

Submission of half yearly (June 1st 2024) EC Compliance Status Report for the period of October 2023 to March 2024- 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>

Mon, May 27, 2024 at 3:39 PM

To: "roez.bsr-mef@nic.in" <roez.bsr-mef@nic.in>, "zokolkatta.cpcb@nic.in" <zokolkatta.cpcb@nic.in>, Monitoring Cell <monitoring-ec@nic.in>, paribesh1@ospcbboard.org, rospcb.jharsuguda@ospcbboard.org

Cc: edoffice@msspsteeljsg.com, ehs@msspsteeljsg.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 October 2023 to March 2024 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 October 2023 to March 2024 have also been uploaded on parivesh portal having Compliance ID 71237030 (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 Metaliks Limited)


Authorised Signatory

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

Tel : 91 33-22894255/ 56

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Mbl. No-07044070948

 EC Complince_OMPL(MSP_June-2024.pdf)
17615K

Ref.: OMPL(MSP)/HYC_JUN24/2024-25/01

Date: 27.05.2024

To,

The Dy. Director General of Forest (Central),

Ministry of Environment, Forests and Climate Change, Govt. of India,

Regional Office,

A/3 Chandrashekharapur, 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 (June 1st 2024) EC Compliance Status Report for the period of October 2023 to March 2024.**

Ref.: 1. Environmental Clearance accorded vide 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 Metaliks Limited to M/s Orissa Metaliks Private Limited vides file No: J-11011/494/2007-IA.II (I) dated 23.10.2023 (EC Identification No. EC23A1001OR5864822T).

Dear Sir,

With reference to the above, we are submitting herewith the half yearly report on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data for the period of October 2023 to March 2024 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.

Here, we would like to inform that the last six monthly compliance report for the period April, 2023-September 2023 was submitted to concerned department vide mail & letter no-OMPL(MSP)/IRO-MoEF&CC/2023-24/01, dated 01.12.2023.on parivesh portal vide Compliance ID: 26106346 dated 01.12.2023

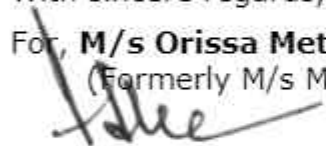
Hope you will find the same in order.

Thanking you,

With sincere regards,

For, **M/s Orissa Metaliks Private Limited**

(Formerly M/s MSP Metaliks Limited)


(J. P. Sharma)**Executive Director (Works)**Encl.: Six Monthly (June 1st 2024) Compliance status report along with annexures

CC: 1. **The Central Pollution Control Board**, Zonal Office, Southern Conclave, Block -502, 5th & 6th Floors, 1582 Rajdanga Main Road, Kolkata- 700107
2. The Member Secretary, State Pollution Control Board, Odisha, A/118, Nilakantha Nagar, Unit - VIII, Bhubaneswar - 751012

Your (Environment Clearance) application has been Submitted with following details

Proposal No	IA/OR/IND/24581/2009
Compliance ID	71237030
Compliance Number(For Tracking)	EC/M/COMPLIANCE/71237030/2024
Reporting Year	2024
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	27-05-2024
IRO Name	ARTATRANA MISHRA
IRO Email	jhk109@ifs.nic.in
State	ODISHA
IRO Office Address	Integrated Regional Offices, Bhubaneswar

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

HALF YEARLY COMPLIANCE REPORT OF THE CONDITIONS STIPULATED IN ENVIRONMENTAL CLEARANCE

- Project Proponent** : M/s Orissa Metaliks Private Limited
(Formerly M/s MSP Metaliks Limited)
- Name of the project** : Expansion of integrated steel plant, Sponge Iron (10,50,000 TPA); Pig Iron (10,60,000 TPA); Pellet Plant (6,00,000, TPA); Steel Melting Shop (10,50,000 TPA); Captive Power Plant (85 MW); Coal Washery (15,00,000 TPA) and Coke Oven Battery (6,00,000 TPA) at Village Marakuta, District - Jharsuguda, Orissa
- Location of the project** : Village - Marakuta, District - Jharsuguda, Odisha
- Environmental Clearance details** : 1. Environmental Clearance accorded vide F. No. J-11011/494/2007-IA-II (I) dated 13th July 2009.
2. Recommendation of the 4th Reconstituted Expert Appraisal Committee (Industry-1) MoEF&CC, New Delhi in its meeting held on 26th & 27th October 2009 for change in plant configuration and capacity.
3. Transfer of Environment Clearance 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 Metaliks Limited to M/s Orissa Metaliks Private Limited vide File No: J-11011/494/2007-IA.II(I) dated 23.10.2023 (EC Identification No. EC23A1001OR5864822T).
- Period of compliance** : October 2023 to March 2024

S. No.	Specific Conditions	Compliance Status
i)	Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted. On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks and sufficient air pollution control devices shall be provided to keep the emission levels below 100 mg/Nm ³ . At no time, the emission level shall go beyond the prescribed standards.	Agreed and being complied. To reduce RSPM levels in the ambient air the following steps taken: a) 120 numbers of fixed rotary type water sprinklers have been installed. b) In addition, water sprinkling on internal roads and village roads in immediate vicinity are also carried out manually and with the help of 01 Numbers of Water Tanker having capacity of 5.0 KL and another Water

	<p>Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.</p>	<p>Tanker of capacity 12 KL.</p> <ul style="list-style-type: none"> c) Dry Fog system provided at the Coal handling area as standby measures. d) All the main internal roads used for movement of Vehicles have been concreted and most of the branch roads are also concreted that used for pedestrian. e) Speed of the vehicles is regulated (20 km/hr) to control the fugitive dust emission from the roads. f) Fixed type Water Sprinklers at appropriate locations are provided. g) Four numbers of Rain guns are installed. h) 01 no. Mechanical road sweeping machine is in use. i) Adequate quantity of mechanized machine for cleaning of plant area & internal drain like bobcats, motorized grader, mini floor cleaning/ scrubber machine, mini excavators & mini clamshell are used. j) The raw materials are transported in covered dumpers or covered with tarpaulin. Overloading of truck strictly prohibited to control spillage and fugitive emission. k) Tyre washing facility (mechanized wheel washing facility) at the entrance of the plant gate has been provided. l) Transfer of material through covered pneumatic conveyor belt. m) Dedicate manpower / staff for
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		<p>maintaining effective housekeeping and cleaning.</p> <p>n) Installation of land use based APCD (Bag filters, ID Fan, pneumatic APC dust handling system and stack of adequate height) at potential secondary emission sources like-transfer points, intermediate storage, silo and crushing/ grinding operations.</p> <p>o) Green belt is being developed inside & outside the plant boundary CPCB guideline. An area of 33% has already been covered under greenbelt with total 66,230 nos. of tree saplings till March 2024 @ 1,933 trees per hectare.</p> <p>Continuous stack emission monitoring facilities for PM & Gases as per CPCB guidelines for all the stacks of operating units i.e. Sponge Iron Plant (DRI Plant), Captive power plant, Mini Blast furnace, Sinter Plant, Pellet Plant and Steel Melting Shop have been installed. Connectivity of Continuous stack emission monitoring system with Odisha State Pollution Control Board and CPCB server has been done. CEMS data is enclosed as Annexure-I.</p> <p>Four (04) numbers of Ambient Air Quality (AAQ) Monitoring stations installed and commissioned (Screenshot attached as Annexure-II).</p> <p>Ambient air quality (Annexure-III) and stack emission monitoring (Annexure-IV) is being carried out by NABL/SPCB, Odisha accredited laboratory Environmental Research and Services</p>
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(India) Pvt. Ltd.

Interlocking facility has been provided.



Fixed rotary type water sprinklers



Mechanized wheel washing system



Dry fog system



Rain guns






Online Continuous Emission Monitoring System (CEMS)



IP Camera



Digital display at main gate

		 <p style="text-align: center;">CAAQMS Station</p>
ii)	<p>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.</p>	<p>Agreed and being complied.</p> <ul style="list-style-type: none"> • In each of DRI Kiln (8 X 100 TPD), 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 8 MW 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. <p>Flue gas emission analysis report carried out by NABL accredited laboratory Environmental Research and Services (India) Pvt. Ltd. for the period of October 2023 to March 2024 is enclosed as Annexure-IV.</p> <p>As per the report the values are within the permissible limit.</p>
iii)	<p>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</p>	<p>Complied.</p> <p>Gas cleaning plant comprising of bag filters and cyclones has been provided to blast furnace (BF).</p> <p>Fume extraction system with bag filters has been provided to induction furnace and no ladle refining furnace has been</p>

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.

installed.

Dust extraction system along with ESP and multi-cyclones has been provided to pellet plant.

Multi-cyclone and bag filters has been provided to sinter plant.

Fume extraction system followed by a stack has been provided to continuous casting machine.

Bag filters and dust suppression system has been provided at coal crushing and handling areas.



ESP DRI Kiln 1&2



ESP DRI Kiln 3&4



ESP DRI Kiln 5&6



ESP DRI Kiln 7&8



ESP of AFBC



ESP of pellet plant



GCP of MBF



Multi cyclone sinter plant



Stock House Bag filter



Coal Crusher Bag filter



Iron Crusher Bag filter




CD Bag filter







Coke oven Bag filter







SMS Bag filter


		 <p data-bbox="831 539 1118 573">Bag filter flux area</p> <p data-bbox="1219 539 1433 573">CHP Bag filter</p>
iv)	<p data-bbox="280 689 791 1910">In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive dust emission from raw material and product handling section shall be controlled by dust extraction systems with bag filters or by water sprinkling. Dust extraction system with bag filters shall be provided at all the material transfer points. Dust suppression system with water sprinklers shall be provided at raw material stockpiles and loading/ unloading points. Fume extraction system 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.</p>	<p data-bbox="1002 577 1265 611">Being Complied</p> <p data-bbox="815 651 1455 864">Bag filters are provided at the transfer points to control fugitive emissions and dust suppression system is provided to control dust from raw material handling and storage area.</p> <p data-bbox="815 904 1455 1162">02 nos. Water spraying tankers, 02 nos. (Fixed + movable) water mist canons are continuously in use to control the fugitive emission during screening, loading, unloading, handling and storage of raw materials etc.</p> <p data-bbox="815 1202 1455 1285">Bag filters are provided at the transfer points to control fugitive emissions.</p> <p data-bbox="815 1326 1455 1494">Dust suppression system with water sprinklers, dry fog system and rain guns have been provided at raw material stockpiles and loading/ unloading points.</p> <p data-bbox="815 1534 1455 1617">Fume extraction system followed by a stack has been provided to CCM.</p> <p data-bbox="815 1657 1455 1825">De-dusting system has been provided at cooler discharge, product separation unit, induction furnace and hot metal transfer section.</p> <p data-bbox="815 1865 1455 1993">Water sprinkling system and dust extraction system has been provided at raw material sizing and handling areas.</p>

		<p>Covered conveyor belts with GI sheets have been provided.</p> <p>Bag filters and dust suppression system (dry fog system) have been provided at coal crushing and handling areas.</p> <p>GCP system has been provided with Blast furnace.</p> <p>Regular monitoring of fugitive emissions is carried out by NABL accredited laboratory (Copy of fugitive emission report for the period of October 2023 to March 2024 enclosed as Annexure-V).</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Telescopic Chute</p> </div> <div style="text-align: center;">  <p>Dry fog system</p> </div> </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Covered conveyor belts</p> </div> <div style="text-align: center;">  </div> </div>
v)	<p>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.</p>	<p style="text-align: center;">Agreed and noted.</p> <ul style="list-style-type: none"> • 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 once the coke oven plant comes in operation.

vi)	<p>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.</p>	<p>Being complied.</p> <ul style="list-style-type: none"> • 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. <p>Flue gas emission analysis report for the period of October 2023 to March 2024 carried out by NABL accredited laboratory Environmental Research and Services (India) Pvt. Ltd is already enclosed as Annexure-IV.</p>
vii)	<p>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.</p>	<p>Being complied</p> <p>All the vehicles inside the plant premises having valid PUC. Following measures adopted to control the dust emission during vehicular movement, loading and unloading of the raw material and finished product:</p> <ol style="list-style-type: none"> a) At various places display boards have also been provided as indicative of speed regulation inside the plant. b) 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. c) Fixed type Water Sprinklers along the internal road at appropriate locations are provided. d) 01 no. Mechanical road sweeping

		<p>machine is in use to arrest the dust.</p> <p>e) The raw materials are transported in covered dumpers or covered with tarpaulin. Overloading of truck strictly prohibited to control spillage and fugitive emission.</p> <p>f) Tyre washing facility (mechanized wheel washing facility) at the entrance of the plant gate has been provided.</p> <p>g) Water sprinkling facility and rain guns has been provided to control the emission during loading and unloading.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Concrete internal road</p> </div> <div style="text-align: center;">  <p>Mechanical road sweeping</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;">  <p>Concrete working area</p> </div> <div style="text-align: center;">  <p>Valid PUC of vehicle</p> </div> </div>
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	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.


	<p>(51)/SER/CGWA/07-262 dated 7th May, 2007. Closed-circuit re-circulation system shall be installed to reduce fresh water consumption and no wastewater generation. Water from ash dyke shall be decanted and collected in the reservoir and re-circulated/reused for ash handling and coal dust suppression in coal yard. Acidic and alkaline effluent from DM water plant shall be neutralized and reused in the plant. Cooling tower blow down shall be reused for dust suppression. BF-GCP and coal washery water shall be treated in thickener and reused in the process. Oil and grease shall be removed from wastewater by means of oil traps and skimming devices. All the wastewater from process and domestic sources shall be treated and recycled and reused in the process or for dust suppression, green belt development and various other activities at the 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.</p>	<p>After revalidating Ground water permission from CGWA vide Order no. CGWA/NOC/IND/ORIG/2022/1487, dated 07/02/2022, presently 490 m³/Day water is used for domestic and industrial uses.</p> <p>Closed-circuit system has been provided in DRI, CPP, Pellet plant, Sinter Plant, Blast Furnace and SMS plant and no wastewater/effluent is being discharged into any main course.</p> <p>No ash dyke has been provided. All the fly ash generated from the FBC boiler is being used for brick manufacturing inside the plant.</p> <p>A neutralization tank of adequate capacity has been provided for neutralization of Acidic and alkaline effluent from DM water and the treated water is being used for sprinkling on road and raw material handling area.</p> <p>Provision for treatment of coal washery water in thickener has been provided. Oil traps/skimming devices have been provided in effluent treatment plant.</p> <p>Provision has been provided for treatment of waste water and re-use 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.</p> <p>No wastewater is discharged outside the Premises and zero effluent discharge is ensured.</p> <p>Septic tanks at different location within the plant premises followed by soak pits have been provided. STP of capacity 50</p>
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		<p>KLD has been installed.</p>  <p>STP of capacity 50 KLD</p>
ix)	Prior permission for the drawl of 10,271 m ³ /day water from IB River from the concerned department shall be obtained.	<p>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 m³/Day. Application for renewal of permission has been submitted to department of water resources and is in progress.</p>
x)	The water consumption should not exceed 16 m ³ /Ton of Steel as per prescribed standard.	<p>Is being complied with.</p> <p>Water consumption per ton of finished product (Billet) is 1.2 m³.</p>
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.	<p>Is being complied with.</p> <p>Regular monitoring of groundwater is being carried out through NABL/SPCB, Odisha accredited agency Environmental Research and services (India) Pvt. Ltd. and reports are being submitted to the Ministry's Regional Office at Bhubaneswar, CPCB and SPCB, Odisha with six monthly EC compliance report.</p> <p>Copy of ground water analysis report for the period of October 2023 to March 2024 is enclosed as Annexure-VI.</p>
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.	<p>Being complied</p> <ul style="list-style-type: none"> ➤ We have installed a Sinter Plant of Capacity 4.6 LTPA and it is operational. ➤ DRI & iron ore fines, coke breeze, sinter dust, GCP dust, SMS dust is

	<p>Sludge from sewage treatment plant (STP) shall be used as compost. Oily waste shall be provided to Authorized Cyclers/Re-processors.</p>	<p>used in sinter plant.</p> <ul style="list-style-type: none"> ➤ All other solid waste like SMS slag is being used for Road construction/Land leveling, MBF slag is used for cement manufacturing, Dolo-char generated from DRI plant is used in AFBC Boiler. ➤ Broken refractory is blended with ash and used for brick manufacturing. ➤ Sludge from sewage treatment plant (STP) is being used as compost for development of greenbelt. ➤ Oily waste is provided to authorized recycler. ➤ Oily waste shall be provided to Authorized Cyclers/Re-processors of SPCB.
xiii)	<p>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.</p>	<p>Being complied</p> <ul style="list-style-type: none"> ➤ AFBC plant of capacity of 16 MW has already been installed and 100% Dolochar generated from 8 x 100 TPD DRI Kiln is being used in AFBC boiler. ➤ Blast Furnace Slag is being granulated and provided to cement manufacturers for further utilization. ➤ Dust from ESP, bag filter, wet scrapper is being utilized in sinter plant and kiln accretions are being properly utilized for road construction/land levelling. ➤ SMS slag is being used for Road construction/Land levelling purpose.
xiv)	<p>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</p>	<ul style="list-style-type: none"> ➤ 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. <p>Copy of the Toxic Chemical Leachability</p>

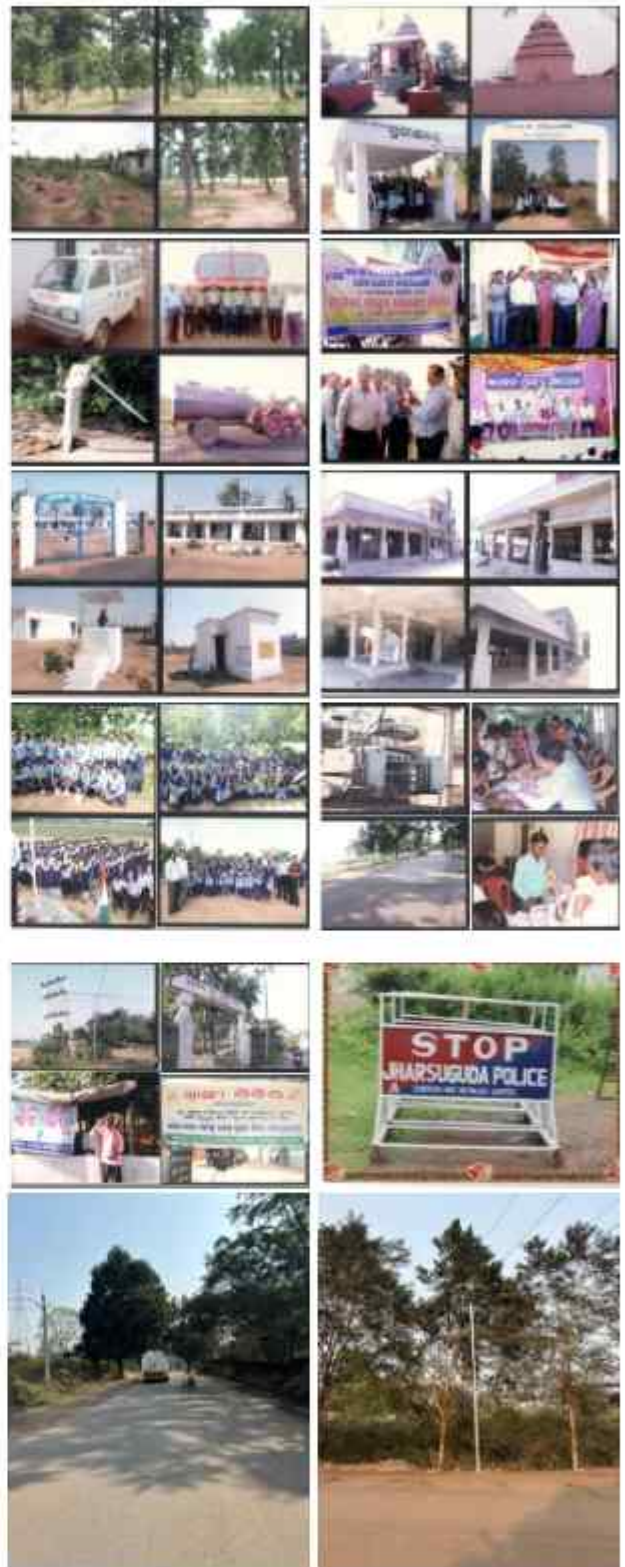
	guidelines.	Potential (TCLP) test carried out by NABL accredited laboratory "Centre for Envotech Management Consultancy Pvt. Ltd." is enclosed as Annexure-VII .
xv)	Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic metal content 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.	<p>Proper handling, storage, utilization and disposal of all the solid waste are being ensured and report regarding toxic metal content in the waste material carried out by NABL accredited laboratory is being submitted to the Ministry's Regional Office at Bhubaneswar, CPCB and SPCB, Odisha with six monthly compliance report.</p> <p>Copy of the Toxic Chemical Leachability Potential (TCLP) test carried out by NABL accredited laboratory "Centre for Envotech Management Consultancy Pvt. Ltd." is already enclosed as Annexure-VII.</p> <ul style="list-style-type: none"> ➤ 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. ➤ Hazardous waste like spent oil/used oil sold to authorised vendor; waste residue containing oil to be provided to Authorized Cyclers/Re-processors of SPCB.
xvi)	A time bound action plan shall be submitted to reduce solid Waste, its proper utilization and disposal.	<p>Management of the company 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.</p> <p>However still we are exploring further possibilities of reduction of Final Solid Waste generation to the Maximum extent possible by process</p>

		<p>optimization improving raw materials fuel etc.</p> <ul style="list-style-type: none"> ➤ 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 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)	<p>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.</p>	<p>Utilization of fly ash is being ensured as per Fly Ash Notification, 1999 and subsequent amendments.</p> <p>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. Intimation of same submitted to Ministry's Regional Office at Bhubaneswar with Six Monthly EC compliance Dec-2023.</p>
xviii)	<p>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.</p>	<p>Environmental Clearance dated 13th July 2009 was accorded for land measuring 500 acres, but as on date only 256.54 Acres (103.82 Hectares) land is acquired by the company and project boundary is developed for said parcel of land.</p> <p>An area of 84.66 Acres (34.26 Ha) 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 strengthened and to minimize the impact on human and sensitive manmade structure, tree density of the existing greenbelt is being increased as per CPCB guideline. 15,000 nos. of</p>

		<p>sapling have been planted in FY 2023-24 till March 2024.</p> <p>Total 66,230 nos. of tree has been planted on land measuring 34.26 Ha till March 2024 @ 1933 trees per hectare.</p> <p>Details of Greenbelt are annexed as Annexure-VIII. Few photographs are given below.</p> 
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-IX .
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.	<p>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.</p> <p>New management of the company has</p>

		<p>resumed operation in October, 2022 after obtaining CTO in August 2022 after 6 years of long shut down of the plant.</p> <p>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.</p> <p>CSR activities have been carried by old management in compliance to commitments made under heads education, health, drinking water, electrical installation, road development & plantation. Total expenditure made under the head of CSR/CER is ₹ 93,33,770/- (Rupees Ninety Three Lakhs Thirty Three Thousands Seven Hundred Seventy Only). An amount of ₹ 5,00,000/- (Rupees Five Lakhs Only) expenditure has been incurred in the FY 2023-24 under CER/CSR by the new management of the company i.e. M/s Orissa Metaliks Private Limited.</p> <p>The activities/ area under which the fund earmarked will be spent are as follows:</p> <ol style="list-style-type: none"> a) Community development programmes; b) Development of health care facility in surrounding villages; c) Educational programmes, d) Drinking water facilities e) Development of road <p>Photograph of CSR carried in compliance to commitments made to the public</p>
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during the Public Hearing/Public Consultation meeting held on 7th November 2008 are.






xxi) The company shall provide housing for construction labour within the site with all necessary

Complied.

	infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	
	General Conditions	Status of Compliances
i)	The project authorities must strictly adhere to the stipulations made by the Orissa Pollution Control Board (OPCB) and the State Government.	Agreed and being complied.
ii)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	<p style="text-align: center;">Agreed and being complied.</p> <p>Prior approval of the Ministry will be obtained in case of any deviation/modification or expansion in the plant is envisaged in future.</p> <p>In compliance to this condition, we have obtained:</p> <ol style="list-style-type: none"> 1. TOR for expansion of Integrated Steel Plant vide letter No. IA-J-11011/494/2007-IA-II (I) dated 28.09.2022. 2. Amendment in subject and implementation status of standard TOR obtained vide F. No. IA-J-11011/494/2007-IA-II (I) dated 29th August, 2023. 3. Transfer of environment clearance from M/s MSP Metaliks 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. 4. Transfer of TOR from M/s MSP Metaliks 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. The same is already submitted to Ministry's Regional Office at Bhubaneswar with Six Monthly EC compliance Dec-2023.
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.	Agreed and being complied. The emission rate in gram per sec for operation units are blast furnace 0.56 g/sec, Sinter Plant 1.87 g/sec, DRI plant 0.39 g/sec, Pellet Plant 4.27 g/sec, Induction furnace of SMS 0.24 g/sec and AFBC 1.13 g/sec.
iv)	At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO ₂ and NO _x are anticipated in consultation with the OPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and OPCB, CPCB once in six months.	Agreed and being complied. Already covered in point no. 1 of the Specific condition. Data on ambient air quality and stack emission are regularly being submitted to the Regional Office, MOEF&CC at Bhubaneswar and SPCB, Odisha, CPCB with six monthly compliance reports.
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 asphaltting or concreting of the roads shall be done to control fugitive emissions.	Is being complied with. 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)	Is being complied with. The plant is designed as per Zero Liquid Discharge concept. No waste water is

	<p>dated 19th May 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.</p>	<p>discharged outside plant premises. ETP with oil trap & STP of 50 KLD for treatment of the waste water have been installed. The treated water is recycled and reused for dust suppression and green belt development.</p>  <p>Wastewater analysis report carried out by NABL accredited laboratory "Environmental Research and Services (India) Pvt. Ltd." for the period of October 2023 to March 2024 is enclosed Annexure-X.</p>
vii)	<p>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).</p>	<p>Agreed and being complied. We have taken the following measures at most noise generating areas;</p> <ul style="list-style-type: none"> • 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. • Positioning noise sources further away from workers.  <p>Photograph of the enclosure</p>

