
Dortiolo sizo	son samples de co	niected as per Di	s specifications
distribution			
Texture			
nH			
Flectrical			
conductivity			
Cation exchange			
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 Environme	ent		

	Attributes	Sampling		ling	Remarks
			Network	Frequency	
Aq	uatic	•	Detailed dese	cription of flora	and fauna (terrestrial and
•	Primary productivity		aquatic) exist	ting in the stud	y area shall be given with
	Aquatic weeds		special refere	nce to rare, ende	mic and endangered species.
	Enumeration of		Indicator sp	pecies which	indicate ecological and
	phyto plankton, zoo		environment	degradation s	hould be identified and
	plankton and benthos		included to	clearly state wh	ether the proposed project
	Fisheries		would result i	in to any adverse	effect on any species.
•	Diversity indices	•	Samples to	collect from up	stream and downstream of
•	Trophic levels		discharge po	int, nearby tribu	staries at downstream, and
•	Rare and endangered		also from dug	g wells close to a	ctivity site.
	species	•	For forest stu	dies, direction of	f wind should be considered
•	Marine Parks/		while selectin	ig forests.	
	Sanctuaries/ closed	•	Secondary d	ata to collect	from Government offices,
	areas /coastal		NGOs, publis	hed literature.	
	regulation zone				
	(CRZ)				
Ге	rrestrial				
	Vegetation-species				
	list, economic				
	importance, forest				
	produce, medicinal				
	value				
•	Importance value				
	index (IVI) of trees				
•	Fauna				
•	Avi fauna				
•	Rare and endangered				
	species				
	Sanctuaries /				
	National park /				
	Biosphere reserve				
•	Migratory routes				
F. :	socio-economic				
•	Demographic	•	Socio-econor	nic survey is	based on proportionate,
	structure		stratified and	random sampling	g method.
•	Infrastructure	•	Primary data	collection throug	h questionnaire
	resource base	•	Secondary d	ata from censu	is records, statistical hard
•	Economic resource		books, topo	sheets, health re	ecords and relevant official
	base		records availa	able with Govt. A	Agencies
	Health status:				-
	Morbidity pattern	1			
	Cultural and				
	aesthetic attributes				

	Attributes	Sampling		Remarks
		Network	Frequency	
•	Education			

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

Activity	Environment	Ecological	Socio-economic
Construction phase			
Operation phase			

- 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	Location	Frequency	Responsibility	
		Parameter				
Construct	tion phas	se				
Operatior	Deperation 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 planName of the ActivityPhysical Targets		Year of implementation (Budget in INR)			Total Expenditu
			1 st	2 nd	3 rd	re (Rs. in Crores)

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

8. Project Benefits

- 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.

Description of the Environment Study period 5.

i.

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

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.
DILUTANTS PM2.5 PM10 SO2 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

Attributes	Sampli	ing	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 ELA Paport
Noise			to the EIA Report.
Hourly equivalent noise levels	t least 8-12 locations	s per CPCB norms	
. Water	Γ		
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 of per: IS: 2488 (Par Industrial efflic Standard me wastewater an Association.	uality should be rt 1-5) methods uents ethods for exa nalysis published	collected and analyzed as for sampling and testing of amination of water and by American Public Health
br 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 wa during critica Standard me surface wate	ter sources to be measured al season ethodology for collection of r (BIS standards)

Attributes	Sampling		Remarks		
	Network	Frequency			
or Ground Water	Ground wate minimum of wells/existing shall be inclu	vater monitoring data should be collected at of 8 locations (from existing wells /tube ing current records) from the study area and cluded.			
. Traffic Study					
Type of vehicles Frequency of vehicles for transportation of materials Additional traffic due to proposed project Parking arrangement					
. Land Environment	-				
pilParticle size distribution Texture pHElectrical conductivity Cation exchange capacity Alkali metals Sodium Absorption Ratio (SAR) Permeability Water holding capacity Porosity	bil samples be co	llected as per BIS	specifications		
 and use/Landscape Location code Total project area Topography Drainage (natural) Cultivated, forest, plantations, water bodies, roads and settlements Biological Environmen 	t				
quatic	Detailed des	cription of flora	and fauna (terrestrial and		

Attributes	Sampli	ing	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	aquatic) exist special referent Indicator sp environment included to of would result in Samples to of discharge pot also from dug For forest stu while selection Secondary d	ing in the study nee to rare, ender becies which degradation sl clearly state wh n to any adverse collect from ups int, nearby tribu wells close to ac dies, direction of g forests. ata to collect	y area shall be given with mic and endangered species. indicate ecological and hould be identified and ether the proposed project effect on any species. stream and downstream of itaries at downstream, and ctivity site. f wind should be considered from Government offices,
areas /coastal regulation zone (CRZ)	NGOs, publis	hed 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	Sacia aconon	ia annuar ia	based on propertionate
structure Infrastructure resource base Economic resource base Health status: Morbidity pattern Cultural and aesthetic attributes	stratified and Primary data Secondary d books, topo records availa	random sampling collection throug ata from censu sheets, health re ble with Govt. aş	g method. h questionnaire s records, statistical hard ecords and relevant official gencies

Attributes	Sampl	ing	Remarks
	Network	Frequency	
Education			

- iii. Interpretation of each environment attribute shall be enumerated and summarized as given below:
- Ambient air quality
- Ambient Noise quality
- Surface water quality
- Ground water quality
- Soil quality
- Biological Environment
- Land use
- Socio-economic environment
- 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	Location	requency	Responsibility		
onstruction phase							
peration	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 a	and action plan	Year of implementation (Budget in INR)			Total Expenditu
	ame of the Activity	Physical Targets	1 st	2 nd	3 rd	re (Rs. in Crores)

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

10. Project Benefits

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

11. Environment Cost Benefit Analysis

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

12. Environment Management Plan (Construction and Operation phase)

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

- iii. Solid and hazardous waste management plan
- iv. Effluent management plan
- v. Storm water management plan
- vi. Rain water harvesting plan
- vii. Occupational health and safety management plan
- viii. Green belt development plan
- ix. Socio-economic management plan
- x. Wildlife conservation plan (In case of presence of schedule I species)
- 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 Authority of 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 Approach and methodology for data collection as furnished below. ii.

Attributes	San	pling	Remarks		
	Network	Frequency			
A. Air Environment	1		L		
 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 contin uous	 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 locatio ns	As per National Ambi ent Air Qualit y Stand ards, CPCB Notification.	 Sampling as per CPCB guidelines Collection of AAQ data (except in monsoon season) Locations of various stations for different parameters should be related to the characteristic properties of the parameters. The monitoring stations shall be based on the NAAQM standards as per GSR 826(E) dated 16/11/2009 and take into account the predominant wind direction, population zone and 		

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	At least 8-12	As per	-	
levels	ns	norms		
C. Water				
Parameters for water	Samples for wa	ter quality should	be collected and analyzed as	
 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 	 per: IS: 2488 Industrial Standard wastewat Health As 	(Part 1-5) method effluents methods for er analysis pub ssociation.	ds for sampling and testing of examination of water and lished by American Public	
• Total coliforms,				

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 upstrea m and downst ream) and other surface water	 Yield of water sources to be measured during critical season Standard methodology for collection of surface water (BIS standards) 		
	bodies			
For Ground Water	Ground minimum wells/exists shall be in	water monitoring of 8 locations sting current reconcluded.	data should be collected at (from existing wells /tube ords) from the study area and	
D. Traffic Study				
 Type of vehicles Frequency of vehicles for transportation of materials Additional traffic due to proposed project Parking arrangement 	-			
E. Land Environment				
Soil	Soil samples be	e collected as per l	BIS specifications	
 Particle size distribution Texture pH Electrical conductivity Cation exchange 				

	Attributes	Sampling		Remarks
		Network	Frequency	
	capacity			
•	Alkali metals			
•	Sodium			
	Absorption Ratio			
	(SAR)			
•	Permeability			
•	Water holding			
	capacity			
•	Porosity			
La	nd use/Landscape	_		
•	Location code			
•	Total project			
	area			
•	Topography			
•	Drainage			
	(natural)			
•	Cultivated,			
	forest,			
	plantations,			
	water bodies,			
	roads and			
	settlements			
Е.	Biological Environn	nent		
Aq	uatic	• Detaile	ed description of flo	ora and fauna (terrestrial and
•	Primary	aquatic	e) existing in the st	udy area shall be given with
	productivity	special	reference to rare	e, endemic and endangered
•	Aquatic weeds	species	. Indicator species	which indicate ecological and
•	Enumeration of	enviror	iment degradation	should be identified and
	phyto plankton,	include	ed to clearly state	whether the proposed project
	zoo plankton and	would	result in to any adve	rse effect on any species.
	benthos	Sample	es to collect from	upstream and downstream of
•	Fisheries	dischar	ge point, nearby tr	ibutaries at downstream, and
•	Diversity indices	also fro	om dug wells close to	o activity site.
•	Trophic levels	For for	est studies, direction	i of wind should be considered
•	Rare and	while s	electing forests.	
	endangered	• Second	lary data to collec	t from Government offices,
	species	NGOs,	published literature	
•	Marine Parks/			
	Sanctuaries/			
	closed areas			
	/coastal			
	regulation zone			
	(CRZ)			

	Attributes	Sampling		pling	Remarks
		Net	work	Frequency	
Terre	strial				
•	Vegetation-				
	species list,				
	economic				
	importance,				
	forest produce,				
	medicinal value				
•	Importance value				
	index (IVI) of				
1	trees				
•	Fauna				
•	Avi fauna				
•	Rare and				
	endangered				
	species				
•	Sanctuaries /				
	National park /				
	Biosphere				
1	reserve				
•	Migratory routes				
F. soc	io-economic				
•	Demographic	•	Socio-eco	nomic survey	is based on proportionate,
	structure	5	stratified	and random samp	ling method.
•	Infrastructure	•]	Primary d	ata collection thro	ough questionnaire
-	resource base	•	Secondary	y data from cer	nsus records, statistical hard
•	Economic	1	books, to	po sheets, health	records and relevant official
1	resource base	1	records av	ailable with Gov	t. Agencies
•	Health status:				
	Morbidity				
	pattern				
•	Cultural and				
	aesthetic				
	attributes				
•	Education				

iii. Interpretation of each environment attribute shall be enumerated and summarized as given below:

- Ambient air quality
- Ambient Noise quality
- Surface water quality
- Ground water quality
- Soil quality
- Biological Environment

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

Activity	Environment	Ecological	Socio-economic
Construction			
phase			
Operation phase			

- 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		Yea	Year of implementation (Budget in INR)		
Name of the Activity	Physical Targets	1 st	2 nd	3 rd	diture (Rs. in Crore

- 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.

ANNEXURE-XVI



To.

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

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

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 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:

Sl.	As per ToR F. No. IA-J-	Proposed Amendment
No	11011/494/2007-IA-II(I)	
	dated: 28.09.2022.	
1.	Subject: Expansion of Steel	Subject: Expansion of existing implemented project [1 x
	Plant 1.05 million TPA With	225 m ³ MBF (1,88,000 TPA), 1 x 40 m2 Sinter Plant
	CPP To Integrated Steel	(4,60,000 TPA), 8 x 100 TPD DRI Plant (2,40,000 TPA),
	Plant 1.7 million TPA	2 x 30 T I.F. SMS (1,07,700 TPA), 1 x 0.7 MTPA Coal
	Finished Steel With 275	washery, 2 x 0.12 MTPA Non-recovery type Coke Oven
	MW Captive Power Plant	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:

		Exi	sting fa	cilities	s as per 27.10	EC d	ated 13	09 &						
S. N 0.	Plant Equipm ent/ Facility	Total (A+B)		Implemente d (A)		Unimpleme nted (B)		As per last (21/04/2011, 31.03.2015)/ valid CTO (22.03.2023 & 13.06.2023)		Expansion proposal considering 330 annual working days		Final (Existing + Proposed)		Remark s
		Conf	Capac	Conf	Capa	Conf	Capa	Conf	Capa	Configur	Capac	Configur	Capa	
		ig.	ity	ig.	city	ig.	city	ig.	city	ation	ity	ation	city	
1.	Mini Blast Furnace with PCM	$ \begin{array}{r} 1 x \\ 225 \\ m^{3} + \\ 1 x \\ 300 \\ m^{3} + \\ 2 x \\ 380 \\ m^{3} \end{array} $	10,60, 000 TPA	1 x 225 m ³	1,88,0 00 TPA	$ \begin{array}{r} 1 x \\ 300 \\ m^{3} + \\ 2 x \\ 380 \\ m^{3} \end{array} $	8,72,0 00 TPA	1 x 225 m ³	1,88,0 00 TPA	Expansio n of existing MBF 1 x 225 m ³ by process optimizati on and raw material mix and changing core size to 450 m ³ .	5,30,0 00 TPA	2 x 450 m ³	1.06 millio n TPA	Hot Liquid Metal/ Pig Iron/Hi gh Quality Liquid steel
										Addition of 1 x 450 m ³ MBF	5,30,0 00 TPA			
	Matchin g New	**	**	**	**	**	**	**	**	New PCM-	2800 TPD	2 x 1400TPD		

		Exi	sting fa	cilities	s as per	EC d	ated 13	.07.20	09 &					
S. Plant N Equipm o. Facility		Total (A+B)		Implemente d (A)		Unim ntee	pleme d (B)	As po (21/04 31.03 valid (22.0)	er last 4/2011, .2015)/ I CTO 3.2023 &	Expansion proposal considering 330 annual working days		Final (Existing + Proposed)		Remark s
		Conf	Capac	Conf	Capa	Conf	Capa	13.06 Conf	Capa	Configur	Capac	Configur	Capa	
	PCM &	ig.	ity	ig.	city	ig.	city	ig.	city	ation	ity	ation	city	
	LD									TPD				
										LD/BOF - 2 x 45 T	90 T	2 x 45 T		
2.	Sinter	1 x 40	4,60,0 00	1 x 40 m ²	4,60,0 00	**	**	1 x 40 m ²	4,60,0 00	Expansion by process optimizati on and raw material mix	69,000 TPA	$1 \times 40 \text{ m}^2$ + 1 x 75	1.52 millio	Sinter
	Flain	m ²	TPA	40 111	TPA			40 111	TPA	Addition of new module of Sinter plant of 1 x 75 m ²	(+) 9,91,0 00 TPA	m ²	n TPA	
3.	DRI plant	8 x 100 TPD + 1 x 300 TPD + 4 x 550 TPD	9,94,0 00 TPA	8 x 100 TPD	2,40,0 00 TPA	1 x 300 TPD + 4 x 550 TPD	7,54,0 00 TPA	8 x 100 TPD	2,40,0 00 TPA	Expansio n of existing 8 x 100 TPD kiln by process optimizati on and raw material mix	1,40,0 00 TPA	8 x 145 TPD + 4 x 1000	1.70 millio	Sponge Iron
	Matchin g Preheater with DRI kiln & Coal Dryer (Stand by)	**	**	**	**	**	**	**	**	Addition of new 4 x 1,000 TPD DRI	13,20, 000 TPA	TPD		
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	1,07,7 00 TPA	1 X 15 T + 3 X 18 T+ 1 X 20 T + 2 X 30 T	9,42,3 00 TPA	2 X 30 T	1,07,7 00 TPA	Expansio n of existing SMS (I.F.) by process optimizati on Addition	(+) 50,300 TPA	(15 x 25 T + 6 x 30 T) I.F.	1.50 millio n TPA	Billets & Slab
	Matchin g LRF/AO D, CCM	**	**	**	**	**	**	**	**	of 15 x 25 T I.F. + 4 x 30 T I.F. with	13,42, 000 TPA			

