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Submission of Six Monthly Environmental Clearance Compliance for April to September 2023. M/s. Metarolls Ispat Pvt. Ltd. Gut No.48, Adjacent to MIDC PHASE-II, Daregaon, Jalna.

Ramnarayan Bhakkad <rabhakkad@metarolls.com>

Thu, Nov 30, 2023 at 4:19 PM

To: eccompliance-mh@gov.in, psec.env@maharashtra.gov.in

Cc: srojalna@mpcb.gov.in

To,**The Regional Officer,**

Ministry of Environment, Forest & Climate Change,

Regional Office (WCZ), Ground Floor, East Wing,

New Secretariat Building, Civil Lines,

Nagpur, Maharashtra - 440001

Subject: Submission of Six Monthly Environmental Clearance Compliance for April to September 2023. M/s. Metarolls Ispat Pvt. Ltd. Gut No.48, Adjacent to MIDC PHASE-II, Daregaon, Jalna.

Ref. No.: Your issued EC: SEAC 2011/CR- 683/TC2 Dated: 30th Sep 2014**Period of EC Compliance: April to September 2023**

Dear Sir,

With reference to subject matter above, we are submitting Compliance for obtained Environmental Clearance from State Environment Impact Assessment Authority (SEIAA), Maharashtra to our Project **M/s. Metarolls Ispat Pvt. Ltd. Gut No.48, Adjacent to MIDC PHASE-II, Daregaon, Jalna**. We have received Environmental Clearance from SEIAA, Govt. of Maharashtra, MoEF & CC, New Delhi vide ref. no.: **SEAC 2011/CR- 683/TC2 Dated: 30th Sep 2014**. We are submitting the EC Compliance for the period of **April to September 2023** for your reference & further needful record.

Request you to kindly acknowledge the same.

Submitted for your kind perusal.

Yours Faithfully,

For M/s. Metarolls Ispat Pvt. Ltd.**Mr. Ramnarayan Bhakkad**

Enclosure: EC Compliance with its Annexure

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SIX MONTHLY EC COMPLIANCE REPORTS FOR DEC-2023.pdf
19497K

Ref. No.:

Date: / /2023

To,

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Ministry of Environment, Forest & Climate Change,
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For M/s. Metarolls Ispat Pvt. Ltd.


Mr. Ramnarayan Bhaskar
DGM



Enclosure: EC Compliance with its Annexure

Copy to:

1. The Sub Regional Officer, MPCB, Jalna.
2. SEIAA, Mumbai, Maharashtra.

Metarolls Ispat Private Limited

[CIN No.: U27101MH2002PTC135427]

Registered Office & Manufacturing Unit

Gut No. 48, Adjacent to M.I.D.C., Phase 2, Daregaon, Jalna - 431 2013 (MH) INDIA, ☎ +91 91122 20033, 77750 57057
E-mail: metarolls@threadedrebars.com Web site: www.metarolls.com www.threadedrebars.com



Government of Maharashtra

SEAC 2011/CR- 683/TC2
Environment department
Room No. 217, 2nd floor,
Mantralaya Annex,
Mumbai- 400 032.
Dated: 30th September, 2014

To,
M/s. Meta Rolls & Commodities Pvt. Ltd.
Gat No.48, Daregaon, Tal. & Dist. Jalna

Subject: Environment clearance for proposed project for the manufacture of TMT Bars 500 TPD(150000MTPA) at Gat No.48, Daregaon, Tal. & Dist Jalna by M/s. Meta Rolls & Commodities Pvt. Ltd

Sir,

This has reference to your communication on the above mentioned subject. The proposal was considered as per the EIA Notification, 2006, by the State Level Expert Appraisal Committee-I, Maharashtra in its 77th meeting and decided to recommend the project for prior environmental clearance to SEIAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its 73rd meeting.

2. It is noted that the proposal is for grant of Environment Clearance for proposed project for the manufacture of TMT Bars 500 TPD(150000MTPA) at Gat No.48, Daregaon, Tal. & Distt. Jalna. SEAC-I considered the project under screening category 3(a), B1 of EIA Notification 2006.

Brief Information of the project submitted by Project Proponent is as:

Name of the Project	Proposed capacity expansion of manufacturing of M.S. Billets from 6600 TPM to 13200 TPM & new unit of Rolling mill of 13200 TPM
Project Proponent	M/s. Meta Rolls & Commodities Pvt. Ltd. (MRCPL), Gut no. 48, Adjacent to MIDC Phase II Daregaon, Dist. Jalna, Maharashtra
Consultant	M/s Pollution & Ecology Control Services
New Project / Expansion	Expansion
If expansion/ Diversification, whether environmental clearance has been obtained for existing project .	The letter of environmental clearance is issued vide letter no. SEAC 2010/CR.173/TC.2 Dated- 29/12/2010 for M.S ingot & Billets plant of capacity from 3300 TPM to 6500TPM.
Activity schedule	B – 3(a)
Area Details	Total plot Area (sq. m.): 19.3 Acres Built up Area (sq. m.): - App. 17500 Sq. Mtr.
Name of the Notified Industrial area / MIDC area	Additional MIDC Area, Jalna
TOR given by SEAC? (if yes then specify the	<ul style="list-style-type: none">• Yes• 62nd meeting of the SEAC held on 6th to 8th November, 2012

meeting)																
Estimated capital cost of the project: (including cost of land, building, plant and machinery separately)	Existing plant : Rs 1452 lacs. Proposed Investment: Rs 9852 lacs. Total after expansion: Rs.11394 lacs.															
Location details of the project:	1. Latitude - 19°50'36.69"N 2. Longitude - 75°50'32.23"E 3. Location- Adjacent to MIDC Phase II Daregaon, Jalna in Maharashtra 4. Elevation above Mean Sea Level (meters) – 534 m															
Distance from protected Areas /Critically Polluted areas/ Eco-sensitive areas	No critically polluted area, No National Parks/Wild life Sanctuary within 10 km radius.															
Raw materials (including process chemicals, catalysts, & additives).	<table><tr><th>Sr. No</th><th>Name of the Product</th><th>Raw Material</th><th>Requirement</th></tr><tr><td>1</td><td>M.S. Billets</td><td>M.S. Scrap & Sponge Iron</td><td>13860 TPM (After Expansion)</td></tr><tr><td>2</td><td>TMT Bars</td><td>M.S. Billet in molten stage</td><td>13200 TPM</td></tr></table>				Sr. No	Name of the Product	Raw Material	Requirement	1	M.S. Billets	M.S. Scrap & Sponge Iron	13860 TPM (After Expansion)	2	TMT Bars	M.S. Billet in molten stage	13200 TPM
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Production details	<table><tr><th>Name of the Product</th><th>Existing Capacity TPM</th><th>Proposed Capacity TPM</th><th>Total Capacity TPM</th></tr><tr><td>M.S. Billets</td><td>6600</td><td>6600</td><td>13200</td></tr><tr><td>TMT Bars</td><td>-</td><td>13200</td><td>13200</td></tr></table>				Name of the Product	Existing Capacity TPM	Proposed Capacity TPM	Total Capacity TPM	M.S. Billets	6600	6600	13200	TMT Bars	-	13200	13200
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M.S. Billets	6600	6600	13200													
TMT Bars	-	13200	13200													
Process details / manufacturing details	M.S. Billets Plant and Rolling mill. The copy of the EIA is enclosed as Annexure I															
Rain Water Harvesting (RWH)	<ul style="list-style-type: none">Level of the Ground water tableSize and no. of RWH tank (s) and QuantityLocation of RWH tank (s)Size, nos. of recharge pits and QuantityBudgetary allocation (Capital cost and O&M cost)															
Total Water Requirement	Total water requirement: <ul style="list-style-type: none">Fresh water (CMD): 200 m³/day & Source – Captive bore wellRecycled water (CMD): 90 m³/day Use of the water : Domestic use: 3 m ³ /day, Cooling purpose : 100 m ³ /day Gardening : 2 m ³ /day, Scrubber : 95 m ³ /day															
Storm water drainage	<ul style="list-style-type: none">Natural water drainage pattern - Quantity of storm waterSize of SWD															
Sewage generation and treatment	<ul style="list-style-type: none">Amount of sewage generation (CMD) - 2 m³/dayProposed treatment for the sewage – Sewage will be treated in septic tank followed by soak pitCapacity of the STP (CMD) (If applicable) - NA															
Solid waste Management:	<table><tr><th>Sr.</th><th>Source</th><th>Qty (TPM)</th><th>Composition</th></tr><tr><td>1.</td><td>Raw water</td><td>Nil</td><td></td></tr></table>				Sr.	Source	Qty (TPM)	Composition	1.	Raw water	Nil					
Sr.	Source	Qty (TPM)	Composition													
1.	Raw water	Nil														

		treatment plant					
	2	ETP		Nil			
	3.	Process		Existing quantity 330 TPM Proposed Quantity 330 TPM		Slag from Induction Furnace	
	If waste (s) contains any hazardous/toxic substance/radioactive materials or heavy metals, provide quantity, disposal data and proposed precautionary measures. <ul style="list-style-type: none">What are the possibilities of recovery and recycling of wastes?Possible users of Solid waste – Since the solid waste generated from induction furnace is non hazardous and non toxic in nature it can be use in hardening of working area, possibilities can be explore for its use in construction of internal village roads, and filling of stone quarry pits and brick maker.Method of disposal of solid waste – Slag generated is crushed at site. Iron particles are separated by using magnetic separator. Crushed slag (Sand) is being used in hardening of working area and brick making.						
Stack Emission Details:	Plant Section & units	Stack No.	Height from ground level (m)	Internal Diameter (TOP) (m)	Emission Rate		Temp. of Exhaust Gases
					For SO ₂	For NO _x	
	Stack attached to Induction Furnace	1 st	30 m	1.6 m	-		50° C
Ambient Air Quality Data	Pollutant	Permissible Standard		Predicted Concentration (in µg/m ³)		Remarks	
	SPM	PM ₁₀ - 100 µg/m ³ , PM _{2.5} - 60 µg/m ³		PM ₁₀ - 30.1 to 52.1µg/m ³ . PM _{2.5} -10.6 to 15.7 µg/m ³		All parameters will be within limits after commissioning of the plant.	
	SO ₂	80 µg/m ³		SO ₂ - 7.2 to 12.7 µg/m ³			
	NO _x	80 µg/m ³		NO _x - 8.2 to 15.8 µg/m ³			
	CO	4 mg/m ³		-			
Energy	Power supply: <ul style="list-style-type: none">Existing power requirement: 9000KVA, • Proposed power requirement: 20 MW DG sets: Number and capacity DG sets to be used (existing and proposed) : 750 KVA						
Green Belt Development	<ul style="list-style-type: none">Green belt area (Sq. m.): 33% of total landNumber and species of trees to be planted - Approximately 1600 trees per Ha will be planted in consultation with the local Forest DepartmentNumber, size, age and species of trees to be cut, trees to be transplanted						