		Noise Level Measurement report carried out by NABL accredited laboratory "Environmental Research and Services (India) Pvt. Ltd." for the period of October 2023 to March 2024 is enclosed as Annexure-XI.
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 Occupational health surveillance report is enclosed as Annexure-XII.
ix)	The company shall develop rainwater-harvesting structures to harvest the rainwater for utilization in the lean season besides recharging the ground water table.	01 number of Rainwater harvesting systems with settling pond has been implemented to harvest rainwater and is utilized for sprinkling, plantation.  Photographs of the rainwater harvesting pond and water reservoir
x)	The project proponent shall also comply with all the environmental protection 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	Agreed and being complied. All the environmental protection measures and safeguards as recommended in the EIA/EMP report for consideration the EC as well as socio-economic development activities is discussed in point no.-xx.

	public hearing shall be implemented.	
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 (₹ 124.28 Crores) & recurring (₹ 12.43 Crores) 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.	<p>Is being complied with.</p> <p>The above project was monitored on 08.02.2024 by Shri. Sandeep Nandi, Scientist B.</p> <p>Six-monthly compliance report and the monitored data is being submitted regularly to the Regional Office of the Ministry at Bhubaneswar/CPCB/OSPCB.</p> <p>Last half yearly EC compliance report for the period of April 2023 to September 2023 submitted vide letter no. OMPL(MSP)/IRO-MoEF&CC/2023-24/01, dated 01.12.2023.</p> <p>Also, conditions wise compliance was uploaded on Parivesh portal vide compliance ID 26106346.</p> <p>Soft copy of the half yearly compliance report was also sent to the Regional Office, MOEF&CC Bhubaneswar/CPCB/OSPCB through email on 01.12.2023.</p>
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	<p>Complied.</p> <p>It has already been published in Odia Daily "Pragatibadi" and English Daily "The Pioneer" on dated 01.09.2009 and copy submitted to the Regional office,</p>

	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	MOEF&CC, Bhubaneswar.
xiv)	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	The company is a private company and no finance is needed from outside. Land development work had been started after obtaining Consent to establish from State Pollution Control Board, Odisha. Date of commencing the land development work has already been informed to the RO, MOEF&CC, Bhubaneswar.
xv)	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zilla 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 website of the company by the proponent.	Complied. Copy of Environmental Clearance and its subsequent transfer letter has been submitted to concerned local bodies. The environmental clearance letter has been uploaded on the website of the company. Please visit https://orissametaliks.com/data/EC-OMPL(PREVIOUSLY%20MSP).pdf .
xvi)	The project proponent shall upload the status of compliance 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	Agreed and being complied. Status of compliance of the stipulated environment clearance conditions, including results of monitored data is being uploaded on our company's website https://orissametaliks.com/data/qehs02-12-23/EC%20 Compliance-OMPL(MSP) Dec-2023.pdf

	<p>pollutant levels namely; SPM, RSPM, SO₂, NO_x (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.</p>	<p>Last half yearly EC compliance report for the period of April 2023 to September 2023 submitted vide letter no. OMPL(MSP)/IRO-MoEF&CC/2023-24/01, dated 01.12.2023.</p> <p>Also, conditions wise compliance was uploaded on Parivesh portal vide compliance ID 26106346.</p> <p>Soft copy of the half yearly compliance report was also sent to the Regional Office, MOEF&CC Bhubaneswar/CPCB/OSPCB through email on 01.12.2023.</p> <p>A digital board has been provided at main gate of the company for display of criteria pollutant.</p>  <p style="text-align: center;">Digital display at main gate</p>
xvii)	<p>The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.</p>	<p>Is being complied with.</p> <p>Six-monthly compliance report and the monitored data is being submitted regularly to the Regional Office of the Ministry at Bhubaneswar/Zonal office CPCB/OSPCB.</p> <p>Last half yearly EC compliance report for the period of April 2023 to September 2023 submitted vide letter no. OMPL (MSP)/IRO-MoEF&CC/2023-24/01, dated: 01.12.2023, through email on 01.12.2023 and on Parivesh Portal having compliance ID 26106346.</p>
xviii)	<p>The environmental statement for</p>	<p>Environmental Statement in Form-V for</p>

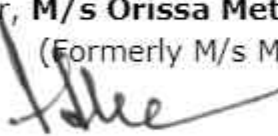
	<p>each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MoEF by e-mail.</p>	<p>the FY 2022-2023 submitted to OSPCB as well as Regional Office of the MoEF&CC vide letter no. MSPML/JSG/OSPCB/2023-24/1-E/198 dated 30th September 2023.</p> <p>Also, environmental Statement is being uploaded on company's website https://orissametaliks.com/qehs.php and updated periodically.</p>
Clause No. 7	<p>The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.</p>	<p>Agreed and noted.</p>
Clause No. 8	<p>The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.</p>	<p>Agreed and noted for compliance.</p>
Clause No. 9	<p>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.</p>	<p>Agreed and noted.</p>
Clause No. 10	<p>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</p>	<p>Noted.</p>

	along with their amendments and rules.	
Additional EC conditions stipulated in transfer of Environment Clearance from M/s MSP Metaliks Limited to M/s Orissa Metaliks Private Limited vide File No: J-11011/494/2007-IA.II(I) dated 23.10.2023		
1.	This EC Transfer is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	Agreed and noted.
2.	This EC Transfer granted to the project/activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/construe to approvals/consent/permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project.	Agreed and noted.

Thanking you,

With sincere regards,

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



(J. P. Sharma)

Executive Director (Works)



**Half Yearly Compliance Report
2024**

01 Jun(01 Oct - 31 Mar)

Acknowledgment

Proposal Name	Expansion of integrated steel plant (Sponge Iron (10,50,000 TPA); Pig Iron (10,60,000 TPA); Pellet Plant (6,00,000 TPA); Steel Melting Shop (10,50,000 TPA); Captive Power Plant (85 MW); Coal Washery (15,00,000 TPA) and Coke oven Battery (6,00,000 TPA) at Village - Marakuta, District Jharsuguda, Odisha		
Name of Entity / Corporate Office	M/s Orissa Metaliks Private Limited (Formerly M/s MSP Metaliks Limited)		
Village(s)	N/A		
District	JHARSUGUDA		
Proposal No.	IA/OR/IND/24581/2009	Category	Industrial Projects - 1
Plot / Survey / Khasra No.	N/A	Sub-District	N/A
State	ODISHA	Entity's PAN	NA
MoEF File No.	J-11011/494/2007-IA.II(I)	Entity name as per PAN	NA

Compliance Reporting Details

Reporting Year	2024
Remarks (if any)	Compliance status report of the conditions stipulated in environmental clearance for the period of October 2023 to March 2024
Reporting Period	01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

Name of Entity / Corporate Office M/s Orissa Metaliks Private Limited (Formerly M/s MSP Metaliks Limited)

	Project Area as per EC Granted	Annual Project Area in Possession
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	103.82	103.82
Total	103.82	103.82

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Sinter	Tons per Annum (TPA)	31/03/2025	460000	0	460000
2	Hot Liquid Metal/Pig Iron	Tons per Annum (TPA)	31/03/2025	1060000	0	188000
3	Sponge Iron	Tons per Annum (TPA)	31/03/2025	994000	116499.82	240000
4	Billets & Slab	Tons per Annum (TPA)	31/03/2025	1050000	5291.11	107700
5	Washed Coal	Tons per Annum (TPA)	31/03/2025	1500000	0	7,00,000
6	Metallurgical Coke	Tons per Annum (TPA)	N/A	600000	0	Application made to SPCB, Odisha for consent to operate of capacity 2,40,000 TPA is in progress.
7	Iron Ore Pellet	Tons per Annum (TPA)	31/03/2025	600000	48861.00	600000
8	Power generation (FBC & WHRB)	MW	31/03/2025	85	-	24

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	AIR QUALITY MONITORING AND PRESERVATION	Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted. On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks and sufficient air pollution control devices shall be provided to keep the emission levels below 100 mg/Nm ³ . At no time, the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.

PPs Submission: Being Complied

To reduce RSPM levels in the ambient air the following steps taken: a) 120 numbers of fixed rotary type water sprinklers have been installed. b) In addition, water sprinkling on internal roads and village roads in immediate vicinity are also carried out manually and with the help of 01 Numbers of Water Tanker having capacity of 5.0 KL and another Water Tanker of capacity 12 KL. c) Dry Fog

Date:
27/05/2024

		<p>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. e) Speed of the vehicles is regulated (20 km/hr) to control the fugitive dust emission from the roads. f) Fixed type Water Sprinklers at appropriate locations are provided. g) Four numbers of Rain guns are installed. h) 01 no. Mechanical road sweeping machine is in use. i) Adequate quantity of mechanized machine for cleaning of plant area & internal drain like bobcats, motorized grader, mini floor cleaning/ scrubber machine, mini excavators & mini clamshell are used. j) The raw materials are transported in covered dumpers or covered with tarpaulin. Overloading of truck strictly prohibited to control spillage and fugitive emission. k) Tyre washing facility (mechanized wheel washing facility) at the entrance of the plant gate has been provided. l) Transfer of material through covered pneumatic conveyor belt. m) Dedicate manpower / staff for maintaining effective housekeeping and cleaning. n) Installation of land use based APCD (Bag filters, ID Fan, pneumatic APC dust handling system and stack of adequate height) at potential secondary emission sources like- transfer points, intermediate storage, silo and crushing/ grinding operations. o) Green belt is being developed inside & outside the plant boundary CPCB guideline. An area of 33% has already been covered under greenbelt with total 66,230 nos. of tree saplings till March 2024 @ 1,933 trees per hectare. Continuous stack emission monitoring facilities for PM & Gases as per CPCB guidelines for all the stacks of operating units i.e. Sponge Iron Plant (DRI Plant), Captive power plant, Mini Blast furnace, Sinter Plant, Pellet Plant and Steel Melting Shop have been installed. Connectivity of Continuous stack emission monitoring system with Odisha State Pollution Control Board and CPCB server has been done. CEMS data is Attached. Four (04) numbers of Ambient Air Quality (AAQ) Monitoring stations installed and commissioned (Screenshot attached). Ambient air quality and stack emission monitoring is being carried out by NABL/SPCB, Odisha accredited laboratory Environmental Research and Services (India) Pvt. Ltd. (Attached). Interlocking facility has been provided.</p>	
2	<p style="text-align: center;">AIR QUALITY MONITORING AND PRESERVATION</p>	<p>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.</p>	
	<p>PPs Submission: Being Complied In each of DRI Kiln (8 X 100 TPD), 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 8 MW 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 Environmental Research and Services (India) Pvt. Ltd. for the period of October 2023 to March 2024 is attached. As per the report the values are within the permissible limit.</p>		<p style="text-align: right;">Date: 27/05/2024</p>
3	<p style="text-align: center;">AIR QUALITY MONITORING AND PRESERVATION</p>	<p>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.</p>	
	<p>PPs Submission: Complied Gas cleaning plant comprising of bag filters and cyclones has been provided to blast furnace (BF). Fume extraction system with bag filters has been provided to induction furnace and no ladle refining furnace has been installed. Dust extraction system along with ESP and multi-cyclones has been provided to pellet plant. Multi-cyclone and bag filters has been provided to sinter plant. Fume extraction system followed by a stack has been provided to continuous casting machine. Bag filters and dust suppression system has been provided at coal crushing and handling areas.</p>		<p style="text-align: right;">Date: 27/05/2024</p>

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 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.
<p>PPs Submission: Complied Bag filters are provided at the transfer points to control fugitive emissions and dust suppression system is provided to control dust from raw material handling and storage area. 02 nos. Water spraying tankers, 02 nos. (Fixed + movable) water mist canons are continuously in use to control the fugitive emission during screening, loading, unloading, handling and storage of raw materials etc. Bag filters are provided at the transfer points to control fugitive emissions. Dust suppression system with water sprinklers, dry fog system and rain guns have been provided at raw material stockpiles and loading/ unloading points. Fume extraction system followed by a stack has been provided to CCM. De-dusting system has been provided at cooler discharge, product separation unit, induction furnace and hot metal transfer section. Water sprinkling system and dust extraction system has been provided at raw material sizing and handling areas. Covered conveyor belts with GI sheets have been provided. Bag filters and dust suppression system (dry fog system) have been provided at coal crushing and handling areas. GCP system has been provided with Blast furnace. Regular monitoring of fugitive emissions is carried out by NABL accredited laboratory (Copy of fugitive emission report for the period of October 2023 to March 2024 attached.</p>		Date: 27/05/2024
5	ENERGY PRESERVATION MEASURES	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.
<p>PPs Submission: Agreed to Comply 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 once the coke oven plant comes in operation.</p>		Date: 27/05/2024
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.
<p>PPs Submission: Being Complied 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 for the period of October 2023 to March 2024 carried out by NABL accredited laboratory Environmental Research and Services (India) Pvt. Ltd is attached.</p>		Date: 27/05/2024
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.

	<p>PPs Submission: Being Complied All the vehicles inside the plant premises having valid PUC. Following measures adopted to control the dust emission during vehicular movement, loading and unloading of the raw material and finished product: a) At various places display boards have also been provided as indicative of speed regulation inside the plant. b) 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. c) Fixed type Water Sprinklers along the internal road at appropriate locations are provided. d) 01 no. Mechanical road sweeping machine is in use to arrest the dust. e) The raw materials are transported in covered dumpers or covered with tarpaulin. Overloading of truck strictly prohibited to control spillage and fugitive emission. f) Tyre washing facility (mechanized wheel washing facility) at the entrance of the plant gate has been provided. g) Water sprinkling facility and rain guns has been provided to control the emission during loading and unloading</p>	<p>Date: 27/05/2024</p>
8	<p>WATER QUALITY MONITORING AND PRESERVATION</p>	<p>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 and alkaline effluent from DM water plant shall be neutralized and reused in the plant. Cooling tower blow down shall be reused for dust suppression. BF-GCP and coal washery water shall be treated in thickener and reused in the process. Oil and grease shall be removed from wastewater by means of oil traps and skimming devices. All the wastewater from process and domestic sources shall be treated and recycled and reused in the process or for dust suppression, green belt development and various other activities at the site. No wastewater shall be discharged outside the premises and zero effluent discharge shall be ensured. Domestic effluent will be treated in septic tank followed by soak pit and used for green belt development.</p>
	<p>PPs Submission: Being Complied 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 m³/Day water is used for domestic and industrial uses. Closed-circuit system has been provided in DRI, CPP, Pellet plant, Sinter Plant, Blast Furnace and SMS plant and no wastewater/effluent is being discharged into any main course. No ash dyke has been provided. All the fly ash generated from the FBC boiler is being used for brick manufacturing inside the plant. A neutralization tank of adequate capacity has been provided for neutralization of Acidic and alkaline effluent from DM water and the treated water is being used for sprinkling on road and raw material handling area. Provision for treatment of coal washery water in thickener has been provided. Oil traps/skimming devices have been provided in effluent treatment plant. Provision has been provided for treatment of waste water and re-use 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. No wastewater is discharged outside the Premises and zero effluent discharge is ensured. Septic tanks at different location within the plant premises followed by soak pits have been provided. STP of capacity 50 KLD has been installed.</p>	<p>Date: 27/05/2024</p>
9	<p>Statutory compliance</p>	<p>Prior permission for the drawl of 10,271 m³/day water from IB River from the concerned department shall be obtained.</p>
	<p>PPs Submission: Being Complied 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 m³/Day. Application for renewal of permission has been submitted to department of</p>	<p>Date: 27/05/2024</p>

		water resources and is in progress.	
10	WATER QUALITY MONITORING AND PRESERVATION	The water consumption should not exceed 16 m ³ /Ton of Steel as per prescribed standard.	
PPs Submission: Being Complied Water consumption per ton of finished product (Billet) is 1.2 m ³ .			Date: 27/05/2024
11	WATER QUALITY MONITORING AND PRESERVATION	Groundwater monitoring around the solid waste disposal site/secured landfill (SLF) shall be carried out regularly and report submitted to the Ministry's Regional Office at Bhubaneswar, CPCB and OPCB.	
PPs Submission: Being Complied Regular monitoring of groundwater is being carried out through NABL/SPCB, Odisha accredited agency Environmental Research and services (India) Pvt. Ltd. and reports are being submitted to the Ministry's Regional Office at Bhubaneswar, CPCB and SPCB, Odisha with six monthly EC compliance report. Copy of ground water analysis report for the period of October 2023 to March 2024 is attached.			Date: 27/05/2024
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: Being Complied We have installed a Sinter Plant of Capacity 4.6 LTPA and it is operational. DRI & iron ore fines, coke breeze, sinter dust, GCP dust, SMS dust is used in sinter plant. All other solid waste like SMS slag is being used for Road construction/Land leveling, MBF slag is used for cement manufacturing, Dolo-char generated from DRI plant is used in AFBC Boiler. Broken refractory is blended with ash and used for brick manufacturing. Sludge from sewage treatment plant (STP) is being used as compost for development of greenbelt. Oily waste is provided to authorized recycler. Oily waste shall be provided to Authorized Cyclers/Re-processors of SPCB.			Date: 27/05/2024
13	WASTE MANAGEMENT	AFBC plant shall be installed in Phase II before installation of sponge iron plant during expansion so that utilization of char in the from the existing as well as proposed sponge iron plant in AFBC boiler is ensured. All the char from DRI plant, coal fines, 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.	
PPs Submission: Being Complied AFBC plant of capacity of 16 MW has already been installed and 100% Dolochar generated from 8 x 100 TPD DRI Kiln is being used in AFBC boiler. Blast Furnace Slag is being granulated and provided to cement manufacturers for further utilization. Dust from ESP, bag filter, wet scrapper is being utilized in sinter plant and kiln accretions are being properly utilized for road construction/land levelling. SMS slag is being used for Road construction/Land levelling purpose.			Date: 27/05/2024
14	WASTE MANAGEMENT	All the slag shall be used for road making or filling 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.	

		<p>PPs Submission: Being Complied 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. Copy of the Toxic Chemical Leachability Potential (TCLP) test carried out by NABL accredited laboratory "Centre for Envotech Management Consultancy Pvt. Ltd." is attached.</p>	Date: 27/05/2024
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.	
		<p>PPs Submission: Being Complied Proper handling, storage, utilization and disposal of all the solid waste are being ensured and report regarding toxic metal content in the waste material carried out by NABL accredited laboratory is being submitted to the Ministry's Regional Office at Bhubaneswar, CPCB and SPCB, Odisha with six monthly compliance report. Copy of the Toxic Chemical Leachability Potential (TCLP) test carried out by NABL accredited laboratory "Centre for Envotech Management Consultancy Pvt. Ltd." is attached. 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. Hazardous waste like spent oil/used oil sold to authorised vendor; waste residue containing oil to be provided to Authorized Cyclers/Re-processors of SPCB.</p>	Date: 27/05/2024
16	WASTE MANAGEMENT	A time bound action plan shall be submitted to reduce solid Waste, its proper utilization and disposal.	
		<p>PPs Submission: Being Complied Management of the company 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 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.</p>	Date: 27/05/2024
17	WASTE MANAGEMENT	Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding shall be submitted to the Ministry's Regional Office at Bhubaneswar.	
		<p>PPs Submission: Being Complied 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. Intimation of same submitted to Ministry's Regional Office at Bhubaneswar with Six Monthly EC compliance Dec-2023.</p>	Date: 27/05/2024
18	GREENBELT	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.	
		<p>PPs Submission: Being Complied Environmental Clearance dated 13th July 2009 was accorded for land measuring 500 acres, but as on date only 256.54 Acres (103.82 Hectares) land is acquired by the company and project boundary is developed for said parcel of land. An area of 84.66 Acres (34.26 Ha) i.e. 33% has already been</p>	Date: 27/05/2024

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 strengthened and to minimize the impact on human and sensitive manmade structure, tree density of the existing greenbelt is being increased as per CPCB guideline. 15,000 nos. of sapling have been planted in FY 2023-24 till March 2024. Total 66,230 nos. of tree has been planted on land measuring 34.26 Ha till March 2024 @ 1933 trees per hectare. Details of Greenbelt are attached.		
19	Corporate Environmental Responsibility	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Sector shall be implemented.
PPs Submission: Being Complied The technology, guidelines and recommendations made for Steel Plants in the CREP guidelines are being/will be implemented. Details of implementations are attached.		Date: 27/05/2024
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: Being Complied The plant was forced shut down in year 2016. M/s MSP Metaliks 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. CSR activities have been carried by old management in compliance to commitments made under heads education, health, drinking water, electrical installation, road development & plantation. Total expenditure made under the head of CSR/CER is ₹ 93,33,770/- (Rupees Ninety Three Lakhs Thirty Three Thousands Seven Hundred Seventy Only). An amount of ₹ 5,00,000/- (Rupees Five Lakhs Only) expenditure has been incurred in the FY 2023-24 under CER/CSR by the new management of the company i.e. M/s Orissa Metaliks Private Limited. 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		Date: 27/05/2024
21	Human Health Environment	The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
PPs Submission: Complied Complied.		Date: 27/05/2024

General Conditions

Sr.No.	Condition Type	Condition Details
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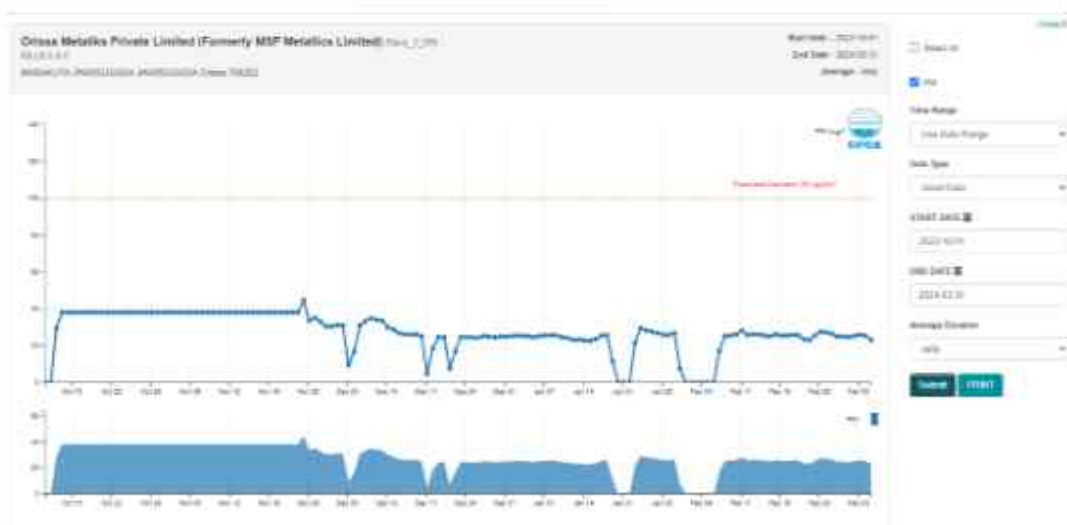
1	Statutory compliance	The project authorities must strictly adhere to the stipulations made by the Orissa Pollution Control Board (OPCB) and the State Government.
PPs Submission: Being Complied Agreed and being complied.		Date: 27/05/2024
2	Statutory compliance	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.
PPs Submission: Being Complied 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. 2. Amendment in subject and implementation status of standard TOR obtained vide F. No. IA-J-11011/494/2007-IA-II (I) dated 29th August, 2023. 3. Transfer of environment clearance from M/s MSP Metaliks 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. 4. Transfer of TOR from M/s MSP Metaliks 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. The same is already submitted to Ministry's Regional Office at Bhubaneswar with Six Monthly EC compliance Dec-2023.		Date: 27/05/2024
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: Being Complied The emission rate in gram per sec for operation units are blast furnace 0.56 g/sec, Sinter Plant 1.87 g/sec, DRI plant 0.39 g/sec, Pellet Plant 4.27 g/sec, Induction furnace of SMS 0.24 g/sec and AFBC 1.13 g/sec.		Date: 27/05/2024
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, SO ₂ and NO _x are anticipated in consultation with the OPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and OPCB, CPCB once in six months.
PPs Submission: Being Complied Already covered in point no. 1 of the Specific condition. Data on ambient air quality and stack emission are regularly being submitted to the Regional Office, MOEF&CC at Bhubaneswar and SPCB, Odisha, CPCB with six monthly compliance reports.		Date: 27/05/2024
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 asphaltting or concreting of the roads shall be done to control fugitive emissions.
PPs Submission: Being Complied In-plant control measures taken for checking fugitive emissions has been provided in Point no. i & iv of specific condition.		Date: 27/05/2024
6	WATER QUALITY MONITORING AND	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th

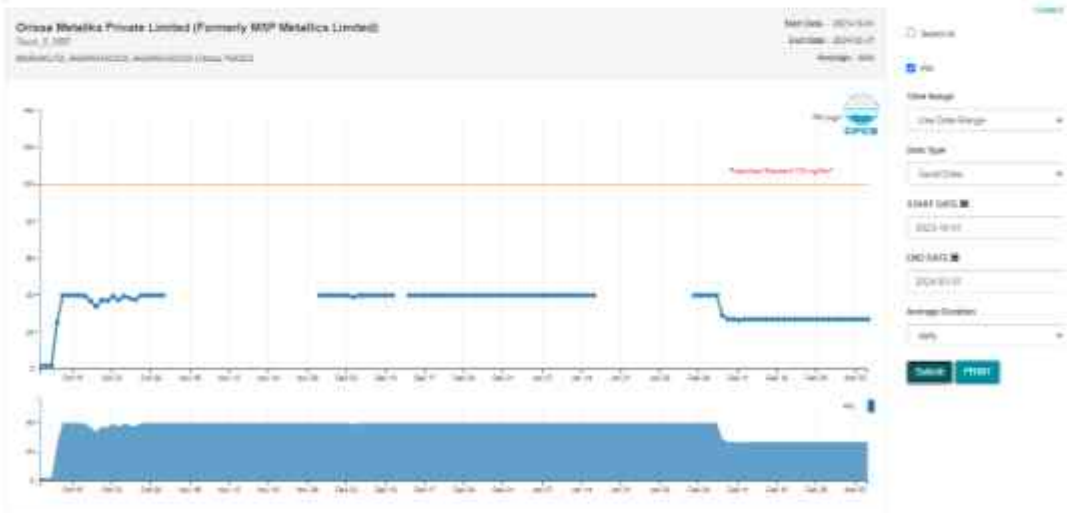
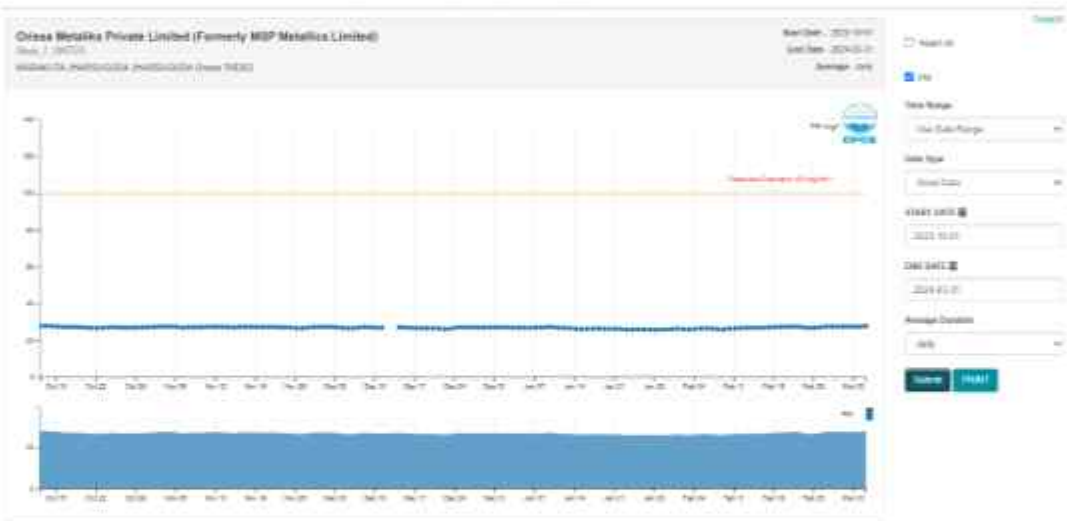
	PRESERVATION	May 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.
<p>PPs Submission: Being Complied The plant is designed as per Zero Liquid Discharge concept. No waste water is discharged outside plant premises. ETP with oil trap & STP of 50 KLD for treatment of the waste water have been installed. The treated water is recycled and reused for dust suppression and green belt development. Wastewater analysis report carried out by NABL accredited laboratory "Environmental Research and Services (India) Pvt. Ltd." for the period of October 2023 to March 2024 is attached.</p>		Date: 27/05/2024
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).
<p>PPs Submission: Being Complied 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. Positioning noise sources further away from workers. Noise Level Measurement report carried out by NABL accredited laboratory "Environmental Research and Services (India) Pvt. Ltd." for the period of October 2023 to March 2024 is attached.</p>		Date: 27/05/2024
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.
<p>PPs Submission: 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 Occupational health surveillance report is attached.</p>		Date: 27/05/2024
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.
<p>PPs Submission: Being Complied 01 number of Rainwater harvesting systems with settling pond has been implemented to harvest rainwater and is utilized for sprinkling, plantation.</p>		Date: 27/05/2024
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.
<p>PPs Submission: Being Complied All the environmental protection measures and safeguards as recommended in the EIA/EMP report for consideration the EC as well as socio-economic development activities is discussed in point no.- xx.</p>		Date: 27/05/2024
11	MISCELLANEOUS	As proposed, Rs. 12.89 Crores and Rs. 0.14 Crores shall be earmarked towards total capital cost and recurring cost/annum for environmental pollution control measures shall be judiciously utilized to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.