		Exi	sting fa	cilities	s as per	EC d	ated 13	.07.20	09 &					
S. N 0.	Plant Equipm ent/ Facility	Total (A+B)		Implemente d (A)		Unimpleme nted (B)		As per last (21/04/2011, 31.03.2015)/ valid CTO (22.03.2023 & 20.0000000000000000000000000000000000		Expansion proposal considering 330 annual working days		Final (Existing + Proposed)		Remark s
		Conf	Capac	Conf	Сара	Conf	Сара	13.06 Conf	.2023) Capa	Configur	Capac	Configur	Сара	
	and oxygen optimize d furnace	ig.	ity	ig.	city	ig.	city	ig.	city	ation matching LRF/AO D, CCM and oxygen optimized	ity	ation	city	
5.	SMS Slag Crusher	**	**	**	**	**	**	**	**	New 3 x 20 TPH	60 TPH	3 x 20 TPH	60 TPH	Metal Recover y
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 millio n TPA	Ferro Alloys (FeMn, FeSi, SiMn & FeCr)
9.	Jigging Plant	**	**	*	**	**	**	**	**	New 4 x 11 TPH	44 TPH	4 x 11 TPH	44 TPH	Metal Recover y
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 MTP A	15,00, 000 TPA	1 x 0.7 MTP A	7,00,0 00 TPA	1 x 0.8 MTP A	8,00,0 00 TPA	1 x 0.7 MTP A	7,00,0 00 TPA	Change in technolog y & expansion of existing coal washery 1 x 0.7 MTPA to 1 x 0.8 MTPA by process optimizati on and addition of new 1 x 0.8 MTPA	(+) 0.9 millio n TPA	2 x 0.8 MTPA	1.60 millio n TPA	Washed Coal
12	Non- recovery type Coke Oven Plant	5 x 0.12 MTP A	6,00,0 00 TPA	2 x 0.12 MTP A	2,40,0 00 TPA	3 x 0.12 MTP A	3,60,0 00 TPA	2 x 0.12 MTP A	2,40,0 00 TPA	Expansio n of existing 2 x 0.12 MTPA to 2 x 0.13	(+) 0.41 million TPA	5 x 0.13 MTPA	0.65 millio n TPA	Metallur gical Coke

		Exi	sting fa	cilities	as per 27 10	EC da	ated 13	.07.20	09 &					
S. N 0.	Plant Equipm ent/ Facility	Total (A+B) Implemente d (A)			Unim nte	pleme d (B)	As p (21/04 31.03 valid (22.02	er last 4/2011, .2015)/ CTO 3.2023 &	Expansion proposal considering 330 annual working days		Final (Existing + Proposed)		Remark s	
		Conf	Capac	Conf	Capa	Conf	Capa	13.06 Conf	.2023) Capa	Configur	Capac	Configur	Capa	
		ig.	ity	ig.	city	ig.	<u>city</u>	ig.	city	ation by process optimizat ion and addition of 3 x 0.13 MTPA	ity	ation	<u>city</u>	
13	Rolling Mill with Pickling Line & Continuo us Galvaniz ing/ Galvalu me, CCL Line	**	**	**	**	**	**	**	**	New 0.70 TPA	million A	0.70 millio	n TPA	HR Product (Flat, Coil); Seamless Pipes Galvaniz ed/ Galvalu me / Colour Coated Product
14	Bar, Wire Rod Mill and Wire Drawing	**	**	*	**	**	**	**	**	New 0.50 TPA	million A	0.50 millio	on TPA	TMT Bar, Wire & Wire Rod
15	Ductile Iron Plant	**	**	**	**	**	**	**	**	New 0.50 TPA	million A	0.50 millio	on TPA	DI Pipes, Fitting & Accessor ies
16	Pellet plant	1 x 0.6 milli on TPA	6,00,0 00 TPA	1 x 0.6 milli on TPA	6,00,0 00 TPA	**	**	1 x 0.6 milli on TPA	6,00,0 00 TPA	Enhance ment of existing pellet plant capacity by process optimizati on. Addition of new module (2 x 1.25 million TPA)	(+) 4,00,0 00 TPA 2.5 million TPA	1 x 1.0 million TPA + 2 x 1.25 million TPA	3.5 millio n TPA	Iron Ore Pellet
17	I/O Benefici ation	**	**	**	**	**	**	**	**	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 millio n TPA	Concentr ated Iron Ore

		Exi	sting fa	cilities	as per	EC d	ated 13							
S. N 0.	Plant Equipm ent/ Facility	Total (A+B) In		Imple d	Implemente d (A)		Unimpleme nted (B)		er last 4/2011, .2015)/ CTO 3.2023 &	Expansion proposal considering 330 annual working days		Final (Existing + Proposed)		Remark s
		Conf	Capac	Conf	Capa	Conf	Capa	13.06 Conf	(2023)	Configur	Capac	Configur	Capa	
		ig.	ity	ig.	city	ig.	city	ig.	city	ation	ity	ation TPA	city	
18	Producer Gas Plant	**	**	**	**	**	**	2 x 4,000 Nm ³ / hr	8,000 Nm³/h r	Enhancem ent 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	(+) 1,12,0 00 Nm ³ /h r	20 x 6,000 Nm ³ /hr	1,20,0 00 Nm ³ /h r	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 millio n TPA	OPC, PPC, PSC & Composi te
		1 x 25 MW- F.B. C	¹ x 25 MW- F.B. C	1 x 16 MW- A.F. B.C	16 MW	**	**	1 x 16 MW- A.F. B.C	16 MW	Expansio n in existing AFBC by improvem ent in heat efficiency of boiler Addition of new CFBC (Coal	(+) 4 MW 90	110 MW FBC (Coal & Dolochar Mix) Based-1 x 20 MW A.F.B.C +		
20	Captive Power Plant									Dolochar mix based) 2 x 45 MW	MW	2 x 45 MW C.F.B.C	275 MW	Power
		8 x 2.5 MW + 4 x 10 MW- WH RB	60 MW	8 x 1.0 MW	8 MW	8 x 1.5 MW + 4 x 10 MW- WH RB	52 MW	8 x 1.0 MW	8 MW	Expansio n in WHRB Based CPP from existing DRI Plant by improvem ent in heat efficiency of boiler	(+) 8 MW	165 MW WHRB Based (120 MW from DRI Plant + 45 MW Coke oven)		

		Exi	sting fa	cilities	as per 27.10	EC da .2009	ated 13	.07.20	09 &					
S. N o.	Plant Equipm ent/ Facility	Total	(A+B)	Imple d	emente (A)	Unimpleme nted (B)		As per last (21/04/2011, 31.03.2015)/ valid CTO (22.03.2023 & 13.06.2023)		Expansion proposal considering 330 annual working days		Final (Existing + Proposed)		Remark S
		Conf	Capac	Conf	Capa	Conf	Capa	Conf	Capa	Configur	Capac	Configur	Capa	
		ig.	ity	ig.	city	ig.	city	ig.	city	ation	ity	ation	city	
										Addition al 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	э.	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:
 - 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



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.(ii) File No.(iii) Clearance Type(iv) Category

TO23A1001OR5989156T IA-J-11011/494/2007-IA.II(I) Transfer of ToR A

	3(a) Metallurgical Industries (ferrous and non					
	ferrous),2(a) Coal washeries,4(b) Coke oven					
(v) Schedule No./ Project Activity	plants,1(d) Thermal Power Plants,1(d) Thermal					
	Power Plants,2(b) Mineral beneficiation,3(b)					
	Cement plants					
(vi) Sector	Industrial Projects - 1					
	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					
(vii) Name of Project	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					
	ORISSA METALIKS PRIVATE LIMITED					
(vi) Details of Transform	,GRASTIN PLACE, ORBIT 3RD FLOOR ROOM					
(XI) Details of Transferee	NO . 3B, KOLKATA, KOLKATA, Kolkata, WEST					
	BENGAL, NEAR BANSAL COURT, 700001					
	M/s MSP Metallics Limited,1, GARSTIN PLACE,					
	ORBIT HOUSE, 3RD FLOOR, ROOM NO.					
(xii) Details of Transferor	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 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

<u>Copy To</u>

- 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.

6	Manitaving		Data of	<u>Δnalv</u>	nalysis Result in ug/m ³			
S. No	Stations	Month	Date of Monitoring	PM ₁₀	PM _a	SO.	NO.	
		April 2023	03/04/2023	76 49	33 77	8 30	13 50	
		May 2023	08/05/2023	76.15	33.74	8 17	13 58	
S. No 1 1 2 4		lune 2023	12/06/2023	73 74	32 51	8 65	13.09	
1	Near Main Gate	1uly 2023	04/07/2023	75.90	35.59	9.52	13.73	
	Gute		28/08/2023	73.19	34.98	8.07	13.18	
S. No 1 2 3		September 2023	01/09/2023	74.24	36.64	8.12	13.26	
		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	
	Near Pellet	June 2023	12/06/2023	76.18	34.37	9.90	12.05	
2	Plant	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	
		April 2023	03/04/2023	75.98	35.31	8.93	12.46	
S. I No 1		May 2023	08/05/2023	74.20	33.40	8.68	12.24	
	Near Steel Melting	June 2023	12/06/2023	74.31	31.61	8.77	13.94	
	Shop	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	
		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	
2 3 4 Per	Near Coke	June 2023	12/06/2023	76.93	32.37	7.52	12.66	
	Plant	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	
Per	missible Limi	its as per NAAQ	S, 2009	100.0	60.0	80.0	80.0	

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





Environmental Research and Services (India) Dvt. Ltd.

(An ISO/IEC 17025 - 2017 (MABL) According Lubsenbury, DSPCR Empanelled Luborotury 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)

	Pg No: 1 of 1
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:

				Permissible Limit		Results			
SI. No	Test Parameters	Test method	Unit	MAAD MAAD Standards CPCB MOV-2009	ERSIPL/ AA/ 251	ERSIPL/ AA/ 252	ERSIPL/ AA/ 253	ERSIPL/ AA/ 254	
	Particulate Matter (size less than 10 µm) or PM 10	IS 5182 (Part 23): 2006, Reaffirmed- 2017, Gravimetric Method	μg/m ³	100.0	76.49	75.91	75.98	74.35	
2	Particulate Matter (size less than 2.5 µm) or PM 2.5	IS 5182 (Part 24): 2019, Gravimetric Method	µg/m ³	60.0	33.77	34.00	35.31	30.90	
3	Sulphur Dioxide (SO2)	IS 5182 (Part 2): 2001, Reaffirmed- 2017, Improved West & Gaeke Method	µg/m ³	80.0	8.30	8.70	8.93	7.33	
4	Oxides of Nitrogen (NOx)	IS 5182 (Part 6): 2006, Reaffirmed - 2017	μ <u>ε/</u> m ³	80.0	13.50	13.09	12.46	13.90	

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

TAID OF TEET BERORT



GSTIN : 21AAACE6224D1ZE



Environmental Research and Services (India) Pvl. 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

Pg No: 1 of 1 Test Report No: ERSIPL/TR/AA/T-069

Name and Address of the	Customer
-------------------------	----------

Sample Collected by Sample Collected in presence of Date of Sampling/Monitoring Sample Received on Analysis Started on Analysis Completed on Method of Sampling Quantity of Sample Environment Condition

Sample ID. No.

- 1. ERSIPL/AA/251
- ERSIPL/AA/252
- ERSIPL/AA/253
- 4. ERSIPL/AA/254

TEST FINDINGS:

- MSP Metallics Limited, Village: Marakuta, Tchsil: Jharsuguda, Dist: Jharsuguda, Odisha
 Representative of ERS (I) Pvt. Ltd.
 Representative of the Customer.
 03-04.04.2023
 10.04.2023
- : 10.04.2023
- : 20.04.2023
- : ERSIPL/MSP/06
- : 01 sample for each parameter
- : Sunny

Locations

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

				Permissible	Results			
51. No	Test Parameters	Test method	Unit	as per NAAQ Standards CPC8 Nov 2009	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.Pattanayek Tech.Manager



Environmental Research and Services (India) Pvt. Ltd.

(An ISD/IEC 17025 - 2017 (NABL) Accredited Leburatory, OSPCB Emponelled Luboratory 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

Pg No: 1 of 1

TEST REPORT (AMBIENT AIR)

Date: 30 May 2023
Name and Address of the Customer

Sample Collected by Sample Collected in presence of Date of Sampling/Monitoring Sample Received on Analysis Started on Analysis Completed on Method of Sampling Quantity of Sample Environment Condition Sample ID. No. 1. ERSIPL/AA/364

- 2. ERSIPL/AA/365
- 3. ERSIPL/AA/366
- 4. ERSIPL/AA/367

TEST FINDINGS:

- Test Report No: ERSIPL/TR/AA/089 MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha Representative of ERS (I) Pvt. Ltd. Representative of the Customer.
- : 08-09.05.2023
- : 22.05.2023
- : 22.05.2023
- : 30.05.2023
- : ERSIPL/MSP/06
- : 01 sample for each parameter
- : Sunny
 - Locations
 - 1. Near Main Gate
 - 2. Near Pellet Plant
 - 3. Near Steel Melting Shop
 - 4. Near Coke Oven Plant

				Permitolia Results					
SI. No	Test Parameters	Test method	Unit	es per NAAQ Standards crice Nov-7009	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	µg/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	µg/m ³	60.0	33.74	35.53	33.40	34.91	
3	Sulphur Dioxide (SO2)	IS 5182 (Part 2): 2001, Reaffirmed- 2017, Improved West & Gaeke Method	µg/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	µg/m ³	80.0	13.58	14.67	12.24	14.72	

(Authorized Signatory)

S.P.Pattanzysk







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)

Pg No: 1 of 1

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 Date of Sampling/Monitoring	: Representative of the Customer. : 08-09.05.2023
Sample Received on Analysis Started on	: 22.05.2023 : 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

52

- 1. ERSIPL/AA/364 2. ERSIPL/AA/365
- 3. ERSIPL/AA/366
- 4. ERSIPL/AA/367

TEST FINDINGS:

Near Main Gate

- 2. Near Pellet Plant 3. Near Steel Melting Shop 4. Near Coke Oven Plant

				Permissible		Re	sults	
SI, No	Test Parameters	Test method	Unit	as per HAAQ Standards CPCB Nov-2005	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.Patteneyek Tech.Manager





Environmental Research and Services (India) Pvt. Itd.

(An ISO/IEC 17025 - 2017 (NABL) Accordited Laboratory OSPC4 Emponelled Laboratory and ISO 9001 - 2015 Curtified Company)

Plot No: B-22, Sector-8, 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)

Pg No: 1 of 1
Test Report No: ERSIPL/TR/AA/115
: MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda,
Dist: Jharsuguda, Odisha
: Representative of ERS (I) Pvt. Ltd.
: Representative of the Customer.
: 12-13:06:2023
: 17.05.2023
: 17.06.2023
: 27.06.2023
: ERSIPL/MSP/06
: 01 sample for each parameter
: Sunny
Locations
1. Near Main Gate
2. Near Pellet Plant
3. Near Steel Melting Shop
4. Near Coke Oven Plant

TEST FINDINGS:

				Permissible		Re	sults	
SI, No	Test Parameters	Test method	Unit	Arr per NAAQ Standents CPCR Nov-2009	ERSIPL/ AA/ 463	ERSIPL/ AA/ 464	ERSIPL/ AA/ 465	ERSIPL/ AA/ 466
1	Particulate Matter (size less than 10 µm) or PM 10	IS - S182 (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 (SO2)	IS 5182 (Part 2): 2001, Reaffirmed- 2022, Improved West & Gaeke Method	µg/m ³	80.0	8.65	9.90	8,77	7.52
<u>1</u> 4	Oxides of Nitrogen (NO ₈)	15 5182 (Part 6): 2006, Reaffirmed 2022	µg/m ³	80.0	13.09	12.05	13.94	12.66

(Authorized Signatory) S.P.Pattanayak

Tech.Manager





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

Name and Address of the Customer

Sample Collected by Sample Collected in presence of Date of Sampling/Monitoring Sample Received on Analysis Started on Analysis Completed on Method of Sampling Quantity of Sample Environment Condition

Sample ID. No.

- 1. ERSIPL/AA/463
- 2. ERSIPL/AA/464
- 3. ERSIPL/AA/465
- 4. ERSIPL/AA/466

TEST FINDINGS:

Test Report No: ERSIPL/TR/AA/T-115 1 MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha

Pg No: 1 of 1

- : Representative of ERS (I) Pvt. Ltd.
- Representative of the Customer.
- : 12-13.06.2023
- 17.06.2023
- : 17.06.2023
- 27.06.2023
- : ERSIPL/MSP/06
- : 01 sample for each parameter
- Sunny

Locations

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

				Permisalishe	Results			
SI. No	Test Parameters	' Test method	Unit	as per NAAG Standards Once Nov-2009	ERSIPL/ AA/ 463	ERSIPL/ AA/ 464	ERSIPL/ AA/ 465	ERSIPL/ AA/ 466
à.	Carbon Monoxide (CO)	By CO Monitor	mg/m ³	2.0	<1.14	<1.14	<1.14	<1.14

(Authorized Signatory)

S.P. Pattanayek Teon Manager



Environmental Research and Services (India) Pvt. Ltd.