Details of Pollution Control Systems:	Sr. No.		Existing pollution control system	Proposed to be installed
	i.	Air	Ventuary scrubber followed by stack of 30 mt height.	Ventuary scrubber followed by stack of 30 mt height.
	ii.	Water	Settling Tank	Settling Tank
	iii.	Noise	Ear muffs/ear plugs are provided to the workers, Acoustic laggings and silencers are provided in equipment	Ear muffs/ear plugs will be provided to the workers, Acoustic laggings and silencers will be provided in equipment
	iv)	Solid Waste	Slag Crusher	Slag Crusher
Environmental Management Plan Budgetary Allocation	Sr.No.		Recurring Cost per annum in Rs.	Capital cost in Rs.
	1.	Air Pollution Control	0.5 Cr.	2.5 Cr.
	2.	Water Pollution Control	0.05 Cr.	0.40 Cr.
	3.	Noise Pollution Control	-	-
	4.	Environment Monitoring and Management	0.03 Cr	0.05 Cr.
	5.	Reclamation borrow/mined area (If applicable)	-	-
	6.	Occupational Health		
	7.	Green Belt	0.07 Cr.	0.10 Cr
	8.	Solid waste management	0.1 Cr.	0.50 Cr.
	9.	Rain water harvesting	0.10 Cr.	0.80 Cr
	10	Environmental Study and devices	0.05 Cr	0.15 Cr.
	Total		Rs. 0.90 Cr.	Rs. 4.50 Crores
EIA Submitted (If yes then submit the salient features)	Period of data collected – November, December, January 2012-13 • Details of the primary data collection (i.e. location of the sample collection, number of visit, etc) • Details of the secondary data collection (i.e. Source and year of data) • Potential hazard and mitigation measures • Conclusion of the EIA study			
Public Hearing report (If public hearing conducted then submit the salient features)	• Date of the public hearing – 29/6/2013 • Name of the news paper in which the advertisement appeared (Please attach the copy) Daily Sakal , Daily Lokmat Times • Location of the public hearing- Project site Daregaon • Number of people attended the hearing			

	• Objection(s) / Suggestion(s) if any: Minutes of Public hearing is attached in EIA report.
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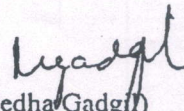
3. The proposal has been considered by SEIAA in its 73rd meeting & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions :

- (i) No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
- (ii) This environmental clearance is issued subject to obtaining NOC from Forestry & Wild life angle including clearance from the standing committee of the National Board for Wild life as if applicable & this environment clearance does not necessarily implies that Forestry & Wild life clearance granted to the project which will be considered separately on merit.
- (iii) For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.
- (iv) PP has to abide by the conditions stipulated by SEAC & SEIAA.
- (v) Regular monitoring of the air quality, including SPM & SO₂ levels both in work zone and ambient air shall be carried out in and around the power plant and records shall be maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit report accordingly to MPCB.
- (vi) Necessary arrangement shall be made for adequate safety and ventilation arrangement in furnace area.
- (vii) Proper Housekeeping programs shall be implemented.
- (viii) In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.
- (ix) Stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set.(If applicable)
- (x) A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
- (xi) Arrangement shall be made that effluent and storm water does not get mixed.
- (xii) Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.

- (xiii) The overall noise levels in and around the plant shall be kept well within the standards 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 Environment (Protection) Act, 1986 Rules, 1989.
- (xiv) Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.
- (xv) Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Smoke and Heat detection devices shall also be installed at strategic places for early detection and warning.
- (xvi) Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.
- (xvii) The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
- (xviii) The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes.
- (xix) The company shall undertake following Waste Minimization Measures :
 - Metering of quantities of active ingredients to minimize waste.
 - Reuse of by- products from the process as raw materials or as raw material substitutes in other process.
 - Maximizing Recoveries.
 - Use of automated material transfer system to minimize spillage.
- (xx) Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.
- (xxi) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
- (xxii) Transportation of ash will be through closed containers and all measures should be taken to prevent spilling of the ash.
- (xxiii) Separate silos will be provided for collecting and storing bottom ash and fly ash.
- (xxiv) Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project cost.
- (xxv) The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department.

- (xxvi) The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at <http://ec.maharashtra.gov.in>
- (xxvii) Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.
- (xxviii) A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation 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.
- (xxix) The proponent shall upload the status of compliance of the stipulated EC 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 MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectorial parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- (xxx) Six monthly monitoring reports should be submitted to the Regional office MoEF, Bhopal with copy to this department and MPCB.
- (xxxi) A complete set of all the documents submitted to Department should be forwarded to the Local authority and MPCB.
- (xxxii) The environmental clearance is being issued without prejudice to the court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him.
4. The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.
 5. The Environment department reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.
 6. **Validity of Environment Clearance:** The environmental clearance accorded shall be valid for a period of 5 years to start of production operations.

7. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.
8. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.
9. Any appeal against this environmental clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1st Floor, D-, Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
10. This Environment Clearance is issued for proposed project for the manufacture of TMT Bars 500 TPD(150000MTPA) at Gat No.48, Daregaon, Tal. & Dist Jalna by M/s. Meta Rolls & Commodities Pvt. Ltd


(Medha Gadgil)
Additional Chief Secretary,
Environment department &
MS, SEIAA

Copy to:

1. Shri. R. C. Joshi, IAS (Retd.), Chairman, SEIAA, Flat No. 26, Belvedere, Bhulabhai desai road, Breach candy, Mumbai- 400026.
2. Shri T. C. Benjamin, IAS (Retired), Chairman, SEAC-I, 602, PECAN, Marigold, Behind Gold Adlabs, Kalyani Nagar, Pune - 411014.
3. Additional Secretary, MoEF & CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.
4. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.
5. The CCF, Regional Office, Ministry of Environment and Forest (Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No- 3, E-5, Ravi-Shankar Nagar, Bhopal- 462 016). (MP).
6. Regional Office, MPCB, Jalna
7. CEO, MIDC, Jalna

8. IA- Division, Monitoring Cell, MoEF & CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.

9. Select file (TC-3)

(EC uploaded on 9/10/2014)

**Compliance of Environment Clearance Condition granted for proposed project for the
Manufacturing of TMT Bars 500 TPD (150000MTPA) by M/s. Meta Rolls &
Commodities Pvt. Ltd. at Daregaon, Jalna, Maharashtra.**

Environmental Clearance No.: SEAC 2011/CR-683/TC2 dated 30.09.2014.

EC Compliance Period: October to March 2023

Sr. No.	Conditions	Reply
Specific Conditions		
i.	No additional land shall be used / acquired for any activity of the project without obtaining proper permission	Expansion of the project in the existing plot area of 7.71 Ha land at Gut No. 48 adjacent to MIDC phase II, Daregon village, Jalna, Maharashtra. If additional land required, company shall seek permission from the relevant authorities.
ii.	This environmental clearance is issued subject to obtaining NOC from forestry & wild life angel including clearance from standing committee of the National Board for Wildlife as if applicable & this environmental clearance does not necessarily implies that forestry & wild life clearance granted to the project which will be considered separately.	The area does not fall under the forestry or wildlife categories. Therefore, NOC is Not Applicable.
iii.	For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distance in vulnerable areas of the plant shall be used.	Water Sprinkling arrangement has been made for controlling the fugitive emissions. The plant has dust controllers and collection systems, de-dusting systems, and dust suppression systems in place to reduce fugitive emissions. To control any dust, the project site's entrance road and internal roadways are regularly misted with water. The project site's perimeter is completely surrounded by

		greenery, which serves as a buffer against generated noise and dispersed dust.
iv.	PP has to abide the conditions stipulated by SEAC & SEIAA.	PP has agreed and Complied with abide conditions stipulated by SEAC & SEIAA.
v.	Regular monitoring of the air quality, including SPM & SO ₂ Levels both in the work zone ambient air shall be carried out in and around the power plant records shall be maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit report accordingly to MPCB	The company regularly test the air quality for the criteria PM10, PM2.5, SO ₂ & NO _x levels in both the work zone and ambient air. The monitoring results are well within MoEF&CC's permitted level. The MoEF&CC and the relevant Sub Regional Office of the MPCB receive frequent submissions of monitoring results together with EC Compliance reports. Monitoring reports for both workplace and ambient air quality are enclosed.
vi.	Necessary arrangement shall be made for adequate safety and ventilation arrangement in furnace area.	Firefighting system with fire extinguisher is built at the furnace area and office premises. Adequate ventilation system is made in furnace area. Side suction exhaust system with dust collection system followed by bag filter has been provided for extraction of fumes from furnace.
vii.	Proper Housekeeping program shall be implemented.	Regular cleaning, proper housekeeping and water sprinkling is carried out on day-to-day basis.
viii.	In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	Company ensured that in case failure of APC system, unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieve
ix.	Stack of adequate height based on DG set capacity shall be provided for control and	In accordance with CPCB regulations, an adequate stack height has been rooted out, and DG set stacks have been equipped with

	dispersion of pollutant from DG set. (If applicable)	an acoustic enclosure to reduce the noise generates.
x.	A detailed scheme for rainwater harvesting shall be prepared and implement to recharge ground water.	Rainwater is collected in tank for storage and is utilized in plant. Rainwater from roof tops and other open areas within the plant is being collected and sent to storage pond (of Industries in MIDC) which is 12 Crore liters capacity. 42,323.44 m ³ of quantity of rainwater is being conserved annually.
xi.	Arrangement shall be made that effluent and storm water does not get mixed.	<p>Separate rainwater drainage has been arranged so that no effluent mixes with storm water. Only domestic water is generated as effluent.</p> <p>Also, PP submitted that the project has already initiated the procurement of STP for the treatment of sewage generated at the project.</p>
xii.	Noise level shall be maintained as per standards. For people working in the high noise area. Requisite personal protective equipment like earplugs etc. shall be provided.	Regular routine noise monitoring at project site. People working in the high noise area are provided with personal protective equipment like earplugs and ear muffs.
xiii.	The overall noise levels in and around the plant shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient noise level shall be confirm to the standards prescribe under Environment (protection) Act 1986 Rules, 1989.	<ul style="list-style-type: none"> • Use of well-maintained equipment fitted with silencers. • Providing noise shields near the heavy construction operations. • Noisy operations are being limited to day time only. • Ear plug and muffs are provided to workers.