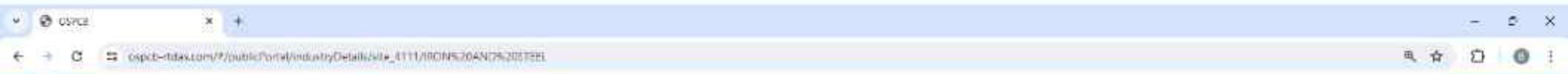
<p>PPs Submission: Being Complied Adequate fund towards capital (₹ 124.28 Crores) & recurring (₹ 12.43 Crores) has been earmarked and being utilized to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The fund earmarked will not be diverted/utilized for any other purposes.</p>		Date: 27/05/2024
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.
<p>PPs Submission: Being Complied The above project was monitored on 08.02.2024 by Shri. Sandeep Nandi, Scientist B. 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 April 2023 to September 2023 submitted vide letter no. OMPL(MSP)IRO-MoEF&CC/2023-24/01, dated 01.12.2023. Also, conditions wise compliance was uploaded on Parivesh portal vide compliance ID 26106346. Soft copy of the half yearly compliance report was also sent to the Regional Office, MOEF&CC Bhubaneswar/CPCB/OSPCB through email on 01.12.2023.</p>		Date: 27/05/2024
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 the Regional office at Bhubaneswar.
<p>PPs Submission: Complied It has already been published in Odia Daily "Pragatibadi" and English Daily "The Pioneer" on dated 01.09.2009 and copy submitted to the Regional office, MOEF&CC, Bhubaneswar.</p>		Date: 27/05/2024
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.
<p>PPs Submission: Being Complied 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. Date of commencing the land development work has already been informed to the RO, MOEF&CC, Bhubaneswar.</p>		Date: 27/05/2024
15	Statutory compliance	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Paris had/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.
<p>PPs Submission: Complied Copy of Environmental Clearance and its subsequent transfer letter has been submitted to concerned local bodies. The environmental clearance letter has been uploaded on the website of the company. Please visit https://orissametaliks.com/data/EC-OMPL(PREVIOUSLY%20MSP).pdf.</p>		Date: 27/05/2024
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, SO ₂ , NO _x (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.	
		<p>PPs Submission: Being Complied Status of compliance of the stipulated environment clearance conditions, including results of monitored data is being uploaded on our company"s website https://orissametaliks.com/data/qehs02-12-23/EC%20_Combpliance-OMPL(MSP)_Dec-2023.pdf Last half yearly EC compliance report for the period of April 2023 to September 2023 submitted vide letter no. OMPL(MSP)/IRO-MoEF&CC/2023-24/01, dated 01.12.2023. Also, conditions wise compliance was uploaded on Parivesh portal vide compliance ID 26106346. Soft copy of the half yearly compliance report was also sent to the Regional Office, MOEF&CC Bhubaneswar/CPCB/ OSPCB through email on 01.12.2023. A digital board has been provided at main gate of the company for display of criteria pollutant.</p>	Date: 27/05/2024
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.	
		<p>PPs Submission: Being Complied Six-monthly compliance report and the monitored data is being submitted regularly to the Regional Office of the Ministry at Bhubaneswar/Zonal office CPCB/OSPCB. Last half yearly EC compliance report for the period of April 2023 to September 2023 submitted vide letter no. OMPL (MSP)/IRO-MoEF&CC/2023-24/01, dated: 01.12.2023, through email on 01.12.2023 and on Parivesh Portal having compliance ID 26106346.</p>	Date: 27/05/2024
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.	
		<p>PPs Submission: Being Complied Environmental Statement in Form-V for the FY 2022-2023 submitted to OSPCB as well as Regional Office of the MoEF&CC vide letter no. MSPML/JSG/OSPCB/2023-24/1-E/198 dated 30th September 2023. Also, environmental Statement is being uploaded on company"s website https://orissametaliks.com/qehs.php and updated periodically.</p>	Date: 27/05/2024
19	MISCELLANEOUS	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	
		<p>PPs Submission: Agreed to Comply Agreed and noted.</p>	Date: 27/05/2024
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 to Comply Agreed and noted for compliance.		Date: 27/05/2024
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 to Comply Agreed and noted.		Date: 27/05/2024
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: Agreed to Comply Noted.		Date: 27/05/2024
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 to Comply Agreed and noted.		Date: 27/05/2024
24	MISCELLANEOUS	This EC Transfer granted to the project/activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.
PPs Submission: Agreed to Comply Agreed and noted.		Date: 27/05/2024
Visit Remarks		
Last Site Visit Report Date:		08/02/2024
Additional Remarks:		Scan copy of the compliance report has been uploaded for your kind consideration, please.

CONTINUOUS EMISSION MONITORING DATA





Odisha State Pollution Control Board

Back



Industry Name
Msp Metals Ltd

District
Jharsuguda

Station
CAAQMS-1,CAAQMS-2,CAAQMS-3,CAAQMS-4

Address
AT/PO- MARAKUTA

State
Odisha

Parameters
CAAQMS-1-PM10,CAAQMS-1-PM2.5,CAAQMS-1-SO2,CAAQMS-1-NO2,CAAQMS-2-PM10,CAAQMS-2-PM2.5,CAAQMS-2-SO2,CAAQMS-2-NO2,CAAQMS-3-PM10,CAAQMS-3-PM2.5,CAAQMS-3-SO2,CAAQMS-3-NO2,CAAQMS-4-PM10,CAAQMS-4-PM2.5,CAAQMS-4-SO2,CAAQMS-4-NO2

Date
From 2024/05/01 00:00:00 To 2024/05/25 11:16:27

City
Jharsuguda

Category
Iron And Steel

Report Format
Tabular

Site Status
Active

Criteria
1-hours

Tabular view

Time x CAAQMS 1 PM10 (mg/Nm3) Raw (0-) x CAAQMS 1 PM2.5 (mg/Nm3) Raw (0-) x +12 x v

CAAQMS 1 SO2 (mg/Nm3) Raw (0-) x CAAQMS 1 NO2 (mg/Nm3) Raw (0-) x

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S. No	Time	CAAQMS-1-PM10 - (mg/Nm3) Raw (0-)	CAAQMS-1-PM2.5 - (mg/Nm3) Raw (0-)	CAAQMS-1-SO2 - (mg/Nm3) Raw (0-)	CAAQM
1	2024-05-01 00	77	37.06	5	7
2	2024-05-01 01	77	38.25	5	7



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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-TC744023000000573F

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Pg No: 1 of 1

Date: 27 OCT 2023	Test Report No: ERSIPL/TR/AA/227
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	: 07-08.10.2023
Sample Received on	: 13.10.2023
Analysis Started on	: 13.10.2023
Analysis Completed on	: 26.10.2023
Method of Sampling	: As per Applicable Test Method
Quantity of Sample	: 01 sample for each parameter
Weather Condition	: Sunny
Atmospheric Temperature (Min/Max)	: 26.0 – 33.0 °C
Atmospheric Pressure (Min/Max)	: 1004-1010 mbar
Sample ID. No.	Locations
1. ERSIPL/AA/788	1. Near Main Gate
2. ERSIPL/AA/789	2. Near Pellet Plant
3. ERSIPL/AA/790	3. Near Steel Melting Shop
4. ERSIPL/AA/791	4. Near Coke Oven Plant

TEST FINDINGS:

Sl. No	Test Parameters	Test method	Unit	Permissible Limit as per NAAQ Standards CPCB Nov-2009	Results			
					ERSIPL/AA/788	ERSIPL/AA/789	ERSIPL/AA/790	ERSIPL/AA/791
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	72.13	71.15	72.78	70.36
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	32.63	34.28	31.79	34.82
3	Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, Reaffirmed-2022, Improved West & Gaeke Method	µg/m ³	80.0	8.48	7.01	8.73	8.46
4	Oxides of Nitrogen (NO _x)	IS 5182 (Part 6): 2006, Reaffirmed - 2022	µg/m ³	80.0	13.48	13.32	12.96	13.93

- Note-
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ULR-TC744023000000661F

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Pg No: 1 of 1

Date: 29 NOV 2023
Name and Address of the Customer : MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Sample Collected by : Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of : Representative of the Customer.
Date of Sampling/Monitoring : 13-14.11.2023
Sample Received on : 20.11.2023
Analysis Started on : 20.11.2023
Analysis Completed on : 29.11.2023
Method of Sampling : As per Applicable Test Method
Quantity of Sample : 01 sample for each parameter
Weather Condition : Sunny
Atmospheric Temperature (Min/Max) : 19.0 – 30.0 °C
Atmospheric Pressure (Min/Max) : 1014-1018 mbar

Sample ID. No.

1. ERSIPL/AA/891
2. ERSIPL/AA/892
3. ERSIPL/AA/893
4. ERSIPL/AA/894

Locations

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

TEST FINDINGS:

Sl. No	Test Parameters	Test method	Unit	Permissible Limit as per NAAQ Standards CPCB Nov-2008	Results			
					ERSIPL/AA/891	ERSIPL/AA/892	ERSIPL/AA/893	ERSIPL/AA/894
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	73.48	72.63	74.60	74.04
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	32.36	32.37	34.24	33.47
3	Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, Reaffirmed-2022, Improved West & Gaeke Method	µg/m ³	80.0	9.52	7.12	9.17	8.93
4	Oxides of Nitrogen (NO _x)	IS 5182 (Part 6): 2006, Reaffirmed - 2022	µg/m ³	80.0	14.50	13.37	13.18	14.10

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TC-7440

Plot No: B-22, Sector-B, Industrial Estate Chandaka, Infocity Road, Bhubaneswar-751024, Odisha
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ULR-TC744023000000716F

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Pg No: 1 of 1

Date: 20 DEC 2023
Test Report No: ERSIPL/TR/AA/286
Name and Address of the Customer : MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Sample Collected by : Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of : Representative of the Customer.
Date of Sampling/Monitoring : 09-10.12.2023
Sample Received on : 13.12.2023
Analysis Started on : 13.12.2023
Analysis Completed on : 20.12.2023
Method of Sampling : As per Applicable Test Method
Quantity of Sample : 01 sample for each parameter
Weather Condition : Partly Sunny
Atmospheric Temperature (Min/Max) : 14.0 – 26.0 °C
Atmospheric Pressure (Min/Max) : 1014-1018 mbar

Sample ID. No.

- ERSIPL/AA/979
- ERSIPL/AA/980
- ERSIPL/AA/981
- ERSIPL/AA/982

Locations

- Near Main Gate
- Near Pellet Plant
- Near Steel Melting Shop
- Near Coke Oven Plant

TEST FINDINGS:

Sl. No	Test Parameters	Test method	Unit	Permissible Limit as per NAAQ Standards CPCB Nov-2008	Results			
					ERSIPL/ AA/ 979	ERSIPL/ AA/ 980	ERSIPL/ AA/ 981	ERSIPL/ AA/ 982
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	74.78	74.84	73.95	71.54
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	33.76	32.81	32.86	33.46
3	Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, Reaffirmed-2022, Improved West & Gaeke Method	µg/m ³	80.0	8.67	7.67	7.84	8.36
4	Oxides of Nitrogen (NO _x)	IS 5182 (Part 6): 2006, Reaffirmed - 2022	µg/m ³	80.0	13.98	13.40	12.34	13.73

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ULR-TC74402400000059F

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Pg No: 1 of 1

Date: 03 FEB 2024

Test Report No: ERSIPL/TR/AA/026

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

: 26-27.01.2024

Sample Received on

: 29.01.2024

Analysis Started on

: 29.01.2024

Analysis Completed on

: 02.02.2024

Method of Sampling

: As per Applicable Test Method

Quantity of Sample

: 01 sample for each parameter

Weather Condition

: Partly Sunny

Atmospheric Temperature (Min/Max)

: 10.0 – 25.0 °C

Atmospheric Pressure (Min/Max)

: 1013-1022 mbar

Sample ID. No.

1. ERSIPL/AA/72
2. ERSIPL/AA/73
3. ERSIPL/AA/74
4. ERSIPL/AA/75

Locations

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

TEST FINDINGS:

Sl. No	Test Parameters	Test method	Unit	Permissible Limit as per NAAQ Standards CPCB Nov-2009	Results			
					ERSIPL/AA/72	ERSIPL/AA/73	ERSIPL/AA/74	ERSIPL/AA/75
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	72.24	73.81	72.19	72.40
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	32.18	33.50	32.63	32.51
3	Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, Reaffirmed-2022, Improved West & Gaeke Method	µg/m ³	80.0	8.37	9.62	7.85	9.83
4	Oxides of Nitrogen (NO _x)	IS 5182 (Part 6): 2006, Reaffirmed - 2022	µg/m ³	80.0	13.51	12.22	12.64	13.37

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TC-7440

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ULR-TC74402400000086F

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Pg No: 1 of 1

Date: 23 FEB 2024

Test Report No: ERSIPL/TR/AA/035

Name and Address of the Customer : Orissa Metaliks Private 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 : 11-12.02.2024

Sample Received on : 15.02.2024

Analysis Started on : 15.02.2024

Analysis Completed on : 22.02.2024

Method of Sampling : As per Applicable Test Method

Quantity of Sample : 01 sample for each parameter

Weather Condition : Sunny/ Scattered Cloud

Atmospheric Temperature (Min/Max) : 17.0 – 29.0 °C

Atmospheric Pressure (Min/Max) : 1017-1021 mbar

Sample ID. No.

1. ERSIPL/AA/113

2. ERSIPL/AA/114

3. ERSIPL/AA/115

4. ERSIPL/AA/116

Locations

1. Near Main Gate

2. Near Pellet Plant

3. Near Steel Melting Shop

4. Near Coke Oven Plant

TEST FINDINGS:

Sl. No	Test Parameters	Test method	Unit	Permissible Limit as per NAAQ Standards CPCB Nov-2009	Results			
					ERSIPL/AA/113	ERSIPL/AA/114	ERSIPL/AA/115	ERSIPL/AA/116
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	72.11	71.01	72.57	73.73
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	32.19	32.11	31.69	31.88
3	Sulphur Dioxide (SO ₂)	IS: 5182 (Part 2): 2001, Reaffirmed-2022, Improved West & Gaeke Method	µg/m ³	80.0	8.49	7.81	7.56	8.17
4	Oxides of Nitrogen (NO _x)	IS: 5182 (Part 6): 2006, Reaffirmed - 2022	µg/m ³	80.0	12.37	13.28	11.91	13.13

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ULR-TC744024000000190F

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Pg No: 1 of 1

Date: 30 MAR 2024

Test Report No: ERSIPL/TR/AA/080

Name and Address of the Customer : Orissa Metaliks Private 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 : 20-21.03.2024

Sample Received on : 25.03.2024

Analysis Started on : 25.03.2024

Analysis Completed on : 30.03.2024

Method of Sampling : As per Applicable Test Method

Quantity of Sample : 01 sample for each parameter

Weather Condition : Overcast

Atmospheric Temperature (Min/Max) : 16.0 – 27.0 °C

Atmospheric Pressure (Min/Max) : 1012-1017 mbar

Sample ID. No.

1. ERSIPL/AA/236

2. ERSIPL/AA/237

3. ERSIPL/AA/238

4. ERSIPL/AA/239

Locations

1. Near Main Gate

2. Near Pellet Plant

3. Near Steel Melting Shop

4. Near Coke Oven Plant

TEST FINDINGS:

Sl. No	Test Parameters	Test method	Unit	Permissible Limit as per NAAQ Standards CPCB Nov-2009	Results			
					ERSIPL/AA/236	ERSIPL/AA/237	ERSIPL/AA/238	ERSIPL/AA/239
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	72.82	73.87	72.97	70.11
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	32.71	30.14	33.77	32.14
3	Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, Reaffirmed-2022, Improved West & Gaeke Method	µg/m ³	80.0	7.62	7.42	8.13	8.32
4	Oxides of Nitrogen (NO _x)	IS 5182 (Part 6): 2006, Reaffirmed - 2022	µg/m ³	80.0	11.68	12.61	12.94	13.61

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Signature



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ULR-TC74402200000575F

Test Report Format No.: ERSIPL/FM/38

TEST REPORT (FLUE GAS)

Pg No: 1 of 1

Date: 27 OCT 2023 **Test Report No: ERSIPL/TR/SE/053**

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

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

Sample Collected in presence of : Representative of the Customer.

Sample Received on : 13.10.2023

Analysis Started on : 13.10.2023

Analysis Completed on : 26.10.2023

Method of Sampling : As per Applicable Test Method

Quantity of Sample : 01 sample for each parameter

Weather Condition : Sunny

Stack top : circular

Atmospheric Temperature (Min/Max) : 35.0 – 39.0 °C

Sample ID. No.Location

- ERSIPL/SE/178 ; dt. 07.10.2023 : Stack attached to ESP of DRI Kiln –I& II
- ERSIPL/SE/179 ; dt. 07.10.2023 : Stack attached to ESP of DRI Kiln – III & IV
- ERSIPL/SE/180 ; dt. 08.10.2023 : Stack attached to ESP of 16MW AFBC Boiler
- ERSIPL/SE/181 ; dt. 07.10.2023 : Stack attached to Multi cyclone of sintering process sinter plant
- ERSIPL/SE/182 ; dt. 08.10.2023 : Stack attached to ESP connected to Rotary Drum – Pellet Plant

Sample ID No.	Test Method	Test Parameters							
		Stack Height (AGL in m)	Stack Internal Dia. in cm	Height of Sampling Platform (AGL in m)	Temp. of Flue gases in (deg. C)	Velocity of flue gases in mps	Particulate matter in mg/Nm ³		SO ₂ in mg/Nm ³
							Analyzed result	Permissible limit as per SPCB	Permissible limit as per SPCB (600)
ERSIPL/SE/178	For PM IS:11255(Part -1):1985, Reaffirmed 2019 & for SO ₂ IS:11255(Part -2):1985, Reaffirmed 2019.	30	243	12	147.0	23.6031	30.09	100.0	xx
ERSIPL/SE/179		30	243	12	133.0	21.3762	32.62	100.0	xx
ERSIPL/SE/180		77	243	25	144.0	24.9033	27.66	50.0	46.76
ERSIPL/SE/181		50	343	25	135.0	21.6193	33.36	100.0	xx
ERSIPL/SE/182		52	373	25	136.0	22.6752	30.51	100.00	xx

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Test Report Format No.: ERSIPL/FM/38

TEST REPORT (FLUE GAS)

Pg No: 1 of 1

Date: 27 OCT 2023 **Test Report No: ERSIPL/TR/SE/T-053**
Name and Address of the Customer : MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Sample Collected by : Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of : Representative of the Customer.
Sample Received on : 13.10.2023
Analysis Started on : 13.10.2023
Analysis Completed on : 26.10.2023
Method of Sampling : As per Applicable Test Method
Quantity of Sample : 01 sample for each parameter
Weather Condition : Sunny
Stack top : circular
Atmospheric Temperature (Min/Max) : 35.0 – 39.0 °C

- | <u>Sample ID. No.</u> | <u>Location</u> |
|-----------------------------------|--|
| 1. ERSIPL/SE/178 ; dt. 07.10.2023 | : Stack attached to ESP of DRI Kiln –I& II |
| 2. ERSIPL/SE/179 ; dt. 07.10.2023 | : Stack attached to ESP of DRI Kiln – III & IV |
| 3. ERSIPL/SE/180 ; dt. 08.10.2023 | : Stack attached to ESP of 16MW AFBC Boiler |

Sample ID No.	Test Parameters				
	Temp. of Flue gases in (deg. C)	Velocity of flue gases in mps	CO % (v/v) Analyzed result Permissible limit as per OSPCB (1.0)	NO ₂ in mg/Nm ³ Permissible limit as per SPCB (300) max	Hg in mg/Nm ³ Permissible limit as per SPCB (0.03) max
ERSIPL/SE/178	147.0	23.6031	<0.02	NA	
ERSIPL/SE/179	133.0	21.3762	<0.02		
ERSIPL/SE/180	144.0	24.9033	NA	142.0	<0.01


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



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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-TC744022000000663F

Test Report Format No.: ERSIPL/FM/38

TEST REPORT (FLUE GAS)

Pg No: 1 of 1

Date: 29 NOV 2023
Test Report No: ERSIPL/TR/SE/057
Name and Address of the Customer : MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Sample Collected by : Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of : Representative of the Customer.
Sample Received on : 20.11.2023
Analysis Started on : 20.11.2023
Analysis Completed on : 29.11.2023
Method of Sampling : As per Applicable Test Method
Quantity of Sample : 01 sample for each parameter
Weather Condition : Sunny/Scattered Clouds
Stack top : circular
Atmospheric Temperature (Min/Max) : 29.0 – 30.0 °C

Sample ID. No.	Location
1. ERSIPL/SE/193 ; dt. 14.11.2023	: Stack attached to ESP of DRI Kiln –I& II
2. ERSIPL/SE/194 ; dt. 14.11.2023	: Stack attached to ESP of DRI Kiln – III & IV
3. ERSIPL/SE/195; dt. 13.11.2023	: Stack attached to ESP of 16MW AFBC Boiler
4. ERSIPL/SE/196; dt. 14.11.2023	: Stack attached to Multi cyclone of sintering process -Sinter plant
5. ERSIPL/SE/197; dt. 13.11.2023	: Stack attached to ESP connected to Rotary Drum – Pellet Plant

Sample ID No.	Test Method	Test Parameters							
		Stack Height (AGL in m)	Stack Internal Dia. in cm	Height of Sampling Platform (AGL in m)	Temp. of Flue gases in (deg. C)	Velocity of flue gases in mps	Particulate matter in mg/Nm ³		SO ₂ in mg/Nm ³
							Analyzed result	Permissible limit as per SPCCB	Permissible limit as per SPCCB (600)
ERSIPL/SE/193	For FM 18.11.2015 (Part-1): 2015, Reaffirmed 2019 & for SO ₂ 18.11.2015 (Part-2): 2015, Reaffirmed 2019.	30	243	12	143.0	20.8507	32.93	100.0	xx
ERSIPL/SE/194		30	243	12	133.0	22.1265	34.28	100.0	xx
ERSIPL/SE/195		77	243	25	143.0	22.9673	29.77	50.0	59.13
ERSIPL/SE/196		50	343	25	137.0	21.0942	30.82	100.0	xx
ERSIPL/SE/197		52	373	25	134.0	24.6029	32.82	100.00	xx

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 - 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 & 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 law without prior written consent of ERS (I) Pvt. Ltd.

(Authorized Signatory)



Environmental Research and Services (India) Pvt. Ltd.

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

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

Test Report Format No.: ERSIPL/FM/38

TEST REPORT (FLUE GAS)

Pg No: 1 of 1

Date: 29 NOV 2023 **Test Report No: ERSIPL/TR/SE/T-057**

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

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

Sample Collected in presence of : Representative of the Customer.

Sample Received on : 20.11.2023

Analysis Started on : 20.11.2023

Analysis Completed on : 29.11.2023

Method of Sampling : As per Applicable Test Method

Quantity of Sample : 01 sample for each parameter

Weather Condition : Sunny/Scattered Clouds

Stack top : circular

Atmospheric Temperature (Min/Max) : 29.0 – 30.0 °C


Sample ID No.