(An ISO/IEC 17025 - 2017 (NARL) Accredited Loboratory, OSPC8 Emponelled Loboratory 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/FMI/37

TEST REPORT (AMBIENT AIR)

Pg No: 1 of 1 Test Report No: ERSIPL/TR/AA/140

Date: 24 July 2023 Name and Address of the Customer

Sample Collected by Sample Collected in presence of Date of Sampling/Monitoring Sample Received on Analysis Started on Analysis Completed on Method of Sampling Quantity of Sample

Environment Condition

Sample ID. No.

- ERSIPL/AA/S26
- ERSIPL/AA/527
- 3. ERSIPL/AA/528
- 4. ERSIPL/AA/529

TEST FINDINGS:

- MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
- Representative of ERS (I) Pvt. Ltd.
- : Representative of the Customer.
- 04-05.07.2023
- 15.07.2023
- : 15.07.2023
- : 24.07.2023
- : ERSIPL/MSP/06
- 01 sample for each parameter
- : Sunny

Locations

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

			147117	Results				
51. No	Test Parameters	Test method	Unit	exper NUAQ Standards CPCB Nuv-2009	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	µg/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	iš 5182 (Part 24) 2019, Gravimetric Method	µк/m ³	60.0	35.59	35:04	34.55	31.07
(10)	Sulphur Dioxide (SD2)	IS 5182 (Part 2): 2001, Reaffirmed 2022, Improved West & Gaeke Method	нg/m ³	80.0	9.52	8.31	8.11	8,20
4	Oxides of Nitrogen (NO _X)	15 5182 (Part 6): 2006, Reaffirmed - 2022	μg/m ³	80.0	13.73	12.22	13.16	12.84



Tech.Manager







Environmental Research and Services (India) Pvt. Ltd.

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

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

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Pg No: 1 of 1 Test Report No: ERSIPL/TR/AA/T-140 Date: 24 July 2023 Name and Address of the Customer : MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Iharsuguda, Odisha : Representative of ERS (I) Pvt. Ltd. Sample Collected by Representative of the Customer. Sample Collected in presence of : 04-05.07.2023 Date of Sampling/Monitoring Sample Received on 15.07.2023 : 15.07.2023 Analysis Started on : 24.07.2023 Analysis Completed on : ERSIPL/MSP/06 Method of Sampling : 01 sample for each parameter Quantity of Sample **Environment Condition** : Sunny

Sample ID. No.

- ERSIPL/AA/526
- Z. ERSIPL/AA/527
- 3. ERSIPL/AA/528

4 ERSIPL/AA/529

TEST FINDINGS:

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

1		Test method		Constraintster Linuit	Results			
SI. No	Test Parameters		Unit	as per NAAQ Standards CPCB Nav-3000	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)



Environmental Research and Services (India) Pvt. Ltd.

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

TC-7440

di Pat. thit

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)

	Pg No: 1 of 1
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
ERSIPL/AA/676	2. Near Pellet Plant
3. ERSIPL/AA/677	Near Steel Melting Shop
4. ERSIPL/AA/678	4. Near Coke Oven Plant

TEST FINDINGS:

	Test Parameters	Test method	Unit	Paterniacilidar Lienit	Results				
51. No 1 2 3				NAAQ NAAQ Disendentia EPCR Nove 2009	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	µg/m ³	100.0	73.19	73.55	74.89	73.55	
Ĩ	Particulate Matter (size less than 2.5 µm) or PM 2.5	IS 5182 (Part 24): 2019. Gravimetric Method	με/m ³	60.0	34,98	34.16	30.50	33,06	
3	Sulphur Dioxide (SO2)	IS 5182 (Part 2): 2001, Reaffirmed- 2022, Improved West & Gaeke Method	µg/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	µg/m ³	80.0	13.18	12.91	13.13	13.70	

2.

Total Liability of ERS (/) Pvt. Ltd. is limited to the Invoice Amount. 1.

This certificate shall not be improduced fully or in part without prior written content of ERG (I) Pvt. Ltd.

Samples (Filter Papers & Trumples) received shall be destroyed after 01 year & Gasebus/liquid samples received shall be 4 destroyed after 07 days from the date of issue of the test report, unless otherway

Time report shall not aveid in any advertiging mindla or as evidence in the court 5.







Environmental Research and Services (India) Dvt. Ltd.

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

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

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

	Pg No: 1 of 1
Date: 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 °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:

		.Test method	Unit	Permissible		Results			
SI. No	Test Parameters			as por NAAQ Standards CHCB Nos-2009	ERSIPL/ AA/ 675	ERSIPL/ AA/ 676	ERSIPL/ AA/ 677	ERSIPL/ AA/ 678	
<u>i</u> .	Carbon Monoxide (CO)	By CO Monitar	mg/m ³	2.0	<1.14	<1,14	<1.14	<1.14	



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



Environmental Research and Services (India) Pvt. Ltd.



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

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)

	Pg No: 1 of 1
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:

		Test method		Limit	Results			
SI. No	Test Parameters		Unit	at per NAACI Standards CFCB Nov-2003	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
ž	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 (SO2)	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)	15 5182 (Part 6); 2006, Reaffirmed - 2022	µg/m ³	80.0	13.26	10.44	12.11	13.65

Note

The test musits relate only to the items sampled and tested.

Total Lubling of ERS (() Pyt. Ltd. is imited to the invoice Amount.

3. This certificate shall not be reproduced fully or in part without prior written consent of ERS (I) Pvt. Ud.

4. Samples (Filter Papers & Thimbles) received shall be destroyed after OL year & Gaseous/liquid samples received shall be destroyed after 02 days from the date of issue of the test report, unless otherwise specified.

5. This report shall not used in only advertising media or at evidence in the court of law without prior written consult of BIS (1) Per, the



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)

	Pg No: 1 of 1
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
 ERSIPL/AA/695 	3. Near Steel Melting Shop
4. ERSIPL/AA/696	4. Near Coke Oven Plant

TEST FINDINGS:

		Test method	Unit	Permissible	Results			
SI. No	Test Parameters			ss per NAAQ Standarth CPCB Nov-2009	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 Tecn.Mar.ager



ANNEXURE-XIX

GSTIN: 21AAACE6224D1ZE



Environmental Research and Services (India) Pvt. Itd.

(An ISO/IEC 17025 - 2017 (HARL) Accredited Laboratory, OSPC8 Emparalled Laboratory and ISO 4001 - 2015 Curtilled 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)

Pg No: 1 of 1 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 : 2itrs 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 4. ERSIPL/WA/221

TEST FINDINGS

3. Boiler Blow down of WHR8-5 3. Boiler Blow down of WHRB-6

S. No.		Test Method	Unit		-	Permissible		
	Parameters			ERSIPL /WA/ 218	ERSIPL /WA/ 219	ERSIPL /WA/ 220	ERSIPL /WA/ 221	Limit as per CTO
01	pH Value	IS 3025: Part 11: 1983 Reaffirmed-2017	-	8.41	8.45	8.47	8.96	жх
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	tron (as Fe)	IS 3025: Part 53: 2003 Reaffirmed-2019	mg/L	0.05	0.08	0.08	0.06	1.0

(Authorized Sigpetory)

S.P.Pattanayak Tech.Manager



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	Pg No: 1 of 1
Name and Address of store	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 FRS (I) Pvr 1rd
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 WHPP 1
2 FRSIPI /WA/219	a but how down of wrind-1

3. ERSIPL/WA/220 4. ERSIPL/WA/221 TEST FINDINGS

- Boiler Blow down of WHRB-2
- Boiler Blow down of WHRB-5
- 3. Boiler Blow down of WHRB-6

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

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

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





Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17925 : 2017 (NABL) Accessibled Laboratory, OSPCE Emperatiled Laboratory and ISO 4001 - 2015 Certified Company).

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

ULR-TC744023000000181F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Date: 20 Apr 2023

Name and Address of the Customer

Date of Sampling Sample Collected by Sample Collected in presence of Sample Received on Analysis Started on Analysis Completed on

Test Report No: ERSIPL/TR/WA/093

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

Pg No: 1 of 1

- 04.04.2023
- Representative of ERS (I) Pvt. Ltd.
- Representative of the Customer.
- 10.04.2023
- : 10.04.2023
- : 20.04.2023
- 1 IS 3025: Part 1: 1987, Reaffirmed 2019 1 Zitrs
- : Glass Bottle, HDPE Bottle & BOD Bottle
- : All Tasts carried out in Room Temperature

Sample ID. No.

Environment Condition

Method of Sampling

Quantity of Sample

Type of Container

1. ERSIPL/WA/222

2. ERSIPL/WA/223

TEST FINDINGS

- Locations
- 1. Boiler Blow down of WHRB-7
- 2. Boiler Blow down of WHRB-8

	Tert			Re	Permissible		
S. No.	Parameters	Test Method	Unit	ERSIPL /WA/ 222	ERSIPL /WA/ 223	Limit as per CTO	
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	
83	Oil & Grease	IS 3025: Part 39: 1991 Reaffirmed-2019	mg/L	1.04	1.12	20.0	
D4	Iron (as Fe)	IS 3025: Part 53: 2003 Reaffirmed-2019	mg/L	0.07	0.05	1.0	

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



GSTIN: 21AAACE6224D1ZE



Environmental Research and Services (India) Dvt. Ltd.

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

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

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

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

ole ID. No.

- 1. ERSIPL/WA/222
- 2. ERSIPL/WA/223

TEST FINDINGS

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

	Test	Test Method	Unit	Re	Permissible	
S. No.	Parameters			ERSIPL /WA/ 222	CRSIPL /WA/ 223	Limit as per CTO
01	Copper	15 3025: Part 42: 1992 Reaffirmed- 2019	mg/L	Not De	etected	1.0

(Authorized Signatory)

S.P.Pattanavak Tech.Manager

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





Environmental Research and Services (India) Pvt. Ltd.

(An ISD/IEC 17025 - 2017 (NASL) According Laboratory, OSPC8 Emparelled Luberatory and ISO 7001 - 2015 Cartified 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-TC744023000000182F

Test Report Format No.: ERSIPL/FM/40

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

TEST REPORT (WATER/ WASTE WATER)

04.04.2023

10.04.2023

: 10.04.2023

: 20.04.2023

: 2itrs

Test Report No: ERSIPL/TR/WA/094

Representative of ERS (I) Pvt. Ltd.

Representative of the Customer.

: 15 3025: Part 1: 1987, Reaffirmed 2019

: Glass Bottle, HDPE Bottle & BOD Bottle

: All Tests carried out in Room Temperature

Dist: Jharsuguda, Odisha

Date: 20 Apr 2023

Name and Address of the Customer

- Date of Sampling Sample Collected by
- Sample Collected in presence of
- Sample Received on
- Analysis Started on
- Analysis Completed on Method of Sampling
- Quantity of Sample
- Type of Container

Environment Condition

Locations

1_ERSIPL/WA/224

Sample ID. No.

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

Test				Result	Permissible	
S. ND.	Parameters	Test Method	Unit	ERSIPL /WA/ 224	Limit as per CTO	
01	pH Value	IS 3025: Part 11: 1983 Reaffirmed-2017	<u>~</u>	8.46	ж	
02	Phosphate (as PO4)	IS 3025: Part 31: 1988 Reaffirmed-2019	mg/L	0.10	2.0	

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

END OF TEST REPORT

Pg No: 1 of 1



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)

Pg No: 1 of 1 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 1.6 Method of Sampling : IS 3025: Part 1: 1987, Reaffirmed 2019 Quantity of Sample 2ltrs 4 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-D1 to 08

9 005	Test			Result	Permissible
S. No. Parameters	Test Method	Unit	ERSIPL /WA/ 224	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.Pattanayek Toch.Manager





Environmental Research and Services (India) Pvt. Ltd.

(An ISD/IEC 17025 : 2017 (NABL) According Laboratory, OSPCR Emponetied Laboratory and ISD 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-TC744023000000231F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

	Pe No: 1 of 1
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	: Zitrs
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

TEST FINDINGS

3. ERSIPL/WA/285

4. ERSIPL/WA/286

- Boller Blow down of WHRB-2
 Boller Blow down of WHRB-3
- 3. Boiler Blow down of WHRB-4

	Tart		Tert		Tert	Tert		Text					Permissible
S. No.	Parameters	Test Method	Unit	ERSIPL /WA/ 283	ERSIPL /WA/ 284	ERSIPL /WA/ 285	ERSIPL /WA/ 286	Limit as per CTO					
01	pH Value	IS 3025: Part 11: 1983 Reaffirmed-2017	217	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					
63	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	0.05	0.06	0.05	1.0					









4. ERSIPL/WA/286

TEST FINDINGS

Environmental Research and Services (India) Dvt. Ltd.

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

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

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

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	a Zitrs
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

3. Boiler Blow down of WHRB-4

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

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

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





Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 17825 - 2017 (NABL) Accordined Laboratory, OSPC8 Emponelled Laboratory and ISO 4001 - 2015 Eartified 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-TC744023000000232F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

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	: 15 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

- Boiler Blow down of WHRB-5
- 2. Boiler Blow down of WHRB-7
- 3. Boiler Blow down of AFBC

TEST FINDINGS

2. ERSIPL/WA/288

3. ERSIPL/WA/289

	-				Permissible		
S. No.	Parameters	Test Method	Unit	ERSIPL /WA/ 287	ERSIPL /WA/ 288	ERSIPL /WA/ 289	Limit as per CTO
01	pH Value	IS 3025: Part 11: 1983 Reaffirmed-2017	16	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	rhg/L	0.07	0.07	0.06	1.0

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



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)

Pg No: 1 of 1 Date: 30 May 2023 Test Report No: ERSIPL/TR/WA/T-120 Name and Address of the Customer : MSP Metallics Limited, Village: Marakuta, Tehsil: Iharsuguda, 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 21 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/287 2. ERSIPL/WA/288 3. ERSIPL/WA/289

TEST FINDINGS

Locations

- 1. Boiler Blow down of WHRB-5
- 2. Boiler Blow down of WHRB-7
- 3. Boiler Blow down of AFBC

S. No.	Test Parameters	Test Method	1 1		Permissibl		
			Unit	ERSIPL /WA/ 287	ERSIPL /WA/ 288	ERSIPL /WA/ 289	e Limit as per CTO
01	Copper	IS 3025: Part 42: 1992 Reaffirmed- 2019	mg/L	Not Detected			1.0

(Authorized Signatory) S.P.Pattanevek

Tech.Manager

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



GSTIN: 21AAACE6224D1ZE



Environmental Research and Services (India) Pvt. Ltd.

(An 150/JEC 17075 : 2017 (NABL) Assedited Laboratory, OSPCB Empirical Inhoratory and ISO 9601 : 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-TC744023000000233F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

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 Sample Received on	: Representative of the Customer. : 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

5. No.	Tech	Tark		Result	Permissible	
	Parameters	Test Method	Unit	ERSIPL /WA/ 290	Limit as per CTO	
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.Pattanayek Tech.Managar

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



GSTIN: 21AAACE6224D1ZE



Environmental Research and Services (India) Pvt. Ltd.

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

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

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1 Date: 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 ж. 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

			h	Result	Permissible Limit as per CTO	
5. No.	Parameters	Test Method	Unit	ERSIPL /WA/ 290		
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.Pattanavek Tech.Manager





Environmental Research and Services (India) Dvt. Ltd.

(An 150/JEC 12025 - 2017 (MAIL) According Laboratory, 05PCR Imposed and Laboratory and E0 5001 - 2015 Estimated Compone) 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)

Pg No: 1 of 1

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	: 2itrs
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 ERSIPI AWA/370	2 Boiler Blow down of WHRB-2

- 2. Boiler Blow down of WHR
- Boiler Blow down of WHRB-3
- Boiler Blow down of WHRB-4

TEST FINDINGS

3. ERSIPL/WA/371

4. ERSIPL/WA/372

					Permissible			
S. No.	Test Parameters	Test Method	Unit	ERSIPL /WA/ 369	ERSIPL /WA/ 370	ERSIPL /WA/ 371	ERSIPL /WA/ 372	Limit as per CTO
01	oH Value	IS 3025:Part 11: 1983 Reaffirmed-2022		8.21	8.14	8,23	8,71	××
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.Pattenayek Tecn.Manager



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)

	PS N0; 1011
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. ER5IPL/WA/370	2. Boiler Blow down of WHRB-2

- 3. ERSIPL/WA/371 4. ERSIPL/WA/372
- TEST FINDINGS

- 3. Boiler Blow down of WHRB-3 3. Boiler Blow down of WHRB-4

S. No.	Test Parameters	Test Method	Unit	Result				Permissible
				ERSIPL /WA/ 369	ERSIPL /WA/ 370	ERSIPL /WA/ 371	ERSIPL /WA/ 372	Limit as per CTO
01	Copper	IS 3025: Part 42: 1992 Reaffirmed- 2019	mg/L	Not Detected			1.0	

(Authorized Signatory) S.F.Pathenayak Tech.Manager

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





Environmental Research and Services (India) Pvt. Ltd.