xiv.	Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.	<ul style="list-style-type: none"> The area earmarked for green belt development. We have planted 1828 till March 2023 & in Rain we planted other 1785 more indigenous trees such as Karanj, Peepal, Neem, Jamun, and others suitable trees in earmarked land for green belt. After consultation with local DFO. Green belt developed around plant periphery.
xv.	Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Smoke and heat detection device shall also be installed at strategic places for early detection and warning.	The hazard potential and estimation of consequences in case of its accidental release are the issues of immediate relevance to be considered. No hazardous chemicals are being used in plant. Firefighting system with fire extinguisher is present at furnace and office. We are taking precaution to limit the risk zone within plant's boundaries.
xvi.	Occupational health surveillance of the workers shall be done regular basis and record maintained as per Factories Act.	A department for safety and environment is formed, suitable health-related measures are put in place to provide the best possible hygienic condition inside plant area, and worker health checkup are carried out once in a year and the records are maintained.
xvii.	The company shall make the arrangement for Protection of possible fire hazards during manufacturing process in material handling.	For the prevention of potential fire threats during manufacturing and material handling, fire hydrants and firefighting equipment have been installed, and we constantly perform safety training for employees to keep them updated about the existing protection systems.
xviii.	The project authorities must strictly comply with the rules and regulation with regard to	As per consent granted by MPCB, No hazardous materials are used in the

	the handling and disposal of hazardous wastes in accordance with the hazardous waste (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collection /treatments / storage / disposal of hazardous waste.	manufacturing process, no toxic substances are produced as products, and no hazardous waste gets generated.
xix.	The company shall undertake following waste minimization measures.	
1.	Metering of quantities of active ingredients to minimize waste.	Utilizing scrap with the highest level of productive quality and shredding it into tiny pieces, we constantly strive to reduce the waste produced by our operations
2.	Reuse of by products from the process as raw materials or as raw material substitutes in other process.	Iron particles shall be separated by using Magnetic Separator which shall be reused in Induction Furnace. Crushed slag after removal of Iron particle shall be used for making either crushed sand or shall be used for internal road making or sold to brick manufacturers.
3.	Maximizing Recoveries.	Iron particles shall be recovered by using Magnetic Separator which shall be reused in Induction Furnace.
4.	Use of automated material transfer system to minimize spillage.	We have an automatic scrap collection system that uses magnets in order to collect scrap; the scrap it collects is then immediately put into the furnace.
xx.	Regular mock drills for the onsite emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the onsite management plan shall be ensured.	Regular mock drill and safety training are done as part of emergency management plan. In case of an emergency, first aid facilities are made available at project site.
xxi.	A separate environment management cell with qualified staff shall be set up for	A 5 person's team composed of qualified employees, comprising an EHS Manager

	implementation of the stipulated environmental safeguards.	and a Safety Officer, has been appointed. To handle all environmental and safety-related concerns, we have set up a fully functional environment management cell
xxii.	Transportation of ash will be through closed containers and all measures should be taken prevent spelling of the ash.	No ash is being generated from project. Given Condition Not Applicable.
xxiii.	Separate silos will be provided for collection and strong bottom ash and fly ash.	No ash is being generated from project. Given Condition Not Applicable.
xxiv.	Separate funds shall be allocated for implementation of environmental protection measures/ EMP along with item wise breaks up these cost shall be included as part of the project cost.	We have earmarked the separate fund for Environmental protection measures in which Rs.10.0 Cr and Rs.0.90 Cr allotted for capital and recurring expenditure for Environmental protection and year-wise expenditure submitted to the MPCB and MoEF&CC department.
xxv.	The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department.	We have earmarked the separate fund for Environmental protection measures in which Rs.10.0 Cr and Rs.0.90Cr allotted for capital and recurring expenditure for Environmental protection and year-wise expenditure submitted to the MPCB and MoEF&CC department.
xxvi.	The project management shall advertise at least in two local newspapers widely circulated in the region around the project on of which shall be in Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance letter are available with the Maharashtra pollution control Board and may also be seen at website at http://ec.maharashtra.gov.in	The advertisement was published in both English and Marathi in two extensively circulated local newspaper in the area.

xxvii.	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and condition in hard & soft copies to the MPCB & this department, on 1 st June & 1 st Dec of each calendar year.	Six monthly compliance report in respect of the stipulated prior environment clearance terms and conditions being submitted by us regularly in time and soft copy mailed to MoEF&CC Regional Office and hard copy to MPCB.
xxviii.	A copy of the clearance letter shall be sent by proponent to the concerned municipal corporation 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.	The company's website also contains a copy of the clearance letter that was sent to the relevant local authority, municipal council, or corporation.
xxix.	The proponent shall upload the status of compliance of the stipulated EC 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 MOEF, the respective zonal office of CPB and SPCB. The criteria pollutant levels namely, SPM, RSPM, SO ₂ , NO _x (ambient levels as well stack emissions) or critical sectorial parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	We are submitting the six-monthly compliance report in respect of EC conditions along with monitoring reports, to the respective MoEF&CC Regional Office and MPCB office by soft and hard copies, and uploading the same on the industry website. The criteria of the pollutant levels, SPM, RSPM, SO ₂ & NO _x are displayed on the LED based Board near to the main gate of the industry.
xxx.	Six Monthly monitoring reports should be submitted to the regional office MOEF, Bhopal with copy to this department and MPCB.	Six monthly compliance report along with monitoring data is submitted by us regularly in time and soft copy mailed to MoEF&CC Regional Office and hard copy to MPCB

xxxi.	A complete set of all the documents submitted to Department should be forwarded to the Local authority and MPCB.	As informed documents have been submitted to MPCB
xxxii.	The environmental clearance is being issued without prejudice to the court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision of the Hon'ble court will be binding on the project proponent. Hence, this clearance does not give immunity to the project proponent in the case filed against him.	Agreed and Complied
xxxiii.	The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and It does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.	Agreed and Complied
xxxiv.	The Environment department reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.	Agreed and Complied
xxxv.	Validity of Environment Clearance: The environmental clearance accorded shall be valid for a period of 5 years to start of production operations.	Agreed and Complied

xxxvi.	In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.	Agreed and Complied
xxxvii.	The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.	Agreed and Complied
xxxviii.	Any appeal against this environmental clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1" Floor, D-, Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Agreed and Complied
xxxix.	This Environment Clearance is issued for proposed project for the manufacture of TMT Bars 500 TPD (150000MTPA) at Gat No. 48, Daregaon, Tal. & Dist. Jalna by M/s. Meta Rolls & Commodities Pvt. Ltd	Agreed and Complied



जाहीर प्रगटन
मेटा रोलस अँड कमोडीटीज प्रा.ली.
जालना या प्रगटनाद्वारे जाहीर सुचित
करतो की, पर्यावरण विभाग, महाराष्ट्र
राज्य यांनी आमच्या मेटा रोलस अँड
कमोडीटीजी प्रा.ली.च्या बिलेट
उत्पादनाच्या विस्तारीकरण प्रकल्प
क्षमता ५०० मेट्रीक टन प्रतिदिन गट क्र.
४८ औद्योगिक वसाहत जवळ, दरेगाव
जालनासाठी पर्यावरण मंजूरी दिली
आहे. जीचा क्र. SEA 2014/CR-
32/TC-2 दिनांक ३० ऑक्टोबर
२०१४ असून दिनांक ०७ ऑक्टोबर
२०१४ रोजी पर्यावरण विभागाच्या
सांकेतिक स्थळावर प्रकाशित केला
आहे. सदर पर्यावरण मंजूरीची प्रत
आमचे कार्यालय तसेच महाराष्ट्र प्रदुषण
नियंत्रण महंडळ यांच्या कार्यालयात
उपलब्ध आहे. संकेत स्थळ
ec.maharashtra.gov.in
मेटा रोलस अँड कमोडीटीज
प्रा.ली. जालना
(CIN No. U27101MH2002PTC135427)

SUNDAY 19 | OCTOBER 2014

AURANGABAD

Lokmat Times

www.epaper.lokmat.com/lokmattimes/

Public Notice

We, **M/S Meta Rolls & Commodities Pvt Ltd.** Hereby bring to the notice that Government of Maharashtra Environment Department has granted "ENVIRONMENTAL CLEARANCE" on Dated 30th September 2014, and subsequently uploaded on web site on dated 07/10/2014, file bearing number : SEAC-2014 / CR-32 / TC - 2 for our expansion project **M/s Meta Rolls & Commodities Pvt. Ltd.** with capacity of Billet 500 MTD, at Gut No.48, Adjacent to MIDC, Phase II, Daregaon, Jalna, District : Jalna (Maharashtra) The clearance letter is available with our office, Regional office M.P.C.B. Aurangabad & on the website of Govt. Maharashtra, Envi. Dept. (ec.maharashtra.gov.in)

**M/s Meta Rolls & Commodities
Pvt. Ltd.**

(CIN No.U27101MH2002PTC135427)

MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/24010437
Fax: 24023516
Website: <http://mpcb.gov.in>
Email: cac-cell@mpcb.gov.in



Kalpataru Point, 2nd and
4th floor, Opp. Cine Planet
Cinema, Near Sion Circle,
Sion (E), Mumbai-400022

RED/L.S.I (O63)
No:- Format1.0/CC/UAN No.MPCB-
CONSENT-0000167264/CR/2307000406

Date: 07/07/2023

To,
M/s. Metarolls Ispat Pvt. Ltd.,
Gut No. 48, Adjacent to MIDC Phase - II, Daregaon,
Jalna.



Sub: Grant of Renewal of Consent to Operate with increase in capital investment under Red category.

- Ref:**
1. Environmental Clearance granted by Environment Department GoM vide dtd. 30/09/2014.
 2. Earlier Consent to Operate granted by the Board vide no. CC/UAN No. 0000116876 / CR / 2205000702 dtd. 12/05/2022.
 3. Minutes of 11th Consent Committee Meeting held on 07/07/2023.

Your application No.MPCB-CONSENT-0000167264 Dated 01.04.2023

For: Grant of Consent to Renewal under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 6 and Rule 18(7) of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules 2016 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. **The consent to renewal is granted for a period up to 30/06/2024**
2. **The capital investment of the project is Rs.128.52 Crs. (As per C.A Certificate submitted by industry CI of existing Consent is Rs. 74.6 Cr. + Additional / Increased CI Rs. 53.92 Cr.)**
3. **Consent is valid for the manufacture of:**

Sr No	Product	Maximum Quantity	UOM
Products			
1	MS BILLETS	158400	MT/A
2	MS TMT BARS	158400	MT/A

4. **Conditions under Water (P&CP), 1974 Act for discharge of effluent:**

Sr No	Description	Permitted (in CMD)	Standards to	Disposal Path
1.	Trade effluent	0.0	As per Schedule-I	Not Applicable

Sr No	Description	Permitted	Standards to	Disposal
2.	Domestic effluent	4.2	As per Schedule-I	On land for gardening

5. **Conditions under Air (P& CP) Act, 1981 for air emissions:**

Sr No.	Stack No.	Description of stack / source	Number of Stack	Standards to be achieved
1	S1	Induction Furnace (28 T)	1	As per Schedule -II
2	S2	Induction Furnace (30 T)	1	As per Schedule -II
3	S3	DG Set of 1000 KVA	1	As per Schedule -II
4	S4	DG Set of 500 KVA	1	As per Schedule -II

6. **Non-Hazardous Wastes:**

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
1	SLAG	18	MT/Day	Sale	used for hardening of internal road / working area/used as sand in construction.

7. **Conditions under Hazardous & Other Wastes (M & T M) Rules 2016 for Collection, Segregation, Storage, Transportation, Treatment and Disposal of hazardous waste:**

Sr No	Category No./ Type	Quantity	UoM	Treatment	Disposal
NA					

8. The Board reserves the right to review, amend, suspend, revoke this consent and the same shall be binding on the industry.
9. This consent should not be construed as exemption from obtaining necessary NOC/ permission from any other Government authorities.
10. The applicant shall obtain necessary permission from the Directorate of Industrial Safety and Health (DISH).
11. The applicant shall strictly comply with the conditions of Environmental Clearance granted by Environment Department GoM vide dtd. 30/9/2014.
12. This consent is issued pursuant to the decision of the 11th Consent Committee Meeting held on 07/07/2023.
13. The industry shall obtain necessary permission from the Directorate of Industrial Safety and Health (DISH).
14. The applicant shall not carry out any excess production or produce new products without obtaining Consent of the Board and without obtaining Environmental Clearance wherever it applicable.

15. This consent is issued with Overriding effect to earlier consent to operate granted by the Board vide No.CC/UAN No.MPCB-Consent-0000167277/CR/2307000397 dated 07/07/2023
16. The applicant shall make an application for renewal of consent 60 days prior to date of expiry of the consent.
- . This consent is issued as per communication letter dated 03/11/2022 which is approved by competent authority of the board.

Received Consent fee of -

Sr.No	Amount(Rs.)	Transaction/DR.No.	Date	Transaction Type
1	1285200.00	TXN2306002017	14/06/2023	Online Payment

Fees of Rs. 1.0 Lakh balanced with the Board as per the earlier C to O is deducted towards C to E for increased CI. Fees of Rs.928160/- is balanced with the Board and same will be adjusted at the time of next renewal.