Location

- ERSIPL/SE/193 ; dt. 14.11.2023 : Stack attached to ESP of DRI Kiln – I& II
- ERSIPL/SE/194 ; dt. 14.11.2023 : Stack attached to ESP of DRI Kiln – III & IV
- ERSIPL/SE/195; dt. 13.11.2023 : Stack attached to ESP of 16MW AFBC Boiler

Sample ID No.	Test Parameters				
	Temp. of Flue gases in (deg. C)	Velocity of flue gases in mps	CO % (v/v)	NO ₂ in mg/Nm ³	Hg in mg/Nm ³
			Analyzed result Permissible limit as per OSPCB (1.0)	Permissible limit as per SPCB (300) max	Permissible limit as per SPCB (0.03) max
ERSIPL/SE/193	143.0	20.8507	<0.02	NA	
ERSIPL/SE/194	133.0	22.1265	<0.02		
ERSIPL/SE/195	143.0	22.9673	NA	167.0	<0.01

- Note:-
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(Authorized Signatory)
S.P. Pattanayak
Tech. Manager



Environmental Research and Services (India) Pvt. Ltd.

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



TC-7440

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

ULR-TC744022000000718F

Test Report Format No.: ERSIPL/FM/38

TEST REPORT (FLUE GAS)

Pg No: 1 of 1

Date: 20 DEC 2023
 Name and Address of the Customer : MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
 Sample Collected by : Representative of ERS (I) Pvt. Ltd.
 Sample Collected in presence of : Representative of the Customer.
 Sample Received on : 13.12.2023
 Analysis Started on : 13.12.2023
 Analysis Completed on : 20.12.2023
 Method of Sampling : As per Applicable Test Method
 Quantity of Sample : 01 sample for each parameter
 Weather Condition : Partly Sunny /Passing Clouds
 Stack top : circular
 Atmospheric Temperature (Min/Max) : 14.0 – 26.0 °C

Sample ID. No.	Location
1. ERSIPL/SE/225 ; dt. 09.12.2023	: Stack attached to ESP of DRI Kiln – I& II
2. ERSIPL/SE/226 ; dt. 09.12.2023	: Stack attached to ESP of DRI Kiln – III & IV
3. ERSIPL/SE/227 ; dt. 10.12.2023	: Stack attached to ESP of DRI Kiln – VII & VIII
4. ERSIPL/SE/228 ; dt. 09.12.2023	: Stack attached to ESP of 16MW AFBC Boiler
5. ERSIPL/SE/229 dt. 10.12.2023	: Stack attached to Multi cyclone of sintering process -Sinter plant
6. ERSIPL/SE/230 dt. 10.12.2023	: Stack attached to ESP connected to Rotary Drum – Pellet Plant

Sample ID No.	Test Method	Test Parameters							
		Stack Height (AGL in m)	Stack Internal Dia. in cm	Height of Sampling Platform (AGL in m)	Temp. of Flue gases in (deg. C)	Velocity of flue gases in mps	Particulate matter in mg/Nm ³		SO ₂ in mg/Nm ³
							Analyzed result	Permissible limit as per SPCB	Permissible limit as per SPCB (ppm)
ERSIPL/SE/225	For PM (S:11255) Part 13:1985, Reaffirmed 2019 & for SO ₂ (S:11255) Part 29:1985, Reaffirmed 2019.	45	243	12	148.0	23.6312	33.59	100.0	XX
ERSIPL/SE/226		45	243	12	134.0	24.9332	33.01	100.0	XX
ERSIPL/SE/227		45	243	12	141.0	23.0762	30.51	100.0	XX
ERSIPL/SE/228		77	243	25	144.0	24.5645	31.17	50.0	49.58
ERSIPL/SE/229		50	343	25	154.0	25.8723	28.90	100.0	XX
ERSIPL/SE/230		52	373	25	131.0	23.1492	32.70	100.00	XX

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(Authorized Signature)



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Test Report Format No.: ERSIPL/FM/38

TEST REPORT (FLUE GAS)

Pg No: 1 of 1

Date: 20 DEC 2023
Name and Address of the Customer : MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Sample Collected by : Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of : Representative of the Customer.
Sample Received on : 13.12.2023
Analysis Started on : 13.12.2023
Analysis Completed on : 20.12.2023
Method of Sampling : As per Applicable Test Method
Quantity of Sample : 01 sample for each parameter
Weather Condition : Partly Sunny /Passing Clouds
Stack top : circular
Atmospheric Temperature (Min/Max) : 14.0 – 26.0 °C

Sample ID. No.

Location

- ERSIPL/SE/225 ; dt. 09.12.2023 : Stack attached to ESP of DRI Kiln –I& II
- ERSIPL/SE/226 ; dt. 09.12.2023 : Stack attached to ESP of DRI Kiln – III & IV
- ERSIPL/SE/227 ; dt. 10.12.2023 : Stack attached to ESP of DRI Kiln – VII & VIII
- ERSIPL/SE/228 ; dt. 09.12.2023 : Stack attached to ESP of 16MW AFBC Boiler

Sample ID No.	Test Parameters				
	Temp. of Flue gases in (deg. C)	Velocity of flue gases in mps	CO % (v/v) Analyzed result Permissible limit as per OSPCB (1.0)	NO ₂ in mg/Nm ³ Permissible limit as per SPCB (300) max	Hg in mg/Nm ³ Permissible limit as per SPCB (0.03) max
ERSIPL/SE/225	148.0	23.6312	<0.02	NA	
ERSIPL/SE/226	134.0	24.9332	<0.02		
ERSIPL/SE/227	141.0	23.0762	<0.02		
ERSIPL/SE/228	144.0	24.5645	NA	187.0	<0.01

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



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TC-7440

ULR-TC744024000000061F

Test Report Format No.: ERSIPL/FM/38

TEST REPORT (FLUE GAS)

Pg No: 1 of 1

Date: 03 FEB 2024 **Test Report No: ERSIPL/TR/SE/006**

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

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

Sample Collected in presence of : Representative of the Customer.

Sample Received on : 29.01.2024

Analysis Started on : 29.01.2024

Analysis Completed on : 02.02.2024

Method of Sampling : As per Applicable Test Method

Quantity of Sample : 01 sample for each parameter

Weather Condition : Partly Sunny /Passing Clouds

Stack top : circular

Atmospheric Temperature (Min/Max) : 270 – 29.0 °C

Sample ID. No.

Location

- ERSIPL/SE/13 ; dt. 26.01.2024 : Stack attached to ESP of DRI Kiln –I& II
- ERSIPL/SE/14 ; dt. 26.01.2024 : Stack attached to ESP of DRI Kiln – III & IV
- ERSIPL/SE/15; dt. 26.01.2024 : Stack attached to Multi cyclone of sintering process -Sinter plant
- ERSIPL/SE/16; dt. 27.01.2024 : Stack attached to ESP connected to Rotary Drum – Pellet Plant

Sample ID No.	Test Method	Test Parameters							
		Stack Height (AGL in m)	Stack Internal Dia. in cm	Height of Sampling Platform (AGL in m)	Temp. of Flue gases in (deg. C)	Velocity of flue gases in mps	Particulate matter in mg/Nm ³		SO ₂ in mg/Nm ³
							Analyzed result	Permissible limit as per SPCB	Permissible limit as per SPCB (600)
ERSIPL/SE/13	For PM (S:11255(Part -1):1985, Reaffirmed 2019 & for SO ₂ (S:11255(Part -2):1985, Reaffirmed 2019,	45	243	12	139.0	23.0203	31.43	100.0	xx
ERSIPL/SE/14		45	243	12	147.0	23.9581	31.83	100.0	xx
ERSIPL/SE/15		50	343	25	128.0	22.3533	28.81	100.0	xx
ERSIPL/SE/16		52	373	25	118.0	21.7139	29.09	100.00	xx

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(Authorized Signatory)



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Test Report Format No.: ERSIPL/FM/38

TEST REPORT (FLUE GAS)

Pg No: 1 of 1

Date: 03 FEB 2024 **Test Report No: ERSIPL/TR/SE/T-006**

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

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

Sample Collected in presence of : Representative of the Customer.

Sample Received on : 29.01.2024

Analysis Started on : 29.01.2024

Analysis Completed on : 02.02.2024

Method of Sampling : As per Applicable Test Method

Quantity of Sample : 01 sample for each parameter

Weather Condition : Partly Sunny /Passing Clouds

Stack top : circular

Atmospheric Temperature (Min/Max) : 270 – 29.0 °C

Sample ID. No. **Location**

1. ERSIPL/SE/13 ; dt. 26.01.2024 : Stack attached to ESP of DRI Kiln –I& II

2. ERSIPL/SE/14 ; dt. 26.01.2024 : Stack attached to ESP of DRI Kiln – III & IV

Sample ID No.	Test Parameters				
	Temp. of Flue gases in (deg. C)	Velocity of flue gases in mps	CO % (v/v)	NO ₂ in mg/Nm ³	Hg in mg/Nm ³
			Analyzed result Permissible limit as per OSPCB (1.0)	Permissible limit as per SPCB (300) max	Permissible limit as per SPCB (0.03) max
ERSIPL/SE/13	139.0	23.0203	<0.02	NA	
ERSIPL/SE/14	147.0	23.9581	<0.02		

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



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ULR-TC744024000000088F

Test Report Format No.: ERSIPL/FM/38

TEST REPORT (FLUE GAS)

Pg No: 1 of 1

Date: 23 FEB 2024
Test Report No: ERSIPL/TR/SE/010
Name and Address of the Customer : Orissa Metaliks Private Limited, Village: Marakuta,
Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Sample Collected by : Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of : Representative of the Customer.
Sample Received on : 15.02.2024
Analysis Started on : 15.02.2024
Analysis Completed on : 22.02.2024
Method of Sampling : As per Applicable Test Method
Quantity of Sample : 01 sample for each parameter
Weather Condition : Sunny /Passing Clouds
Stack top : circular
Atmospheric Temperature (Min/Max) : 23.0 – 27.0 °C

Sample ID. No.

Location

1. ERSIPL/SE/28 -dt. 11.02.2024 : Stack attached to ESP of DRI Kiln -I& II
2. ERSIPL/SE/29 -dt. 12.02.2024 : Stack attached to ESP of 16 MW AFBC Boiler
3. ERSIPL/SE/30 -dt. 12.02.2024 : Stack attached to Multi cyclone of sintering process -Sinter plant
4. ERSIPL/SE/31 -dt. 12.02.2024 : Stack attached to ESP connected to Rotary Drum – Pellet Plant

Sample ID No.	Test Method	Test Parameters							
		Stack Height (AGL in m)	Stack Internal Dia. in cm	Height of Sampling Platform (AGL in m)	Temp. of Flue gases in (deg. C)	Velocity of flue gases in mps	Particulate matter in mg/Nm ³		SO ₂ in mg/Nm ³
							Analyzed result	Permissible limit as per SPCB	Permissible limit as per SPCB (600)
ERSIPL/SE/28	For PM IS:11255(Part -1):1985, Reaffirmed 2019 & for SO ₂ IS:11255(Part -2):1985, Reaffirmed 2019.	45	243	12	149.0	23.4466	31.07	100.0	xx
ERSIPL/SE/29		77	243	25	113.0	21.3806	29.89	50.0	46.38
ERSIPL/SE/30		50	343	25	141.0	22.8687	29.52	100.0	xx
ERSIPL/SE/31		52	373	25	127.0	23.5088	33.65	100.00	xx

- Note-
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 4. Samples (Filter Papers & Thimbles) received shall be destroyed after 01 year & Gaseous/Liquid samples received shall be destroyed after 07 days from the date of issue of the test report, unless otherwise specified.
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(Authorized Signatory)



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Test Report Format No.: ERSIPL/FM/38

TEST REPORT (FLUE GAS)

Pg No: 1 of 1

Date: 23 FEB 2024
Test Report No: ERSIPL/TR/SE/T-010
 Name and Address of the Customer : Orissa Metaliks Private Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
 Sample Collected by : Representative of ERS (I) Pvt. Ltd.
 Sample Collected in presence of : Representative of the Customer.
 Sample Received on : 15.02.2024
 Analysis Started on : 15.02.2024
 Analysis Completed on : 22.02.2024
 Method of Sampling : As per Applicable Test Method
 Quantity of Sample : 01 sample for each parameter
 Weather Condition : Sunny /Passing Clouds
 Stack top : circular
 Atmospheric Temperature (Min/Max) : 24.0 – 27.0 °C

Sample ID. No.

Location

- ERSIPL/SE/28 ; dt. 11.02.2024 : Stack attached to ESP of DRI Kiln -I& II
- ERSIPL/SE/29 ; dt. 12.02.2024 : Stack attached to ESP of 16 MW AFBC Boiler

Sample ID No.	Test Parameters				
	Temp. of Flue gases in (deg. C)	Velocity of flue gases in mps	CO % (v/v)	NO ₂ in mg/Nm ³	Hg in mg/Nm ³
			Analyzed result Permissible limit as per OSPCB (1.0)	Permissible limit as per SPCB (300) max	Permissible limit as per SPCB (0.03) max
ERSIPL/SE/28	149.0	23.4466	<0.02	NA	
ERSIPL/SE/29	113.0	21.3806	NA	164.0	<0.01

Note-

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

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



Environmental Research and Services (India) Pvt. Ltd.

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TC-7440

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ULR-TC744024000000192F

Test Report Format No.: ERSIPL/FM/38

TEST REPORT (FLUE GAS)

Pg No: 1 of 1

Date: 30 MAR 2024
Test Report No: ERSIPL/TR/SE/017
Name and Address of the Customer : Orissa Metaliks Private Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Sample Collected by : Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of : Representative of the Customer.
Sample Received on : 25.03.2024
Analysis Started on : 25.03.2024
Analysis Completed on : 30.03.2024
Method of Sampling : As per Applicable Test Method
Quantity of Sample : 01 sample for each parameter
Weather Condition : Overcast/Rain
Stack top : circular
Atmospheric Temperature : 24.0 – 31.0 °C

<u>Sample ID. No.</u>	<u>Location</u>
1. ERSIPL/SE/54 -dt. 20.03.2024	: Stack attached to ESP of DRI Kiln –I& II
2. ERSIPL/SE/55 -dt. 20.03.2024	: Stack attached to ESP of DRI Kiln –III & IV
3. ERSIPL/SE/56 -dt. 21.03.2024	: Stack attached to ESP of 16 MW AFBC Boiler
4. ERSIPL/SE/57 -dt. 21.03.2024	: Stack attached to Multi cyclone of sintering process -Sinter plant
5. ERSIPL/SE/58 -dt. 21.03.2024	: Stack attached to-ESP connected to Rotary Drum – Pellet Plant

Sample ID No.	Test Method	Test Parameters							
		Stack Height (AGL in m)	Stack Internal Dia. In cm	Height of Sampling Platform (AGL in m)	Temp. of Flue gases in (deg. C)	Velocity of flue gases in mps	Particulate matter in mg/Nm ³		SO ₂ in mg/Nm ³
							Analyzed result	Permissible limit as per SPCB	Permissible limit as per SPCB (600)
ERSIPL/SE/54	For PM IS:11255(Part -1):1985, Reaffirmed 2019 & for SO ₂ IS:11255(Part -2):1985, Reaffirmed 2019,	45	243	12	148.0	22.1959	31.66	100.0	XX
ERSIPL/SE/55		30	243	12	137.0	23.4584	34.31	100.0	XX
ERSIPL/SE/56		77	243	25	130.0	23.5968	32.34	50.0	53.81
ERSIPL/SE/57		50	343	25	154.0	23.9397	29.35	100.0	XX
ERSIPL/SE/58		52	373	25	123.0	23.7227	26.40	100.00	XX

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Test Report Format No.: ERSIPL/FM/38

TEST REPORT (FLUE GAS)

Pg No: 1 of 1

Date: 30 MAR 2024
Test Report No: ERSIPL/TR/SE/T-017
Name and Address of the Customer : Orissa Metaliks Private Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Sample Collected by : Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of : Representative of the Customer.
Sample Received on : 25.03.2024
Analysis Started on : 25.03.2024
Analysis Completed on : 30.03.2024
Method of Sampling : As per Applicable Test Method
Quantity of Sample : 01 sample for each parameter
Weather Condition : Overcast/Rain
Stack top : circular
Atmospheric Temperature : 28.0 – 31.0 °C

Sample ID. No.

Location

- ERSIPL/SE/54 -dt. 20.03.2024 : Stack attached to ESP of DRI Kiln -I& II
- ERSIPL/SE/55 -dt. 20.03.2024 : Stack attached to ESP of DRI Kiln -III & IV
- ERSIPL/SE/56 -dt. 21.03.2024 : Stack attached to ESP of 16 MW AFBC Boiler

Sample ID No.	Test Parameters				
	Temp. of Flue gases in (deg. C)	Velocity of flue gases in mps	CO % (v/v)	NO ₂ in mg/Nm ³	Hg in mg/Nm ³
			Analyzed result Permissible limit as per OSPCB (1.0)	Permissible limit as per SPCB (300) max	Permissible limit as per SPCB (0.03) max
ERSIPL/SE/54	148.0	22.1959	<0.02	NA	
ERSIPL/SE/55	137.0	23.4584	<0.02		
ERSIPL/SE/56	130.0	23.5968	NA	182.0	<0.01

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



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ULR-TC744023000000574F

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Pg No: 1 of 1

Date: 27 OCT 2023	Test Report No: ERSIPL/TR/AA/228
Name and Address of the Customer	: MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Sample Collected by	: Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of	: Representative of the Customer.
Date of Sampling/Monitoring	: 08.10.2023
Sample Received on	: 13.10.2023
Analysis Started on	: 13.10.2023
Analysis Completed on	: 26.10.2023
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 – 33.0 °C
Atmospheric Pressure (Min/Max)	: 1006-1010 mbar
Sample ID. No.	Locations
1. ERSIPL/AA/792(Fugitive Emission)	1. Near Iron Ore Stock Yard
2. ERSIPL/AA/793 (Fugitive Emission)	2. Near Coal Stock Yard
3. ERSIPL/AA/794 (Fugitive Emission)	3. Near RMHS
4. ERSIPL/AA/795 (Fugitive Emission)	4. Near Steel Melting Shop

TEST FINDINGS:

Sl. No	Test Parameters	Test & Sampling method	Unit	Permissible Limit as per G.S.R 414 (E) dtd. 30.05.2008	Results			
					ERSIPL /AA/ 792	ERSIPL /AA/ 793	ERSIPL /AA/ 794	ERSIPL /AA/ 795
1	Suspended Particulate Matter (SPM)	ERSIPL/SOP/SPM/2023/01	µg/m ³	2000.0	208.98	209.48	216.48	212.36

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ULR-TC744023000000662F

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Pg No: 1 of 1

Date: 29 NOV 2023 Test Report No: ERSIPL/TR/AA/267

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

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

Sample Collected in presence of : Representative of the Customer.

Date of Sampling/Monitoring : 14.11.2023

Sample Received on : 20.11.2023

Analysis Started on : 20.11.2023

Analysis Completed on : 29.11.2023

Method of Sampling : As per Applicable Test Method

Quantity of Sample : 01 sample for each parameter

Weather Condition : Scattered Clouds

Atmospheric Temperature (Min/Max) : 21.0 – 29.0 °C

Atmospheric Pressure (Min/Max) : 1014-1018 mbar

Sample ID. No.

- ERSIPL/AA/895 (Fugitive Emission)
- ERSIPL/AA/896 (Fugitive Emission)
- ERSIPL/AA/897 (Fugitive Emission)
- ERSIPL/AA/898 (Fugitive Emission)

Locations

- Near Iron Ore Stock Yard
- Near Coal Stock Yard
- Near RMHS
- Near Steel Melting Shop

TEST FINDINGS:

Sl. No	Test Parameters	Test & Sampling method	Unit	Permissible Limit as per G.S.R 414 (E) dtd. 30.05.2008	Results			
					ERSIPL /AA/ 895	ERSIPL /AA/ 896	ERSIPL /AA/ 897	ERSIPL /AA/ 898
1	Suspended Particulate Matter (SPM)	ERSIPL/SOP/SPM/2023/01	µg/m ³	2000.0	210.74	203.22	209.32	207.62

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(Authorized Signatory)

S.P. Pattanayak
Tech. Manager



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ULR-TC744023000000717F

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Pg No: 1 of 1

Date: 20 DEC 2023

Test Report No: ERSIPL/TR/AA/287

Name and Address of the Customer : MSP Metalics 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 : 10.12.2023

Sample Received on : 13.12.2023

Analysis Started on : 13.12.2023

Analysis Completed on : 20.12.2023

Method of Sampling : As per Applicable Test Method

Quantity of Sample : 01 sample for each parameter

Weather Condition : Partly Sunny

Atmospheric Temperature (Min/Max) : 18.0 – 26.0 °C

Atmospheric Pressure (Min/Max) : 1013-1016 mbar

Sample ID. No.

1. ERSIPL/AA/983(Fugitive Emission)
2. ERSIPL/AA/984 (Fugitive Emission)
3. ERSIPL/AA/985 (Fugitive Emission)
4. ERSIPL/AA/986 (Fugitive Emission)

Locations

1. Near Iron Ore Stock Yard
2. Near Coal Stock Yard
3. Near RMHS
4. Near Steel Melting Shop

TEST FINDINGS:

Sl. No	Test Parameters	Test & Sampling method	Unit	Permissible Limit as per G.S.R 414 (E) dtd. 30.05.2008	Results			
					ERSIPL /AA/ 983	ERSIPL /AA/ 984	ERSIPL /AA/ 985	ERSIPL /AA/ 986
1	Suspended Particulate Matter (SPM)	ERSIPL/SOP/SPM/2023/01	µg/m ³	2000.0	199.99	202.89	202.61	195.29

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Tech. Manager



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TC-7440

ULR-TC74402400000060F

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Pg No: 1 of 1

Date: 03 FEB 2024

Test Report No: ERSIPL/TR/AA/027

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 : 27.01.2024

Sample Received on : 29.01.2024

Analysis Started on : 29.01.2024

Analysis Completed on : 02.02.2024

Method of Sampling : As per Applicable Test Method

Quantity of Sample : 01 sample for each parameter

Weather Condition : Partly Sunny/Clouds

Atmospheric Temperature (Min/Max) : 23.0 – 26.0 °C

Atmospheric Pressure (Min/Max) : 1017-1022 mbar

Sample ID. No.

1. ERSIPL/AA/76(Fugitive Emission)

2. ERSIPL/AA/77 (Fugitive Emission)

3. ERSIPL/AA/78 (Fugitive Emission)

4. ERSIPL/AA/79 (Fugitive Emission)

Locations

1. Near Iron Ore Stock Yard

2. Near Coal Stock Yard

3. Near RMHS

4. Near Steel Melting Shop

TEST FINDINGS:

Sl. No	Test Parameters	Test & Sampling method	Unit	Permissible Limit as per G.S.R 414 (E) dtd. 30.05.2008	Results			
					ERSIPL /AA/ 76	ERSIPL /AA/ 77	ERSIPL /AA/ 78	ERSIPL /AA/ 79
1	Suspended Particulate Matter (SPM)	ERSIPL/SOP/SPM/ 2023/01	µg/m ³	2000.0	200.05	198.32	205.23	205.25

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ULR-TC74402400000087F

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Pg No: 1 of 1

Date: 23 FEB 2024

Test Report No: ERSIPL/TR/AA/036

Name and Address of the Customer : Orissa Metaliks Private Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha

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

Sample Collected in presence of : Representative of the Customer.

Date of Sampling/Monitoring : 12.02.2024

Sample Received on : 15.02.2024

Analysis Started on : 15.02.2024

Analysis Completed on : 22.02.2024

Method of Sampling : As per Applicable Test Method

Quantity of Sample : 01 sample for each parameter

Weather Condition : Scattered Cloud

Atmospheric Temperature (Min/Max) : 19.0 – 26.0 °C

Atmospheric Pressure (Min/Max) : 1016-1021 mbar

Sample ID. No.

1. ERSIPL/AA/117(Fugitive Emission)
2. ERSIPL/AA/118(Fugitive Emission)
3. ERSIPL/AA/119(Fugitive Emission)
4. ERSIPL/AA/120(Fugitive Emission)

Locations

1. Near Iron Ore Stock Yard
2. Near Coal Stock Yard
3. Near RMHS
4. Near Steel Melting Shop

TEST FINDINGS:

Sl. No	Test Parameters	Test & Sampling method	Unit	Permissible Limit as per G.S.R 414 (E) dtd. 30.05.2008	Results			
					ERSIPL /AA/ 117	ERSIPL /AA/ 118	ERSIPL /AA/ 119	ERSIPL /AA/ 120
1	Suspended Particulate Matter (SPM)	ERSIPL/SOP/SPM/2023/01	µg/m ³	2000.0	200.79	201.19	199.74	204.68

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Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Pg No: 1 of 1

Date: 30 MAR 2024

Test Report No: ERSIPL/TR/AA/081

Name and Address of the Customer : Orissa Metaliks Private 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 : 21.03.2024

Sample Received on : 25.03.2024

Analysis Started on : 25.03.2024

Analysis Completed on : 30.03.2024

Method of Sampling : As per Applicable Test Method

Quantity of Sample : 01 sample for each parameter

Weather Condition : Partly Sunny

Atmospheric Temperature (Min/Max) : 19.0 – 31.0 °C

Atmospheric Pressure (Min/Max) : 1015-1019 mbar

Sample ID. No.

- ERSIPL/AA/240(Fugitive Emission)
- ERSIPL/AA/241(Fugitive Emission)
- ERSIPL/AA/242(Fugitive Emission)
- ERSIPL/AA/243(Fugitive Emission)

Locations

- Near Iron Ore Stock Yard
- Near Coal Stock Yard
- Near RMHS
- Near Steel Melting Shop

TEST FINDINGS:

Sl. No	Test Parameters	Test & Sampling method	Unit	Permissible Limit as per G.S.R 414 (E) dtd. 30.05.2008	Results			
					ERSIPL /AA/ 240	ERSIPL /AA/ 241	ERSIPL /AA/ 242	ERSIPL /AA/ 243
1	Suspended Particulate Matter (SPM)	ERSIPL/SOP/SPM/ 2023/01	µg/m ³	2000.0	199.37	205.90	201.27	203.39

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ULR-TC744023000000580F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 27 OCT 2023

Test Report No: ERSIPL/TR/WA/297

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

Date of Sampling : 08.10.2023

Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd

Sample Collected in presence of : Representative of the Customer.