(Ab 159/IEC 17825 - 2017 (NAIL) Accedited Laboratory, 05PCB Emparalled Laboratory and ISO 9001 - 2015 Cartillad Company) Plot No: B-22, Sector-B, Industrial Estate Chandaka, Infocity Road, Bhubaneswar-751024, Odisha Tel: +91-9437021932, +91-9937690329 . E-mail: ersibbsn@gmail.com

ULR-TC744023000000295F

4. ERSIPL/WA/376

TEST FINDINGS

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

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. Bailer Blow down of WHRB-5
2. ERSIPL/WA/374	2. Boiler Blow down of WHRB-6
3. ERSIPL/WA/375	3. Bailer Blow down of WHRB-8

4. Boiler Blow down of AFBC

S. No.	1.111111	- 122 Mar 100			Result	0	Permissible	
	Test Parameters	Test Method	Unit	ERSIPL /WA/ 373	ERSIPL /WA/ 374	ERSIPL /WA/ 375	ERSIPL /WA/ 376	Limit as per CTO
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. Pattao ayak Tech. Manager

FREE OF STORY DESCORT



GSTIN: 21AAACE6224D1ZE



2. ERSIPL/WA/374

3. ERSIPL/WA/375

4. ERSIPL/WA/376

TEST FINDINGS

Environmental Research and Services (India) Dvt. Ltd.

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

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

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

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. Boiler Blow down of WHRB-6
 - 3. Boiler Blow down of WHRB-8
 - 4. Boiler Blow down of AFBC

S. No.	Test Parameters	Test Method	Unit	Result				Permissibl
				ERSIPL /WA/ 373	ERSIPL /WA/ 374	ERSIPL /WA/ 375	ERSIPL /WA/ 376	е Limit as per сто
01	Copper	IS 3025: Part 42: 1992 Reaffirmed- 2019	mg/L	Not Detected				1.0

(Authorized Signatory)

S.P.Pattanayek Tech.Manager

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





Environmental Research and Services (India) Pvt. Ltd.

(As (50/EE (7825-2017 (KARL) Accedited Laboratory OSPER Empowelled Laboratory and (50 9001 - 2015 Certified Company) Plot No: B-22, Sector-8, Industrial Estate Chandaka, Infocity Road, Bhubaneswar-751024, Odisha Tel: +91-9437021932, +91-9937690329, E-mail: ersibbsr@gmail.com

ULR-TC744023000000296F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Test Report No: ERSIPL/TR/WA/152
MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
12.06.2023
Representative of ERS (I) Pvt. Ltd.
Representative of the Customer.
17.06.2023
17.06.2023
27.06.2023
IS 17614: Part 1: 2021
2ltrs
Glass Bottle, HDPE Bottle & BOD Bottle
All Tests carried out in Room Temperature

Locations

Sample ID. No.

1. ERSIPL/WA/377

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

S. No.	÷34			Result	Permissible Limit as per CTO
	Test Parameters	Test Method	Unit	ERSIPL /WA/ 377	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022		8.21	ж
02	Phosphate (as PO ₄)	IS 3025 (Part 31/Sec 1) : 2022	mg/L	0.11	2.0

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

...... END OF TEST REPORT
CIN - U731000R1995PTCD03889



GSTIN: 21AAACE6224D1ZE



Environmental Research and Services (India) Dvt. Ltd.

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

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

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pe No: 1 of 1

	C 5 110. 2 01 a
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: Ibarsuguda, 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

Sample ID. No.

1. ERSIPL/WA/377

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

5. No.	Test Parameters	Test Method	Unit	Result ERSIPL /WA/ 377	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: 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.Pattanaynh

Tech:Manager



GSTIN: 21AAACE6224D1ZE

Pg No: 1 of 1

Environmental Research and Services (India) Pvt. Ltd.



(An ISO/IEC 17825 - 2017 (NABL) Accending Laboratory, OSPCB Emponelled Laboratory and ISO 9061 - 2015 Cartified 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-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

Date of Sampling Sample Collected by Sample Collected in presence of Sample Received on Analysis Started on Analysis Completed on Method of Sampling Quantity of Sample Type of Container Environment Condition

Sample ID. No.

- 1. ERSIPL/WA/432 2. ERSIPL/WA/433
- 3. ERSIPL/WA/434
- 4. ERSIPL/WA/435

TEST FINDINGS

- MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
 04.07.2023
- Representative of ERS (I) Pvt. Ltd. Representative of the Customer.
- : 15.07.2023
- 15.07.2023
- : 24.07.2023
- : 15 17614: Part 1: 2021
- : 2ltrs
- : Glass Bottle, HDPE Bottle & BOD Bottle
- : All Tests carried out in Room Temperature

Locations

- 1. Boiler Blow down of WHR8-2
- 2. Boller Blow down of WHR8-3
- 3. Boiler Blow down of WHRB-4
- 4. Boiler Blow down of WHRB-5

			Unit		Permissible			
S. No.	Test Parameters	Test Method		ERSIPL /WA/ 432	ERSIPL /WA/ 433	ERSIPL /WA/ 434	ERSIPL /WA/ 435	Limit as per CTO
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	-	7.05	6.87	7,32	7.45	301
02	Total Suspended Solids	15 3025:Part 17: 1984 Reaffirmed-2022	mg/L	4.11.	3.3	2.1	3.7	100.0
02	OU & Grause	IS 3075 Part 35: 2021	mg/L	111	1.94	1.29	1.57	20.0
04	Iron (as Fe)	15 3025: Part 53: 2003 Reatfirmed-2019	mg/L	0.06	0.07	0.06	0.05	1.0





TEST FINDINGS

CIN - U731000R1995PTCD03889



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)

Pg No: 1 of 1

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 Sample Collected by Sample Collected in presence of Sample Received on	: 04.07.2023 : Representative of ERS (I) Pvt. Ltd. : Representative of the Customer. : 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 2. ERSIPL/WA/433 3. ERSIPL/WA/434 4. ERSIPL/WA/435	1. Boiler Blow down of WHRB-2 2. Boiler Blow down of WHRB-3 3. Boiler Blow down of WHRB-4 4. Boiler Blow down of WHRB-5

	-				Result				
5. No.	Test Parameters	Test Method	Unit	ERSIPL /WA/ 432	ERSIPL /WA/ 433	ERSIPL /WA/ 434	ERSIPL /WA/ 435	Limit as per CTO	
01	Copper	IS 3025: Part 42: 1992 Reaffirmed- 2019	mg/L	Not Detected			1.0		

(Authorized Signatory) S.P.Patteriapek Tech. Managar

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



G5TIN: 21AAACE6224D1ZE

vt. I.td.

Environmental Research and Services (India) Dvt. Ltd.

(An ISO/IEC 17025 : 2017 (MABL) Accredited Laboratory, OSPCB Empariolled 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-TC744023000000356F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Date: 24 July 2023

Test Report No: ERSIPL/TR/WA/182

Pg No: 1 of 1

Name and Address of the Customer

Date of Sampling Sample Collected by Sample Collected in presence of Sample Received on Analysis Started on Analysis Completed on Method of Sampling Quantity of Sample Type of Container Environment Condition

Sample ID. No.

1. ERSIPL/WA/436 2. ERSIPL/WA/437 3. ERSIPL/WA/438 4. ERSIPL/WA/439

TEST FINDINGS

- MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
- : 04.07.2023 : Representative of ERS (I) Pvt. Ltd.
- Representative of the Customer.
- : 15.07.2023
- : 15.07.2023
- : 24.07.2023
- : IS 17614: Part 1: 2021
- : 2ltrs
- : Glass Bottle, HDPE Bottle & BOD Bottle
- : All Tests carried out in Room Temperature

Locations

- 1. Boller Blow down of WHRB-6
- 2. Boiler Blow down of WHRB-7
- 3. Boller Blow down of WHRB-8
- 4. Boiler Blow down of AFBC

				Result				Permissible Limit as per CTO
S. No. Parameters Test Method		eters Test Method Unit		Parameters Test Method Unit ERSIPL ERSIPL /WA/ /WA/ 436 437		ERSIPL /WA/ 437	ERSIPL /WA/ 438	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	æ	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/1	1.04	1,72	1.57	1.52	20.0
04	tron (as Fe)	15 3025: Part 53: 2003 Reaffirmed-2019	mg/L	0.07	0.06	0.06	0.05	1,0

(Authorized Signatory)

Tech Mellagar







1. ERSIPL/WA/436

2. ERSIPL/WA/437

3. ERSIPL/WA/438

4. ERSIPL/WA/439 TEST FINDINGS

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: erslbbsr@gmail.com

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

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. Boller Blow down of WHRB-6
- 2. Boiler Blow down of WHRB-7
- 3. Boiler Blow down of WHRB 8
- 4. Boiler Blow down of AFBC

			Unit		Permissibl			
5. No.	Test Parameters	Test Method		ERSIPL /wa/ 436	ERSIPL /WA/ 437	ERSIPL /WA/ 438	ERSIPL /WA/ 439	per CTO
01	Copper	IS 3025: Part 42: 1992 Reaffirmed- 2019	mg/L		Not D	etected		1.0

(Authorized Signatory)

S.P.Pattanayek Tech.Manager

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

CIN - U731000R1995PTC003889



GSTIN: 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

(An ISD/IEC 17025 = 2017 (MABL) Accessited Laboratory, OSPCB Empacellad Laboratory and ISO 9001 = 2015 Certiliad 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-TC744023000000357F

Test Report Format No.: ERSIPL/FM/40

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

Pg No: 1 of 1

TEST REPORT (WATER/ WASTE WATER)

04.07.2023

.

Date: 24 July 2023

Sample ID. No.

1. ERSIPL/WA/440

2. ERSIPL/WA/441

3. ERSIPL/WA/442

Name and Address of the Customer

Date of Sampling Sample Collected by Sample Collected in presence of Sample Received on Analysis Started on Analysis Completed on Method of Sampling Quantity of Sample Type of Container Environment Condition

: 15.07.2023 : 15.07.2023

Dist: Jharsuguda, Odisha

: 24.07.2023 : IS 17614: Part 1: 2021

Locations

: 2itrs

: Glass Bottle, HDPE Bottle & BOD Bottle

Test Report No: ERSIPL/TR/WA/183

Representative of ERS (I) Pvt. Ltd.

: Representative of the Customer.

: All Tests carried out in Room Temperature

1. Cooling Tower Blow Down of WHRB-01 to 88 & AFBC

2. Cooling Tower Blow Down of Induction Furnace

3 Cooling Tower Blow Down of Blast Furnace

	-		Unit	V	Permissi		
5. No.	Test Parameters	Test Method		ERSIPL /WA/ 440	ERSIPL /WA/ 441	ERSIPL /WA/ 442	ble Limit as per CTO
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 31/5ec 1) : 2022	mg/L	0.42	0.38	0.16	2.0

(Authorized Signatory) S.P.Parturnapak Tech Manager

......END OF TEST REPORT







1. ERSIPL/WA/440.

2. ERSIPL/WA/441

3. ERSIPL/WA/442

Environmental Research and Services (India) Pvt. Ltd.

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

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

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 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) PvL 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. Cooling Tower Blow Down of WHRB-D1 to 08 & AFBC

- 2. Cooling Tower Blow Down of Induction Furnace
- 3. Cooling Tower Blow Down of Blast Furnace

				. U	Permissi			
S. No.	Test Parameters	Test Method	Unit	ERSIPL /WA/ 440	ERSIPL /WA/ 441	ERSIPL /WA/ 442	ble Limit as per CTO	
01	Total Chromium (as Cr*6)	IS 3025:Part 52: 2003 Reaffirmed-2019	mg/L	< N	ot Detected		2.0	
02	Free Available Chlorine	18 3025:Part 26: 2021	mg/L		NIL		0.5	
03	Zinc	IS 3025:Part 39: 1991 Reaffirmed-2019	mg/L		ot Detected		1.0	

al

(Authorized Signatory)

S.P.Pattaneyek Tech.Manager



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

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-TC744023000000471F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

in commit of an ill pic. Mit

orked Signator

TC-7440

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 °C
Sample ID. No.	Locations

- 1. ERSIPL/WA/561
- 2. ERSIPL/WA/562
- 3. ERSIPL/WA/563
- 4. ERSIPL/WA/564
- TEST FINDINGS

- Boiler Blow down of WHRB-1
- 2. Boiler Blow down of WHRB-2
- 3. Boiler Blow down of WHRB-3
- 3. Boiler Blow down of WHRB-4

						Permissible		
S. No.	Test Parameters	Test Method	Unit	ERSIPL /WA/ 561	ERSIPL /WA/ 562	ERSIPL /WA/ 563	ERSIPL /WA/ 564	Permissible Limit as per CTO XX 100.0
01	pH Value	15 3025:Part 11: 1983 Reaffirmed-2022	्स	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	15 3025:Part 39: 2021	mg/L	1.81	2.40	2.29	2.57	20.0
04	fron (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 mems sampled and respect Total Liability of ERS [I] Pvt. Ltd. is limited to the Invoice Amount. 1

This contribute shall not be reproduced fully or in part without prior written content of ERS ii) Pvt. Ltd.

3. Samples (Filter Papers & Thusday) received shall be delitrayed after 81 figuid samples received shall be х.

destroyed after 07 days from the date of lasur of the test report, unless

This report shall not used in any advertising media or as evidence in th 3.

CTN - U731000R1995F7C003889



GSTIN: 21AAACE6224D1ZE



Environmental Research and Services (India) Dvt. Ltd.

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

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

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

ed Signato

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
10 Mar 10 10 10	

Sample ID. No.

- 1. ERSIPL/WA/561
- 2. ERSIPL/WA/562
- 3. ERSIPL/WA/563
- 4. ERSIPL/WA/564

TEST FINDINGS

- Locations
- 1. Boiler Blow down of WHRB-1
- 2. Boiler Blow down of WHRB-2
- 3. Boiler Blow down of WHRB-3
- 3. Boiler Blow down of WHR8-4

S. Test No. Parameters	Tort			Result				Permissible
	Parameters	Test Method	Unit	ERSIPL /WA/ 561	ERSIPL /WA/ 562	ERSIPL /WA/ 563	ERSIPL /WA/ 564	Limit as per CTO
01	Copper	15 3025: Part 42: 1992 Reaffirmed 2019	mg/L	Not Detected		1.0		

END OF TEST REPORT.





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

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)

Pg No: 1 of 1

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 Sample Collected by	: 29.08.2023 : S. samaritaray, Field assistant, ERS(I) Pvt. Ltd
Sample Collected in presence of Sample Received on	: 01.09.2023
Analysis Started on Analysis Completed on	; 01.09.2023 ; 05.09.2023
Method of Sampling Quantity of Sample	: As per Applicable Test Method : 2ltrs
Type of Container Weather Condition	: Glass Bottle, HDPE Bottle & BOD Bottle : Overcast
Atmospheric temperature	: 33 °C
1 ERSIPL/WA/565	1 Boiler Blow down of WHR8-5

2. Boiler Blow down of WHRB-6

3. Boiler Blow down of WHRB-7

4. Boiler Blow down of WHRB-8

- 1. ERSIPL/WA/565
- 2. ERSIPL/WA/566
- 3. ERSIPL/WA/56
- 4. ERSIPL/WA/568

TEST FINDINGS

NULL

7			
8			

					Result			Permissible Limit as per CTO
S. No.	Test Parameters	Test Method	Unit	ERSIPL /WA/ 565	ERSIPL /WA/ 566	ERSIPL /WA/ 567	ERSIPL /WA/ 568	
01	pH Value	15 3025:Part 11: 1983 Reaffirmed-2022	272	7.51	7.44	7.31	7.27	xx
02	Total Suspended Solids	IS 3025:Part 17: 1984 Reaffirmed-2022	mg/t.	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)	15 3025: Part 53: 2003 Reaffirmed-2019	mg/L	0.07	0.06	0.05	0.07	1.0

The test results relate only to the down samples and tested. 1.