Copy to:

1. Regional Officer, MPCB, Aurangabad and Sub-Regional Officer, MPCB, Jalna
- They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Sion, Mumbai
3. SRO Jalna:- Directed to submit verification report regarding installation of bag filter after completion of schedule.

SCHEDULE-I

Terms & conditions for compliance of Water Pollution Control:

1. A] Generation - As per your application the treated effluent generation is Nil.
B] Treatment - NA
C] Disposal - NA
2. A] As per your application, you have provided Septic Tank followed by Soak pit for the treatment of 4.2 CMD of sewage.
B] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards.

Sr.No	Parameters	Standards (mg/l)	
1	Suspended Solids	Not to exceed	50
2	BOD 3 days 27°C	Not to exceed	30
3	COD	Not to exceed	100

- C] The treated sewage shall be reused / recycled for the maximum extent for secondary purpose & remaining shall be used on land for gardening purpose. In no case treated / untreated effluent shall find it's way out side the factory premises.
3. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification there of & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.
4. The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
5. The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and as amended, by installing water meters and other provisions as contained in the said act:

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	185.00
2.	Domestic purpose	4.50
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	0.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00
5.	Gardening	5.00

6. The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance/ CREP guidelines.

SCHEDULE-II

Terms & conditions for compliance of Air Pollution Control:

1. As per your application, you have provided the Air pollution control (APC) system and erected following stack (s) to observe the following fuel pattern:

Stack No.	Source	APC System provided/proposed	Stack Height(in mtr)	Type of Fuel	Sulphur Content(in %)	Pollutant	Standard
S1	Induction Furnace (29 T)	Fume Extraction system followed by bag filter alongwith alternative secondary fume extraction system.	35.00	Electricity. 00 --NA--	-	TPM	100 Mg/Nm ³
S2	Induction Furnace (30 T)	Fume Extraction system followed by wet scrubber alongwith alternative secondary fume extraction system.	35.00	Electricity. 00 --NA--	-	TPM	100 Mg/Nm ³
S3	DG Set of 1000 KVA	Acoustic Enclosure	5.00	HSD 50 Lit/Day	1	SO2	1.0 Kg/Day
S4	DG Set of 500 KVA	Acoustic Enclosure	5.00	HSD 50 Lit/Day	1	SO2	1.0 Kg/Day

2. The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines.
3. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
4. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).

SCHEDULE-III

Details of Bank Guarantees:

Sr. No	Consent (C2E/C2O/C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	Renewal of Consent to Operate	Rs. 10.0 Lakh	15 days.	Towards O & M of pollution control systems and compliance of Consent conditions.	Continuous.	31/12/2024.

BG Forfeiture History

Srno.	Consent (C2E/C2O/C2R)	Amount of BG imposed	Submission Period	Purpose of BG	Amount of BG Forfeiture	Reason of BG Forfeiture
NA						

BG Return details

Srno.	Consent (C2E/C2O/C2R)	BG imposed	Purpose of BG	Amount of BG Returned
NA				



SCHEDULE-IV
General Conditions:

1. The Energy source for lighting purpose shall preferably be LED based
2. The PP shall harvest rainwater from roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial applications within the plant
3. Conditions for D.G. Set
 - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
 - b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
 - c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
 - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
 - f) D.G. Set shall be operated only in case of power failure.
 - g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
 - h) The applicant shall comply with the notification of MoEFCC, India on Environment (Protection) second Amendment Rules vide GSR 371(E) dated 17.05.2002 and its amendments regarding noise limit for generator sets run with diesel.
4. The applicant shall maintain good housekeeping.
5. The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
6. The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
7. The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
8. The industry shall submit quarterly statement in respect of industries obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can be downloaded from MPCB official site).
9. The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
10. The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification No. B-29016/20/90/PCI-L dated. 18.11.2009 as amended.
11. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.

12. The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
13. The PP shall provide personal protection equipment as per norms of Factory Act
14. Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
15. Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
16. The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
17. The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the Hazardous and Other Wastes (M & TM) Rules 2016, which can be recycled /processed /reused /recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc. should go for that purpose, in order to reduce load on incineration and landfill site/environment.
18. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
19. Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website (www.mpcb.gov.in).
20. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
21. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
22. The industry should not cause any nuisance in surrounding area.
23. The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
24. The industry shall create the Environmental Cell by appointing an Environmental Engineer, Chemist and Agriculture expert for looking after day to day activities related to Environment and irrigation field where treated effluent is used for irrigation.
25. The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.

26. The industry should comply with the Hazardous and Other Wastes (M & TM) Rules, 2016 and submit the Annual Returns as per Rule 6(5) & 20(2) of Hazardous and Other Wastes (M & TM) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.
27. The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
28. The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.
29. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions.
30. The firm shall submit to this office, the 30th day of September every year, the Environment Statement Report for the financial year ending 31st March in the prescribed FORM-V as per the provisions of Rule 14 of the Environment (Protection) (second Amendment) Rules, 1992.
31. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
32. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
33. The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.

This certificate is digitally & electronically signed.



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2023

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000059216

Submitted Date

25-09-2023

PART A

Company Information

Company Name

M/S: METAROLLS ISPAT PVT. LTD.

Application UAN number

MPCB-CONSENT-0000167264

Address

GUT NO. 48, ADJECENT TO MIDC
PHASE-II, DAREGAON, JALNA.

Plot no

GUT NO: 48

Taluka

JALNA

Village

DAREGAON, ADJECENT TO ADDL. MIDC
JALNA

Capital Investment (In lakhs)

12852

Scale

LSI

City

JALNA

Pincode

431203

Person Name

R A BHAKKAD

Designation

DGM

Telephone Number

02482220036

Fax Number

00

Email

rabhakkad@metarolls.com

Region

SRO-Jalna

Industry Category

Red

Industry Type

R53 Iron & Steel (involving processing
from ore/ integrated steel plants) and
or Sponge Iron units

Last Environmental statement submitted online

yes

Consent Number

Format1.0/CC/UAN No.MPCB-
CONSENT-0000167264/CR/2307000406

Consent Issue Date

2023-07-07

Consent Valid Upto

2024-06-30

Establishment Year

0

Date of last environment statement submitted

Sep 17 2022 12:00:00:000AM

Industry Category Primary (STC Code) & Secondary (STC Code)

Product Information

Product Name

MS BILLETS

Consent Quantity

158400

Actual Quantity

157943.780

UOM

MT/A

MS TMT BARS

158400

155208.597

MT/A

By-product Information

By Product Name

Consent Quantity

Actual Quantity

UOM

Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day		
Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
	0.00	0.00
Cooling	185.00	171.00
Domestic	4.50	4.00
All others	0.00	0.00
Total	189.50	175.00

2) Effluent Generation in CMD / MLD			
Particulars	Consent Quantity	Actual Quantity	UOM
NA	00	00	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)			
Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
MS BILLETS	0.2	0.7	CMD
MS TMT BARS	0.2	0.5	CMD

3) Raw Material Consumption (Consumption of raw material per unit of product)			
Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
MS SCRAP AND SPONGE IRON	167857.353	165827.330	MT/A
MS BILLETS	157958.060	157943.780	MT/A

4) Fuel Consumption			
Fuel Name	Consent quantity	Actual Quantity	UOM
ELECTRICITY	00	223490.449	Mwh
HSD	36	4	KL/A

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)					
[A] Water					
Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
NA	00	00	00	00	00

[B] Air (Stack)					
Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
PARTICULATE MATTER	00	51.27	00	100	Mg/Nm3
SO2	00	1.97	00	80	Mg/Nm3

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	00	00	MT/A

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	00	00	MT/A

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
SLAG	5824.650	5754.208	MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	00	00	MT/A

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	00	00	MT/A

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
0	00	MT/A	NA

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
SLAG	5754.208	MT/A	00

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
0	0	0	0	0	0	0

Part-H

<u>Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.</u>		
<u>[A] Investment made during the period of Environmental Statement</u>		
<i>Detail of measures for Environmental Protection</i>	<i>Environmental Protection Measures</i>	<i>Capital Investment (Lacks)</i>
APC SYSTEM	UPGRADATION OF APC SYSTEM, INSTALLATION ONLINE CONTINEUOS EMISSION MONITORING SYSTEM	119

<u>[B] Investment Proposed for next Year</u>		
<i>Detail of measures for Environmental Protection</i>	<i>Environmental Protection Measures</i>	<i>Capital Investment (Lacks)</i>
OPERATION AND MAINTENANCE	APC SYSTEM, GREEN BELT DEVELOPMENTS	3.5

Part-I

Any other particulars for improving the quality of the environment.

Particulars

WE HAVE UPGRADED OUR APC SYSTEM, INSTALLED AN ONLINE CONTINUOUS EMISSION MONITORING SYSTEM, AND ARE GRADUALLY DEVELOPING THE GREEN BELT AREA WHILE ALSO MAINTAINING THE ENVIRONMENTAL BALANCE IN INDUSTRY PREMISES.

Name & Designation

R A BHAKKAD (DGM)

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000059216

Submitted On:

25-09-2023



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

Form 4

See rules 6(5),13(8),16(6) and 20(2) of Hazardous and other wastes 2016

FORM FOR FILING ANNUAL RETURNS

[To be submitted to state pollution control board/pollution control committee by 30th June of every year for the preceeding period April to march]

Unique Application Number:

MPCB-HW_ANNUAL_RETURN-0000037943

Submitted On:

23-06-2023

Industry Type :

Recycler/Actual User

Submitted for Year:

April 2022 to March 2023

1. Name of the generator/operator of facility

M/S: METAROLLS ISPAT PVT LTD

Address of the unit/facility

GUT NO: 48, DAREGAON, ADJACENT TO ADDL, MIDC
PHASE II, JALNA

1b. Authorization Number

Format1.0/CC/UAN No.0000116876/CR/2205000702

Date of issue

May 12, 2022

Date of validity of consent

Jun 30, 2023

2. Name of the authorised person

RAMNARAYAN BHAKKAD

Full address of authorised person

GUT NO: 48, DAREGAON, ADJACENT TO ADDL, MIDC
PHASE II, JALNA

Telephone

7720003290

Fax

00

Email

rabhakkad@metarolls.com

3. Production during the year (product wise), wherever applicable

Product Type *	Product Name *	Consented Quantity	Actual Quantity	UOM
Iron & Steel	MS BILLETS	158400.0000	157943.780	MT/A
Iron & Steel	MS TMT BARS	158400.0000	155208.597	MT/A

PART A: To be filled by hazardous waste generators

1. Total Quantity of waste generated category wise

Type of hazardous waste	Waste Name	Consented Quantity	Quantity	UOM
	NA	0.000	00	MTA

2. Quantity dispatched category wise.

Type of Waste	Quantity of waste	UOM	Dispatched to	Facility Name
	00	MTA	0	NA

3. Quantity Utilised in-house, If any

Type of Waste	Name of Waste	Quantity of Waste	UOM
	NA	00	MTA

4. Quantity in storage at the end of the year

Type of Waste	Name of Waste	Quantity of Waste	UOM
	NA	00	MTA

5. Quantity disposed in landfills as such and after treatment

Type	Quantity	UOM
Direct landfilling	00	KL/Anum

Landfill after treatment	00	KL/Anum
6. Quantity incinerated (if applicable)	UOM	
00	KL/Anum	