Sample Received on : 13.10.2023

Analysis Started on : 13.10.2023

Analysis Completed on : 26.10.2023

Method of Sampling : As per Applicable Test Method

Quantity of Sample : 2ltrs

Type of Container : Glass Bottle, HDPE Bottle

Weather Condition : Sunny

Atmospheric temperature : 33 °C

Sample ID. No.

1. ERSIPL/WA/683
2. ERSIPL/WA/684

Locations

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

TEST FINDINGS

S. No.	Parameters Analyzed	Test Method	Unit	Result		Permissible Limit as per IS:10500, 2012
				ERSIPL/WA/683	ERSIPL/WA/684	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	No	7.11	6.77	6.5-8.5
02	Turbidity	IS 3025:Part 10: 2023	NTU	0.61	0.65	1.0
03	Total Hardness (as CaCO ₃)	IS 3025:Part 21: 2009 Reaffirmed-2019	mg/L	122.0	162.0	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	14.78	22.67	250.0
06	Total Dissolved Solids	IS 3025:Part 16: 2023	mg/L	254.5	359.4	500.0
07	Calcium (as Ca)	IS 3025:Part 40: 1991 Reaffirmed-2019	mg/L	27.25	39.28	75.0
08	Sulphate (as SO ₄)	IS 3025 (Part 24/Sec 1) : 2022	mg/L	12.46	61.72	200.0
09	Fluoride (as F)	IS 3025:Part 60: 2008 Reaffirmed-2019	mg/L	<0.1	<0.1	1.0
10	Alkalinity (as CaCO ₃)	IS 3025:Part 23: 1986 Reaffirmed-2019	mg/L	162.0	148.0	200.0

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Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 27 OCT 2023

Test Report No: ERSIPL/TR/WA/T-297

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

Date of Sampling : 08.10.2023

Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd

Sample Collected in presence of : Representative of the Customer.

Sample Received on : 13.10.2023

Analysis Started on : 13.10.2023

Analysis Completed on : 26.10.2023

Method of Sampling : As per Applicable Test Method

Quantity of Sample : 2ltrs

Type of Container : Glass Bottle, HDPE Bottle

Weather Condition : Sunny

Atmospheric temperature : 33 °C

Sample ID. No.

1. ERSIPL/WA/683

2. ERSIPL/WA/684

Locations

1. Bore Well Water- from Admin Office

2. Bore Well Water- from Mechanical Work Shop

TEST FINDINGS

Sl	Parameters Analysed	Test Method	Unit	Result		Permissible Limit as per IS:10500, 2012
				ERSIPL/WA/683	ERSIPL/WA/684	
01	Colour	IS 3025:Part 04: 1983 Reaffirmed-2021	Hazen	<5.0	<5.0	5.0
02	Odour	IS 3025:Part 05:2018	--	A	A	Agreeable (A)
03	Taste	IS 3025:Part 07,08: 1984 Reaffirmed-2017	--	A	A	Agreeable (A)
04	Nitrate as NO ₃	IS 3025:Part 34: 1983 Reaffirmed-2019	mg/L	<5.0	<5.0	45.0
05	Residual Chlorine Free	IS 3025:Part 26: 2021	mg/L	Nil	Nil	0.2 (min) When chlorinated
06	Copper	IS 3025:Part 42: 1992 Reaffirmed-2019	mg/L	ND	ND	0.05
07	Manganese	IS 3025:Part 59: 2006 Reaffirmed-2022	mg/L	ND	ND	0.1
08	Phenolic Compound	IS 3025:Part 43: 1992 Reaffirmed-2019	mg/L	ND	ND	0.001
09	Mercury	IS 3025:Part 48: 1994 Reaffirmed-2019	mg/L	ND	ND	0.001
10	Cadmium	IS 3025:Part 41: 1992 Reaffirmed-2019	mg/L	ND	ND	0.003



CIN - U73100OR1995PTC003889



GSTIN : 21AAACE6224D1ZE

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Pg No: 2 of 2

11	Selenium	IS 3025:Part 56: 2003 Reaffirmed-2019	mg/L	ND	ND	0.01
12	Total Arsenic	IS 3025:Part 37: 2022	mg/L	ND	ND	0.01
13	Cyanide	IS 3025:Part 27: 1986 Reaffirmed-2019	mg/L	ND	ND	0.05
14	Lead	IS 3025:Part 47: 1994 Reaffirmed-2019	mg/L	ND	ND	0.01
15	Zinc	IS 3025:Part 49: 1994 Reaffirmed-2019	mg/L	ND	ND	5.0
16	Anionic detergents	IS 13428 :2005 Reaffirmed-2019	mg/L	ND	ND	0.2
17	Total Chromium	IS 3025:Part 52: 2003 Reaffirmed-2019	mg/L	ND	ND	0.05
18	Polynuclear aromatic hydrocarbons	APHA 6440	mg/L	ND	ND	0.0001
19	Mineral Oil	IS 3025:Part 39: 2021	mg/L	ND	ND	0.5
20	Pesticides	USEPA gas-liquid chromatography	mg/L	ND	ND	---
21	Aluminium	IS 3025:Part 55: 2003 Reaffirmed-2019	mg/L	ND	ND	0.03
22	Boron	IS 3025:Part 57: 2021	mg/L	ND	ND	0.5
23	Nickel	IS 3025:Part 54: 2003 Reaffirmed-2019	mg/L	ND	ND	0.02

ND-Not Detected


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

...END OF TEST REPORT...



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ULR-TC744023000000668F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 29 NOV 2023

Test Report No: ERSIPL/TR/WA/342

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

Date of Sampling : 13.11.2023

Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd

Sample Collected in presence of : Representative of the Customer.

Sample Received on : 20.11.2023

Analysis Started on : 20.11.2023

Analysis Completed on : 29.11.2023

Method of Sampling : As per Applicable Test Method

Quantity of Sample : 2ltrs

Type of Container : Glass Bottle, HDPE Bottle

Weather Condition : Sunny

Atmospheric temperature : 30 °C

Sample ID. No.

1. ERSIPL/WA/795
2. ERSIPL/WA/796

Locations

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

TEST FINDINGS

S. No.	Parameters Analyzed	Test Method	Unit	Result		Permissible Limit as per IS:10500, 2012
				ERSIPL/WA/795	ERSIPL/WA/796	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	No	7.05	6.83	6.5-8.5
02	Turbidity	IS 3025:Part 10: 2023	NTU	0.52	0.57	1.0
03	Total Hardness (as CaCO ₃)	IS 3025:Part 21: 2009 Reaffirmed-2019	mg/L	124.0	164.0	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	16.75	24.64	250.0
06	Total Dissolved Solids	IS 3025:Part 16: 2023	mg/L	257.8	363.4	500.0
07	Calcium (as Ca)	IS 3025:Part 40: 1991 Reaffirmed-2019	mg/L	28.86	40.08	75.0
08	Sulphate (as SO ₄)	IS 3025 (Part 24/Sec 1) : 2022	mg/L	13.36	59.18	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	164.0	150.0	200.0

Note-

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



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Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 29 NOV 2023

Test Report No: ERSIPL/TR/WA/T-342

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

Date of Sampling : 13.11.2023

Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd

Sample Collected in presence of : Representative of the Customer.

Sample Received on : 20.11.2023

Analysis Started on : 20.11.2023

Analysis Completed on : 29.11.2023

Method of Sampling : As per Applicable Test Method

Quantity of Sample : 2ltrs

Type of Container : Glass Bottle, HDPE Bottle

Weather Condition : Sunny

Atmospheric temperature : 30 °C

Sample ID. No.

1. ERSIPL/WA/795
2. ERSIPL/WA/796

Locations

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

TEST FINDINGS

Sl	Parameters Analysed	Test Method	Unit	Result		Permissible Limit as per IS:10500, 2012
				ERSIPL/WA/795	ERSIPL/WA/796	
01	Colour	IS 3025:Part 04: 1983 Reaffirmed-2021	Hazen	<5.0	<5.0	5.0
02	Odour	IS 3025:Part 05:2018	--	A	A	Agreeable (A)
03	Taste	IS 3025:Part 07,08: 1984 Reaffirmed-2017	--	A	A	Agreeable (A)
04	Nitrate as NO ₃	IS 3025:Part 34: 1983 Reaffirmed-2019	mg/L	<5.0	<5.0	45.0
05	Residual Chlorine Free	IS 3025:Part 26: 2021	mg/L	Nil	Nil	0.2 (min) When chlorinated
06	Copper	IS 3025:Part 42: 1992 Reaffirmed-2019	mg/L	ND	ND	0.05
07	Manganese	IS 3025:Part 59: 2006 Reaffirmed-2022	mg/L	ND	ND	0.1
08	Phenolic Compound	IS 3025:Part 43: 1992 Reaffirmed-2019	mg/L	ND	ND	0.001
09	Mercury	IS 3025:Part 48: 1994 Reaffirmed-2019	mg/L	ND	ND	0.001
10	Cadmium	IS 3025:Part 41: 1992 Reaffirmed-2019	mg/L	ND	ND	0.003



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Pg No: 2 of 2

11	Selenium	IS 3025:Part 56: 2003 Reaffirmed-2019	mg/L	ND	ND	0.01
12	Total Arsenic	IS 3025:Part 37: 2022	mg/L	ND	ND	0.01
13	Cyanide	IS 3025:Part 27: 1986 Reaffirmed-2019	mg/L	ND	ND	0.05
14	Lead	IS 3025:Part 47: 1994 Reaffirmed-2019	mg/L	ND	ND	0.01
15	Zinc	IS 3025:Part 49: 1994 Reaffirmed-2019	mg/L	ND	ND	5.0
16	Anionic detergents	IS 13428:2005 Reaffirmed-2019	mg/L	ND	ND	0.2
17	Total Chromium	IS 3025:Part 52: 2003 Reaffirmed-2019	mg/L	ND	ND	0.05
18	Polynuclear aromatic hydrocarbons	APHA 6440	mg/L	ND	ND	0.0001
19	Mineral Oil	IS 3025:Part 39: 2021	mg/L	ND	ND	0.5
20	Pesticides	USEPA gas-liquid chromatography	mg/L	ND	ND	---
21	Aluminium	IS 3025:Part 55: 2003 Reaffirmed-2019	mg/L	ND	ND	0.03
22	Boron	IS 3025:Part 57: 2021	mg/L	ND	ND	0.5
23	Nickel	IS 3025:Part 54: 2003 Reaffirmed-2019	mg/L	ND	ND	0.02

ND-Not Detected

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

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ULR-TC744023000000723F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 20 DEC 2023

Test Report No: ERSIPL/TR/WA/368

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

Date of Sampling : 10.12.2023

Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd

Sample Collected in presence of : Representative of the Customer.

Sample Received on : 13.12.2023

Analysis Started on : 13.12.2023

Analysis Completed on : 20.12.2023

Method of Sampling : As per Applicable Test Method

Quantity of Sample : 2ltrs

Type of Container : Glass Bottle, HDPE Bottle

Weather Condition : Partly Sunny

Atmospheric temperature : 22 °C

Sample ID. No.

1. ERSIPL/WA/855
2. ERSIPL/WA/856

Locations

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

TEST FINDINGS

S. No.	Parameters Analyzed	Test Method	Unit	Result		Permissible Limit as per IS:10500, 2012
				ERSIPL/WA/855	ERSIPL/WA/856	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	No	7.06	6.85	6.5-8.5
02	Turbidity	IS 3025:Part 10: 2023	NTU	0.31	0.37	1.0
03	Total Hardness (as CaCO ₃)	IS 3025:Part 21: 2009 Reaffirmed-2019	mg/L	128.0	168.0	200.0
04	Iron (as Fe)	IS 3025:Part 53: 2003 Reaffirmed-2019	mg/L	0.05	0.06	0.30
05	Chloride (as Cl)	IS 3025:Part 32: 1988 Reaffirmed-2019	mg/L	14.78	20.67	250.0
06	Total Dissolved Solids	IS 3025:Part 16: 2023	mg/L	255.5	364.4	500.0
07	Calcium (as Ca)	IS 3025:Part 40: 1991 Reaffirmed-2019	mg/L	29.66	41.68	75.0
08	Sulphate (as SO ₄)	IS 3025 (Part 24/Sec 1) : 2022	mg/L	14.10	42.31	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	170.0	152.0	200.0

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



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Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 20 DEC 2023

Test Report No: ERSIPL/TR/WA/T-368

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

Date of Sampling : 10.12.2023

Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd

Sample Collected in presence of : Representative of the Customer.

Sample Received on : 13.12.2023

Analysis Started on : 13.12.2023

Analysis Completed on : 20.12.2023

Method of Sampling : As per Applicable Test Method

Quantity of Sample : 2ltrs

Type of Container : Glass Bottle, HDPE Bottle

Weather Condition : Partly Sunny

Atmospheric temperature : 22 °C

Sample ID. No.

1. ERSIPL/WA/855

2. ERSIPL/WA/856

Locations

1. Bore Well Water- near Admin Office

2. Bore Well Water- near Mechanical Work Shop

TEST FINDINGS

Sl	Parameters Analysed	Test Method	Unit	Result		Permissible Limit as per IS:10500, 2012
				ERSIPL/WA/855	ERSIPL/WA/856	
01	Colour	IS 3025:Part 04: 1983 Reaffirmed-2021	Hazen	<5.0	<5.0	5.0
02	Odour	IS 3025:Part 05:2018	—	A	A	Agreeable (A)
03	Taste	IS 3025:Part 07,08: 1984 Reaffirmed-2017	—	A	A	Agreeable (A)
04	Nitrate as NO ₃	IS 3025:Part 34: 1983 Reaffirmed-2019	mg/L	<5.0	<5.0	45.0
05	Residual Chlorine Free	IS 3025:Part 26: 2021	mg/L	Nil	Nil	0.2 (min) When chlorinated
06	Copper	IS 3025:Part 42: 1992 Reaffirmed-2019	mg/L	ND	ND	0.05
07	Manganese	IS 3025:Part 59: 2006 Reaffirmed-2022	mg/L	ND	ND	0.1
08	Phenolic Compound	IS 3025:Part 43: 1992 Reaffirmed-2019	mg/L	ND	ND	0.001
09	Mercury	IS 3025:Part 48: 1994 Reaffirmed-2019	mg/L	ND	ND	0.001
10	Cadmium	IS 3025:Part 41: 1992 Reaffirmed-2019	mg/L	ND	ND	0.003



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Pg No: 2 of 2

11	Selenium	IS 3025:Part 56: 2003 Reaffirmed-2019	mg/L	ND	ND	0.01
12	Total Arsenic	IS 3025:Part 37: 2022	mg/L	ND	ND	0.01
13	Cyanide	IS 3025:Part 27: 1986 Reaffirmed-2019	mg/L	ND	ND	0.05
14	Lead	IS 3025:Part 47: 1994 Reaffirmed-2019	mg/L	ND	ND	0.01
15	Zinc	IS 3025:Part 49: 1994 Reaffirmed-2019	mg/L	ND	ND	5.0
16	Anionic detergents	IS 13428 :2005 Reaffirmed-2019	mg/L	ND	ND	0.2
17	Total Chromium	IS 3025:Part 52: 2003 Reaffirmed-2019	mg/L	ND	ND	0.05
18	Polynuclear aromatic hydrocarbons	APHA 6440	mg/L	ND	ND	0.0001
19	Mineral Oil	IS 3025:Part 39: 2021	mg/L	ND	ND	0.5
20	Pesticides	USEPA gas-liquid chromatography	mg/L	ND	ND	---
21	Aluminium	IS 3025:Part 55: 2003 Reaffirmed-2019	mg/L	ND	ND	0.03
22	Boron	IS 3025:Part 57: 2021	% mg/L	ND	ND	0.5
23	Nickel	IS 3025:Part 54: 2003 Reaffirmed-2019	mg/L	ND	ND	0.02

ND-Not Detected

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

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



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ULR-TC744024000000065F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 03 FEB 2024

Test Report No: ERSIPL/TR/WA/032

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

Date of Sampling : 26.01.2024

Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd

Sample Collected in presence of : Representative of the Customer.

Sample Received on : 29.01.2024

Analysis Started on : 29.01.2024

Analysis Completed on : 02.02.2024

Method of Sampling : As per Applicable Test Method

Quantity of Sample : 2ltrs

Type of Container : Glass Bottle, HDPE Bottle

Weather Condition : Sunny

Atmospheric temperature : 24 °C

Sample ID. No.

1. ERSIPL/WA/60
2. ERSIPL/WA/61

Locations

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

TEST FINDINGS

S. No.	Parameters Analyzed	Test Method	Unit	Result		Permissible Limit as per IS:10500, 2012
				ERSIPL/WA/60	ERSIPL/WA/61	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	No	7.11	6.94	6.5-8.5
02	Turbidity	IS 3025:Part 10: 2023	NTU	0.39	0.42	1.0
03	Total Hardness (as CaCO ₃)	IS 3025:Part 21: 2009 Reaffirmed-2019	mg/L	126.0	164.0	200.0
04	Iron (as Fe)	IS 3025:Part 53: 2003 Reaffirmed-2019	mg/L	0.07	0.07	0.30
05	Chloride (as Cl)	IS 3025:Part 32: 1988 Reaffirmed-2019	mg/L	15.77	24.64	250.0
06	Total Dissolved Solids	IS 3025:Part 16: 2023	mg/L	248.5	357.7	500.0
07	Calcium (as Ca)	IS 3025:Part 40: 1991 Reaffirmed-2019	mg/L	28.06	40.08	75.0
08	Sulphate (as SO ₄)	IS 3025 (Part 24/Sec 1) : 2022	mg/L	13.36	41.87	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	168.0	150.0	200.0

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(Authorized Signatory)

S.P.Pattanayak

Team Manager



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Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 03 FEB 2024

Test Report No: ERSIPL/TR/WA/T-032

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

Date of Sampling : 26.01.2024

Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd

Sample Collected in presence of : Representative of the Customer.

Sample Received on : 29.01.2024

Analysis Started on : 29.01.2024

Analysis Completed on : 02.02.2024

Method of Sampling : As per Applicable Test Method

Quantity of Sample : 2ltrs

Type of Container : Glass Bottle, HDPE Bottle

Weather Condition : Sunny

Atmospheric temperature : 24 °C

Sample ID. No.

1. ERSIPL/WA/60

2. ERSIPL/WA/61

Locations

1. Bore Well Water- near Admin Office

2. Bore Well Water- near Mechanical Work Shop

TEST FINDINGS

Sl	Parameters Analysed	Test Method	Unit	Result		Permissible Limit as per IS:10500, 2012
				ERSIPL/WA/60	ERSIPL/WA/61	
01	Colour	IS 3025:Part 04: 1983 Reaffirmed-2021	Hazen	<5.0	<5.0	5.0
02	Odour	IS 3025:Part 05:2018	--	A	A	Agreeable (A)
03	Taste	IS 3025:Part 07,08: 1984 Reaffirmed-2017	--	A	A	Agreeable (A)
04	Nitrate as NO ₃	IS 3025:Part 34: 1983 Reaffirmed-2019	mg/L	<5.0	<5.0	45.0
05	Residual Chlorine Free	IS 3025:Part 26: 2021	mg/L	Nil	Nil	0.2 (min) When chlorinated
06	Copper	IS 3025:Part 42: 1992 Reaffirmed-2019	mg/L	ND	ND	0.05
07	Manganese	IS 3025:Part 59: 2006 Reaffirmed-2022	mg/L	ND	ND	0.1
08	Phenolic Compound	IS 3025:Part 43: 1992 Reaffirmed-2019	mg/L	ND	ND	0.001
09	Mercury	IS 3025:Part 48: 1994 Reaffirmed-2019	mg/L	ND	ND	0.001
10	Cadmium	IS 3025:Part 41: 1992 Reaffirmed-2019	mg/L	ND	ND	0.003



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Pg No: 2 of 2

11	Selenium	IS 3025:Part 56: 2003 Reaffirmed-2019	mg/L	ND	ND	0.01
12	Total Arsenic	IS 3025:Part 37: 2022	mg/L	ND	ND	0.01
13	Cyanide	IS 3025:Part 27: 1986 Reaffirmed-2019	mg/L	ND	ND	0.05
14	Lead	IS 3025:Part 47: 1994 Reaffirmed-2019	mg/L	ND	ND	0.01
15	Zinc	IS 3025:Part 49: 1994 Reaffirmed-2019	mg/L	ND	ND	5.0
16	Anionic detergents	IS 13428 :2005 Reaffirmed-2019	mg/L	ND	ND	0.2
17	Total Chromium	IS 3025:Part 52: 2003 Reaffirmed-2019	mg/L	ND	ND	0.05
18	Polynuclear aromatic hydrocarbons	APHA 6440	mg/L	ND	ND	0.0001
19	Mineral Oil	IS 3025:Part 39: 2021	mg/L	ND	ND	0.5
20	Pesticides	USEPA gas-liquid chromatography	mg/L	ND	ND	—
21	Aluminium	IS 3025:Part 55: 2003 Reaffirmed-2019	mg/L	ND	ND	0.03
22	Boron	IS 3025:Part 57: 2021	mg/L	ND	ND	0.5
23	Nickel	IS 3025:Part 54: 2003 Reaffirmed-2019	mg/L	ND	ND	0.02

ND-Not Detected

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

.....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-TC744024000000093F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 23 FEB 2024

Test Report No: ERSIPL/TR/WA/047

Name and Address of the Customer : Orissa Metaliks Private Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha

Date of Sampling : 11.02.2024

Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd

Sample Collected in presence of : Representative of the Customer.

Sample Received on : 15.02.2024

Analysis Started on : 15.02.2024

Analysis Completed on : 22.02.2024

Method of Sampling : As per Applicable Test Method

Quantity of Sample : 2ltrs

Type of Container : Glass Bottle, HDPE Bottle

Weather Condition : Sunny

Atmospheric temperature : 25 °C

Sample ID. No.

1. ERSIPL/WA/99
2. ERSIPL/WA/100

Locations

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

TEST FINDINGS

S. No.	Parameters Analyzed	Test Method	Unit	Result		Permissible Limit as per IS:10500, 2012
				ERSIPL/WA/99	ERSIPL/WA/100	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	No	6.95	6.87	6.5-8.5
02	Turbidity	IS 3025:Part 10: 2023	NTU	0.36	0.42	1.0
03	Total Hardness (as CaCO ₃)	IS 3025:Part 21: 2009 Reaffirmed-2019	mg/L	122.0	160.0	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	19.71	28.58	250.0
06	Total Dissolved Solids	IS 3025:Part 16: 2023	mg/L	237.5	341.2	500.0
07	Calcium (as Ca)	IS 3025:Part 40: 1991 Reaffirmed-2019	mg/L	27.25	38.48	75.0
08	Sulphate (as SO ₄)	IS 3025 (Part 24/Sec 1) : 2022	mg/L	11.42	35.45	200.0
09	Fluoride (as F)	IS 3025:Part 60: 2008 Reaffirmed-2019	mg/L	<0.1	<0.1	1.0
10	Alkalinity (as CaCO ₃)	IS 3025:Part 23: 1986 Reaffirmed-2019	mg/L	162.0	142.0	200.0

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

(Authorized Signatory)

S.P.Pattanayak
Tech. Manager



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: 23 FEB 2024

Test Report No: ERSIPL/TR/WA/T-047

Name and Address of the Customer : Orissa Metaliks Private Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha

Date of Sampling : 11.02.2024

Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd

Sample Collected in presence of : Representative of the Customer.

Sample Received on : 15.02.2024

Analysis Started on : 15.02.2024

Analysis Completed on : 22.02.2024

Method of Sampling : As per Applicable Test Method

Quantity of Sample : 2ltrs

Type of Container : Glass Bottle, HDPE Bottle

Weather Condition : Sunny

Atmospheric temperature : 25 °C

Sample ID. No.

1. ERSIPL/WA/99
2. ERSIPL/WA/100

Locations

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

TEST FINDINGS

Sl	Parameters Analysed	Test Method	Unit	Result		Permissible Limit as per IS:10500, 2012
				ERSIPL/WA/99	ERSIPL/WA/100	
01	Colour	IS 3025:Part 04: 1983 Reaffirmed-2021	Hazen	<5.0	<5.0	5.0
02	Odour	IS 3025:Part 05:2018	--	A	A	Agreeable (A)
03	Taste	IS 3025:Part 07,08: 1984 Reaffirmed-2017	--	A	A	Agreeable (A)
04	Nitrate as NO ₃	IS 3025:Part 34: 1983 Reaffirmed-2019	mg/L	<5.0	<5.0	45.0
05	Residual Chlorine Free	IS 3025:Part 26: 2021	mg/L	Nil	Nil	0.2 (min) When chlorinated
06	Copper	IS 3025:Part 42: 1992 Reaffirmed-2019	mg/L	ND	ND	0.05
07	Manganese	IS 3025:Part 59: 2006 Reaffirmed-2022	mg/L	ND	ND	0.1
08	Phenolic Compound	IS 3025:Part 43: 1992 Reaffirmed-2019	mg/L	ND	ND	0.001
09	Mercury	IS 3025:Part 48: 1994 Reaffirmed-2019	mg/L	ND	ND	0.001
10	Cadmium	IS 3025:Part 41: 1992 Reaffirmed-2019	mg/L	ND	ND	0.003



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Pg No: 2 of 2

11	Selenium	IS 3025:Part 56: 2003 Reaffirmed-2019	mg/L	ND	ND	0.01
12	Total Arsenic	IS 3025:Part 37: 2022	mg/L	ND	ND	0.01
13	Cyanide	IS 3025:Part 27: 1986 Reaffirmed-2019	mg/L	ND	ND	0.05
14	Lead	IS 3025:Part 47: 1994 Reaffirmed-2019	mg/L	ND	ND	0.01
15	Zinc	IS 3025:Part 49: 1994 Reaffirmed-2019	mg/L	ND	ND	5.0
16	Anionic detergents	IS 13428 :2005 Reaffirmed-2019	mg/L	ND	ND	0.2
17	Total Chromium	IS 3025:Part 52: 2003 Reaffirmed-2019	mg/L	ND	ND	0.05
18	Polynuclear aromatic hydrocarbons	APHA 6440	mg/L	ND	ND	0.0001
19	Mineral Oil	IS 3025:Part 39: 2021	mg/L	ND	ND	0.5
20	Pesticides	USEPA gas-liquid chromatography	mg/L	ND	ND	---
21	Aluminium	IS 3025:Part 55: 2003 Reaffirmed-2019	mg/L	ND	ND	0.03
22	Boron	IS 3025:Part 57: 2021	mg/L	ND	ND	0.5
23	Nickel	IS 3025:Part 54: 2003 Reaffirmed-2019	mg/L	ND	ND	0.02

ND-Not Detected

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

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



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ULR-TC744024000000197F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 30 MAR 2024

Test Report No: ERSIPL/TR/WA/099

Name and Address of the Customer : Orissa Metaliks Private Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha

Date of Sampling : 20.03.2024

Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd

Sample Collected in presence of : Representative of the Customer.