Total stability of EHS (I) Pvt. Ltd. is limited to the Invoice Amount. 2.

This certificate shall not be reproduced fully or in part without prior written commit of ERS (I) PML Ltd.

1. samples (Filter Papers & Thimples) received shall be destroyed after 01 year & Gesenos/Jiquid samples received shall be 2

destroyed after 07 days from the date of more of the test report, unless otherwise This report shall not used in any advertising media or as evidence in the uport of l

phized Signato





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-mall: ersibbsr@gmail.com

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

	Pg No: 1 of 1
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 °C

Sample ID. No.

- 1. ERSIPL/WA/565
- 2. ERSIPL/WA/566
- 3. ERSIPL/WA/567
- 4. ERSIPL/WA/568

TEST FINDINGS

Locations

- 1. Boiler Blow down of WHRB-5
- 2. Boiler Blow down of WHRB-6
- 3. Boiler Blow down of WHRB-7
- 4. Boiler Blow down of WHRB-8

					Permissibl			
S. Test No. Parame	Test Parameters	Test Method	Unit	ERSIPL /WA/ S6S	ERSIPL /WA/ 566	ERSIPL /WA/ 567	ERSIPL /WA/ 568	e Umit as per CTO
01	Copper	IS 3025: Part 42: 1992 Reaffirmed 2019	mg/L		Not De	tected		1.0



END OF TEST REPORT



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

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)

Pg No: 1 of 1

TC-7440

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.

1. ERSIPL/WA/569

Locations

1. Boiler Blow down of AFBC

	2572			Result	Permissible Limit as per CTO	
S. No.	Test Parameters	Test Method	Unit	ERSIPL /WA/ 569		
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022		7.31	- 3636	
Ð2	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	

Note-1. The last 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 pertificate shall not be reproduced fully or in part without prior written compart of ERS (i) Put. Ltd.

4. Samples (Filter Papers & Thambles) received shall be destroyed after G1 year & Gaseous/Junid 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 usual in any advertising media to as evidence to the sourt of two y

TRS IN PAR LINE thorned Signator



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/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1 Test Report No: ERSIPL/TR/WA/T-240 Date: 06 SEPT 2023 : MSP Metallics Limited, Village: Marakuta; Tehsil: Jharsuguda, Name and Address of the Customer Dist: Jharsuguda, Odisha 29.08.2023 81 Date of Sampling : S. samantaray, Field assistant, ERS(I) Pvt. Ltd Sample Collected by Representative of the Customer. Sample Collected in presence of 01.09.2023 Sample Received on : 01.09.2023 Analysis Started on : 05.09.2023 Analysis Completed on As per Applicable Test Method Method of Sampling 2itrs Quantity of Sample Glass Bottle, HDPE Bottle & BOD Bottle Type of Container Overcast Weather Condition 33 °C Atmospheric temperature Locations Sample ID. No. 1. 6 Boiler Blow down of AFBC 1. ERSIPL/WA/569

			3	Result	Permissibl	
S. No.	Test Parameters	Test Method	Unit	ERSIPL /wa/ 569	e Limit as per CTO	
01	Copper	IS 3025: Part 42: 1992 Reaffirmed- 2019	mg/L	Not Detecte d	1.0	

d Signatory)

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



(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)

Pg No: 1 of 1

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 °C

Locations

Sample ID. No.

1. ERSIPL/WA/570

- 2. ERSIPL/WA/571
- 3. ERSIPL/WA/572

1. Cooling Tower Blow Down of WHR8-01 to 08 & AFBC

- 2. Cooling Tower Blow Down of Induction Furnace
- 3. Cooling Tower Blow Down of Blast Furnace

					Result				
S. No.	Test Parameters	Test Method	Unit	ERSIPL /WA/ 570	ERSIPL /WA/ 571	ERSIPL /WA/ 572	ble Limit as per сто		
01	pH Value	15 3025:Part 11: 1983 Reaffirmed-2022	9 8	8.11	8.41	8.24	××		
02	Phosphate (as PO4)	15 3025 (Part 31/Sec 1) : 2022	mg/L	0.40	0.35	0.13	2.0		

The test results relate only to the items sampled and toxed. Note 1.

Total Liability of ERS (I) Pvt. Ltd. is limited to the Invoice Amount, 2

This certificate shall not be reproduced fully or in part without prior written consent of ERS (I) Pet. Ltd. 3.

Samples (Filter Papers & Thimbles) received shall be destroyed after 01 year & Gaseowy/liquid samples received shall be 4

destroyed after 07 days from the date of issue of the test report, unless difference ap-

This report shall not used in any advertising media or at evidence in the point of the 5

d

......END OF TEST REPORT





GSTIN: 21AAACE6224D1ZE



Environmental Research and Services (India) Dvt. Ltd.

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

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

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

hati ti

uthoused Signatory

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, Diet: Ibarsuguda, 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

Sample ID. No.

1. ERSIPL/WA/570

Z. ERSIPL/WA/571

3, ERSIPL/WA/572

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

2. Cooling Tower Blow Down of Induction Furnace

3. Cooling Tower Blow Down of Blast Furnace

S. No.					Permissi		
	Test Parameters	Test Method	Test Method Unit		ERSIPL /WA/ 571	ERSIPL /WA/ 572	ble 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: 2021	mg/L		NIL		0.5
03	Zinc	IS 3025:Part 39: 1991 Reaffirmed-2019	mg/L	N	ot Detected		1.0

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





Pg No: 1 of 1

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

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)

	- m.	10.00		100.00	10.00	
1216	2.00	~~	24	1000	1	
60.00	Sec. 27	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			A	

Test Report No: ERSIPL/TR/WA/248

Name and Address of the Customer

- Date of Sampling
- Sample Collected by Sample Collected in presence of Sample Received on Analysis Started on Analysis Completed on Method of Sampling Quantity of Sample Type of Container Weather Condition Atmospheric temperature

Sample ID. No.

- 1. ERSIPL/WA/592
- Z. ERSIPL/WA/593
- 3. ERSIPL/WA/594
- 4. ERSIPL/WA/595

TEST FINDINGS

- : MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
- : 01.09.2023
- R Jena, Field Supervisor, ERS(I) Pvt. Ltd
- Representative of the Customer.
- 04.09.2023
- 04.09.2023
- : 13,09,2023
- As per Applicable Test Method
- Bitrs
- Glass Bottle, HDPE Bottle
- : Sunny
- : 31°C

Locations

- 1. Boiler Blow down of WHRB-1
- 2. Boiler Blow down of WHRB-2
- 3. Boller Blow down of WHRB-3
- 3. Boiler Blow down of WHRB-4

					Re	sult		Permissible				
S. No.	Parameters	Test Method	Unit	ERSIPL /WA/ 592	ERSIPL /WA/ 593	ERSIPL /WA/ 594	ERSIPL /WA/ 595	Limit as per CTO				
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	- 295	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-

The test results relate only to the items sampled and tested.

Total Liability of TRS [I] Pvt. Ltd. is limited to the invoice Amount.
 This certificate shall not be reproduced fully or in part without prior w

This certificate shall not be reproduced fully or in part without prior written consent of ERS [I] PvL Ltd.

4. Samples (Filter Papers & Thimbles) received shall be destroyed after 01 year & Galoous/liquid samples received shall be

destroyed after 07 days from the date of issue of the test report, unless atherwise specified.

5. This report shall not used in any advertising media or as evidence in the court of law without prior written consent of (RS ()) byt. Ust.



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/40

TEST REPORT (WATER/ WASTE WATER)

Fg No: 1 of 1

	A		
Name and	Address (of the Cust	om

Date: 25 SEPT 2023

Date of Sampling Sample Collected by Sample Collected in presence of Sample Received on Analysis Started on Analysis Completed on Method of Sampling Quantity of Sample Type of Container Weather Condition Atmospheric temperature

Sample ID, No.

- 1. ERSIPL/WA/592
- 2. ERSIPL/WA/593
- 3. ERSIPL/WA/594
- TEST FINDINGS
- 4. ERSIPL/WA/595

- Test Report No: ERSIPL/TR/WA/T-248 MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda,
- Dist: Jharsuguda, Odisha
- 01.09.2023
- R Jena, Field Supervisor, ERS(I) Pvt. Ltd
- Representative of the Customer.
- 04.09.2023
- 04.09.2023 13.09,2023
- As per Applicable Test Method
- Bitrs
- Glass Bottle, HDPE Bottle
- Sunny
- 31°C

Locations

- 1. Boiler Blow down of WHRB-1
- 2. Boiler Blow down of WHRB-2
- Boiler Blow down of WHRB-3
- 3. Boiler Blow down of WHRB-4

S. No.	Tost				Re	sult		Permissible
	Parameters	Test Method Un	Unit	ERSIPL /WA/ 592	ERSIPL /WA/ 593	ERSIPL /WA/ 594	ERSIPL /WA/ 595	Limit as per CTO
01	Copper	IS 3025: Part 42: 1992 Reaffirmed- 2019	mg/L	- 11	Not De	tected		1.0

(Authorized Signatory) S.P.Pattanayak Tech.Mar.ager

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





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

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)

Pg No: 1 of 1

Date: 25 SEPT 2023	Test Report No: ERSIPL/TR/WA/249
Name and Address of the Customer	: MSP Metallics Limited, Village: Marakuta, Tehsil: Iharsuguda,
	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

- 2. ERSIPL/WA/597
- 3. ERSIPL/WA/598
- 4. ERSIPL/WA/599
- 5. ERSIPL/WA/600
- TEST FINDINGS

- Baller Blaundaum allik
- Boiler Blow down of WHRB-5
 Boiler Blow down of WHRB 6
- Boiler Blow down of WHRB-8
 Boiler Blow down of WHRB-7
- Boiler Blow down of WHRB-8
- E Ballos Play down of AEBC

э,	ponet	DIOM	COMMIT	OT MEDE	

	Test					Permissible			
S. No,	Parameters	Test Method	Unit	ERSIPL /WA/ 596	ERSIPL /WA/ 597	ERSIPL /WA/ 598	ERSIPL /WA/ 599	ERSIPL /WA/ 600	Limit as per CTO
01	pH Value	15 3025:Part 11: 1983 Reaffirmed-2022		7.48	7.43	7.33	7.29	7.25	**
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

NOIE

1

The test results relate only to the items sampled and tested.

Total Unbility of ERS (I) Fvt. Ltd. Is limited to the Invoice Amount.

This certificate shall not be reproduced fully or in part without prior written assignt of ERS II] Put. Ltd.

 Samplas (Filter Papers & Thimbids) received shall be destroyed after 01 year & Gaacous/liquid samples received shall be destroyed after 07 days from the date of issue of the test resort, unless otherwise specified.

5. This report shall not used in any advertising media of as evidence in the court of two without prior written containt of EES (I) PVI, Ed.

(Authorized Signatory) S.P. Pattanavak

CIN + U731000R1995PTC003889



GSTIN: 21AAACE6224D1ZE



Environmental Research and Services (India) Dvt. Ltd.

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

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

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 25 SEPT 2023		Test Report No: ERSIPL/TR/WA/T-249	
Name and Address of the Customer	ä	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha	
Date of Sampling	6	01.09.2023	
Sample Collected by	1.3	R Jena, Field Supervisor, ERS(I) Pvt. Ltd	
Sample Collected in presence of	- 3	Representative of the Customer.	
Sample Received on	- 2	04.09.2023	
Analysis Started on	1	04.09.2023	
Analysis Completed on	i i	13.09.2023	
Method of Sampling		As per Applicable Test Method	
Quantity of Sample	1	3ltrs	
Type of Container		Glass Bottle, HDPE Bottle	
Weather Condition	- 12	Sunny	
Atmospheric temperature		31 °C	

Sample ID. No.

ERSIPL/WA/596
 ERSIPL/WA/597
 ERSIPL/WA/598
 ERSIPL/WA/599
 ERSIPL/WA/600
 TEST FINDINGS

Locations

- 1. Boiler Blow down of WHRB-5
- 2. Boiler Blow down of WHRB-6
- 3. Boiler Blow down of WHRB-7
- 4. Boiler Blow down of WHRB-8
- 5. Boiler Blow down of AFBC

						Result			Permissi
S. No.	Test Parameters	Test Method	Unit	ERSIPL /WA/ 596	ERSIPL /WA/ 597	ERSIPL /WA/ 598	ERSIPL /WA/ 599	ERSIPL /WA/ 600	ble Limit as per CTO
01	Copper	IS 3025: Part 42: 1992 Reaffirmed- 2019	mg/L		Ň	ot Detecto	ed		1.0

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

(Authorized Signatory) S.P.Pattanayak Teon.Mar.ager



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

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)

Pg No: 1 of 1

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: Iharsuguda, 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	: Zitrs
Type of Container	HDPE Bottle
Weather Condition	: Sunny
Atmospheric temperature	: 31 °C

Locations

Sample ID. No.

1. ERSIPL/WA/601

- 2, ERSIPL/WA/602
- 3. ERSIPL/WA/603

- 1. Cooling Tower Blow Down of WHRB-01 to 08 & AFBC
- 2. Cooling Tower Blow Down from Steel Melting Shop
- 3. Cooling Tower Blow Down of Blast Furnace

W.S.L.					Permissi		
5. No.	Parameters	Test Method	Unit	ERSIPL /WA/ 601	ERSIPL /WA/ 602	ERSIPL /WA/ 603	ble Umit as per CTO
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	***	8.06	8.36	8.29	xx
02	Phosphate (as PO4)	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 Uability of ERS (I) Pvt. Ltd. is limited to the lovoice Amount.

3. This certificate shall not be reproduced fully or in part without prior written consent of ERS (I) Pvt. Ltd.

 Samples (Filter Papers & Thimbles) received shall be destroyed after 01 year & Gasepus/liquid samples received shall be destroyed after 07 days from the date of issue of the text 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 concert of EES (1) byt. Inc.

(Authorized Signatory) S.P.Pattanayak Tech.Mar.ager CIN - U731000R1995PTC003889



GSTIN: 21AAACE6224D1ZE



Environmental Research and Services (India) Pvt. Ltd.

(OSPCB 'A' Category Empanalled 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

Type of Container

Weather Condition

Sample ID, No.

1. ERSIPL/WA/601

2. ERSIPL/WA/602

3. ERSIPL/WA/603

Atmospheric temperature

Pg No: 1 of 1 Test Report No: ERSIPL/TR/WA/T-250

Name and Address of the Customer

Date of Sampling Sample Collected by Sample Collected in presence of Sample Received on Analysis Started on Analysis Completed on Method of Sampling Quantity of Sample : MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha

: 01.09.2023

R Jena, Field Supervisor, ERS(I) Pvt. Ltd

- Representative of the Customer.
- 04.09.2023
- : 04.09.2023
- : 13.09.2023
 - As per Applicable Test Method
- 2ltrs
- : HDPE Bottle
- : Sunny : 31 °C
 - 31~C

Locations

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

2. Cooling Tower Blow Down from Steel Melting Shop

3. Cooling Tower Blow Down of Blast Furnace

					Permissi			
S. No.	Test Parameters	Test Method	Unit	ERSIPL /WA/ 601	ERSIPL /WA/ 602	ERSIPL /WA/ 603	ble 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	1S 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

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)

		Month and Date of Measurement											
S. No.	Noise Level Measurement Stations	April (04/04	2023 /2023)	May2 (08/05,	2023 /2023)	June (13/06	2023 5/2023)	July (05/07	2023 7/2023)	Augu (28/0	st 2023 8/2023)	Sept 20 (01/09	ember)23 9/2023)
		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







(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

1

8

£.

Measurement taken by

Representative of ERS (I) Pvt. Ltd.

Measurement taken in presence of

Representative of the Customer.