PART B: To be filled bt Treatment,storage, and disposal facility operators

1.Total Quantity received	UOM	State Name
NA	KL/Anum	Maharashtra
2. Quantity in stock at the beginning of the year	UOM	
NA	KL/Anum	
3. Quantity treated	UOM	
NA	KL/Anum	
4. Quantity disposed in landfills as such and after treatment		
Type	Quantity	UOM
Direct landfilling	NA	KL/Anum
Landfill after treatment	NA	KL/Anum
5. Quantity incinerated (if applicable)	UOM	
NA	KL/Anum	
6. Quantiry processed other than specified above	UOM	
NA	KL/Anum	
7. Quantity in storage at the end of the year.	UOM	
NA	KL/Anum	

PART C: To be filled by recyclers or co-processors or other users

1. Quantity of waste received during the year					
Waste Name/Category	Country Name	State Name	Quantity of waste received from domestic sources	Quantity of waste imported(If any)	Units
MS SCRAP AND OTHER RAW MATERIAL	India	Maharashtra	120587.710	45239.620	MTA
2. Quantity in stock at the beginning of the year					
Waste Name/Category			Quantity	UOM	
MS SCRAP AND OTHER RAW MATERIAL			4600.287	MTA	
3. Quantity of waste recycled or co-procesed or used					
Name of Waste		Type of Waste		Quantity	UOM
MS SCRAP AND OTHER RAW MATERIAL		MS SCRAP AND OTHER RAW MATERIAL		165827.330	MTA
4. Quantity of products dispatched (wherever applicable)					
Name of product			Quantity	UOM	
MS BILLETS			157943.780	MTA	
MS TMT BAR			155208.597	MTA	
5. Total quantity of waste generated					
Waste name/category			quantity	UOM	
SLAG			5754.208	MTA	
6. Total quantity of waste disposed					
Waste name/category			quantity	UOM	
SLAG			5754.208	MTA	

7. Total quantity of waste re-exported (If Applicable)

<i>Waste name/category</i>	<i>quantity</i>	<i>UOM</i>
NA	00	MTA

8. Quantity in storage at the end of the year

<i>Waste name/category</i>	<i>quantity</i>	<i>UOM</i>
MS SCRAP	8682.185	MTA
SLAG	00	MTA

9. Quantity disposed in landfills as such and after treatment

<i>Type</i>	<i>Quantity</i>	<i>UOM</i>
Direct landfilling	00	MTA
Landfill after treatment	00	MTA

10. Quantity incinerated (if applicable)

<i>UOM</i>
00
MTA

Personal Details

<i>Place</i>	<i>Date</i>	<i>Designation</i>
JALNA	2022-06-23	MANAGER

TEST REPORT (Ambient Air)

Report No.	NLES/23-24/04/AA/RE/189	Report Issue Date	22/04/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.		
Discipline	Chemical	Date & Time of Sampling	From 10:00 AM of 15/04/2023 to 6:10 PM of 15/04/2023 (8 hrs)
Group	Atmospheric Pollution	Sampling Procedure	IS 5182 Part 5
Sub Group	Ambient Air	Sampling done by	Neetal Laboratories and Environmental Services Private Limited
Sampling Location	Near Main Gate	Dry bulb temperature	35°C
Wet bulb temperature	25°C	Relative Humidity	39 %
Sample Volume	SO ₂ :30 ml ×1 no. (Plastic Bottle), NO ₂ :30 ml×1 no. (Plastic Bottle) PM ₁₀ :1×1no. (Filter Paper), PM _{2.5} :1×1no. (Filter Paper)		
Start Date of Analysis	17/04/2023	End Date of Analysis	22/04/2023

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO ₂)	23.8	µg/m ³	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO ₂)	26.9	µg/m ³	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM ₁₀	72.3	µg/m ³	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter PM _{2.5}	46.9	µg/m ³	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O ₃)	9.6	µg/m ³	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH ₃)	4.9	µg/m ³	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	BDL	µg/m ³	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m ³	≤ 06	
9	Nickel (Ni)	BDL	ng/m ³	≤ 20	
10	Carbon Monoxide (CO)	0.21	mg/m ³	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m ³	≤ 1.0	IS 5182 Part 12
12	Benzene(C ₆ H ₆)	BDL	µg/m ³	≤ 05	IS 5182 Part 11


Remark- All above results are within National Ambient Air Quality standards.

Reviewed By


(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory


(Mr. Abhishek Tope)
(Quality Manager)

*****End of Report*****

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AN ENVIRONMENTAL LABORATORY RECOGNISED UNDER EPA, ENVIRONMENT (PROTECTION) ACT
BY (MoEF & CC) MINISTRY OF ENVIRONMENT FOREST & CLIMATE CHANGE

Address : H.NO. 43, SANTOSH NAGAR, WAKI BK., TAL. KHED, DIST. PUNE - 410 501

Website : www.neetalenvirolab.com, Email: sales@neetalenvirolab.com / neetalenviro@gmail.com, Mob. 8669699854 / 52

TEST REPORT (Ambient Air)

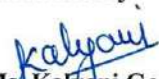
Report No.	NLES/23-24/04/AA/RE/190	Report Issue Date	22/04/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.		
Discipline	Chemical	Date & Time of Sampling	From 10:10 AM of 15/04/2023 to 6:10 PM of 15/04/2023 (8 hrs)
Group	Atmospheric Pollution	Sampling Procedure	IS 5182 Part 5
Sub Group	Ambient Air	Sampling done by	Neetal Laboratories and Environmental Services Private Limited
Sampling Location	Furnace Shed	Dry bulb temperature	37°C
Wet bulb temperature	27°C	Relative Humidity	39 %
Sample Volume	SO ₂ :30 ml x1 no. (Plastic Bottle), NO ₂ :30 mlx1 no. (Plastic Bottle) PM ₁₀ :1x1no. (Filter Paper), PM _{2.5} :1x1no. (Filter Paper)		
Start Date of Analysis	17/04/2023	End Date of Analysis	22/04/2023

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO ₂)	18.6	µg/m ³	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO ₂)	23.7	µg/m ³	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM ₁₀	69.5	µg/m ³	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter PM _{2.5}	46.1	µg/m ³	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O ₃)	9.5	µg/m ³	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH ₃)	5.9	µg/m ³	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	0.017	µg/m ³	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m ³	≤ 06	
9	Nickel (Ni)	BDL	ng/m ³	≤ 20	
10	Carbon Monoxide (CO)	0.34	mg/m ³	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m ³	≤ 1.0	IS 5182 Part 12
12	Benzene(C ₆ H ₆)	BDL	µg/m ³	≤ 05	IS 5182 Part 11


Remark- All above results are within National Ambient Air Quality standards.

Reviewed By


(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory


(Mr. Abhishek Tope)
(Quality Manager)

*****End of Report*****

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TEST REPORT (Ambient Air)

Report No.	NLES/23-24/04/AA/RE/191	Report Issue Date	22/04/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.		
Discipline	Chemical	Date & Time of Sampling	From 10:20 AM of 15/04/2023 to 6:20 PM of 15/04/2023 (8 hrs)
Group	Atmospheric Pollution	Sampling Procedure	IS 5182 Part 5
Sub Group	Ambient Air	Sampling done by	Neetal Laboratories and Environmental Services Private Limited
Sampling Location	Rolling Mill Shed	Dry bulb temperature	35°C
Wet bulb temperature	26°C	Relative Humidity	43 %
Sample Volume	SO ₂ :30 ml ×1 no. (Plastic Bottle), NO ₂ :30 ml×1 no. (Plastic Bottle) PM ₁₀ :1×1no. (Filter Paper), PM _{2.5} :1×1no. (Filter Paper)		
Start Date of Analysis	17/04/2023	End Date of Analysis	22/04/2023

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO ₂)	17.4	µg/m ³	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO ₂)	23.6	µg/m ³	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM ₁₀	65.9	µg/m ³	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter PM _{2.5}	48.5	µg/m ³	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O ₃)	9.9	µg/m ³	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH ₃)	6.8	µg/m ³	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	BDL	µg/m ³	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m ³	≤ 06	
9	Nickel (Ni)	BDL	ng/m ³	≤ 20	
10	Carbon Monoxide (CO)	0.34	mg/m ³	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m ³	≤ 1.0	IS 5182 Part 12
12	Benzene(C ₆ H ₆)	BDL	µg/m ³	≤ 05	IS 5182 Part 11


Remark- All above results are within National Ambient Air Quality standards.

Reviewed By


(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory


(Mr. Abhishek Tope)
(Quality Manager)

*****End of Report*****

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Website : www.neetalenvirolab.com, Email: sales@neetalenvirolab.com / neetalenviro@gmail.com, Mob. 8669699854 / 52

TEST REPORT

Report No.	NLES/23-24/04/NI/RE/192	Report Issue Date	22/04/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.		
Discipline	Chemical		
Group	Atmospheric Pollution		
Sub Group	Ambient Air		
Sample Name	Ambient Noise		
Date of Sampling	15/04/2023		
Method of Sampling	IS 9989: 1981		
Sampling Duration	24 hrs. Day & Night		
Sampling done by	Neetal Laboratories and Environmental Services Private Limited		

Results

Sr. No.	Location	Average Noise Level Reading dB(A)		Limits as per CPCB guidelines
		Day Time	Night Time	
1	Main Gate	67.5	59.5	Day Time = 75 dB Night Time =70 dB
2	Admin Office	61.2	50.3	

Remark- All above Noise level results are within Central Pollution Control Board Standards limit.

Reviewed By

Kalyani
(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory

Abhishek
(Mr. Abhishek Tope)
(Quality Manager)

*****End of Report*****

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Website : www.neetalenvirolab.com, Email: sales@neetalenvirolab.com / neetalenviro@gmail.com, Mob. 8669699854 / 52

TEST REPORT (Stack Emission)

Report No.	NLES/23-24/04/ST/RE/193	Report Issue Date	22/04/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.		
Discipline	Chemical	Sample Description	Stack Material: MS
Group	Pollution & Environment.		Stack Height: 35 Mtr
Sub Group	Stack Emission		Stack Type: Round
Date of Sampling	15/04/2023	Sampling Location	Induction Furnace Stack
Sampling done by	Neetal Laboratories and Environmental Services Private Limited	Sampling duration	30 Min
Sample Quantity	Thimble 1 Nos and 30 ml Solution	Sampling Procedure	CPCB Guideline on methodologies for source emission monitoring
Start Date of Analysis	17/04/2023	End Date of Analysis	22/04/2023

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (MPCB Consent)	Methods
1	Flue Gas Temperature	51	°C	--	--
2	Differential Pressure	4.3	mm WG		
3	Velocity	8.07	M/s		
4	Total Particulate Matter	43.7	mg/Nm ³	≤ 100	IS 11255 (Part 1)
5	Sulphur Dioxide (SO ₂)	25.8	mg/Nm ³	N.S.	IS 11255 (Part 2)
6	Oxides of Nitrogen (Nox)	23.9	mg/Nm ³	N.S.	IS 11255 (Part 7)

➤ Remark- All above results are well within MPCB Limit. N.S-Not Specified,

Reviewed By

Kalyani
(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory

Abhishek
(Mr. Abhishek Tope)
(Quality Manager)

*****End of Report*****

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Website : www.neetalenvirolab.com, Email: sales@neetalenvirolab.com / neetalenviro@gmail.com, Mob. 8669699854 / 52

TEST REPORT


Report No:	NLES/23-24/04/WZ/RE/195	Report Issue Date	22/04/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.		
Sample Name	Workzone Noise	Date of Sampling	15/04/2023
Sampling done by	Neetal Laboratories and Environmental Services Private Limited		

Results

Sr. No.	Locations	dB(A)	Specifications (The Factories Act 1948, standards)	Method
1.	Funace Shed	83.2	≤90	CPCB Guideline
2.	Casting Area	78.5		
3.	Raw Material Handling Unit	79.7		


Remark- The Factories Act, 1948, has prescribed 90 dB (A) as an upper limit of noise level for 8 hours exposure.