Sample Received on : 25.03.2024

Analysis Started on : 25.03.2024

Analysis Completed on : 30.03.2024

Method of Sampling : As per Applicable Test Method

Quantity of Sample : 2ltrs

Type of Container : Glass Bottle, HDPE Bottle

Weather Condition : Overcast

Atmospheric temperature : 26 °C

Sample ID. No.

1. ERSIPL/WA/219
2. ERSIPL/WA/220

Locations

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

TEST FINDINGS

S. No.	Parameters Analyzed	Test Method	Unit	Result		Permissible Limit as per IS:10500, 2012
				ERSIPL/WA/219	ERSIPL/WA/220	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	No	6.92	6.84	6.5-8.5
02	Turbidity	IS 3025:Part 10: 2023	NTU	0.36	0.42	1.0
03	Total Hardness (as CaCO ₃)	IS 3025:Part 21: 2009 Reaffirmed-2019	mg/L	124.0	158.0	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	20.70	27.59	250.0
06	Total Dissolved Solids	IS 3025:Part 16: 2023	mg/L	234.8	239.6	500.0
07	Calcium (as Ca)	IS 3025:Part 40: 1991 Reaffirmed-2019	mg/L	28.06	37.68	75.0
08	Sulphate (as SO ₄)	IS 3025 (Part 24/Sec 1) : 2022	mg/L	10.97	34.25	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	164.0	140.0	200.0

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(Authorized Signatory)

S.P. Pattnaik



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Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 30 MAR 2024

Test Report No: ERSIPL/TR/WA/T-099

Name and Address of the Customer : Orissa Metaliks Private Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha

Date of Sampling : 20.03.2024

Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd

Sample Collected in presence of : Representative of the Customer.

Sample Received on : 25.03.2024

Analysis Started on : 25.03.2024

Analysis Completed on : 30.03.2024

Method of Sampling : As per Applicable Test Method

Quantity of Sample : 2ltrs

Type of Container : Glass Bottle, HDPE Bottle

Weather Condition : Overcast

Atmospheric temperature : 26 °C

Sample ID. No.

1. ERSIPL/WA/219

2. ERSIPL/WA/220

Locations

1. Bore Well Water- near Admin Office

2. Bore Well Water- near Mechanical Work Shop

TEST FINDINGS

Sl	Parameters Analysed	Test Method	Unit	Result		Permissible Limit as per IS:10500, 2012
				ERSIPL/WA/219	ERSIPL/WA/220	
01	Colour	IS 3025:Part 04: 1983 Reaffirmed-2021	Hazen	<5.0	<5.0	5.0
02	Odour	IS 3025:Part 05:2018	--	A	A	Agreeable (A)
03	Taste	IS 3025:Part 07,08: 1984 Reaffirmed-2017	--	A	A	Agreeable (A)
04	Nitrate as NO ₃	IS 3025:Part 34: 1983 Reaffirmed-2019	mg/L	<5.0	<5.0	45.0
05	Residual Chlorine Free	IS 3025:Part 26: 2021	mg/L	Nil	Nil	0.2 (min) When chlorinated
06	Copper	IS 3025:Part 42: 1992 Reaffirmed-2019	mg/L	ND	ND	0.05
07	Manganese	IS 3025:Part 59: 2006 Reaffirmed-2022	mg/L	ND	ND	0.1
08	Phenolic Compound	IS 3025:Part 43: 1992 Reaffirmed-2019	mg/L	ND	ND	0.001
09	Mercury	IS 3025:Part 48: 1994 Reaffirmed-2019	mg/L	ND	ND	0.001
10	Cadmium	IS 3025:Part 41: 1992 Reaffirmed-2019	mg/L	ND	ND	0.003



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

Pg No: 2 of 2

11	Selenium	IS 3025:Part 56: 2003 Reaffirmed-2019	mg/L	ND	ND	0.01
12	Total Arsenic	IS 3025:Part 37: 2022	mg/L	ND	ND	0.01
13	Cyanide	IS 3025:Part 27: 1986 Reaffirmed-2019	mg/L	ND	ND	0.05
14	Lead	IS 3025:Part 47: 1994 Reaffirmed-2019	mg/L	ND	ND	0.01
15	Zinc	IS 3025:Part 49: 1994 Reaffirmed-2019	mg/L	ND	ND	5.0
16	Anionic detergents	IS 13428 :2005 Reaffirmed-2019	mg/L	ND	ND	0.2
17	Total Chromium	IS 3025:Part 52: 2003 Reaffirmed-2019	mg/L	ND	ND	0.05
18	Polynuclear aromatic hydrocarbons	APHA 6440	mg/L	ND	ND	0.0001
19	Mineral Oil	IS 3025:Part 39: 2021	mg/L	ND	ND	0.5
20	Pesticides	USEPA gas-liquid chromatography	mg/L	ND	ND	---
21	Aluminium	IS 3025:Part 55: 2003 Reaffirmed-2019	mg/L	ND	ND	0.03
22	Boron	IS 3025:Part 57: 2021	mg/L	ND	ND	0.5
23	Nickel	IS 3025:Part 54: 2003 Reaffirmed-2019	mg/L	ND	ND	0.02

ND-Not Detected

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

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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/OMPL/200124SL1

Issued Date-20.01.2024

TCLP TEST RESULT

Name & Address of the Client	M/s Orissa Metaliks Private Limited (Formerly M/s MSP Metaliks Limited), at Village - Marakuta, District - Jharsuguda, Orissa
Reference No.	CEMC200124SL1
Nature of Sampling	SMS Slag Sample
Sampling By	Client's representative
Sampling Date	12.01.2024
Date of Sample Receiving	13.01.2024
Date of Analysis	13.01.2024 to 19.01.2024

PARAMETERS	UNIT	RESULT	STANDARD AS PER HWM SCHEDULE-II
Arsenic (as As)	mg/ltr	<0.01	5.0
Mercury (as Hg)	mg/ltr	<0.001	0.2
Lead (as Pb)	mg/ltr	0.76	5.0
Chromium (VI)	mg/ltr	0.25	5.0
Total Chromium (as Cr)	mg/ltr	0.68	5.0
Nickel (as Ni)	mg/ltr	0.89	20
Zinc (as Zn)	mg/ltr	1.05	250
Selenium (as Se)	mg/ltr	0.06	1.0
Manganese (as Mn)	mg/ltr	0.97	10.0
Beryllium (as Be)	mg/ltr	0.03	0.75
Cobalt (as Co)	mg/ltr	0.27	80.0
Copper (as Cu)	mg/ltr	0.50	25.0
Molybdenum (as Mo)	mg/ltr	0.07	350.0
Antimony (as Sb)	mg/ltr	<0.01	15.0
Vanadium (as V)	mg/ltr	0.03	24.0
Fluoride (as F)	mg/ltr	0.80	180.0
Silver (as Ag)	mg/ltr	0.65	5.0
Barium (as Ba)	mg/ltr	1.03	100.0
Cadmium (as Cd)	mg/ltr	0.71	1.0
Cyanide (as Cn)	mg/ltr	<0.1	20.0


Authorized Signatory

Notes:

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- 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.



Seal of 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



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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/OMPL/200124SL2

Issued Date-20.01.2024

TCLP TEST RESULT

Name & Address of the Client	M/s Orissa Metaliks Private Limited (Formerly M/s MSP Metaliks Limited), at Village - Marakuta, District - Jharsuguda, Orissa
Reference No.	CEMC200124SL2
Nature of Sampling	MBF Slag Sample
Sampling By	Client's representative
Sampling Date	12.01.2024
Date of Sample Receiving	13.01.2024
Date of Analysis	13.01.2024 to 19.01.2024

PARAMETERS	UNIT	RESULT	STANDARD AS PER HWM SCHEDULE-II
Arsenic (as As)	mg/ltr	<0.01	5.0
Mercury (as Hg)	mg/ltr	<0.001	0.2
Lead (as Pb)	mg/ltr	0.67	5.0
Chromium (VI)	mg/ltr	0.27	5.0
Total Chromium (as Cr)	mg/ltr	0.55	5.0
Nickel (as Ni)	mg/ltr	0.76	20
Zinc (as Zn)	mg/ltr	0.75	250
Selenium (as Se)	mg/ltr	0.05	1.0
Manganese (as Mn)	mg/ltr	0.85	10.0
Beryllium (as Be)	mg/ltr	0.024	0.75
Cobalt (as Co)	mg/ltr	0.26	80.0
Copper (as Cu)	mg/ltr	0.45	25.0
Molybdenum (as Mo)	mg/ltr	0.035	350.0
Antimony (as Sb)	mg/ltr	<0.01	15.0
Vanadium (as V)	mg/ltr	0.03	24.0
Fluoride (as F)	mg/ltr	0.75	180.0
Silver (as Ag)	mg/ltr	0.50	5.0
Barium (as Ba)	mg/ltr	0.85	100.0
Cadmium (as Cd)	mg/ltr	0.68	1.0
Cyanide (as Cn)	mg/ltr	<0.1	20.0


Authorized Signatory

Notes:

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Seal of 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

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

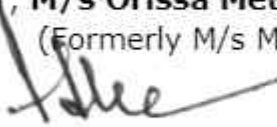
1 a)	Name of the Project :	Expansion of integrated steel plant, Sponge Iron (10,50,000 TPA); Pig Iron (10,60,000 TPA); Pellet Plant (6,00,000, TPA); Steel Melting Shop (10,50,000 TPA); Captive Power Plant (85 MW); Coal Washery (15,00,000 TPA) and Coke Oven Battery (6,00,000 TPA) at Village Marakuta, District - Jharsuguda, Orissa by M/s Orissa Metaliks Private Limited (Formerly MSP Metallics Limited)
1 b)	Environment Clearance Nos. :	<ol style="list-style-type: none"> 1. Environmental Clearance accorded vide F. No. J-11011/494/2007-IA-II (I) dated 13th July 2009. 2. Recommendation of the 4th Reconstituted Expert Appraisal Committee (Industry-1) MoEF&CC, New Delhi in its meeting held on 26th & 27th October 2009 for change in plant configuration and capacity. 3. Transfer of Environment Clearance vide File No: J-11011/494/2007-IA.II(I) dated 23.10.2023 (EC Identification No. EC23A1001OR5864822T).
2	Location, Block/ Sub. Divn. / Dist/ State:	Village - Marakuta, District - Jharsuguda, Odisha
3	Address for communication :	1, Garstin Place, Orbit House, 3 rd Floor, Room No. - 3B, Kolkata - 700 001, West Bengal
4	Existing vegetation in the area/ region	Industrial land
	a) Species (trees/shrubs/grasses/climbers)	Vacant land
	b) Major prevalent species of each type	Not Applicable
5	Land coverage by the project	
	a) Total area under the project	103.82 Hectares (256.54 Acres)
	b) Area covered for basic infrastructure (roads/building/factory etc.)	27.15 Hecatres (67.09 acres)
6	Details about natural vegetation	
	a) Name and number of tree/species felled	NA
	b) Name and number of plant species still available in the area	NA
	c) By protecting the area will indigenous stock come up	NA
	d) Extent of greenbelt developed	34.26 hectares i.e., 33.0% areas of total plant

	(till September 2023)	premises
7	Plantations required to be carried out as per	
	a	Conditions of Environmental Clearance in ha./ Nos. 33%
	b	Conditions for Forest act (c) clearance in ha./ Nos. Not Applicable
	c	Voluntarily in acres (truck parking area etc.) -
d	Voluntarily in no. for green belt development in nearby area -	
8	Details of plantations	

A	Plantation details (category wise & methodology used)	Year of plantation	
	Survival of plantation	FY 2022-2023	FY 2023-24
	- Total Seedling/Plantation (No.)	-	15,000
	b	- Survival Trees (No) as on date from date of EC	51,980
	- Survival	-	95.0%
9.	Future Plan on Green Belt development	Existing Greenbelt/plantation is being/will be strengthened and to minimize the impact on human and sensitive manmade structure tree density of the existing greenbelt will be increased to at least 2500 trees per hectare as per CPCB guideline.	
10.	Agency carrying out plantation and maintenance	Our own horticulture department & third party	

With sincere regards,

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



(J. P. Sharma)

Executive Director (Works)



**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.	<p>Coke Oven Plants</p> <ul style="list-style-type: none"> 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. 	<p>The existing non-recovery type coke oven plant is installed and works under negative pressure.</p>
2.	<p>Steel melting shop To reduce the fugitive emissions</p>	<p>OMPL has installed spark arrestor system and reverse bag filter of sufficient capacity and is connected to MS stack of 35 m height for better dispersion of pollutant. The stacks are connected with OCEMS (PM).</p>
3.	<p>Blast Furnace Direct inject of reducing agents.</p>	<p>Presently the Blast furnace is in operation. Direct injection of reducing agents is ensured during operation of blast furnace.</p>
4.	<p>Solid waste/Hazardous Waste management Utilisation of Steel Melting Shop (SMS)/ Blast Furnace (BF) Slag.</p>	<p>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.</p>
5.	<p>Water conservation/water pollution</p> <ul style="list-style-type: none"> To reduce specific water consumption for long products. 	<p>Not applicable.</p> <ul style="list-style-type: none"> A neutralizing pit and effluent collection sump (called common monitoring basin) has

S. No.	Recommendation	Plan for Implementation
	<ul style="list-style-type: none"> To operate CO-BP effluent treatment plant efficiently to achieve the notified effluent discharge standards. 	<p>been installed for treating & reusing the effluent generated.</p>
6.	<p>Installation of Continuous Stack Monitoring system and its calibration in major stacks and setting up of the online ambient air quality monitoring stations.</p>	<p>The company has successfully installed online Stack monitoring in existing operation stacks. 04 Nos. Online continuous air quality monitoring stations have already been installed after getting site approval from OSPCB. (PM₁₀, PM_{2.5}, SO₂, NO₂, CO).</p>
7.	<p>To operate the existing pollution control equipment efficiently and to keep proper record of run hours, failure time and efficiency with immediate effect. Compliance report in this regard be submitted to CPCB/SPCB.</p>	<p>Existing pollution control equipment are being operated efficiently and regular record maintained. The records will be submitted to the SPCB at regular intervals.</p>
8.	<p>To implement the recommendations of Life Cycle Assessment (LCA) study sponsored by MoEF.</p>	<p>The recommendations of MoEFCC shall be implemented on complete installation of all the plant facilities.</p>
9.	<p>The industry will initiate the steps to adopt the following clean technologies/measures to improve the performance of industry towards production, energy and environment.</p>	-
	<p>➤ Energy recovery of top Blast Furnace (BF) gas.</p>	<p>Blast furnace gas will be recovered through BF Stove Gas Recovery System and consumed in Sinter & Pellet plant.</p>
	<p>➤ Use of Tar-free runner linings.</p>	<p>Fire clay bricks are in use for the runners.</p>
	<p>➤ De-dusting of Cast House at tap holes, runners, skimmers ladle and charging points.</p>	<p>De dusting units shall be operational at various locations in cast house.</p>
	<p>➤ Suppression of fugitive emissions using nitrogen gas or other inert</p>	<p>This shall be carried out in the applicable equipment.</p>

S. No.	Recommendation	Plan for Implementation
	gas.	
	<ul style="list-style-type: none"> ➤ 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. 	<p>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 levelling after recovering valuable metal from slag crushing unit.</p>
	<ul style="list-style-type: none"> ➤ Processing of the waste containing flux & ferrous wastes through waste recycling plant. 	<p>A modern State of Art of Technology of Sinter Plant has been installed for reuse of waste materials. Maximum Generated Solid wastes is reused in different units such as pellet dusts is used in Sinter Plant, Granulated MBF slag will be used in Cement Plant, Dust from Sinter plant re used in Sinter plant.</p>
	<ul style="list-style-type: none"> ➤ To implement rainwater harvesting. 	<p>Rainwater harvesting pond has been constructed in existing plant.</p>
	<ul style="list-style-type: none"> ➤ Reduction of Green House Gases by: <ol style="list-style-type: none"> 1. Reduction in power consumption 2. Use of by-products gases for power generation 3. Promotion of Energy Optimization Technology including energy audit 	<ol style="list-style-type: none"> 1. The power use will be reduced through energy conservation measures on commencement of operation. 2. DRI exhaust is used for power generation. 3. Energy auditing will be carried out periodically.
	<ul style="list-style-type: none"> ➤ To set targets for Resource Conservation such as Raw material, energy and water consumption to match International Standards. 	<p>The company's management has adopted eco-friendly (i.e. 3 R's, Reduce, Recycle & Reuse) philosophy for day to day plant operations.</p>
	<ul style="list-style-type: none"> ➤ Up-gradation in the monitoring and analysis facilities for air and water pollutants. Also, to impart 	<p>NABL accredited consultant has been engaged for environmental</p>

S. No.	Recommendation	Plan for Implementation
	elaborate training to the manpower so that realistic data is obtained in the environmental monitoring laboratories.	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.	<p>Action taken by company for improvement of housekeeping and controlling emission are:</p> <ul style="list-style-type: none"> a) 120 numbers of fixed rotary type water sprinklers have been installed. b) In addition, water sprinkling on internal roads and village roads in immediate vicinity are also carried out manually and with the help of 01 Numbers of Water Tanker having capacity of 5.0 KL and another Water Tanker of capacity 12 KL. c) Dry Fog system provided at the Coal handling area as standby measures. d) All the main internal roads used for movement of Vehicles have been concreted and most of the branch roads are also concreted that used for pedestrian. e) Speed of the vehicles is regulated (20 km/hr) to control the fugitive dust emission from the roads. f) Fixed type Water Sprinklers at appropriate locations are provided. g) Four numbers of Rain guns are installed. h) 01 no. Mechanical road

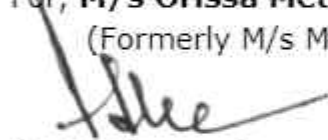
S. No.	Recommendation	Plan for Implementation
		<p>sweeping machine is in use.</p> <p>i) Adequate quantity of mechanized machine for cleaning of plant area & internal drain like bobcats, motorized grader, mini floor cleaning/ scrubber machine, mini excavators & mini clamshell are used.</p> <p>j) The raw materials are transported in covered dumpers or covered with tarpaulin. Overloading of truck strictly prohibited to control spillage and fugitive emission.</p> <p>k) Tyre washing facility (mechanized wheel washing facility) at the entrance of the plant gate has been provided.</p> <p>l) Transfer of material through covered pneumatic conveyor belt.</p> <p>m) Dedicate manpower / staff for maintaining effective housekeeping and cleaning.</p> <p>n) Installation of land use based APCD (Bag filters, ID Fan, pneumatic APC dust handling system and stack of adequate height) at potential secondary emission sources like- transfer points, intermediate storage, silo and crushing/ grinding operations.</p> <p>o) Green belt is being developed inside & outside the plant boundary CPCB guideline. An area of 33% has already been covered under greenbelt with</p>

S. No.	Recommendation	Plan for Implementation
		total 66,230 nos. of tree saplings till March 2024 @ 1,933 trees per hectare.
10.	<p>Sponge Iron Plants</p> <p>Inventorization of sponge iron plants to be completed by SPCBs/CPCB and units is asked to install proper air pollution control equipment to control primary and secondary emissions.</p>	<p>All necessary air pollution control equipments (ESP/DES) with adequate capacity WHRB installed with 8 x 100 TPD DRI kiln is in place.</p> <p>Management will ensure that all APCD are working efficiently to control emissions within the permissible limits.</p>

With sincere regards,

For, **M/s Orissa Metaliks Private Limited**

(Formerly M/s MSP Metaliks Limited)



(J. P. Sharma)

Executive Director (Works)





Environmental Research and Services (India) Pvt. Ltd.

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

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ULR-TC744023000000576F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 27 OCT 2023

Test Report No: ERSIPL/TR/WA/293

Name and Address of the Customer

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

Date of Sampling

: 08.10.2023

Sample Collected by

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

Sample Collected in presence of

: Representative of the Customer.

Sample Received on

: 13.10.2023

Analysis Started on

: 13.10.2023

Analysis Completed on

: 26.10.2023

Method of Sampling

: As per Applicable Test Method

Quantity of Sample

: 3ltrs

Type of Container

: Glass Bottle, HDPE Bottle

Weather Condition

: Sunny

Atmospheric temperature

: 33 °C

Sample ID. No.

1. ERSIPL/WA/685
2. ERSIPL/WA/686
3. ERSIPL/WA/687
4. ERSIPL/WA/688

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 WHRB-4

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result				Permissible Limit as per CTO
				ERSIPL /WA/ 685	ERSIPL /WA/ 686	ERSIPL /WA/ 687	ERSIPL /WA/ 688	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	--	7.05	6.81	7.33	7.21	xx
02	Total Suspended Solids	IS 3025:Part 17: 1984 Reaffirmed-2022	mg/L	3.1	3.6	3.2	2.9	100.0
03	Oil & Grease	IS 3025:Part 39: 2021	mg/L	2.51	2.14	1.19	0.97	20.0
04	Iron (as Fe)	IS 3025: Part 53: 2003 Reaffirmed-2019	mg/L	0.06	0.07	0.05	0.07	1.0

- Note:
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(Authorized Signatory)



Environmental Research and Services (India) Pvt. Ltd.

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Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 27 OCT 2023
Name and Address of the Customer : MSP Metallica Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling : 08.10.2023
Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd
Sample Collected in presence of : Representative of the Customer.
Sample Received on : 13.10.2023
Analysis Started on : 13.10.2023
Analysis Completed on : 26.10.2023
Method of Sampling : As per Applicable Test Method
Quantity of Sample : 3ltrs
Type of Container : Glass Bottle, HDPE Bottle
Weather Condition : Sunny
Atmospheric temperature : 33 °C

Test Report No: ERSIPL/TR/WA/T-293

Sample ID. No.

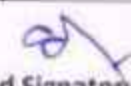
1. ERSIPL/WA/685
2. ERSIPL/WA/686
3. ERSIPL/WA/687
4. ERSIPL/WA/688

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 WHRB-4

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result				Permissible Limit as per CTO
				ERSIPL /WA/ 685	ERSIPL /WA/ 686	ERSIPL /WA/ 687	ERSIPL /WA/ 688	
01	Copper	IS 3025: Part 42: 1992 Reaffirmed- 2019	mg/L	Not Detected				1.0


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

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



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ULR-TC74402300000577F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 27 OCT 2023

Test Report No: ERSIPL/TR/WA/294

Name and Address of the Customer

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

Date of Sampling

: 08.10.2023

Sample Collected by

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

Sample Collected in presence of

: Representative of the Customer.

Sample Received on

: 13.10.2023

Analysis Started on

: 13.10.2023

Analysis Completed on

: 26.10.2023

Method of Sampling

: As per Applicable Test Method

Quantity of Sample

: 3ltrs

Type of Container

: Glass Bottle, HDPE Bottle

Weather Condition

: Sunny

Atmospheric temperature

: 33 °C

Sample ID. No.

1. ERSIPL/WA/689
2. ERSIPL/WA/690
3. ERSIPL/WA/691
4. ERSIPL/WA/692
5. ERSIPL/WA/693

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

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result					Permissible Limit as per CTO
				ERSIPL /WA/ 689	ERSIPL /WA/ 690	ERSIPL /WA/ 691	ERSIPL /WA/ 692	ERSIPL /WA/ 693	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	--	7.41	7.33	7.21	7.19	7.24	xx
02	Total Suspended Solids	IS 3025:Part 17: 1984 Reaffirmed-2022	mg/L	3.5	3.7	2.9	3.7	3.9	100.0
03	Oil & Grease	IS 3025:Part 39: 2021	mg/L	1.84	2.02	1.17	2.07	2.32	20.0
04	Iron (as Fe)	IS 3025: Part 53: 2003 Reaffirmed-2019	mg/L	0.06	0.06	0.08	0.06	0.06	1.0

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S. D. Pattanayak

**Environmental Research and Services (India) Pvt. Ltd.**

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Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 27 OCT 2023 **Test Report No: ERSIPL/TR/WA/T-294**

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

Date of Sampling : 08.10.2023

Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd

Sample Collected in presence of : Representative of the Customer.

Sample Received on : 13.10.2023

Analysis Started on : 13.10.2023

Analysis Completed on : 26.10.2023

Method of Sampling : As per Applicable Test Method

Quantity of Sample : 3litrs

Type of Container : Glass Bottle, HDPE Bottle

Weather Condition : Sunny

Atmospheric temperature : 33 °C

Sample ID. No.

1. ERSIPL/WA/689
2. ERSIPL/WA/690
3. ERSIPL/WA/691
4. ERSIPL/WA/692
5. ERSIPL/WA/693

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

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result					Permissible Limit as per CTO
				ERSIPL /WA/ 689	ERSIPL /WA/ 690	ERSIPL /WA/ 691	ERSIPL /WA/ 692	ERSIPL /WA/ 693	
01	Copper	IS 3025: Part 42: 1992 Reaffirmed-2019	mg/L	Not Detected					1.0


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

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



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ULR-TC744023000000578F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 27 OCT 2023 **Test Report No: ERSIPL/TR/WA/295**

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

Date of Sampling : 08.10.2023

Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd

Sample Collected in presence of : Representative of the Customer.

Sample Received on : 13.10.2023

Analysis Started on : 13.10.2023

Analysis Completed on : 26.10.2023

Method of Sampling : As per Applicable Test Method

Quantity of Sample : 2 ltrs

Type of Container : HDPE Bottle

Weather Condition : Sunny

Atmospheric temperature : 33 °C

Sample ID. No.

1. ERSIPL/WA/694
2. ERSIPL/WA/695
3. ERSIPL/WA/696

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

S. No.	Test Parameters	Test Method	Unit	Result			Permissible Limit as per CTO
				ERSIPL /WA/ 694	ERSIPL /WA/ 695	ERSIPL /WA/ 696	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	--	8.31	8.41	8.35	xx
02	Phosphate (as PO ₄)	IS 3025 (Part 31/Sec 1) : 2022	mg/L	0.39	0.33	0.18	2.0

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

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Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 27 OCT 2023

Test Report No: ERSIPL/TR/WA/T-295

Name and Address of the Customer

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

Date of Sampling

: 08.10.2023

Sample Collected by

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

Sample Collected in presence of

: Representative of the Customer.