			Result in dB (A) Leq		
SI. No.		Location	Day Time (6.00 A. M. - 10.00 P.M.)	Night Time (10.00 P.M. - 6.00 A.M.)	
1		Near Main Gate	59.3	51.7	
2	Ambient	Near Administrative Building	54,6	47.9	
3	3	Near Store Room	67.8	63.7	
4		Near Boiler (WHRB-III)	64.9	62.3	
5	Founda	Near Boiler (WHRB-IV)	66.2	62.8	
б	Disease	Near Boiler (WHR8-V)	73.4	65.6	
7	Places	Near Boiler (WHRB-VI)	74.0	62.3	
8	Stationary	Near Boiler (WHRB-VII)	72.8	60.8	
9	Sources)	Near Boiler (WHRB VIII)	72.4	67.9	
10		Near Boiler AFBC	61.6	59.4	

Ambient Noise Level Standards

		Limits in dB(A) L _{eq}			
Area Code	Category of Area / Zone	Day Time {6.00 a.m. to 10.00 p.m.}	Night Time (10.00 p.m. to 6.00 a.m.)		
А	Industrial Area	75	70		
В	Commercial Area	65	55		
C	Residential Area	55	45		
D	Silence Zone	50	40		

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

CIN - U731000R1995PTC003889



GSTIN: 21AAACE6224D1ZE



Environmental Research and Services (India) Dvt. Ltd.

(OSPCB 'A' Category Empanelled Laboratory and ISO 9001: 2015 Certified Company) Plot No: B-22, Sector-B, Industrial Estate Chandaka, Infocity Road, Bhubaneswar-751024, Odisha Tel: +91-9437021932, +91-9937690329, E-mail: ersibbsr@gmail.com

AMBIENT NOISE LEVEL MEASUREMENT REPORT

Date: 30 May 2023

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

Date of Measurement

08.05.2023

2

5

51

Measurement taken by

Name and Address of the Customer

Representative of ERS (I) Pvt. Ltd.

Measurement taken in presence of

Representative of the Customer.

			Result in	dB (A) Leq	
SI. No.		Location	Day Time (6.00 A. M. 10.00 P.M.)	Night Time (10.00 P.M. – 6.00 A.M.)	
1		Near Main Gate	61.4	53.9	
2	Ambient	Near Administrative Building	58.3	49.6	
3		Near Store Room	73.9	69.1	
4		Near Boiler (WHRB-III)	74.1	68.3	
5		Near Boiler (WHRB-IV)	73.0	64.8	
6	Source	Near Boiler (WHRB-V)	72.8	65.9	
7	Places	Near Boiler (WHRB-VI)	70.6	66.7	
8	(Stationary Sources)	Near Boiler (WHRB-VII)	73.6	65.4	
9		Near Boiler (WHRB-VIII)	73.8	64.9	
10		Near Boller AFBC	70.3	68.0	

Ambient Noise Level Standards

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

(Authorized Signatory) S.P.Pattanayek

Tech.Manager





GSTIN: 21AAACE6224D1ZE



Environmental Research and Services (India) Pvt. 4td.

(OSPCB 'A' Category Emparielled 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.

			Result in	dB (A) Leq
SI. No.		Location	Day Time (6.00 A. M. – 10.00 P.M.)	Night Time (10.00 P.M. - 6.00 A.M.)
1		Near Main Gate	54.8	42.3
2	0.000	Near Administrative Building	48.6	40.7
3	Ampient	Near Store Room	58.9	52.6
4		Near Ferro Alloys Plant	44.8	34.9
5		Near Boller (WHRB-I)	73,4	66.3
6	Source	Near Boiler (WHRB-II)	72.4	60.8
7	Places	Near Boiler (WHRB-III)	68.9	64.4
8	(Stationary	Near Boiler (WHRB- VII)	64.7	64.7
9	Sources)	Near SMS	63,6	60.8
10		Near Boiler AFBC	69.2	62.0

Ambient Noise Level Standards

Area Code		Limits in dB(A) L _{eq}				
	Category of Area / Zone	Day Time (6.00 a.m. to 10.00 p.m.)	Night Time (10.00 p.m. to 6.00 a.m.)			
A	Industrial Area	75	70			
В	Commercial Area	65	55			
С	Residential Area		45			
D	Silence Zone	50	40			

(Authorized Signatory) S.P.Pattanayah Tech:Mar.ager







(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: ersibbsn@gmail.com

AMBIENT NOISE LEVEL MEASUREMENT REPORT

Date: 24 July 2023

Name and Address of the Customer	ŝ	MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Measurement	*	05.07.2023
Measurement taken by	3	Representative of ERS (I) Pvt. Ltd.
Measurement taken in presence of	2	Representative of the Customer.

			Result in	dB (A) Leq
51. No.		Location	Day Time (6.00 A. M. - 10.00 P.M.)	Night Time (10.00 P.M. ~ 6.00 A.M.)
1		Near Main Gate	53.8	48.5
Z	Ambient	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		Near Boiler (WHRB-I)	67.4	64.6
6	Source	Near Boiler (WHRB-II)	72.5	68.9
7	Places	Near Boiler (WHRB-III)	73.4	69.0
8	(Stationary	Near Boiler (WHRB- VII)	74.4	69.8
9	Sources]	Near SMS	68.8	64.3
10		Near Boiler AFBC	73.5	68.4

Ambient Noise Level Standards

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

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





GSTIN: 21AAACE5224D1ZE



Environmental Research and Services (India) Pvt. Ltd.

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

Plot No: 8-22, 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	्य	Representative of the Customer.

	Location		Result in dB (A) Leq		
SI. No.			Day Time (6.00 A. M. - 10.00 P.M.)	Night Time (10.00 P.M. – 6.00 A.M.)	
1		Near Main Gate	51.4	43.7	
2		Near Administrative Building	57.2	48.6	
3	Ambient	Near Store Room	80.8	76,2	
4		Near Ferro Alloys Plant	74.8	70.7	
5		Near Boiler (WHRB-I)	78.5	69.9	
6	Source	Near Boiler (WHRB-II)	79.1	76.3	
7	Places	Near Boiler (WHRB-III)	77.4	73.8	
8	(Stationary	Near Boller (WHRB- VII)	76.3	73.1	
9	Sources)	Near SMS	79.1	73.8	
10	1	Near Boiler AFBC	69.9	68.3	

Ambient Noise Level Standards

	Limits in dB(A) Leg		
Category of Area / Zone	Day Time (6.00 a.m. to 10.00 p.m.)	Night Time (10.00 p.m. to 6.00 a.m.)	
Industrial Area	75	70	
Commercial Area	65	55	
Residential Area	55	45	
Silence Zone	50	40	
	Category of Area / Zone Industrial Area Commercial Area Residential Area Silence Zone	Category of Area / Zone Day Time (6.00 a.m. to 10.00 p.m.) Industrial Area 75 Commercial Area 65 Residential Area 55 Silence Zone 50	

cized Signatory)





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	81	MSP Metallics Limited, Village: Marakuta, Tehsil: Iharsuguda, Dist: Iharsuguda, Odisha
Date of Measurement	ŝ.	01.09.2023
Measurement taken by	(ę.	Representative of ERS (I) Pvt. Ltd.
Measurement taken in presence of	3	Representative of the Customer.

	o. Location		Result in dB (A) Leq		
SI. No.			Day Time (6.00 A. M. ~ 10.00 P.M.)	Night Time (10.00 P.M. ~ 6.00 A.M.)	
1		Near Main Gate	50.2	42.3	
2	Amilia Tanan	Near Administrative Building	56,7	46.4	
3	Ambient	Near Store Room	60.7	59.8	
4		Near Ferro Alloys Plant	65,7	61.2	
5		Near Boiler (WHRB-I)	74.3	69.4	
6	Source	Near Boiler (WHRB-II)	72.0	69.4	
7	Places	Near Boiler (WHRB-III)	70.4	65.2	
8	(Stationary	Near Boiler (WHRB- VII)	73,4	68.0	
9	Sources)	Near SMS	74.3	68.1	
10		Near AFBC Boiler	74.2	67.6	

Ambient Noise Level Standards

		Limits in dB(A) L _{eq}		
Area Code	Category of Area / Zone	Day Time (6.00 a.m. to 10.00 p.m.)	Night Time (10.00 p.m. to 6.00 a.m.)	
A	Industrial Area	75	70	
В	Commercial Area	65	55	
С	Residential Area	55	45	
D	Silence Zone	50	40	

(Authorized Signatory) Tech.Manager

ANNEXURE-XXI

07-23

197	Form N <u>HEALTH</u> (Pre-employme Prescribed un	o, 31-A <u>RECORD</u> mt / Periodical) ider Rule 62-1]
L.	Name of the Factory	
2	Name of the Employee	5 15 2 2
. J.	Employee Distinguishing Number	= ms1
- 4	Age of the Employee	: 97
	Identification Mark	: Cest
	Nature of the Job	5 S.M.
5.	Date of Employment	5 29.
6.	Length of service in years	: 642
7.	General Survey :	
	Health	Good
	Height	31 m
	Weight	8 9
8	Blood Group	3 09
	Eve Vision	Norm

- Use of glass
- 10. Heating
- 11. Respiratory System and Chest Measurement
 - Inspiration Expiration Respirationnate
 - Remarks, if any
- 12. Cardiovascular System Pulse Rate
 - BP
 - Heart Sound
 - Remarks, If any
- 13. Abdomen Tenderness
- Nervous System
 History of Fits
 Epilepsy
 - Remarks on Mental Health

fetallics Limited render an Rowald. POBO825 Marik an Buchead SIMPARINIS to. 09-25 /Fair/Poor GK Cms: Kg. Normal / Abnormal Yes/No Normal / Abnimal 65 90 Cms.

Dates

25	Crus.
18	/Min
N-L_	
P1_	Min.
120180	

wannal

- MIL
- : Yes/No
- : Yes No
- : Yes/No
 - C. Ebok

- 15. Locomoter System.
- 16. Skin Condition

17. Remarks on any Skin disease Noticed

- 18. Heamian
- 19. Hydrocele
- 20. Present Complain, if any

- Normal/Abnormal
- -Normal/Abnormal
 - Present/Absent
- Present/Absent
- NUC

NU

0.42

ŝ

5

ŝ

12

4

3

14

÷

21. Summary of Findings Heart disease

Hypertension

Diabetes

T.B

Epilepsy

Poisoning

Others.

Occupational disease, if any

22. Recommendation if, any for any Further investigation

* Bisendra Can Prothe.

Signature of the Employee

Signature of the Medical Officer Regn. No.







HIND HEIDERSHIVALI MARGY MANGAL BAZAAR ROAD, P.O./DIST. JHARSUGUDA - 768-201 (ODISHA)

Gamming Medicines Available of



Ministry of Health & Family Wettere Government of India

Certificate for COVID-19 Vaccination

teauert in India by Minisbry of Health & Family Wetters, Gov, of India

Certificate (D 40790087292

Barneficiary Deterily

Benefitting Nerve	Birendro Kamer Predhen		
Age	46		
Genderi	Male		
ID Verified	Andhonr # XXXXXXXXXX544		
dhibia Hearin ID (0400)	17-2781-2215-7822		
Beneficiary Reference (C	65154903097970		
Vecchebon Statis	Pully Vaccinated (2 Driver) and a Precaution Doce		
Vaccination Details			
Maccinated By	Sunits Neysk		
Viccinetol AL	UPHC Panchpada		

Done Number	Date of Doss	Vaccine Nerver	Balch Number	Vacune Type	Merufacturer
	88.Jee 2021	COMMITTED :	412 070402	COVID-TX movies, Incomplianting what sector	Assessed Description of Sticks
201	21 Aug 2021	cominitie	41212186	COVID 19 sectors; monosphering visit rector	Salue botton al'anta
Personal in case	21.54 3002	cometto.	02947038	COVID-19 escates. Jacomphysing strai skept	Second Institute of India Pyri- Link:



Together, India will defeat COVID-19"

- Phine Minister Manunana Modi

In case of one entropy works, highly control in a new Code, Teach Control Resettions, Robert Control Transformer Color, New York, No. 3075







Form No. 31-A HEALTH RECORD (Pre-employment / Periodical) [Prescribed under Rule 62-1]

Date 106193

ж.	Name of the Factory	: M S P Metallics Limited
2	Name of the Employee	- shankar Barlo
з.	Employee Distinguishing Number	: 0,01L 6271
4	Age of the Employee	3 29 world head
	Identification Mark	a in the mount of the
	Nature of the Job	SICE Decrosory
5.	Date of Employment	19/06/01
ô.	Length of service in years	: #UP2
7.	General Survey :	
	Health	: Good/Fait/Poor
	Height	: fiss Cms
	Weight	GO Kg
8.	Blood Group	: A read
92	Eye Vision	Normal / Abnormal
	Use of glass	Yes / No
10.	Hearing	Normal / Abnrmal
11.	Respiratory System and Chest Measurement	
	Inspiration	: 22 Cms.
	Expiration	Cris.
	Respirationate	: 12- /Min.
	Remarks, if my	1 - POIL
12	Cardiovascular System	
	Pulse Rate	; 7)" Min.
	BP	: 12018.20
	Heart Sound	State Colombolit
	Remarks, If any	1: 1005-
13.	Abdomen Tenderness	: Yes / No
14.	Nervous System	ML
	History of Fits	: Yes/No
	Epilepsy	Yes/No
	Remarks on Mental Health	: 100 L
		N.

- 15. Locomoter System
- 16. Skin Condition
- 17. Remarks on any Skin disease Noticed
- 18. Hearstins
- 19. Hydrocele
- 20. Present Complain, if any

- Normal/Abnormal
- Normal/Abnormal
 - 111-

12

5

è

÷

WIL

ti

ŝ

ţ,

- : Present/Absent
- : Present/Absent

21. Summary of Findings

Heart disease

Hypertension

Diabetes

TB

Epilepsy

Poisoning

Others

Occupational disease, if any

22. Recommendation if, any for any Further investigation

Shanker Branks

Ø.

Signature of the Employee

Signature of the Medical Officer. Regn, No.



Ministry of Health & Family Welfare Government of India

Certificate for COVID-19 Vaccination

lassed in India by Ministry of Health & Family Welfary, Gost. of India

Certificate ID 19872430484

Benoficiary Details

Beneficiery Name	Shankar Batla			
Age	29			
Gender	Mate			
D Verified	Anthrase # XXXXXXXX9465			
Unique Heads ID (14-50)				
Britishidary Reference (D)	26474126567862			
Vergnerion Statuy	Fully Vaccinated (2 Doses) and a Precentlon Dose			
Vascinution Details				
Veccriated By	RINKI NAYAN			
Verocleshier Ac.	Michile Teatrit LIA			

Dose Number	Date of Dose	Vaccine Name	Batch 76.mbH	Vaccost Type	Manufacturier
10	18 Aug 2021	LT/AGE/MLD	atutatio	CDVD-W excise, connectating and exclusion	forum institute of india
22	05 Nov 2021	COVENED	8123761	CDVD-19 camies. State realizating view version	Sanar Invitate of India Pet, 194
Preparation does	06 Sep 2022	CONDENSE	3312033771A	COVID-18 vacative, whose provided stationed.	Biological S. Lindson



Together, India will defeat COVID-19*

- Prane Minister Norendro Modi

to some of any adjustice exectly, leadly contact the assesse Paces, Huntle Contact Huntle care with the Contact Contact Column Helpford No. 5075





FromNo.31-A HEALTH RECORD Devicement/Devolution

SL No.

- 1. Name of the Eactory.
- 2. Name of the Employee
- 3. Employee Distinguishing Number
- Age of the Employee Identification Mark.
 - Nature of the job
- 5. Date of Employment
- 6. Length of Service in years
- 7. General Survey
 - Health -
 - Height STF F
 - Weight 75
- 8. Blood Group
- Eye-Vicinii
 - Use of glass.
- III. Henrite
- 11. Respiratory System and Chest Measurement Inspiration
 - Expiration
 - Respiration rate
 - Remarks, If any
- 12. Cardinvascular System
 - Publiciante
 - RP
 - Heart Sound
 - Remarks, If any
- 13. Abdomen Tenderness
- 14. Nervous System
 - History of Fits
 - Epilepost
 - Remarks on Mental Health

Date 10/06/23

- : MSP Metallics Limited · RAKESH KUMAR JAISWAL 1 MSPOOLL6 1:38 CUT MARK ON MY FORHERD. MECH :10.06.2023 : MN7 Good Fair Pour 1 (73 Cms. 1 ÷ WY Kg 12 R (A) Normal/Abnormal 12 Yes/No. 4 4 Narmal/Abnormal
- ≥ 6) 6 Cms. ≈ 6γ0 Cms. Σ /g. - (Min. Σ 8-1
- : 92_____Min.