Reviewed By


(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory


(Mr. Abhishek Tope)
(Quality Manager)

*****End of Report*****

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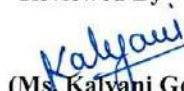
TEST REPORT

Report No.	NLES/23-24/04/W/RE/196	Report Issue Date	22/04/2023
Name and Address of Customer	M/s. Metarolls Ispat Pvt. Ltd. Gut No.48, Adjacent to MIDC Phase-II, Daregaon, Jalna.		
Discipline	Chemical	Date of Sample Collection	15/04/2023
Group	Water	Sample Quantity	02 lit Plastic Can
Sub Group	Surface Water	Sampling Procedure	APHA 1060
Sample Description	Moti Pond	Sample Status	Sealed
Sampling done by	Neetal Laboratories and Environmental Services Private Limited	Environmental Condition for sample storage and Analysis	Temperature: 25 °C ±5 °C & Humidity: 30 % to 80 % RH
Start Date of Analysis	17/04/2023	End Date of Analysis	22/04/2023

Results

Sr. No.	Parameters	Unit(s)	Results	Methods
PHYSICAL PARAMETERS				
1	Odour	-	Agreeable	IS 3025 Part-5
2	pH at 25°C	-	7.52	APHA 4500 H+ A, 23 rd Ed. 2017
3	Turbidity	NTU	0.61	IS 3025 Part-10
4	Total Dissolved Solids	mg/l	873	APHA 2540 C, 23 rd Ed. 2017
5	Ammonical Nitrogen as N	mg/l	0.53	APHA 4500 NH ₃ , 23 rd Ed. 2017.
6	Calcium (as Ca)	mg/l	39.4	APHA 3500 Ca B, 23 rd Ed. 2017
7	Chloride (as Cl)	mg/l	96.7	APHA 4500 Cl ⁻ B 23 rd Ed. 2017
8	Fluoride (as F)	mg/l	0.72	APHA 4500 F ⁻ D 23 rd Ed. 2017
9	Residual Chlorine as Cl	mg/l	<0.1	IS 3025 Part 26 (Rev.1, RA 2014)
10	Magnesium (as Mg)	mg/l	27.8	APHA 3500 Mg A, 23 rd Ed. 2017
11	Nitrate (as NO ₃)	mg/l	6.78	APHA 4500 NO ₃ - B 23 rd Ed. 2017
12	Sulphate (as SO ₄)	mg/l	59.4	APHA 4500 SO ₄ E, 23 rd Ed. 2017
13	Total Alkalinity (as CaCO ₃)	mg/l	268.7	APHA 2320 B, 23 rd Ed. 2017
14	Total Hardness (as CaCO ₃)	mg/l	378.4	APHA 2340 B, 23 rd Ed. 2017
15	Iron (as Fe)	mg/l	0.69	IS 3025 (Part-02)
16	Colour	Hazen	1.0	IS 3025 (Part-4)

Reviewed By


(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory


(Mr. Abhishek Tope)
(Quality Manager)

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TEST REPORT

Report No.	NLES/23-24/04/W/RE/197	Report Issue Date	22/04/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.		
Discipline	Chemical	Date of Sample Collection	15/04/2023
Group	Water	Sample Quantity	02 lit Plastic Can
Sub Group	Ground Water	Sampling Procedure	APHA 1060
Sample Description	Daregaon Village	Sample Status	Sealed
Sampling done by	Neetal Laboratories and Environmental Services Private Limited	Environmental Condition for sample storage and Analysis	Temperature: 25 °C ±5 °C & Humidity: 30 % to 80 % RH
Start Date of Analysis	17/04/2023	End Date of Analysis	22/04/2023

Results

Sr. No.	Parameters	Unit(s)	Results	Methods
PHYSICAL PARAMETERS				
1	Odour	-	Agreeable	IS 3025 Part-5
2	pH at 25°C	-	6.91	APHA 4500 H+ A, 23 rd Ed. 2017
3	Turbidity	NTU	0.54	IS 3025 Part-10
4	Total Dissolved Solids	mg/l	508	APHA 2540 C, 23 rd Ed. 2017
5	Ammonical Nitrogen as N	mg/l	0.31	APHA 4500 NH ₃ , 23 rd Ed. 2017.
6	Calcium (as Ca)	mg/l	31.5	APHA 3500 Ca B, 23 rd Ed. 2017
7	Chloride (as Cl)	mg/l	76.4	APHA 4500 Cl ⁻ B 23 rd Ed. 2017
8	Fluoride (as F)	mg/l	0.41	APHA 4500 F ⁻ D 23 rd Ed. 2017
9	Residual Chlorine as Cl	mg/l	<0.10	IS 3025 Part 26 (Rev.1, RA 2014)
10	Magnesium (as Mg)	mg/l	15.9	APHA 3500 Mg A, 23 rd Ed. 2017
11	Nitrate (as NO ₃)	mg/l	3.43	APHA 4500 NO ₃ - B 23 rd Ed. 2017
12	Sulphate (as SO ₄)	mg/l	53.9	APHA 4500 SO ₄ E, 23 rd Ed. 2017
13	Total Alkalinity (as CaCO ₃)	mg/l	199.4	APHA 2320 B, 23 rd Ed. 2017
14	Total Hardness (as CaCO ₃)	mg/l	259.6	APHA 2340 B, 23 rd Ed. 2017
15	Iron (as Fe)	mg/l	0.38	IS 3025 (Part-02)
16	Colour	Hazen	1.0	IS 3025 (Part-4)

Reviewed By


(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory


(Mr. Abhishek Tope)
(Quality Manager)

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TEST REPORT (Ambient Air)

Report No.	NLES/23-24/05/AA/RE/439		Report Issue Date	27/05/2023	
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.				
Discipline	Chemical	Date & Time of Sampling	From 10:10 AM of 20/05/2023 to 6:10 PM of 20/05/2023 (8 hrs)		
Group	Atmospheric Pollution	Sampling Procedure	IS 5182 Part 5		
Sub Group	Ambient Air	Sampling done by	Neetal Laboratories and Environmental Services Private Limited		
Sampling Location	Near Main Gate	Dry bulb temperature	36 ^o C		
Wet bulb temperature	27 ^o C	Relative Humidity	38 %		
Sample Volume	SO ₂ :30 ml ×1 no. (Plastic Bottle), NO ₂ :30 ml×1 no. (Plastic Bottle) PM ₁₀ :1×1no. (Filter Paper), PM _{2.5} :1×1no. (Filter Paper)				
Start Date of Analysis	22/05/2023		End Date of Analysis	27/05/2023	
Results					
Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO ₂)	22.7	µg/m ³	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO ₂)	26.1	µg/m ³	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM ₁₀	78.5	µg/m ³	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter PM _{2.5}	52.3	µg/m ³	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O ₃)	9.9	µg/m ³	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH ₃)	7.6	µg/m ³	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	BDL	µg/m ³	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m ³	≤ 06	
9	Nickel (Ni)	BDL	ng/m ³	≤ 20	
10	Carbon Monoxide (CO)	0.34	mg/m ³	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m ³	≤ 1.0	IS 5182 Part 12
12	Benzene(C ₆ H ₆)	BDL	µg/m ³	≤ 05	IS 5182 Part 11
Remark- All above results are within National Ambient Air Quality standards.					

Reviewed By

Kalyani
(S. Kalyani Gore)
(Technical Manager)



Authorized Signatory

Abhishek
(Mr. Abhishek Tope)
(Quality Manager)

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TEST REPORT (Ambient Air)

Report No.	NLES/23-24/05/AA/RE/440	Report Issue Date	27/05/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.		
Discipline	Chemical	Date & Time of Sampling	From 10:20 AM of 20/05/2023 to 6:20 PM of 20/05/2023 (8 hrs)
Group	Atmospheric Pollution	Sampling Procedure	IS 5182 Part 5
Sub Group	Ambient Air	Sampling done by	Neetal Laboratories and Environmental Services Private Limited
Sampling Location	Furnace Shed	Dry bulb temperature	38°C
Wet bulb temperature	27°C	Relative Humidity	37 %
Sample Volume	SO ₂ :30 ml ×1 no. (Plastic Bottle), NO ₂ :30 ml×1 no. (Plastic Bottle) PM ₁₀ :1×1no. (Filter Paper), PM _{2.5} :1×1no. (Filter Paper)		
Start Date of Analysis	22/05/2023	End Date of Analysis	27/05/2023

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO ₂)	22.6	µg/m ³	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO ₂)	27.8	µg/m ³	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM ₁₀	72.3	µg/m ³	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter PM _{2.5}	51.4	µg/m ³	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O ₃)	9.6	µg/m ³	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH ₃)	7.8	µg/m ³	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	0.019	µg/m ³	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m ³	≤ 06	
9	Nickel (Ni)	BDL	ng/m ³	≤ 20	
10	Carbon Monoxide (CO)	0.35	mg/m ³	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m ³	≤ 1.0	IS 5182 Part 12
12	Benzene(C ₆ H ₆)	BDL	µg/m ³	≤ 05	IS 5182 Part 11

Remark- All above results are within National Ambient Air Quality standards.

Reviewed By


(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory


(Mr. Abhishek Tope)
(Quality Manager)

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TEST REPORT (Ambient Air)

Report No.		NLES/23-24/05/AA/RE/441		Report Issue Date		27/05/2023	
Name and Address of Customer		M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.					
Discipline		Chemical		Date & Time of Sampling		From 10:30 AM of 20/05/2023 to 6:30 PM of 20/05/2023 (8 hrs)	
Group		Atmospheric Pollution		Sampling Procedure		IS 5182 Part 5	
Sub Group		Ambient Air		Sampling done by		Neetal Laboratories and Environmental Services Private Limited	
Sampling Location		Rolling Mill Shed		Dry bulb temperature		37 ⁰ C	
Wet bulb temperature		28 ⁰ C		Relative Humidity		40 %	
Sample Volume		SO ₂ :30 ml ×1 no. (Plastic Bottle), NO ₂ :30 ml×1 no. (Plastic Bottle) PM ₁₀ :1×1no. (Filter Paper), PM _{2.5} :1×1no. (Filter Paper)					
Start Date of Analysis		22/05/2023		End Date of Analysis		27/05/2023	
Results							
Sr. No.	Parameters		Results	Unit(s)	Specifications (NAAQ Standards)	Methods	
1	Sulphur Dioxide (SO ₂)		16.9	µg/m ³	≤ 80	IS 5182 (Part 2)	
2	Oxides of Nitrogen (NO ₂)		24.7	µg/m ³	≤ 80	IS 5182 (Part 6)	
3	Particulate Matter PM ₁₀		69.9	µg/m ³	≤ 100	IS 5182 (Part 4), 1999	
4	Particulate Matter PM _{2.5}		47.6	µg/m ³	≤ 60	IS 5182 (Part 24), 2019	
5	Ozone (O ₃)		9.7	µg/m ³	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020	
6	Ammonia (NH ₃)		5.8	µg/m ³	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020	
7	Lead (Pb)		BDL	µg/m ³	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020	
8	Arsenic (As)		BDL	ng/m ³	≤ 06		
9	Nickel (Ni)		BDL	ng/m ³	≤ 20		
10	Carbon Monoxide (CO)		0.37	mg/m ³	≤ 04	GC FID Methanizer Method	
11	Benzo(a)Pyrene (BaP)		BDL	ng/m ³	≤ 1.0	IS 5182 Part 12	
12	Benzene(C ₆ H ₆)		BDL	µg/m ³	≤ 05	IS 5182 Part 11	
Remark- All above results are within National Ambient Air Quality standards.							