Sample Received on

: 13.10.2023

Analysis Started on

: 13.10.2023

Analysis Completed on

: 26.10.2023

Method of Sampling

: As per Applicable Test Method

Quantity of Sample

: 2ltrs

Type of Container

: HDPE Bottle

Weather Condition

: Sunny

Atmospheric temperature

: 33 °C

Sample ID. No.

1. ERSIPL/WA/694
2. ERSIPL/WA/695
3. ERSIPL/WA/696

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

S. No.	Test Parameters	Test Method	Unit	Result			Permissible Limit as per CTO
				ERSIPL /WA/ 694	ERSIPL /WA/ 695	ERSIPL /WA/ 696	
01	Total Chromium (as Cr ⁶)	IS 3025:Part 52: 2003 Reaffirmed-2019	mg/L	Not Detected			2.0
02	Free Available Chlorine	IS 3025:Part 26: 2021	mg/L	NIL			0.5
03	Zinc	IS 3025:Part 39: 1991 Reaffirmed-2019	mg/L	Not Detected			1.0

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

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



Environmental Research and Services (India) Pvt. Ltd.

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ULR-TC744023000000664F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 29 NOV 2023
Test Report No: ERSIPL/TR/WA/338
Name and Address of the Customer : MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling : 13.11.2023
Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd
Sample Collected in presence of : Representative of the Customer.
Sample Received on : 20.11.2023
Analysis Started on : 20.11.2023
Analysis Completed on : 29.11.2023
Method of Sampling : As per Applicable Test Method
Quantity of Sample : 3ltrs
Type of Container : Glass Bottle, HDPE Bottle
Weather Condition : Sunny
Atmospheric temperature : 30 °C

Sample ID, No.

1. ERSIPL/WA/797
2. ERSIPL/WA/798
3. ERSIPL/WA/799
4. ERSIPL/WA/800

Locations

1. Boiler Blow down of WHRB-1
2. Boiler Blow down of WHRB-3
3. Boiler Blw down of WHRB-4
3. Boiler Blow down of WHRB-6

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result				Permissible Limit as per CTO
				ERSIPL /WA/ 797	ERSIPL /WA/ 798	ERSIPL /WA/ 799	ERSIPL /WA/ 800	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	—	7.02	6.86	7.29	7.15	xx
02	Total Suspended Solids	IS 3025:Part 17: 1984 Reaffirmed-2022	mg/L	3.3	3.1	2.9	3.6	100.0
03	Oil & Grease	IS 3025:Part 39: 2021	mg/L	1.91	1.54	1.89	1.97	20.0
04	Iron (as Fe)	IS 3025: Part 53: 2003 Reaffirmed-2022	mg/L	0.08	0.07	0.08	0.07	1.0

- Note:
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 2. Total Liability of ERS (I) Pvt. Ltd. is limited to the Invoice Amount.
 3. This certificate shall not be reproduced fully or in part without prior written consent of ERS (I) Pvt. Ltd.
 4. Samples (Filter Papers & Threads) 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 reports, unless otherwise specified.
 5. This report shall not used in any advertising media or as evidence in the court of law without prior written consent of ERS (I) Pvt. Ltd.

(Authorized Signatory)

S.P. Pattanayak

Tech Manager



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: ersibbsri@gmail.com

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 29 NOV 2023
 Name and Address of the Customer : MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
 Date of Sampling : 13.11.2023
 Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd
 Sample Collected in presence of : Representative of the Customer.
 Sample Received on : 20.11.2023
 Analysis Started on : 20.11.2023
 Analysis Completed on : 29.11.2023
 Method of Sampling : As per Applicable Test Method
 Quantity of Sample : 3ltrs
 Type of Container : Glass Bottle, HDPE Bottle
 Weather Condition : Sunny
 Atmospheric temperature : 30 °C

Test Report No: ERSIPL/TR/WA/T-338

Sample ID. No.

1. ERSIPL/WA/797
2. ERSIPL/WA/798
3. ERSIPL/WA/799
4. ERSIPL/WA/800

Locations

1. Boiler Blow down of WHRB-1
2. Boiler Blow down of WHRB-3
3. Boiler Blqw down of WHRB-4
3. Boiler Blow down of WHRB-6

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result				Permissible Limit as per CTO
				ERSIPL /WA/ 797	ERSIPL /WA/ 798	ERSIPL /WA/ 799	ERSIPL /WA/ 800	
01	Copper	IS 3025: Part 42: 1992 Reaffirmed- 2019	mg/L	Not Detected				1.0

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


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

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



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-TC744023000000665F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 29 NOV 2023
 Name and Address of the Customer : MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
 Date of Sampling : 13.11.2023
 Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd
 Sample Collected in presence of : Representative of the Customer.
 Sample Received on : 20.11.2023
 Analysis Started on : 20.11.2023
 Analysis Completed on : 29.11.2023
 Method of Sampling : As per Applicable Test Method
 Quantity of Sample : 3ltrs
 Type of Container : Glass Bottle, HDPE Bottle
 Weather Condition : Sunny
 Atmospheric temperature : 30 °C

Sample ID. No.

1. ERSIPL/WA/801
2. ERSIPL/WA/802
3. ERSIPL/WA/803

Locations

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

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result			Permissible Limit as per CTO
				ERSIPL /WA/ 801	ERSIPL /WA/ 802	ERSIPL /WA/ 803	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	-	7.37	7.23	7.22	xx
02	Total Suspended Solids	IS 3025:Part 17: 1984 Reaffirmed-2022	mg/L	3.5	3.1	3.3	100.0
03	Oil & Grease	IS 3025:Part 39: 2021	mg/L	1.24	1.92	2.07	20.0
04	Iron (as Fe)	IS 3025: Part 53: 2003 Reaffirmed-2019	mg/L	0.07	0.06	0.08	1.0

- Note:
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 3. This certificate shall not be reproduced fully or in part without prior written consent of ERS (I) Pvt. Ltd.
 4. Samples (Filter Papers & Thinplates) received shall be destroyed after 01 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 any advertising media or as evidence in the court of law without prior written consent of ERS (I) Pvt. Ltd.

(Authorized Signatory)

S.P.Pattanayak
Tech.Manager



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: 29 NOV 2023 **Test Report No: ERSIPL/TR/WA/T-339**

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

Date of Sampling : 13.11.2023

Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd

Sample Collected in presence of : Representative of the Customer.

Sample Received on : 20.11.2023

Analysis Started on : 20.11.2023

Analysis Completed on : 29.11.2023

Method of Sampling : As per Applicable Test Method

Quantity of Sample : 3ltrs

Type of Container : Glass Bottle, HDPE Bottle

Weather Condition : Sunny

Atmospheric temperature : 30 °C

Sample ID. No.

1. ERSIPL/WA/801
2. ERSIPL/WA/802
3. ERSIPL/WA/803

Locations

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

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result			Permissible Limit as per CTO
				ERSIPL /WA/ 801	ERSIPL /WA/ 802	ERSIPL /WA/ 803	
01	Copper	IS 3025: Part 42: 1992 Reaffirmed-2019	mg/L	Not Detected			1.0

- Note-
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 2. Total liability of ERS (I) Pvt. Ltd. is limited to the Invoice Amount.
 3. This certificate shall not be reproduced fully or in part without prior written consent of ERS (I) Pvt. Ltd.
 4. Samples (Fiber Papers & Trembles) received shall be destroyed after 01 year & Gaseous/Liquid samples received shall be destroyed after 07 days from the date of issue of the test report, unless otherwise specified.
 5. This report shall not used in any advertising media or as evidence in the court of law without prior written consent of ERS (I) Pvt. Ltd.


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

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



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ULR-TC74402300000666F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 29 NOV 2023
Test Report No: ERSIPL/TR/WA/340
Name and Address of the Customer : MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling : 13.11.2023
Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd
Sample Collected in presence of : Representative of the Customer.
Sample Received on : 20.11.2023
Analysis Started on : 20.11.2023
Analysis Completed on : 29.11.2023
Method of Sampling : As per Applicable Test Method
Quantity of Sample : 2 ltrs
Type of Container : HDPE Bottle
Weather Condition : Sunny
Atmospheric temperature : 30 °C

Sample ID. No.

1. ERSIPL/WA/804
2. ERSIPL/WA/805
3. ERSIPL/WA/806

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

S. No.	Test Parameters	Test Method	Unit	Result			Permissible Limit as per CTO
				ERSIPL /WA/ 804	ERSIPL /WA/ 805	ERSIPL /WA/ 806	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	--	8.41	8.45	8.39	xx
02	Phosphate (as PO ₄)	IS 3025 (Part 31/Sec 1) : 2022	mg/L	0.35	0.30	0.16	2.0

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

(Authorized Signatory)

S.P.Pattanayak
Tech.Manager

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



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Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 29 NOV 2023
Name and Address of the Customer : MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling : 13.11.2023
Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd
Sample Collected in presence of : Representative of the Customer.
Sample Received on : 20.11.2023
Analysis Started on : 20.11.2023
Analysis Completed on : 29.11.2023
Method of Sampling : As per Applicable Test Method
Quantity of Sample : 2 ltrs
Type of Container : HDPE Bottle
Weather Condition : Sunny
Atmospheric temperature : 30^oC

Test Report No: ERSIPL/TR/WA/T-340

Sample ID. No.

1. ERSIPL/WA/804
2. ERSIPL/WA/805
3. ERSIPL/WA/806

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

S. No.	Test Parameters	Test Method	Unit	Result			Permissible Limit as per CTO
				ERSIPL /WA/ 804	ERSIPL /WA/ 805	ERSIPL /WA/ 806	
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

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(Authorized Signatory)



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ULR-TC744023000000719F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 20 DEC 2023	Test Report No: ERSIPL/TR/WA/364
Name and Address of the Customer	: MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	: 10.12.2023
Sample Collected by	: R Jena, Field Supervisor, ERS(I) Pvt. Ltd
Sample Collected in presence of	: Representative of the Customer.
Sample Received on	: 13.12.2023
Analysis Started on	: 13.12.2023
Analysis Completed on	: 20.12.2023
Method of Sampling	: As per Applicable Test Method
Quantity of Sample	: 3ltrs
Type of Container	: Glass Bottle, HDPE Bottle
Weather Condition	: Partly Sunny
Atmospheric temperature	: 22 °C

Sample ID. No.

1. ERSIPL/WA/857
2. ERSIPL/WA/858
3. ERSIPL/WA/859
4. ERSIPL/WA/860

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 WHRB-4

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result				Permissible Limit as per CTO
				ERSIPL /WA/ 857	ERSIPL /WA/ 858	ERSIPL /WA/ 859	ERSIPL /WA/ 860	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	-	7.04	6.83	7.21	7.16	xx
02	Total Suspended Solids	IS 3025:Part 17: 1984 Reaffirmed-2022	mg/L	3.1	2.8	3.3	2.9	100.0
03	Oil & Grease	IS 3025:Part 39: 2021	mg/L	0.95	1.14	0.89	1.17	20.0
04	Iron (as Fe)	IS 3025: Part 53: 2003 Reaffirmed-2019	mg/L	0.05	0.07	0.06	0.08	1.0

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 4. Samples (if/for Papers & Thinbles) 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.
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(Authorized Signatory)
S.P. Pallonayak
Tech. Manager



Environmental Research and Services (India) Pvt. Ltd.

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

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

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 20 DEC 2023
Test Report No: ERSIPL/TR/WA/T-364
Name and Address of the Customer : MSP Metalics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling : 10.12.2023
Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd
Sample Collected in presence of : Representative of the Customer.
Sample Received on : 13.12.2023
Analysis Started on : 13.12.2023
Analysis Completed on : 20.12.2023
Method of Sampling : As per Applicable Test Method
Quantity of Sample : 3ltrs
Type of Container : Glass Bottle, HDPE Bottle
Weather Condition : Partly Sunny
Atmospheric temperature : 22 °C

Sample ID. No.

1. ERSIPL/WA/857
2. ERSIPL/WA/858
3. ERSIPL/WA/859
4. ERSIPL/WA/860

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 WHRB-4

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result				Permissible Limit as per CTO
				ERSIPL /WA/ 857	ERSIPL /WA/ 858	ERSIPL /WA/ 859	ERSIPL /WA/ 860	
01	Copper	IS 3025: Part 42: 1992 Reaffirmed-2019	mg/L	Not Detected				1.0

- Note-**
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 3. This certificate shall not be reproduced fully or in part without prior written consent of ERS (I) Pvt. Ltd.
 4. Samples (Paper Papers & Thinfiles) received shall be destroyed after 01 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 any advertising media or as evidence in the court of law without prior written consent of ERS (I) Pvt. Ltd.

(Authorized Signatory)
 S.P. Pattnayak
 Town Manager

---END OF TEST REPORT---



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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-TC744023000000720F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 20 DEC 2023
 Name and Address of the Customer : MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
 Date of Sampling : 10.12.2023
 Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd
 Sample Collected in presence of : Representative of the Customer.
 Sample Received on : 13.12.2023
 Analysis Started on : 13.12.2023
 Analysis Completed on : 20.12.2023
 Method of Sampling : As per Applicable Test Method
 Quantity of Sample : 3ltrs
 Type of Container : Glass Bottle, HDPE Bottle
 Weather Condition : Partly Sunny
 Atmospheric temperature : 22 °C

Test Report No: ERSIPL/TR/WA/365

Sample ID. No.

1. ERSIPL/WA/861
2. ERSIPL/WA/862
3. ERSIPL/WA/863
4. ERSIPL/WA/864

Locations

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

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result				Permissible Limit as per CTO
				ERSIPL /WA/ 861	ERSIPL /WA/ 862	ERSIPL /WA/ 863	ERSIPL /WA/ 864	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	-	7.33	7.21	7.26	7.21	xx
02	Total Suspended Solids	IS 3025:Part 17: 1984 Reaffirmed-2022	mg/L	3.7	2.6	2.9	3.3	100.0
03	Oil & Grease	IS 3025:Part 39: 2021	mg/L	1.54	1.22	0.97	1.07	20.0
04	Iron (as Fe)	IS 3025: Part 53: 2003 Reaffirmed-2019	mg/L	0.07	0.05	0.08	0.06	1.0

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


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



Environmental Research and Services (India) Pvt. Ltd.

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

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

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 20 DEC 2023	Test Report No: ERSIPL/TR/WA/T-365
Name and Address of the Customer	: MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling	: 10.12.2023
Sample Collected by	: R Jena, Field Supervisor, ERS(I) Pvt. Ltd
Sample Collected in presence of	: Representative of the Customer.
Sample Received on	: 13.12.2023
Analysis Started on	: 13.12.2023
Analysis Completed on	: 20.12.2023
Method of Sampling	: As per Applicable Test Method
Quantity of Sample	: 3ltrs
Type of Container	: Glass Bottle, HDPE Bottle
Weather Condition	: Partly Sunny
Atmospheric temperature	: 22 °C

Sample ID. No.

1. ERSIPL/WA/861
2. ERSIPL/WA/862
3. ERSIPL/WA/863
4. ERSIPL/WA/864

Locations

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

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result				Permissible Limit as per CTO
				ERSIPL /WA/ 861	ERSIPL /WA/ 862	ERSIPL /WA/ 863	ERSIPL /WA/ 864	
01	Copper	IS 3025: Part 42: 1992 Reaffirmed- 2019	mg/L	Not Detected				1.0

- Note:
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 2. Total Liability of ERS (I) Pvt. Ltd. is limited to the Invoice Amount.
 3. This certificate shall not be reproduced fully or in part without prior written consent of ERS (I) Pvt. Ltd.
 4. Samples (Filter Papers & Thinlites) received shall be destroyed after 01 year & Gaseous/Liquid samples received shall be destroyed after 07 days from the date of issue of the test report, unless otherwise specified.
 5. This report shall not used in any advertising media or in evidence in the court of law without prior written consent of ERS (I) Pvt. Ltd.

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



Environmental Research and Services (India) Pvt. Ltd.

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



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ULR-TC744023000000721F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 20 DEC 2023 Test Report No: ERSIPL/TR/WA/366
 Name and Address of the Customer : MSP Metalics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
 Date of Sampling : 10.12.2023
 Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd
 Sample Collected in presence of : Representative of the Customer.
 Sample Received on: : 13.12.2023
 Analysis Started on : 13.12.2023
 Analysis Completed on : 20.12.2023
 Method of Sampling : As per Applicable Test Method
 Quantity of Sample : 2 ltrs
 Type of Container : HDPE Bottle
 Weather Condition : Partly Sunny
 Atmospheric temperature : 22 °C

Sample ID. No.

1. ERSIPL/WA/865
2. ERSIPL/WA/866
3. ERSIPL/WA/867

Locations

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

S. No.	Test Parameters	Test Method	Unit	Result			Permissible Limit as per CTO
				ERSIPL /WA/ 865	ERSIPL /WA/ 866	ERSIPL /WA/ 867	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	--	8.72	8.48	8.43	xx
02	Phosphate (as PO ₄)	IS 3025 (Part 31/Sec 1): 2022	mg/L	0.30	0.07	0.28	2.0

- Note:
1. The test results relate only to the items sampled and tested.
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(Authorized Signatory)
S.P. Pattanayak
Tech. Manager

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



Environmental Research and Services (India) Pvt. Ltd.

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

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 DEC 2023
Name and Address of the Customer : MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling : 10.12.2023
Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd
Sample Collected in presence of : Representative of the Customer.
Sample Received on : 13.12.2023
Analysis Started on : 13.12.2023
Analysis Completed on : 20.12.2023
Method of Sampling : As per Applicable Test Method
Quantity of Sample : 2 ltrs
Type of Container : HDPE Bottle
Weather Condition : Partly Sunny
Atmospheric temperature : 22 °C

Test Report No: ERSIPL/TR/WA/T-366

Sample ID. No.

1. ERSIPL/WA/865
2. ERSIPL/WA/866
3. ERSIPL/WA/867

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

S. No.	Test Parameters	Test Method	Unit	Result			Permissible Limit as per CTO
				ERSIPL /WA/ 865	ERSIPL /WA/ 866	ERSIPL /WA/ 867	
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

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 3. This certificate shall not be reproduced fully or in part without prior written consent of ERS (I) Pvt. Ltd.
 4. Samples (Filter Papers & Thinblot) received shall be destroyed after 03 year & Gaseous/Liquid samples received shall be destroyed after 03 days from the date of issue of the test report, unless otherwise specified.
 5. This report shall not used in any advertising media or as evidence in the court of law without prior written consent of ERS (I) Pvt. Ltd.

(Authorized Signatory)
S.P. Pattnayak



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: ersibsr@gmail.com



TC-7440

ULR-TC74402400000062F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 03 FEB 2024
Test Report No: ERSIPL/TR/WA/029
Name and Address of the Customer : MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling : 26.01.2024
Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd
Sample Collected in presence of : Representative of the Customer.
Sample Received on : 29.01.2024
Analysis Started on : 29.01.2024
Analysis Completed on : 02.02.2024
Method of Sampling : As per Applicable Test Method
Quantity of Sample : 3ltrs
Type of Container : Glass Bottle, HDPE Bottle
Weather Condition : Sunny
Atmospheric temperature : 24 °C

Sample ID. No.

1. ERSIPL/WA/62
2. ERSIPL/WA/63
3. ERSIPL/WA/64
4. ERSIPL/WA/65

Locations

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

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result				Permissible Limit as per CTO
				ERSIPL /WA/ 62	ERSIPL /WA/ 63	ERSIPL /WA/ 64	ERSIPL /WA/ 65	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	--	7.06	6.87	7.15	7.29	xx
02	Total Suspended Solids	IS 3025:Part 17: 1984 Reaffirmed-2022	mg/L	3.5	3.2	3.2	3.5	100.0
03	Oil & Grease	IS 3025:Part 39: 2021	mg/L	2.95	2.14	1.27	2.04	20.0
04	Iron (as Fe)	IS 3025: Part 53: 2003 Reaffirmed-2019	mg/L	0.08	0.07	0.08	0.07	1.0

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(Authorized Signatory)

S.P.Pattanayak

Test Manager



Environmental Research and Services (India) Pvt. Ltd.

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

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

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 03 FEB 2024
Name and Address of the Customer : MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling : 26.01.2024
Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd
Sample Collected in presence of : Representative of the Customer.
Sample Received on : 29.01.2024
Analysis Started on : 29.01.2024
Analysis Completed on : 02.02.2024
Method of Sampling : As per Applicable Test Method
Quantity of Sample : 3ltrs
Type of Container : Glass Bottle, HDPE Bottle
Weather Condition : Sunny
Atmospheric temperature : 24 °C

Test Report No: ERSIPL/TR/WA/T-029

Sample ID. No.

1. ERSIPL/WA/62
2. ERSIPL/WA/63
3. ERSIPL/WA/64
4. ERSIPL/WA/65

Locations

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

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result				Permissible Limit as per CTO
				ERSIPL /WA/ 62	ERSIPL /WA/ 63	ERSIPL /WA/ 64	ERSIPL /WA/ 65	
01	Copper	IS 3025: Part 42: 1992 Reaffirmed-2019	mg/L	Not Detected				1.0

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

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



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TC-7440

ULR-TC74402400000063F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 03 FEB 2024
Name and Address of the Customer : MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling : 26.01.2024
Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd
Sample Collected in presence of : Representative of the Customer.
Sample Received on : 29.01.2024
Analysis Started on : 29.01.2024
Analysis Completed on : 02.02.2024
Method of Sampling : As per Applicable Test Method
Quantity of Sample : 2 ltrs
Type of Container : HDPE Bottle
Weather Condition : Sunny
Atmospheric temperature : 24 °C

Test Report No: ERSIPL/TR/WA/030

Sample ID. No.

1. ERSIPL/WA/66
2. ERSIPL/WA/67
3. ERSIPL/WA/68

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

S. No.	Test Parameters	Test Method	Unit	Result			Permissible Limit as per CTO
				ERSIPL /WA/ 66	ERSIPL /WA/ 67	ERSIPL /WA/ 68	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	--	7.77	8.43	8.38	xx
02	Phosphate (as PO ₄)	IS 3025 (Part 31/Sec 1) : 2022	mg/L	0.32	0.25	0.26	2.0

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

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



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Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 03 FEB 2024 **Test Report No: ERSIPL/TR/WA/T-030**
Name and Address of the Customer : MSP Metallics Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling : 26.01.2024
Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd
Sample Collected in presence of : Representative of the Customer.
Sample Received on : 29.01.2024
Analysis Started on : 29.01.2024
Analysis Completed on : 02.02.2024
Method of Sampling : As per Applicable Test Method
Quantity of Sample : 2 ltrs
Type of Container : HDPE Bottle
Weather Condition : Sunny
Atmospheric temperature : 24 °C

Sample ID. No.

1. ERSIPL/WA/66
2. ERSIPL/WA/67
3. ERSIPL/WA/68

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

S. No.	Test Parameters	Test Method	Unit	Result			Permissible Limit as per CTO
				ERSIPL /WA/ 66	ERSIPL /WA/ 67	ERSIPL /WA/ 68	
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

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(Authorized Signatory)



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TC-7440

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ULR-TC74402400000089F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 23 FEB 2024

Test Report No: ERSIPL/TR/WA/043

Name and Address of the Customer

: Orissa Metaliks Private Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha

Date of Sampling

: 11.02.2024

Sample Collected by

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

Sample Collected in presence of

: Representative of the Customer.

Sample Received on

: 15.02.2024

Analysis Started on

: 15.02.2024

Analysis Completed on

: 22.02.2024

Method of Sampling

: As per Applicable Test Method

Quantity of Sample

: 3ltrs

Type of Container

: Glass Bottle, HDPE Bottle

Weather Condition

: Sunny

Atmospheric temperature

: 25 °C

Sample ID. No.

1. ERSIPL/WA/101
2. ERSIPL/WA/102
3. ERSIPL/WA/103
4. ERSIPL/WA/104

Locations

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

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result				Permissible Limit as per CTO
				ERSIPL /WA/ 101	ERSIPL /WA/ 102	ERSIPL /WA/ 103	ERSIPL /WA/ 104	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	-	9.36	9.24	6.82	7.31	xx
02	Total Suspended Solids	IS 3025:Part 17: 1984 Reaffirmed-2022	mg/L	3.1	2.9	3.6	2.2	100.0
03	Oil & Grease	IS 3025:Part 39: 2021	mg/L	1.15	0.84	1.89	1.87	20.0
04	Iron (as Fe)	IS 3025: Part 53: 2003 Reaffirmed-2019	mg/L	0.08	0.07	0.05	0.08	1.0

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



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

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 23 FEB 2024
Name and Address of the Customer : Orissa Metaliks Private Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling : 11.02.2024
Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd
Sample Collected in presence of : Representative of the Customer.
Sample Received on : 15.02.2024
Analysis Started on : 15.02.2024
Analysis Completed on : 22.02.2024
Method of Sampling : As per Applicable Test Method
Quantity of Sample : 3ltrs
Type of Container : Glass Bottle, HDPE Bottle
Weather Condition : Sunny
Atmospheric temperature : 25 °C

Test Report No: ERSIPL/TR/WA/T-043

Sample ID. No.

1. ERSIPL/WA/101
2. ERSIPL/WA/102
3. ERSIPL/WA/103
4. ERSIPL/WA/104

Locations

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

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result				Permissible Limit as per CTO
				ERSIPL /WA/ 101	ERSIPL /WA/ 102	ERSIPL /WA/ 103	ERSIPL /WA/ 104	
01	Copper	IS 3025: Part 42: 1992 Reaffirmed- 2019	mg/L	Not Detected				1.0

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

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



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TC-7440

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

ULR-TC74402400000090F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 23 FEB 2024

Test Report No: ERSIPL/TR/WA/044

Name and Address of the Customer : Orissa Metaliks Private Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha

Date of Sampling : 11.02.2024

Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd

Sample Collected in presence of : Representative of the Customer.

Sample Received on : 15.02.2024

Analysis Started on : 15.02.2024

Analysis Completed on : 22.02.2024

Method of Sampling : As per Applicable Test Method

Quantity of Sample : 3ltrs

Type of Container : Glass Bottle, HDPE Bottle

Weather Condition : Sunny

Atmospheric temperature : 25 °C

Sample ID. No.