5

- 201.80
- VIO-SUPP
- Yes No
- I No
- : Yes/Nu
- : Yes/No
 - Yest No

1

need!
meaninger System	100	Normal/Atmorma
Lin Condition:		Normal/Abnorma
Trutacks on any Skin Disease noticed	(E)	MIL_
1. Hernias		Present/Absent
1. It driicefe	267	Present/Absent
"	3	ML

1

9

11

ž

Ŧ

14

1

÷

3 AL

mining of findings.

and Discuss

Пуринянияния

linbeden

33.

- cilirpay

Consisting.

Hurs.

compation Disease, If any

commendation of any for any further

Parest of the Employee 32((11))

Tue

Signature of the Medical Officer C. Sahu Reg.No

MSP Metallizs Lti's Marghenralharragen a



Ministry of Health & Family Welfare Government of India

Certificate for COVID-19 Vaccination

Hussel in India by Ministry of Hastin & Pamily Wolfare, Govt. of India

Certificate IG: 27588173777

Beneficiary Details

Beneficing Name	Ruboents Ksarrows'
han	38
Gentler	Male
-D-Verdant	Andhinar # XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Upper Holm ID (UHID)	
Binetizing Motorproce 3D	20331470431403
Vaccration Status.	Fully Veccineted (2 Doses) and a Precaution Dose
Veccination Details	
Watcomment By	GITA BAYATRI PANDA
Mucciellinee and	DONGASIL PHC HQ

MICCHIRDH AL

Dose Namine	Date of Done	Veccee Name	Bates Stamper	Viccos Type:	Manufacture
12	10. Are 2021	COVERED D	arcametooa	COVID-19 value/ray reconcilient value	Serum institute of India Pop. 196
20	10.040-0001	COVENELD	41212100	COVID-19 ceptities, not registrating shall sector	Sariam Intelligies of Intellia Proj. Line:
Provident deset	21 Arg 2022	contrients	AUDAACHE	00100-19 centres, (con-replicating viver version)	Names Sections of Scale Pro- 146.



Together, India will defeat COVID-19"

- Prime Minister Norundra Modi

of home of any determinent of the standard the summary fidely freedor Commit-Annual Control and State (Street, ed.) in Control National Nati





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

Date: Ni 66123

3t.,	Name of the Factory	: M S P Metallics Limited	
2	Name of the Employee	: MY, SOLENNY EANERY	
з.	Employee Distinguishing Number	: No 0 0 00 17-651	
4.	Age of the Employee	: 25 LLOA L FARIN	
	Identification Mark	a mole on Log Window	
	Nature of the Job	1 RELEASION (weigh Protige)	
3.	Date of Employment	1 19106123	
6.	Length of service in years	+ NIK_	
9.1	General Survey :		
	Health	: Good/Fair/Poor	
	Height	: 16.8 Cmi.	
	Weight	8.3 Kg.	
8.	Blood Group	: DR+VE_	
9	Eve Vision	: Normal / Abnormal	
10.00	Lise of glass	: Yes / No-	
10	Hearing	1 Normal / Aburmal	
11.	Respiratory System and Chest Measurement		
	Inspiration	Cms.	
	Expiration	: 2.4 Cms.	
	Respirationrate	: 10- /Min.	
	Remarks, if any	: M-	
12	Cardiovascular System		
	Pulse Rate	: 912- Min.	
	BP	: 00120	
	Heart Sound	: Normal	
	Remarks, If any	: WIL	
13.	Abdomen Tenderness	: Yes/No	
14	Nervous System	With.	
10100	History of Fits	Yes/No	
	Enileosy	Yes/No.	
	Remarks on Mental Health	: Smool	
	Recording to the second s	Thomas	

15. Locomoter System

16. Skin Condition

17. Remarks on any Skin disease Noticed

18. Hearnins

19. Hydrocele

20. Present Complain, if any

Normal/Abnormal

: Normal/Abnormal

6.22

2

11

1

53

ł

(nit

÷

Present/Absent

Present/Absent

21. Summary of Findings

Heart disease

Hypertension

Diabetes

T.B

Epilepisy

Poisoning

Others

Occupational disease, if any

22. Recommendation if, any for any Further investigation

Signature of the Employee

Jun

-Signature of the Medical Officer Regn. No. 976

36/2223 17 mil

(1)-WhatsApp

ĩ

×



=91 79786 84808 -- Ovi today at 17.45



Name of Street, & Space, Street, or other

Certificants for COVID-19 Vaccination

Automation: Double

Internet and Address.

AP 100

a survey and in still stand

annes and a state of the state

Including state

Second Sector Bacalo

Incoming Surgers.

Discourse - Disc

Designation of the local division of the loc

Inst 10000 (##9100

interest in the second original



Arts included in Social and a first active limit.

Contract of	a Canada	-
	attration for Last	
N	(MA)	Percenter
10.00	\$15w 3007	19 M 1000
HIRITAGE	410.0196	
in the second	Accession of the local division of	



"Sea in an excision in Together, halo witherfeet COVID-10" compose of

08

in the state second

C-184

Form No. 31-A <u>HEALTH RECORD</u> (Pre-employment / Periodical)

| Prescribed under Rule 62-1 |



SI No.

- 1. Name of the Factory
- Name of the Employee
- 3. Employce Distinguishing Number
- Age of the Employee Identification Mark Nuture of the Job
- 5. Date of Employment
- 6. Length of service in years
- 7. General Survey :-
 - Health
 - Weight
- 8. Blood Group
 - 9. Hye Vision
 - Use of glass
- 10 Hearing
- Respiratory System and Chest Measurement Inspiration
 - Expiration
 - Respirationnate
 - Remarks, if any
- Cardiovascular System Pulse Rate
 - B.P
 - Heart Sound
 - Remarks, If any
- 13. Abdomen Tenderness
- 14. Nervous System History of Fits Epilepsy
 - Remarks on Mental Health

- MSP Metallics Limited
- : (TDEL 68.96 (LIYAY LORDER MOULTCHARK LORDER OPERATEC 10/06/23

Good/Fair/Poor 160 Cma. 66 Kg. 14+16 Kg.

- Yes / No
- Normal / Abarmal

196	Cms.
:577	Cms.
15	/Min,
20112-	

- :72 Min: 124/84 :040374-101 :
- : Yes/No
- : Yes/No
- : Yes/No
 - good

15. Locomoter System

16. Skin Condition

17. Remarks on any Skin disease Noticed

18. Hearnias

19. Hydrocele

20. Present Complain, if any

Normal/Abnormal

Normal/Abnormal

Present/Absent

: Present/Absent

è

1

÷

12

ž

÷

1

1

4

21. Summary of Findings Heart disease Hypertension Diabetes

T.B

Epilepsy

Poisoning

Others

Occupational disease, if any

 Recommendation if, any for any Further investigation

LUNCUDED Signature of the Employee

Signature of the Medical Officer Regn. No:



Ministry of Health & Femily Waltare Government of India

Certificate for COVID-19 Vaccination

insured in India by Ministry of Health & Farmity Waltare, Govt. of India

Cartificate ID ... 6579240EE18

Baneficiary Details	
a	Kapil Kumar Deo
10000	20
Age / 9404	btale
ID Nerther / BSC	Anifhms # XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Lingue minter D'AP-901	26474967276378
Bernindung Beterenov ID Wederseten Status / Grotolad (20	Fully Vaccinated (2 Doses) and a Precaution Dose
Veccination Details	Olleswort Gardia

Ventralize At / 2101000 10

Seheepur CVC. Jharsoguda, Odlaha

Door: Number	Lang of Dear grapping protect	Vaccine Name Balant	Butch Namoler 1,09 969	Sel Deel Arrene shee	Manufacturini Diffeet
		resonants	alifemti	COVID-10 validities	Description in the latter
37	28,48,467			COND ID MILITIA	Secon manage of your PAL
12	04 647 2021	CONNIHUED	A121910.080	proceeptioning whether the	3.40
	N 24 1978	COVID-HELD.	eristister.	CD/IG W VALUES. Aut-mybriding vital Vector	Barum mellum of costs Pet. 136.



-ପ୍ରାଷମ ଧାନ କରେ।ଜନା ଧନା Together, India will defeat COVID-19"

Qillion diago seven reve

of the second Public (second Common A CONTRACTOR OF A CONTRACTOR O income Universities Margine No. 1075 1. 1 m real final and the

name de la construcción de la co



FromNo.31-A HEALTHRECORD

Pre-employment / Periodical [PrescribedunderRule62-1]

SL.No.

Date:

1. Name of the Factory	a M S P Mutallies Limited
2. Name of the Employee	: Artance Meable you
3. Employee Distinguishing Number	: MSPED 731
4. Age of the Employee	+ KLO-CP
Intentification Mark	: one black nets in times
Nature of the job	: MAF KHALL Symen
5. Date of Employment	121600
6. LengthofService inyears	3
7. General Survey	~
Health	: Good/Fair/Poor
Height	= 65 Cms.
Weight	: C.O Kg.
8. BloodGroup	s A.Pm
9. Eye Vision	a Normal/Abnormal
Useofglass	r YewNo
10. Hearing	a Normal/Abnormal
11. RespiratorySystemandChestMeasuremen	it i
Inspiration	2 8 Cms.
Expiration	: 82 Cms.
Respirationrate	+ L/S
Remarks, If any	= NOT
12. CardiovascularSystem	
Pulserate	TF-2 Min.
B.P.	11.0187
Heart Sound	1 Martinel
Remarks,If any	· ~ N-
13: AbdomenTenderness	z Yes/Nu
14. NervousSystem	1
HistoryofFits	: Yes/No
Epitepsy	z Yest No
RemarksonMentalHealth	: Stor
	- Part

LacometerSystem
 SkinCondition:
 RemarksonanySkinDiseaseneticed
 Hernias
 Hydrocele

20. PresentComplain.Ifany

Kurmal/Abnormal Normal/Abnormal Present Ament Present/Absent

ž

Ξ

÷

÷

Т

a a

1

4

£

Ð

13

£

21. Summaryofflaidings

HeartDisease Hypertension

Diabetes

T.B.

Epilepsy

Paisoning

Others

OccupationDisease,Hany

22. Recommendation, if any for any further Investigation

dance Monthespeer

SignatureoftheEmployee

18 - Bahre

SignatureoftheMedicalOfficer

the second size

Mobile No.# 9434006071 t. Subhas Ch. Gorai 78723326-65 RISHMUPUR Chember Time Daily 12-00 P.M. to 1-30 Prof. M.B.B.S. (Cal) 7.00 P.M. to 8 30 P.M. Speciality in Medicine & Gynae. For Booking Call -9474489113 Hamen Hastkhelgin Age AVYX Dur Alus of to conting that Alam Aukarpers. to Brokken highly not will Kankila. Boundhamongue, or Bankann Kanber eva H.P.= 100 me 02-30/5723 at 1-15 P.A. prices for examples Shered first lein Fit physically hit and mustally allot for fails in my Public pypical or newtral streams months. At store for my Intertion or Country in Weight discusor. Heart Prendet DI. Subhas Ch. Górai M.B.B.S. (Kol) 2 alid Ros 1.3mHS Adb.

P/D



Form No. 31-A <u>HEALTH RECORD</u> (Pre-employment / Periodical) | Prescribed under Rule 62-1 |

Date: 12/06/23

1. 16	mine of the Factory	: M S P Metallio	cs Limited
72 (C) TC ND	ume of the Employee	Ratorita	d- Malue
A Fr	moloscer Distinguishing Number	: MISPECOT	45
d A	ng of the Employee	HEYEY	
1.0	least firestion Mark	: one block	mad chest
10	adding of the Joh	DESIGNATI	cos manager
0 0	angre of the 200	: 13/06/23	
D: 14	and of employment	ALL.	
0. 1.	engin of service in years	- million	
7, 53	ieneral Survey :	Genel/Fair/P	oor
	leal03	14(Cms
13	feight	1.65	Ke
N N	Veight	inte	10.00
8. B	Bood Group	- L.Normal / Al	in the second second
9, B	ye Vision	A Marin Ma	ALCO TIME
1	Ise of glass	TELLING	(in the second s
10. F	learing	Notman (A)	pilition.
11. B	Respiratory System and Chest Measurement	200	100
1	nspiration	192	Cms.
Ē	Sepiration	160	Cms
Ŧ	Respirationrate	: 19-	/Min-
1	Remarks, if any	: ##=	
12. 6	Cardiovascular System		
1	Pulse Rate	1 172	Mitt.
1	B.P	: 12019~	
	Heart Sound	: monamed	2
- 0	Remarks, If any	1 1904	
E3: /	Abdomen Tenderness	: Yes No	
14. 1	Nervous System	10th	
	History of Fits	: Yes/No	
	Epilepsy	: Yes/No-	
	Remarks on Mental Health	3000	

- 15. Locomoter System
- 16. Skin Condition

17. Remarks on any Skin disease Noticed

- 18. Hearnins
- 19. Hydrocele
- 20. Present Complain, if any

Normal/Abnormal

- Normal/Abnormal
- Present Abdeni
- Present/Absent

5

9

12

3

12

÷.

5

11

£

21. Summary of Findings

Heart disease

Hyperiension

Diabetes

TB

Epilepsy

Paisming

Others

Occupational disease, if any

22. Recommendation if, any for any Further investigation

Blu

Signature of the Medical Officer Regn. No. 72012 C. Sahu

Signature of the Employce



Ministry of Health & Family Weiture Government of India

Certificate for COVID-19 Vaccination

Insued in India by Ministry of Health & Family Welfare, Govt, of India

Certificate ID : #1307212476

Beneficiary Details

Barnettonieg Name / Otemic grow	RABINANDAN MAHANTA	
April See	44	
Smoden's Time	Maie	
REMARKING & MILLS, MILLING	FAN Card # ARPPRESSIG	
Gillioni Health (BrysHep)		
Barnahimy Balance (2.10)	32442211082760	
Vecconstant Status / reference linkin	Fully Vaccinated (2 Doses)	
Veccination Details		

Veccenter By Coll Science and Anio Veccentistic AV (1995) (3-1 Science) Ankita Vankor

BHA ZANON PHC, Ubaruch, Gujarat

Bring Number Bring Number	STRATER.	Vaccore Nerve Kali g-un	Boot Number also sold	Miccone Type collecture	Manufacturer OvidES	
52 ·	100 Aug (1023)	COVENIN	STON21A	20VID-19 section, Transformed value	Prest States	
82	All Sey 2021	COVANN	EVERIDARY.	COVID-ID exercitive.	Minist Marinia	



COWIN

strength of the second

"દવા પણ, સાવધાની પણ Together, India will defeat COVID-19"

- वङ्गायमा नहेन्द्र मांही

which the state of the second state of the sec

shi na senar Gili saihir ya shi spas na sain in mira takin ba





FromNo.31-A HEALTH RECORD

Pre-employment / Perindleut

[Prescribed under Rudu62-1]

SL No.

Date:____

1. Same of the Factory	: M S P Metall	ics Limited
2. Name of the Employee	Restauro	to Makanta
3. Employee Distinguishing Number	: M21000	2-50
4. Age of the Employre	Bong	
Identification Mark	CONE BRA	ck protein filler
Nuture of the job	operate	MORTHAR.
5. Date of Employment	18/41 23	
6. Length of Service in years	1	
7. General Survey		
Bealth	1 Good/F	air/Poor
Height	4148	Cma.
Weight	1 60	Kg.
8. Blood Group	= At-e	
9. Eye Vision	Normat	Abnormal
Use of glass	: Yes/No	
10. Heuriag	; Normal	Abnormal
11. Respiratory System and Chest Measureme	ut	
Inspiration	2.97	Cmt.
Expiration	182-	Cms.
Respiration rate	11.15	/Min.
Remarks, If any	+ AHD	
12. Cardiovascular System		
Pailse rate:	e 3-9	Min.
36.25	: 110/8V	
Heart Sound	, really	
Remarks, IT any	a martine	
13: Abdomen Tenderness	5 YeaNa	
14. Nervous System	*	
History of Fits	1 Yest No	
Epilepsy	: Yes/No	
Remarks on Montal Health	: 300	

- 15. Locomoter System
- 16: Skin Condition:

17. Remarks on any Skin Disease noticed

18. Hernias

- 19. Hydrocele
- 29. Present Complain JF may

Yormal Abnormal

Normal/Almoymal

Present/Alisent Present/Alisent

E

÷

23

E

13

£1

É

È

÷

F

Б

Ł

15

21. Summary of findings Heart Discuse Hypertension Diabetes

T.B.