Reviewed By

Kalyani
(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory

Abhishek
(Mr. Abhishek Tope)
(Quality Manager)

*****End of Report*****

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TEST REPORT				
Report No.	NLES/23-24/05/NI/RE/442		Report Issue Date	27/05/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.			
Discipline	Chemical			
Group	Atmospheric Pollution			
Sub Group	Ambient Air			
Sample Name	Ambient Noise			
Date of Sampling	20/05/2023			
Method of Sampling	IS 9989: 1981			
Sampling Duration	24 hrs. Day & Night			
Sampling done by	Neetal Laboratories and Environmental Services Private Limited			
Results				
Sr. No.	Location	Average Noise Level Reading dB(A)		Limits as per CPCB guidelines
		Day Time	Night Time	
1	Main Gate	68.5	53.9	Day Time = 75 dB Night Time =70 dB
2	Admin Office	63.4	50.1	
Remark- All above Noise level results are within Central Pollution Control Board Standards limit.				

Reviewed By

(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory

(Mr. Abhishek Tope)
(Quality Manager)

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TEST REPORT (Stack Emission)

Report No.	NLES/23-24/05/ST/RE/443	Report Issue Date	27/05/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.		
Discipline	Chemical	Sample Description	Stack Material: MS
Group	Pollution & Environment.		Stack Height: 35 Mtr
Sub Group	Stack Emission		Stack Type: Round
Date of Sampling	20/05/2023	Sampling Location	Induction Furnace Stack
Sampling done by	Neetal Laboratories and Environmental Services Private Limited	Sampling duration	30 Min
Sample Quantity	Thimble 1 Nos and 30 ml Solution	Sampling Procedure	CPCB Guideline on methodologies for source emission monitoring
Start Date of Analysis	22/05/2023	End Date of Analysis	27/05/2023

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (MPCB Consent)	Methods
1	Flue Gas Temperature	47	°C	--	--
2	Differential Pressure	4.5	mm WG		
3	Velocity	8.12	M/s		
4	Total Particulate Matter	51.6	mg/Nm3	≤ 100	IS 11255 (Part 1)
5	Sulphur Dioxide (SO ₂)	22.6	mg/Nm3	N.S.	IS 11255 (Part 2)
6	Oxides of Nitrogen (Nox)	25.7	mg/Nm3	N.S.	IS 11255 (Part 7)

➤ Remark- All above results are well within MPCB Limit. N.S-Not Specified,

Reviewed By

Kalyani Gore
(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory

Abhishek Tope
(Mr. Abhishek Tope)
(Quality Manager)

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TEST REPORT

Report No:	NLES/23-24/05/WZ/RE/445	Report Issue Date	27/05/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.		
Sample Name	Workzone Noise	Date of Sampling	20/05/2023
Sampling done by	Neetal Laboratories and Environmental Services Private Limited		

Results

Sr. No.	Locations	dB(A)	Specifications (The Factories Act 1948, standards)	Method
1.	Funace Shed	78.9	≤90	CPCB Guideline
2.	Casting Area	75.6		
3.	Raw Material Handling Unit	76.7		

Remark- The Factories Act, 1948, has prescribed 90 dB (A) as an upper limit of noise level for 8 hours exposure.

Reviewed By

Kalyani
(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory

Abhishek
(Mr. Abhishek Tope)
(Quality Manager)

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TEST REPORT

Report No.	NLES/23-24/05/W/RE/446	Report Issue Date	27/05/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.		
Discipline	Chemical	Date of Sample Collection	20/05/2023
Group	Water	Sample Quantity	02 lit Plastic Can
Sub Group	Surface Water	Sampling Procedure	APHA 1060
Sample Description	Moti Pond	Sample Status	Sealed
Sampling done by	Neetal Laboratories and Environmental Services Private Limited	Environmental Condition for sample storage and Analysis	Temperature: 25 °C ±5 °C & Humidity: 30 % to 80 % RH
Start Date of Analysis	22/05/2023	End Date of Analysis	27/05/2023


Results

Sr. No.	Parameters	Unit(s)	Results	Methods
PHYSICAL PARAMETERS				
1	Odour	-	Agreeable	IS 3025 Part-5
2	pH at 25°C	-	7.64	APHA 4500 H+ A, 23 rd Ed. 2017
3	Turbidity	NTU	0.87	IS 3025 Part-10
4	Total Dissolved Solids	mg/l	890	APHA 2540 C, 23 rd Ed. 2017
5	Ammonical Nitrogen as N	mg/l	0.59	APHA 4500 NH ₃ , 23 rd Ed. 2017.
6	Calcium (as Ca)	mg/l	42.6	APHA 3500 Ca B, 23 rd Ed. 2017
7	Chloride (as Cl)	mg/l	102.7	APHA 4500 Cl ⁻ B 23 rd Ed. 2017
8	Fluoride (as F)	mg/l	0.98	APHA 4500 F ⁻ D 23 rd Ed. 2017
9	Residual Chlorine as Cl	mg/l	<0.1	IS 3025 Part 26 (Rev.1, RA 2014)
10	Magnesium (as Mg)	mg/l	24.8	APHA 3500 Mg A, 23 rd Ed. 2017
11	Nitrate (as NO ₃)	mg/l	6.69	APHA 4500 NO ₃ - B 23 rd Ed. 2017
12	Sulphate (as SO ₄)	mg/l	57.8	APHA 4500 SO ₄ E, 23 rd Ed. 2017
13	Total Alkalinity (as CaCO ₃)	mg/l	279.5	APHA 2320 B, 23 rd Ed. 2017
14	Total Hardness (as CaCO ₃)	mg/l	363.9	APHA 2340 B, 23 rd Ed. 2017
15	Iron (as Fe)	mg/l	0.57	IS 3025 (Part-02)
16	Colour	Hazen	1.0	IS 3025 (Part-4)

Reviewed By

(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory

(Mr. Abhishek Tope)
(Quality Manager)

*****End of Report*****

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TEST REPORT

Report No.	NLES/23-24/05/W/RE/447	Report Issue Date	27/05/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.		
Discipline	Chemical	Date of Sample Collection	20/05/2023
Group	Water	Sample Quantity	02 lit Plastic Can
Sub Group	Ground Water	Sampling Procedure	APHA 1060
Sample Description	Daregaon Village	Sample Status	Sealed
Sampling done by	Neetal Laboratories and Environmental Services Private Limited	Environmental Condition for sample storage and Analysis	Temperature: 25 °C ±5 °C & Humidity: 30 % to 80 % RH
Start Date of Analysis	22/05/2023	End Date of Analysis	27/05/2023

Results

Sr. No.	Parameters	Unit(s)	Results	Methods
PHYSICAL PARAMETERS				
1	Odour	-	Agreeable	IS 3025 Part-5
2	pH at 25°C	-	7.05	APHA 4500 H+ A, 23 rd Ed. 2017
3	Turbidity	NTU	0.51	IS 3025 Part-10
4	Total Dissolved Solids	mg/l	569	APHA 2540 C, 23 rd Ed. 2017
5	Ammonical Nitrogen as N	mg/l	0.35	APHA 4500 NH ₃ , 23 rd Ed. 2017.
6	Calcium (as Ca)	mg/l	34.8	APHA 3500 Ca B, 23 rd Ed. 2017
7	Chloride (as Cl)	mg/l	79.8	APHA 4500 Cl ⁻ B 23 rd Ed. 2017
8	Fluoride (as F)	mg/l	0.45	APHA 4500 F ⁻ D 23 rd Ed. 2017
9	Residual Chlorine as Cl	mg/l	<0.10	IS 3025 Part 26 (Rev.1, RA 2014)
10	Magnesium (as Mg)	mg/l	17.7	APHA 3500 Mg A, 23 rd Ed. 2017
11	Nitrate (as NO ₃)	mg/l	3.59	APHA 4500 NO ₃ - B 23 rd Ed. 2017
12	Sulphate (as SO ₄)	mg/l	59.8	APHA 4500 SO ₄ E, 23 rd Ed. 2017
13	Total Alkalinity (as CaCO ₃)	mg/l	205.6	APHA 2320 B, 23 rd Ed. 2017
14	Total Hardness (as CaCO ₃)	mg/l	278.4	APHA 2340 B, 23 rd Ed. 2017
15	Iron (as Fe)	mg/l	0.42	IS 3025 (Part-02)
16	Colour	Hazen	1.0	IS 3025 (Part-4)

Reviewed By

Kalyani
(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory

Abhishek
(Mr. Abhishek Tope)
(Quality Manager)

*****End of Report*****

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TEST REPORT (Ambient Air)

Report No.	NLES/23-24/06/AA/RE/651	Report Issue Date	15/06/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.		
Discipline	Chemical	Date & Time of Sampling	From 10:00 AM of 08/06/2023 to 6:00 PM of 08/06/2023 (8 hrs)
Group	Atmospheric Pollution	Sampling Procedure	IS 5182 Part 5
Sub Group	Ambient Air	Sampling done by	Neetal Laboratories and Environmental Services Private Limited
Sampling Location	Near Main Gate	Dry bulb temperature	28 ⁰ C
Wet bulb temperature	23 ⁰ C	Relative Humidity	72 %
Sample Volume	SO ₂ :30 ml ×1 no. (Plastic Bottle), NO ₂ :30 ml×1 no. (Plastic Bottle) PM ₁₀ :1×1no. (Filter Paper), PM _{2.5} :1×1no. (Filter Paper)		
Start Date of Analysis	09/06/2023	End Date of Analysis	15/06/2023

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO ₂)	16.7	µg/m ³	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO ₂)	19.5	µg/m ³	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM ₁₀	56.8	µg/m ³	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter PM _{2.5}	35.7	µg/m ³	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O ₃)	9.5	µg/m ³	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH ₃)	3.4	µg/m ³	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	BDL	µg/m ³	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m ³	≤ 06	
9	Nickel (Ni)	BDL	ng/m ³	≤ 20	
10	Carbon Monoxide (CO)	0.20	mg/m ³	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m ³	≤ 1.0	IS 5182 Part 12
12	Benzene(C ₆ H ₆)	BDL	µg/m ³	≤ 05	IS 5182 Part 11


Remark- All above results are within National Ambient Air Quality standards.