1. ERSIPL/WA/105
2. ERSIPL/WA/106
3. ERSIPL/WA/107

Locations

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

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result			Permissible Limit as per CTO
				ERSIPL /WA/ 105	ERSIPL /WA/ 106	ERSIPL /WA/ 107	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	--	7.84	7.50	9.33	xx
02	Total Suspended Solids	IS 3025:Part 17: 1984 Reaffirmed-2022	mg/L	3.3	2.1	3.9	100.0
03	Oil & Grease	IS 3025:Part 39: 2021	mg/L	2.54	1.52	1.87	20.0
04	Iron (as Fe)	IS 3025: Part 53: 2003 Reaffirmed-2019	mg/L	0.07	0.07	0.08	1.0

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



Environmental Research and Services (India) Pvt. Ltd.

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

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 23 FEB 2024
Name and Address of the Customer : Orissa Metaliks Private Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling : 11.02.2024
Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd
Sample Collected in presence of : Representative of the Customer.
Sample Received on : 15.02.2024
Analysis Started on : 15.02.2024
Analysis Completed on : 22.02.2024
Method of Sampling : As per Applicable Test Method
Quantity of Sample : 3ltrs
Type of Container : Glass Bottle, HDPE Bottle
Weather Condition : Sunny
Atmospheric temperature : 25 °C

Test Report No: ERSIPL/TR/WA/T-044

Sample ID. No.

1. ERSIPL/WA/105
2. ERSIPL/WA/106
3. ERSIPL/WA/107

Locations

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

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result			Permissible Limit as per CTO
				ERSIPL /WA/ 105	ERSIPL /WA/ 106	ERSIPL /WA/ 107	
01	Copper	IS 3025: Part 42: 1992 Reaffirmed-2019	mg/L	Not Detected			1.0

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

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



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TC-7440

ULR-TC744024000000091F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 23 FEB 2024

Test Report No: ERSIPL/TR/WA/045

Name and Address of the Customer

: Orissa Metaliks Private Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha

Date of Sampling

: 11.02.2024

Sample Collected by

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

Sample Collected in presence of

: Representative of the Customer.

Sample Received on

: 15.02.2024

Analysis Started on

: 15.02.2024

Analysis Completed on

: 22.02.2024

Method of Sampling

: As per Applicable Test Method

Quantity of Sample

: 2 ltrs

Type of Container

: HDPE Bottle

Weather Condition

: Sunny

Atmospheric temperature

: 25 °C

Sample ID. No.

1. ERSIPL/WA/108
2. ERSIPL/WA/109
3. ERSIPL/WA/110

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

S. No.	Test Parameters	Test Method	Unit	Result			Permissible Limit as per CTO
				ERSIPL /WA/ 108	ERSIPL /WA/ 109	ERSIPL /WA/ 110	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	--	8.49	8.53	8.62	xx
02	Phosphate (as PO ₄)	IS 3025 (Part 31/Sec 1): 2022	mg/L	0.28	0.22	0.29	2.0

Note-

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(Authorized Signatory)
S.P. Pattnayak
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: ersibbsri@gmail.com

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 23 FEB 2024

Test Report No: ERSIPL/TR/WA/T-045

Name and Address of the Customer

: Orissa Metaliks Private Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha

Date of Sampling

: 11.02.2024

Sample Collected by

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

Sample Collected in presence of

: Representative of the Customer.

Sample Received on

: 15.02.2024

Analysis Started on

: 15.02.2024

Analysis Completed on

: 22.02.2024

Method of Sampling

: As per Applicable Test Method

Quantity of Sample

: 2 ltrs

Type of Container

: HDPE Bottle

Weather Condition

: Sunny

Atmospheric temperature

: 25 °C

Sample ID. No.

1. ERSIPL/WA/108
2. ERSIPL/WA/109
3. ERSIPL/WA/110

Locations

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

S. No.	Test Parameters	Test Method	Unit	Result			Permissible Limit as per CTO
				ERSIPL /WA/ 108	ERSIPL /WA/ 109	ERSIPL /WA/ 110	
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

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(Authorized Signatory)

S.P. Pattanayak



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



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ULR-TC744024000000193F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 30 MAR 2024

Test Report No: ERSIPL/TR/WA/095

Name and Address of the Customer : Orissa Metaliks Private Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha

Date of Sampling : 20.03.2024

Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd

Sample Collected in presence of : Representative of the Customer.

Sample Received on : 25.03.2024

Analysis Started on : 25.03.2024

Analysis Completed on : 30.03.2024

Method of Sampling : As per Applicable Test Method

Quantity of Sample : 3ltrs

Type of Container : Glass Bottle, HDPE Bottle

Weather Condition : Overcast

Atmospheric temperature : 26 °C

Sample ID. No.

1. ERSIPL/WA/221
2. ERSIPL/WA/222
3. ERSIPL/WA/223
4. ERSIPL/WA/224

Locations

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

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result				Permissible Limit as per CTO
				ERSIPL /WA/ 221	ERSIPL /WA/ 222	ERSIPL /WA/ 223	ERSIPL /WA/ 224	
01	pH Value	IS 3025-Part 11: 1983 Reaffirmed-2022	--	9.31	9.25	7.22	7.14	xx
02	Total Suspended Solids	IS 3025-Part 17: 1984 Reaffirmed-2022	mg/L	3.6	3.2	2.9	2.7	100.0
03	Oil & Grease	IS 3025-Part 39: 2021	mg/L	1.19	0.89	1.76	1.81	20.0
04	Iron (as Fe)	IS 3025: Part 53: 2003 Reaffirmed-2019	mg/L	0.08	0.07	0.06	0.07	1.0

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(Authorized Signatory)

S. P. Pattanayak



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Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 30 MAR 2024
Name and Address of the Customer : Orissa Metaliks Private Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling : 20.03.2024
Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd
Sample Collected in presence of : Representative of the Customer.
Sample Received on : 25.03.2024
Analysis Started on : 25.03.2024
Analysis Completed on : 30.03.2024
Method of Sampling : As per Applicable Test Method
Quantity of Sample : 3ltrs
Type of Container : Glass Bottle, HDPE Bottle
Weather Condition : Overcast
Atmospheric temperature : 26 °C

Test Report No: ERSIPL/TR/WA/T-095

Sample ID. No.

1. ERSIPL/WA/221
2. ERSIPL/WA/222
3. ERSIPL/WA/223
4. ERSIPL/WA/224

Locations

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

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result				Permissible Limit as per CTO
				ERSIPL /WA/ 221	ERSIPL /WA/ 222	ERSIPL /WA/ 223	ERSIPL /WA/ 224	
01	Copper	IS 3025: Part 42: 1992 Reaffirmed-2019	mg/L	Not Detected				1.0

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



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Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 30 MAR 2024
Test Report No: ERSIPL/TR/WA/T-096
Name and Address of the Customer : Orissa Metaliks Private Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling : 20.03.2024
Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd
Sample Collected in presence of : Representative of the Customer.
Sample Received on : 25.03.2024
Analysis Started on : 25.03.2024
Analysis Completed on : 30.03.2024
Method of Sampling : As per Applicable Test Method
Quantity of Sample : 3ltrs
Type of Container : Glass Bottle, HDPE Bottle
Weather Condition : Overcast
Atmospheric temperature : 26 °C

Sample ID. No.

1. ERSIPL/WA/225
2. ERSIPL/WA/226
3. ERSIPL/WA/227
4. ERSIPL/WA/228

Locations

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

TEST FINDINGS

S. No.	Test Parameters	Test Method	Unit	Result				Permissible Limit as per CTO
				ERSIPL /WA/ 225	ERSIPL /WA/ 226	ERSIPL /WA/ 227	ERSIPL /WA/ 228	
01	Copper	IS 3025: Part 42: 1992 Reaffirmed-2019	mg/L	Not Detected				1.0

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

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



Environmental Research and Services (India) Pvt. Ltd.

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TC-7440

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

ULR-TC744024000000195F

Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 30 MAR 2024

Test Report No: ERSIPL/TR/WA/097

Name and Address of the Customer

: Orissa Metaliks Private Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha

Date of Sampling

: 20.03.2024

Sample Collected by

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

Sample Collected in presence of

: Representative of the Customer.

Sample Received on

: 25.03.2024

Analysis Started on

: 25.03.2024

Analysis Completed on

: 30.03.2024

Method of Sampling

: As per Applicable Test Method

Quantity of Sample

: 2 ltrs

Type of Container

: HDPE Bottle

Weather Condition

: Overcast

Atmospheric temperature

: 26 °C

Sample ID. No.

1. ERSIPL/WA/229
2. ERSIPL/WA/230
3. ERSIPL/WA/231

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

S. No.	Test Parameters	Test Method	Unit	Result			Permissible Limit as per CTO
				ERSIPL /WA/ 229	ERSIPL /WA/ 230	ERSIPL /WA/ 231	
01	pH Value	IS 3025:Part 11: 1983 Reaffirmed-2022	--	8.51	8.47	8.63	XX
02	Phosphate (as PO ₄)	IS 3025 (Part 31/Sec 1) : 2022	mg/L	0.20	0.31	0.26	2.0

Note-

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

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Test Report Format No.: ERSIPL/FM/40

TEST REPORT (WATER/ WASTE WATER)

Pg No: 1 of 1

Date: 30 MAR 2024
Name and Address of the Customer : Orissa Metaliks Private Limited, Village: Marakuta, Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha
Date of Sampling : 20.03.2024
Sample Collected by : R Jena, Field Supervisor, ERS(I) Pvt. Ltd
Sample Collected in presence of : Representative of the Customer.
Sample Received on : 25.03.2024
Analysis Started on : 25.03.2024
Analysis Completed on : 30.03.2024
Method of Sampling : As per Applicable Test Method
Quantity of Sample : 2 ltrs
Type of Container : HDPE Bottle
Weather Condition : Overcast
Atmospheric temperature : 26 °C

Test Report No: ERSIPL/TR/WA/T-097

Sample ID. No.

1. ERSIPL/WA/229
2. ERSIPL/WA/230
3. ERSIPL/WA/231

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

S. No.	Test Parameters	Test Method	Unit	Result			Permissible Limit as per CTO
				ERSIPL /WA/ 229	ERSIPL /WA/ 230	ERSIPL /WA/ 231	
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

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

AMBIENT NOISE LEVEL MEASUREMENT REPORT

Date: 30 MAR 2024

Name and Address of the Customer : Orissa Metaliks Private Limited, Village: Marakuta,
Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha

Date of Measurement : 20.03.2024

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

Measurement taken in presence of : Representative of the Customer.

Sl. No.	Location	Result in dB (A) Leq		
		Day Time (6.00 A. M. - 10.00 P.M.)	Night Time (10.00 P.M. - 6.00 A.M.)	
1	Ambient	Near Main Gate	58.6	51.2
2		Near Administrative Building	53.5	46.8
3		Near Store Room	61.4	56.9
4	Source Places (Stationary Sources)	Near Boiler (WHRB-I & II)	73.4	68.9
5		Near Boiler (WHRB-III & IV)	71.9	68.3
6		Near Boiler (WHRB-V & VI)	68.6	66.8
7		Near Boiler (WHRB- VII & VIII)	73.7	69.0
8		Near AFBC Boiler	74.2	69.1
9		Near SMS	67.3	63.4
10		Near DG & Compressor	70.8	67.3

Ambient Noise Level Standards

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

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(Authorized Signatory)

S.P.Pattanayak

Town Manager



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AMBIENT NOISE LEVEL MEASUREMENT REPORT

Date: 23 FEB 2024

Name and Address of the Customer : Orissa Metaliks Private Limited, Village: Marakuta,
Tehsil: Jharsuguda, Dist: Jharsuguda, Odisha

Date of Measurement : 11.02.2024

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

Measurement taken in presence of : Representative of the Customer.

Sl. No.	Location		Result in dB (A) Leq	
			Day Time (6.00 A. M. - 10.00 P.M.)	Night Time (10.00 P.M. - 6.00 A.M.)
1	Ambient	Near Main Gate	64.3	56.5
2		Near Administrative Building	51.7	44.8
3		Near Store Room	67.2	62.4
4	Source Places (Stationary Sources)	Near Boiler (WHRB-I & II)	71.8	68.9
5		Near Boiler (WHRB-III & IV)	66.4	60.7
6		Near Boiler (WHRB-V & VI)	73.2	68.8
7		Near Boiler (WHRB- VII & VIII)	71.4	69.0
8		Near AFBC Boiler	74.0	68.7
9		Near SMS	68.3	63.7
10		Near RMHS	63.6	61.3

Ambient Noise Level Standards

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

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



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AMBIENT NOISE LEVEL MEASUREMENT REPORT

Date: 03 FEB 2024

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

Date of Measurement : 26.01.2024

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

Measurement taken in presence of : Representative of the Customer.

Sl. No.	Location	Result in dB (A) Leq		
		Day Time (6.00 A. M. - 10.00 P.M.)	Night Time (10.00 P.M. - 6.00 A.M.)	
1	Ambient	Near Main Gate	58.9	50.2
2		Near Administrative Building	51.6	44.7
3		Near Store Room	61.3	57.1
4	Source Places (Stationary Sources)	Near Boiler (WHRB-I)	73.9	68.0
5		Near Boiler (WHRB-II)	60.1	58.4
6		Near Boiler (WHRB-III)	66.3	61.6
7		Near Boiler (WHRB- IV)	64.8	60.3
8		Near SMS	67.2	63.7
9	Near AFBC Boiler	64.4	58.6	

Ambient Noise Level Standards

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

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

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



Environmental Research and Services (India) Pvt. Ltd.

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AMBIENT NOISE LEVEL MEASUREMENT REPORT

Date: 20 DEC 2023

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

Date of Measurement : 09.12.2023

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

Measurement taken in presence of : Representative of the Customer.

Sl. No.	Location	Result in dB (A) Leq		
		Day Time (6.00 A. M. - 10.00 P.M.)	Night Time (10.00 P.M. - 6.00 A.M.)	
1	Ambient	Near Main Gate	63.4	56.7
2		Near Administrative Building	58.7	49.8
3		Near Store Room	64.9	59.4
4	Source Places (Stationary Sources)	Near Boiler (WHRB-I)	70.3	67.9
5		Near Boiler (WHRB-II)	68.9	63.5
6		Near Boiler (WHRB-III)	67.4	61.7
7		Near Boiler (WHRB-IV)	67.8	61.3
8		Near SMS	70.6	67.8
9	Near AFBC Boiler	71.2	64.3	

Ambient Noise Level Standards

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

- Note-
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(Authorized Signatory)

S.P. Pattanayak
Tech. Manager

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



Environmental Research and Services (India) Pvt. Ltd.

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

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: 29 NOV 2023

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

Date of Measurement : 14.11.2023

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

Measurement taken in presence of : Representative of the Customer.

Sl. No.	Location		Result in dB (A) Leq	
			Day Time (6.00 A. M. – 10.00 P.M.)	Night Time (10.00 P.M. – 6.00 A.M.)
1	Ambient	Near Main Gate	55.4	50.5
2		Near Administrative Building	52.7	49.9
3		Near Store Room	65.2	62.1
4	Source Places (Stationary Sources)	Near Boiler (WHRB-I)	74.3	68.0
5		Near Boiler (WHRB-II)	73.9	69.2
6		Near Boiler (WHRB-III)	74.0	68.4
7		Near Boiler (WHRB-IV)	72.8	65.3
8		Near SMS	69.7	68.1
9		Near AFBC Boiler	74.2	66.6

Ambient Noise Level Standards

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

- Note-
- The test results relate only to the items sampled and tested.
 - 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 ERS (I) Pvt. Ltd.
 - Samples (Filter Papers & Thinbles) 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 law without prior written consent of ERS (I) Pvt. Ltd.

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

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



CIN - U73100OR1995PTC003889



GSTIN : 21AAACE6224D1ZE

Environmental Research and Services (India) Pvt. Ltd.

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

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

Date: 27 OCT 2023

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

Date of Measurement : 08.10.2023


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

Measurement taken in presence of : Representative of the Customer.

Sl. No.	Location	Result in dB (A) Leq	
		Day Time (6.00 A. M. - 10.00 P.M.)	Night Time (10.00 P.M. - 6.00 A.M.)
1	Near Main Gate	56.4	51.7
2	Ambient Near Administrative Building	51.7	48.9
3	Near Store Room	63.6	61.2
4	Source Near Boiler (WHRB-I)	73.9	69.2
5	Places Near Boiler (WHRB-II)	74.1	68.0
6	(Stationary Sources) Near Boiler (WHRB-III)	72.3	67.3
7	Near Boiler (WHRB-IV)	72.8	68.9
8	Near SMS	67.5	64.7
9	Near AFBC Boiler	73.2	66.1

Ambient Noise Level Standards

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


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

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

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



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ANNEXURE-XII

Form No. 31-A

HEALTH RECORD

(Pre-employment / Periodical)

[Prescribed under Rule 62-I]

Date: 04.03.2024

1. Name of the Factory	: M S P Metallics Limited
2. Name of the Employee	: Bhaskar Pradhan
3. Employee Distinguishing Number	: J.K. 099
4. Age of the Employee	: 24
Identification Mark	: one black mole on chest
Nature of the Job	: Helper
5. Date of Employment	: 04.03.24
6. Length of service in years	:
7. General Survey :	
Health	: Good/Fair/Poor
Height	: 158 Cms.
Weight	: 50 Kg.
8. Blood Group	: —
9. Eye Vision	: Normal / Abnormal
Use of glass	: Yes / No
10. Hearing	: Normal / Abnormal
11. Respiratory System and Chest Measurement	
Inspiration	: 65 Cms.
Expiration	: 60 Cms.
Respiration rate	: 18 /Min.
Remarks, if any	: nil
12. Cardiovascular System	
Pulse Rate	: 72 Min.
B.P	: 120/80 mm Hg
Heart Sound	: Normal
Remarks, If any	: nil
13. Abdomen Tenderness	: Yes / No
14. Nervous System	
History of Fits	: Yes/No
Epilepsy	: Yes/No
Remarks on Mental Health	: Good

- 15. Locomoter System : Normal/Abnormal ✓
- 16. Skin Condition : Normal/Abnormal
- 17. Remarks on any Skin disease Noticed : NIL
- 18. Hernias : Present/Absent ✓
- 19. Hydrocele : Present/Absent ✓
- 20. Present Complain, if any : NIL

- 21. Summary of Findings :
 - Heart disease :
 - Hypertension :
 - Diabetes :
 - T.B :
 - Epilepsy :
 - Poisoning :
 - Others :
 - Occupational disease, if any :

NIL

- 22. Recommendation if, any for any Further investigation :

Adv. - Blood Sr Test

G. Haskar Padhan
Signature of the Employee

[Signature]
Medical Officer
Signature of the Medical Officer
Regn. No. Regn No-6536 (Regd)
ORISSA METALIKS PVT LTD UNIT-3
Marakuta, Jharsuguda



Form No. 31-A

HEALTH RECORD

(Pre-employment / Periodical)
[Prescribed under Rule 62-I]

Date: 05.03.2024

1. Name of the Factory : **M S P Metallics Limited**
2. Name of the Employee : **Akash Rohi Das (7735874093)**
3. Employee Distinguishing Number : **Maa Samalegawari Ent. (814456167)**
4. Age of the Employee : **20**
- Identification Mark : **A black mole on neck**
- Nature of the Job : **Helper**
5. Date of Employment : **05.03.24**
6. Length of service in years :
7. General Survey :
 - Health : **Good/Fair/Poor**
 - Height : **5-3 (155) Cms.**
 - Weight : **52 Kg.**
8. Blood Group :
9. Eye Vision : **Normal / Abnormal**
- Use of glass : **Yes / No**
10. Hearing : **Normal / Abnormal**
11. Respiratory System and Chest Measurement
 - Inspiration : **60** Cms.
 - Expiration : **54** Cms.
 - Respiration rate : **16** /Min.
 - Remarks, if any : **Nil**
12. Cardiovascular System
 - Pulse Rate : **76** Min.
 - B.P : **125/85 mmHg**
 - Heart Sound : **Normal**
 - Remarks, if any : **Nil**
13. Abdomen Tenderness : **Yes / No**
14. Nervous System
 - History of Fits : **Yes/No**
 - Epilepsy : **Yes/No**
 - Remarks on Mental Health : **Good**



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Form No. 31-A

HEALTH RECORD

(Pre-employment / Periodical)

[Prescribed under Rule 62-1]

Date: 12/2/2024

- 1. Name of the Factory : **M S P Metalics Limited**
- 2. Name of the Employee : **Dipu Ram**
- 3. Employee Distinguishing Number : **AR Britan Engineers**
- 4. Age of the Employee : **23**
- Identification Mark : **Mole Mark on left Hand**
- Nature of the Job : **12-2-24 Helper**
- 5. Date of Employment : **12-2-24**
- 6. Length of service in years
- 7. General Survey :
 - Health : **Good/Fair/Poor**
 - Height : **165** Cms.
 - Weight : **50** Kg.
 - 8. Blood Group : **A +ve**
 - 9. Eye Vision : **Normal / Abnormal**
 - Use of glass : **Yes / No**
 - 10. Hearing : **Normal / Abnormal**
 - 11. Respiratory System and Chest Measurement
 - Inspiration : **85** Cms.
 - Expiration : **80** Cms.
 - Respiration rate : **18** /Min.
 - Remarks, if any : **Nil**
 - 12. Cardiovascular System
 - Pulse Rate : **72** Min.
 - B.P : **120/80 mmHg**
 - Heart Sound : **Normal**
 - Remarks, If any : **Nil**
 - 13. Abdomen Tenderness : **Yes / No**
 - 14. Nervous System
 - History of Fits : **Yes/No**
 - Epilepsy : **Yes/No**
 - Remarks on Mental Health : **Good**

15. Locomoter System : Normal/Abnormal
16. Skin Condition : Normal/Abnormal
17. Remarks on any Skin disease Noticed : *NEI*
18. Hearnias : Present/Absent
19. Hydrocele : Present/Absent
20. Present Complain, if any : *None*

21. Summary of Findings :
- Heart disease :
- Hypertension :
- Diabetes :
- T.B :
- Epilepsy :
- Poisoning :
- Others :
- Occupational disease, if any :

NEI

22. Recommendation if, any for any Further investigation :

Purvi Ram
Signature of the Employee

R. C. Sahu
Signature of the Medical Officer
Regn. No. *6906*
Medical Officer
Col. (Dr.) R. C. Sahu



Form No. 31-A

HEALTH RECORD

(Pre-employment / Periodical)

[Prescribed under Rule 62-1]

Date : _____

- | | |
|--|--|
| 1. Name of the Factory | : M S P Metallics Limited |
| 2. Name of the Employee | : Sadhanu COOLING Tower |
| 3. Employee Distinguishing Number | : MOSTAFAFIJU RAHAMAN |
| 4. Age of the Employee | : 33, Years |
| Identification Mark | : Right hand cut mark |
| Nature of the Job | : CPP cooling Tower |
| 5. Date of Employment | : 04/10/23 |
| 6. Length of service in years | : 04/10/23 |
| 7. General Survey : | |
| Health | : <input checked="" type="checkbox"/> Good/Fair/Poor |
| Height | : 5,2" Cms. |
| Weight | : 55 Kg. |
| 8. Blood Group | : A+ |
| 9. Eye Vision | : Normal / Abnormal |
| Use of glass | : Yes / No |
| 10. Hearing | : Normal / Abnormal |
| 11. Respiratory System and Chest Measurement | |
| Inspiration | : 88 Cms. |
| Expiration | : 83 Cms. |
| Respiration rate | : 17 /Min. |
| Remarks, if any | : nil |
| 12. Cardiovascular System | |
| Pulse Rate | : 72 Min. |
| B.P | : 120/80 mm/Hg |
| Heart Sound | : Normal |
| Remarks, If any | : nil |
| 13. Abdomen Tenderness | : Yes / No |
| 14. Nervous System | |
| History of Fits | : Yes/No |
| Epilepsy | : Yes/No |
| Remarks on Mental Health | : Good |

- 15. Locomoter System : ~~Normal/Abnormal~~
- 16. Skin Condition : ~~Normal/Abnormal~~
- 17. Remarks on any Skin disease Noticed : ~~None~~
- 18. Hernias : ~~Present/Absent~~
- 19. Hydrocele : ~~Present/Absent~~
- 20. Present Complain, if any : ~~None~~

- 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 :

SKMOSTAFALJU
Signature of the Employee

[Handwritten Signature]
Signature of the Medical Officer
Regn. No. 6958
(Retd.)
Medical Officer



Form No. 31-A

HEALTH RECORD
(Pre-employment / Periodical)
[Prescribed under Rule 62-I]

Date: 06.10.2023

1. Name of the Factory : **M S P Metallics Limited**
2. Name of the Employee : **Dipen sing Sancher**
3. Employee Distinguishing Number : **9 DPL 6726**
4. Age of the Employee : **24**
- Identification Mark : **A black mol in face**
- Nature of the Job : **Hyva Dvr**
5. Date of Employment : **06.10.23**
6. Length of service in years :
7. General Survey :
 - Health : **Good/Fair/Poor**
 - Height : **55** Cms.
 - Weight : **150** Kg.
8. Blood Group : **AB +ve**
9. Eye Vision : **Normal / Abnormal**
- Use of glass : **Yes / No**
10. Hearing : **Normal / Abnormal**
11. Respiratory System and Chest Measurement
 - Inspiration : **73** Cms.
 - Expiration : **69** Cms.
 - Respiration rate : **16** /Min.
 - Remarks, if any : **nil**
12. Cardiovascular System
 - Pulse Rate : **72** Min.
 - B.P : **120/80 mmHg**
 - Heart Sound : **normal**
 - Remarks, If any : **nil**
13. Abdomen Tenderness : **Yes / No**
14. Nervous System
 - History of Fits : **Yes/No**
 - Epilepsy : **Yes/No**
 - Remarks on Mental Health : **Good**

- 15. Locomoter System : Normal/Abnormal
- 16. Skin Condition : Normal/Abnormal
- 17. Remarks on any Skin disease Noticed : nil
- 18. Hearnias : Present/Absent
- 19. Hydrocele : Present/Absent
- 20. Present Complain, if any : nil

- 21. Summary of Findings :
 - Heart disease :
 - Hypertension :
 - Diabetes :
 - T.B :
 - Epilepsy :
 - Poisoning :
 - Others :
 - Occupational disease, if any : nil
- 22. Recommendation if, any for any Further investigation :

Dipen sing Sanjan
Signature of the Employee

[Signature]
Signature of the Medical Officer
 Regn. No. *R.B. 3111*
 (Retd.)
Medical Officer