Epitepay

Polsoning

Others

Occupation Disease, Huny

22. Recommendation ,if any for any further Investigation

Signature of the Employee

Elin

Signature of the Medical Officer 110 Reg.No MSR Mecalities 1.16 Karakura Dietalities 1.16 Karakura Dietalities 1.16



Ministry of Health & Family Welfare Government of India

Certificate for COVID-19 Vaccination

insued in Initia by Ministry of Health & Camily Welfare, Govi, of India

Carefriane ID: 43548371147

Denshchury, Detning

Exercition y torring / Granification Age / 9430 Common / Gar Ro Weinhard / Stadi Conside Astelli Unique Heavith Ro (UHC) Exercition y Reference RD

Viccositor Sala | Calebid (0

Vaccination Details

Visconated By / Cexcerages englishers Visconation At / chaseGe gap Ratikanta Mahanta 28 Male Apilloar # XXXXXXX6577

97529468325490

Fully Vaccinated (2 Donet)

Shuntilate Mahanta

Bankia HS Rangamatla Champua, Kendujhar, Odisha

Done teasor tasses (Age	Cline of Door grouping prime.	Vaccing Name Exployed	Gath Number God orga	Uncertified Typics Disc game:	MbHutecourse Refer
10 .	26.66.2021	COVERED	*112109	COULD 4D constants. Interceptioning shall sector	Second collins of help
30	21.5ei 222	2004000000	ASSWADINA	CUMP-Reserves, executively (6.0 securi	-



ଂଭିଷଧ ମଧ୍ୟ ଏକଂ କରେ।ରତା ମଧ୍ୟ Together, India will defeat COVID-19" ୁଗାରମଙ୍କୁ ଚାରନୁ ଶାବି

The second second second second second second second from the second se second sec



ANNEXURE-XXII

EC Conditions Six Monthly Compliance <u>Report</u>

(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. <u>Compliance Letter/Report (Proponent)</u>:

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

6/1/23, 11:44 AM		C	Compliance Report		
	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.	PDF	
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.	PDF	

		e	bomphanee Report		
	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.	ebe	
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	

AM			C	Compliance Report		
		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	ebr	

		(compliance Report		
			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.	ф ^о РЪР	
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	ф РЪF	
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.	PDF	
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	

M			Compliance Report			
	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		

Л		Ĺ	Jompliance Report		
	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.	100e	
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



SP METALLICS LIMITE

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 Ernail: contactus@mspsteel.com, Web: www.mspsteel.com

September 14, 2009

2/0

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.- xill 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. 2) The State Pollution Control Board, Orissa, Dis A/118, Nilakantha Nagar, Unit – VIII, Jh Bhubaneswar – 7510112. ----- for your kind Information & record please.

 The Hon'ble Collector, District: Jharsugda Jharsugda, Orissa.

Regd. Office: 1,Crooked Lane, Kolkata-700 069, Ph: 91-033-3022 2795 / 4795, Fax : 91-033-2248 1720 Works: VIII. & P.O. : Marakuta, Dist. : Jharsugda, Pin - 768202, Ortssa, Ph : (06645) 227354, Fax : (06645) 227394

BOND OF TRUST



ମେସସ୍ ଏମ୍.ଏସ୍.ପି. ମେଟାଲିକ୍ସ ଲିମିଟେତ୍ ଗ୍ରା/ପୋଁ-ମାରାକୁଟା, ଜିଲ୍ଲା-ଝାରସୁଗୁଡ଼ା, ଓଡ଼ିଶା ସାଧାରଣ ବିଜ୍ଞପ୍ନି

ଏତଦ୍ୱାରୀ ସର୍ବସାଧାରଣରେ ଜଣାଇ ଦିଆଯାଉଛି ଯେ, ମେସର୍ସ ଏମ୍.ଏସ୍.ପି. ମେଟାଲିକ୍ସ ଲିମିଟେଡ୍, ଗ୍ରାମ-ମାରାକୁଟା, ଜିଲ୍ଲା-ଝାରସ୍ମଗୁଡ଼ା ଠାରେ ଅବସ୍ଥିତ ସମନ୍ତି ଜଞ୍ଚାତ ସଳନ୍ତର ସଂପ୍ରସାରଣ ଓ ଉତ୍ପାବନ ବୃଦ୍ଧି ଉପଲକ୍ଷେ କେନ୍ଦ୍ରସରକାରଙ୍କର କଙ୍ଗଲ ଓ ପରିଦେଶ ମନ୍ତ୍ରଣାଳୟ, ନୂଆବିଲ୍ଲୀଙ୍କ ଠାରୁ ପରିବେଶାୟ ଅନୁମୋଦନ (J-11011/ 494/2007-IAII(I), D.13.07.2009) ପ୍ରାସ କରିଛି । ଏହି ଅନୁମୋଦନଟି ବାର୍ଷିକ ୧୦,୫୦,୦୦୦ଟନ୍ ସଞ୍ଜ ଆଇରନ୍, ୧୦,୬୦,୦୦୦ଟନ୍ ପିଗ୍ ଆଇରନ୍, ୬,୦୦,୦୦୦ଟନ୍ ପେଲେଟ୍, ୪,୬୦,୦୦୦ଟନ୍ ସିଞ୍ଚର, ୧୦,୫୦,୦୦୦ଟନ୍ ଇସାତ, ୮ ୫ ମେଶାୱାଟ୍ ନିକସ୍ପ ଉତ୍ପାବିତ ବିଦ୍ୟୁତ୍, ୧୫,୦୦,୦୦୦ଟନ୍ ପରିସ୍ସୃତ କୋଇଲା ଏବଂ ୬,୦୦,୦୦୦ଟନ୍ କୋକ୍ ଓଭେନ୍ ଉତ୍ପାଦନ ନିମନ୍ତେ ପ୍ରଦାନ କରାଯାଇଛି । ଏହି ଅନୁମୋଦନର ଏକ ପ୍ରତିଲିପି ରାଜ୍ୟ ପରିବେଶ ପୁନୁଷଣ ନିୟନ୍ତ୍ରଣ ପରିଷଦ, ଭୁବନେଶ୍ୱରଙ୍କ ନିକଟରେ ଉପଲସ୍ଧ ହେବା ସହିତ କେନ୍ଦ୍ରସରକାରଙ୍କ ଜଙ୍ଗଲ ଓ ପରିବେଶ ମନ୍ତ୍ରଣାଳୟ, ନୂଆବିଲ୍ଲା ଓ୍ୱେବ୍ସାଇଟ୍ http://envfor.nic.in ରେ ମଧ୍ୟ ଉପଲସ୍ଧ ହେଉଅଛି ।

 ^{2}e

ନିର୍ଦ୍ଦେଶକ ମେସର୍ସ ଏମ୍.ଏସ୍.ପି. ମେଟାଲିକ୍**ସ ଲିମିଟେ**କ୍

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 MVV 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.

1451h Year () Published From Suchall poneire

ANNEXURE-XXIV



SP 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



Regd. Office: 1,Crooked Lane, Kolkata-700 069, Ph: 91-033-3022 2795 / 4795, Fax: 91-033-2248 1720 Works: Vill.: Haldiaguna, P.O.: Gobardhan, Dist.: Keonjhar, Orissa, Pin - 758013, Ph.: (06766) 235534, 256513



Web.

FAX : 2562922/2560955 Tel. : 2564033/2563924 EPABX : 2561903/2562947 E-mail : Paribesh@sencharnet.in website : www.ospoboard.org

STATE POLLUTION CONTROL BOARD, ORISSA

[DEPARTMENT OF FOREST & ENVIRONMENT, GOVERNMENT OF ORISSA] Paribesh Bhawan, A/118, Nilakenthanagar, Unit - VIII, Bhubaneswar - 751 012, INDIA

150		/ IND-II-NOC-4732	Dure	/
	To			
		The Collector & District Magistr The General Manager, D.I.C. Jh The Regional Officer, SPC Board	ate, Jharsuguda Iarsuguda, d, Sambalpur	
	Sub :	Display of copy of Environment reference of public.	al Clearance for 30 days for	
	Raf : -	 Letter of Ministry of Environme dt. 13-07-2009 regarding Envi to M/s. MSP Metallics Ltd., fi Steel Plant located at Mar lbacsuouda (conv.enclosed) 	nt & Forest, Govt. of India, ronment Clearance granted or expansion of Integrated akuta in the district of	
	Sir	the segues (of) chrosent.		

In inviting a reference to the above, I am directed to intimate that as per the condition stipulated in Environmental Clearance granted 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- Ji

2753

Memo No. <u>13377</u> /dtd. 20 % 0 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.

Enci : 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 Metaliks 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.

End : As above

Environmental Engineer - II

1/2//

VIII. & P.O. - Marakuta, Dist.: Jharsuguda, Pin-768202, Odisha Ph.: 8093089903, Email : sc. ompl@orissametaliks.com, edoffice@mspstcelpg.com CIN No. U22109VB2006PTC111146

ORISSA METALIKS PRIVATE LIMITED

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 Metalliks Private Limited

Dear Sir,

OMPL

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 4[®] 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 - Merakuta, District - Jharsuguda, Odisha' has been transferred to M/s Orissa Metalliks 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)

2017/10/23

Authorised Signatory

Encl: As above



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

REGISTERED ADDRESS: 1. Garstin Place, orbit House, 3rd Floor, Room No. 38, Kolkata - 700 001, India CORPORATE ADDRESS: Premiata Building, 35, Shakespeare Sarani, 6th Floor, Foom No. 3 & 4, Kolkata - 700 017. Vill & P.O., Marakata, Dist. Barragetta, Pin-768202, Golsha PK. 8093099933, Email. sc. omphilocissametalike.com, edoffice@mopsteeljsg.com CIN No. U27109W8200697C111146

ORISSA METALIKS PRIVATE LIMITE

OMPL/JSG/EC_TRANSFER/2023-24/7-G/056 27th October 2023

107

OMPL)

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 WW); Coal Washery (15,00,000 TPA) and Coke oven Battery (6,00,000 TPA) at Volage - Marakuta District - Jharsuguda, Odisha" from M/s MSP Metallics Ulmited to M/s Orissa Metalliks Private Limited

Dear SinWattath

With reference to the above manifolded subject we would like to intimate your good office that the Environment Clearance accorded to Mix MSP Metallics Limited vide letter no. J-110111454(2007-IA-IIII) dates 13/07/2009 & configuration change considered in 4th REAC meeting herd by 27th October 2009 for "Expansion of integrated steel plant (Sponge from (10.55.000 TPA). Pig from (10.60.000 TPA). Pellet Plant (6.00.000 TPA). Steel Mailing Shop (10.55.000 TPA). Captive Rower Plant (85.MW). Coal Washery (15.00.000 TPA) and Coke over Battery (6.00.000 TPA) is Village - Marakuta District - Jharsuguda, Odisha' has been transforred to Mis Orissa Metalike Private Limited by Ministry of Environment. Forest and Climate Change. Covernment of India vide EC Intentification No. EC23A10010R5654822T & File No. J-11011/464/2007 (A.IIII) dates 23/10/2023 (Ammexure)).

Copy of Environment Clearance transfer letter is attached herewith for your kind information & record

Themiolog your

Yours faithfully For Onssa Metaliks Private Limited (Formerly MSP Metallics Limited)

uc 27/10/23

Authorised Signatory

Encl: As above SECTION OCT 2023 DISTRU

 REGISTERED ADDRESS: 1. Garetin PARTY orbit House: 210 Floor Primit No. 38: Rulliana. 200 DOL India D CORPORATE ADDRESS: Primital a hullong. Physical address Surger, 64: Youry, Boom No. 3 & 4. Kolkara - 700 D17

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

100

(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.			As per NIC Code 2008		
No	Products	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	-		2	
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

Sl. No	Name of the Unit	Products	Date of Commercial Production	
1	DRI Kilns	Sponge Iron	04/09/2022- 8 th Kiln 12/09/2022- 7 th Kiln 01/10/2022- 5 th Kiln 10/10/2022- 6 th Kiln 03/12/2022- 2 nd Kiln 26/12/2022- 3 rd Kiln 27/11/2022- 4 th Kiln 27/01/2023- 1 st 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	

(iv) Year of Establishment after taken over of the Plant through NCLT Process by the Present Management :

* 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 m3/day.

SI. No	Requirement Purpose	Water consumed m3/ day
i	Process	27
ii	Cooling	429.00
iii	Domestic	5.00
	Total	461.00

	Process water consumption per unit of product output		
Name of the Products	During the previous Financial year (2021-2022)	During the current Financial year (2022-2023	
	(1)	(2)	
Sponge Iron	NII	Nil	
Electric Power	Plant was completely Shut down	2.5m3/MWh	

Page: 3

Steel Billets	Nil
Iron Ore Pellet	NiI
Iron Ore Sinter	Nil
Producer Gas Plant	Nil

ii) Raw Material Consumption:

		Consumption of raw material per unit of output		
Name of raw Materials	Name of products	During the previous Financial year (2021-2022)	During the current Financial year (2022-2023)	
Iron Ore Pellet or Sized Iron Ore	Shanga Iran	Plant was under Shut Down	Iron Ore Pellet or Sized Iron Ore : 1.536t/t	
Raw Coal	Sponge non		1.026t/t	
Dolomite			0.058t/t	
Coal		Plant was under Shut Down	0.346 t/MW	
Char Coal	16 MW AFBC Power		1.118 t/MW	
Sponge Iron	ponge Iron		0.781t/t	
Pig Iron	C. IDW	Plant was under Shut Down	0.083 t/t	
Scrap	- Steel Billets		0.323 t/t	
Ferro Alloys			0.001 t/t	
Iron Ore			1.151 t/t	
PCI Coal			0.022 t/t	
Mill Scale		Plant was under Shut	0.007 t/t	
Lime Stone	Iron Ore Pellet	Down	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 variation prescribed standards	of from with
L				Page: 4

			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
4	Used Oil	1	5.1	5.00 KL
2	Waste Containing Oil	1	5.2	1.00 T
3	Flue gas Cleaning Residue	I	34.1	30.00 Kg
4	Spent Resin	I	35,2	1.7

Quantities Generated:

	Source From	Total Quantity Produced	(in Kg./KL)
SI. No	(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	2.574 KL
2	Waste Containing Oil		521.5 Kg
3	Flue gas Cleaning Residue		Nil
4	Spent Resin	Used Oil : 20,000 KL Spent Resin : 0.02 KL	Nil
	(2) From Pollution Control facilities	The Plant was under shut down and was under previous management.	Nil

PART – E

Solid Wastes

			Total Quantity	in Metric Ton
		Type of Solid Waste	During the previous Financial Year (2021-2022)	During the Current Financial Year (2022-2023)
36	From Process	Slag from Induction Furnace		25 TPD
a)		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	The Plant was under shut down and was under previous	150 TPD
c)-2	Sold	-	management.	Nil
	Disposed	Fly Ash and Bottom Ash of CPP		140 TPD
c)-3		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.
- O1 (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 NM³ per Hr attached at Flux area of Sinter Plant.
- > 01 (One) Bag Filter of Capacity 1,10,000 NM³ per Hr attached at Sinter Discharge End.
- O1 (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

- Installation of telescopic chutes at all the silos to control the fugitive emission during discharging of the materials has been completed.
- Installation of Dry Fog System at ground hoppers to control fugitive emission during charging of the raw materials has been completed.
- 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.
- 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.



Signature of the Owner/Occupier of the Industry (With seal)

Date: 30/09/2023

ANNEXURE-XXVI



Tel : 2564033/2563924 EPBX : 2561909/2562847 Email :<u>paribesh1@ospcboard.org</u> 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.

MEMBER SECRETARY

То

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

- Regional Officer, State Pollution Control Board, Jharsuguda
- ii) District Collector , Jharsuguda
- Director of Mines, Odisha, Bhubaneswar
- iv) Director Factories & Boiler, Bhubaneswar
- v) DFO, Jharsuguda
- vi) Consent Register

CHIEF ENV. ENGINEER



OSPCB-CTO-IND-0054-2023/1/2023

Onte-