Reviewed By,


(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory


(Mr. Abhishek Tope)
(Quality Manager)

*****End of Report*****

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TEST REPORT (Ambient Air)

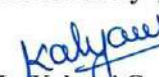
Report No.	NLES/23-24/06/AA/RE/652	Report Issue Date	15/06/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.		
Discipline	Chemical	Date & Time of Sampling	From 10:10 AM of 08/06/2023 to 6:10PM of 08/06/2023 (8 hrs)
Group	Atmospheric Pollution	Sampling Procedure	IS 5182 Part 5
Sub Group	Ambient Air	Sampling done by	Neetal Laboratories and Environmental Services Private Limited
Sampling Location	Furnace Shed	Dry bulb temperature	26°C
Wet bulb temperature	22°C	Relative Humidity	78 %
Sample Volume	SO ₂ :30 ml ×1 no. (Plastic Bottle), NO ₂ :30 ml×1 no. (Plastic Bottle) PM ₁₀ :1×1no. (Filter Paper), PM _{2.5} :1×1no. (Filter Paper)		
Start Date of Analysis	09/06/2023	End Date of Analysis	15/06/2023

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO ₂)	15.8	µg/m ³	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO ₂)	22.3	µg/m ³	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM ₁₀	51.4	µg/m ³	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter PM _{2.5}	33.8	µg/m ³	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O ₃)	9.6	µg/m ³	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH ₃)	6.2	µg/m ³	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	0.024	µg/m ³	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m ³	≤ 06	
9	Nickel (Ni)	BDL	ng/m ³	≤ 20	
10	Carbon Monoxide (CO)	0.31	mg/m ³	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m ³	≤ 1.0	IS 5182 Part 12
12	Benzene(C ₆ H ₆)	BDL	µg/m ³	≤ 05	IS 5182 Part 11


Remark- All above results are within National Ambient Air Quality standards.

Reviewed By


(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory


(Mr. Abhishek Tope)
(Quality Manager)

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TEST REPORT (Ambient Air)

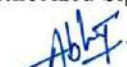
Report No.		NLES/23-24/06/AA/RE/653		Report Issue Date	15/06/2023
Name and Address of Customer		M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.			
Discipline		Chemical	Date & Time of Sampling		From 10:20 AM of 08/06/2023 to 6:20 PM of 08/06/2023 (8 hrs)
Group		Atmospheric Pollution	Sampling Procedure		IS 5182 Part 5
Sub Group		Ambient Air	Sampling done by		Neetal Laboratories and Environmental Services Private Limited
Sampling Location		Rolling Mill Shed	Dry bulb temperature		29 ⁰ C
Wet bulb temperature		24 ⁰ C	Relative Humidity		77%
Sample Volume		SO ₂ :30 ml ×1 no. (Plastic Bottle), NO ₂ :30 ml×1 no. (Plastic Bottle) PM ₁₀ :1×1no. (Filter Paper), PM _{2.5} :1×1no. (Filter Paper)			
Start Date of Analysis		09/06/2023	End Date of Analysis		15/06/2023
Results					
Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO ₂)	15.8	µg/m ³	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO ₂)	21.5	µg/m ³	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM ₁₀	55.3	µg/m ³	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter PM _{2.5}	42.6	µg/m ³	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O ₃)	9.9	µg/m ³	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH ₃)	4.5	µg/m ³	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	BDL	µg/m ³	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m ³	≤ 06	
9	Nickel (Ni)	BDL	ng/m ³	≤ 20	
10	Carbon Monoxide (CO)	0.34	mg/m ³	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m ³	≤ 1.0	IS 5182 Part 12
12	Benzene(C ₆ H ₆)	BDL	µg/m ³	≤ 05	IS 5182 Part 11
Remark- All above results are within National Ambient Air Quality standards.					

Reviewed By


(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory


(Mr. Abhishek Tope)
(Quality Manager)

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TEST REPORT				
Report No.	NLES/23-24/06/NI/RE/654	Report Issue Date	15/06/2023	
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.			
Discipline	Chemical			
Group	Atmospheric Pollution			
Sub Group	Ambient Air			
Sample Name	Ambient Noise			
Date of Sampling	08/06/2023			
Method of Sampling	IS 9989: 1981			
Sampling Duration	24 hrs. Day & Night			
Sampling done by	Neetal Laboratories and Environmental Services Private Limited			
Results				
Sr. No.	Location	Average Noise Level Reading dB(A)		Limits as per CPCB guidelines
		Day Time	Night Time	
1	Main Gate	68.9	59.5	Day Time = 75 dB Night Time =70 dB
2	Admin Office	62.3	52.4	
Remark- All above Noise level results are within Central Pollution Control Board Standards limit.				

Reviewed By

(Ms.Kalyani Gore)
(Technical Manager)



Authorized Signatory

(Mr. Abhishek Tope)
(Quality Manager)

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TEST REPORT (Stack Emission)

Report No.	NLES/23-24/06/ST/RE/655	Report Issue Date	15/06/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon, Jalna.		
Discipline	Chemical	Sample Description	Stack Material: MS
Group	Pollution & Environment.		Stack Height: 35 Mtr
Sub Group	Stack Emission		Stack Type: Round
Date of Sampling	08/06/2023	Sampling Location	Induction Furnace Stack
Sampling done by	Neetal Laboratories and Environmental Services Private Limited	Sampling duration	30 Min
Sample Quantity	Thimble 1 Nos and 30 ml Solution	Sampling Procedure	CPCB Guideline on methodologies for source emission monitoring
Start Date of Analysis	09/06/2023	End Date of Analysis	15/06/2023

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (MPCB Consent)	Methods
1	Flue Gas Temperature	53	°C	--	--
2	Differential Pressure	3.7	mm WG		
3	Velocity	7.27	M/s		
4	Total Particulate Matter	49.6	mg/Nm3	≤ 100	IS 11255 (Part 1)
5	Sulphur Dioxide (SO ₂)	25.4	mg/Nm3	N.S.	IS 11255 (Part 2)
6	Oxides of Nitrogen (Nox)	23.8	mg/Nm3	N.S.	IS 11255 (Part 7)

➤ Remark- All above results are well within MPCB Limit. N.S-Not Specified,

Reviewed By

(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory

(Mr. Abhishek Tope)
(Quality Manager)

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TEST REPORT

TEST REPORT				
Report No:	NLES/23-24/06/WZ/RE/657	Report Issue Date	15/06/2023	
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.			
Sample Name	Workzone Noise	Date of Sampling	08/06/2023	
Sampling done by	Neetal Laboratories and Environmental Services Private Limited			
Results				
Sr. No.	Locations	dB(A)	Specifications (The Factories Act 1948, standards)	Method
1.	Funace Shed	82.6	≤90	CPCB Guideline
2.	Casting Area	75.7		
3.	Raw Material Handling Unit	76.9		
Remark- The Factories Act, 1948, has prescribed 90 dB (A) as an upper limit of noise level for 8 hours exposure.				

Reviewed By


(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory


(Mr. Abhishek Tope)
(Quality Manager)

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TEST REPORT

Report No.	NLES/23-24/06/W/RE/658	Report Issue Date	15/06/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.		
Discipline	Chemical	Date of Sample Collection	08/06/2023
Group	Water	Sample Quantity	02 lit Plastic Can
Sub Group	Surface Water	Sampling Procedure	APHA 1060
Sample Description	Moti Pond	Sample Status	Sealed
Sampling done by	Neetal Laboratories and Environmental Services Private Limited	Environmental Condition for sample storage and Analysis	Temperature: 25 °C ±5 °C & Humidity: 30 % to 80 % RH
Start Date of Analysis	09/06/2023	End Date of Analysis	15/06/2023

Results

Sr. No.	Parameters	Unit(s)	Results	Methods
PHYSICAL PARAMETERS				
1	Odour	-	Agreeable	IS 3025 Part-5
2	pH at 25 ⁰ C	-	7.63	APHA 4500 H+ A, 23 rd Ed. 2017
3	Turbidity	NTU	0.59	IS 3025 Part-10
4	Total Dissolved Solids	mg/l	864	APHA 2540 C, 23 rd Ed. 2017
5	Ammonical Nitrogen as N	mg/l	0.32	APHA 4500 NH ₃ , 23 rd Ed. 2017.
6	Calcium (as Ca)	mg/l	37.5	APHA 3500 Ca B, 23 rd Ed. 2017
7	Chloride (as Cl)	mg/l	94.3	APHA 4500 Cl ⁻ B 23 rd Ed. 2017
8	Fluoride (as F)	mg/l	0.68	APHA 4500 F ⁻ D 23 rd Ed. 2017
9	Residual Chlorine as Cl	mg/l	<0.1	IS 3025 Part 26 (Rev.1, RA 2014)
10	Magnesium (as Mg)	mg/l	26.9	APHA 3500 Mg A, 23 rd Ed. 2017
11	Nitrate (as NO ₃)	mg/l	5.13	APHA 4500 NO ₃ - B 23 rd Ed. 2017
12	Sulphate (as SO ₄)	mg/l	57.5	APHA 4500 SO ₄ E, 23 rd Ed. 2017
13	Total Alkalinity (as CaCO ₃)	mg/l	274.5	APHA 2320 B, 23 rd Ed. 2017
14	Total Hardness (as CaCO ₃)	mg/l	363.9	APHA 2340 B, 23 rd Ed. 2017
15	Iron (as Fe)	mg/l	0.45	IS 3025 (Part-02)
16	Colour	Hazen	1.0	IS 3025 (Part-4)

Reviewed By


(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory


(Mr. Abhishek Tope)
(Quality Manager)

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TEST REPORT

Report No.	NLES/23-24/06/W/RE/659	Report Issue Date	15/06/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.		
Discipline	Chemical	Date of Sample Collection	08/06/2023
Group	Water	Sample Quantity	02 lit Plastic Can
Sub Group	Ground Water	Sampling Procedure	APHA 1060
Sample Description	Daregaon Village	Sample Status	Sealed
Sampling done by	Neetal Laboratories and Environmental Services Private Limited	Environmental Condition for sample storage and Analysis	Temperature: 25 °C ±5 °C & Humidity: 30 % to 80 % RH
Start Date of Analysis	09/06/2023	End Date of Analysis	15/06/2023

Results

Sr. No.	Parameters	Unit(s)	Results	Methods
PHYSICAL PARAMETERS				
1	Odour	-	Agreeable	IS 3025 Part-5
2	pH at 25°C	-	6.87	APHA 4500 H+ A, 23 rd Ed. 2017
3	Turbidity	NTU	0.53	IS 3025 Part-10
4	Total Dissolved Solids	mg/l	497	APHA 2540 C, 23 rd Ed. 2017
5	Ammonical Nitrogen as N	mg/l	0.27	APHA 4500 NH ₃ , 23 rd Ed. 2017.
6	Calcium (as Ca)	mg/l	30.5	APHA 3500 Ca B, 23 rd Ed. 2017
7	Chloride (as Cl)	mg/l	71.2	APHA 4500 Cl ⁻ B 23 rd Ed. 2017
8	Fluoride (as F)	mg/l	0.43	APHA 4500 F ⁻ D 23 rd Ed. 2017
9	Residual Chlorine as Cl	mg/l	<0.1	IS 3025 Part 26 (Rev.1, RA 2014)
10	Magnesium (as Mg)	mg/l	12.4	APHA 3500 Mg A, 23 rd Ed. 2017
11	Nitrate (as NO ₃)	mg/l	2.69	APHA 4500 NO ₃ - B 23 rd Ed. 2017
12	Sulphate (as SO ₄)	mg/l	47.8	APHA 4500 SO ₄ E, 23 rd Ed. 2017
13	Total Alkalinity (as CaCO ₃)	mg/l	179.7	APHA 2320 B, 23 rd Ed. 2017
14	Total Hardness (as CaCO ₃)	mg/l	255.3	APHA 2340 B, 23 rd Ed. 2017
15	Iron (as Fe)	mg/l	0.26	IS 3025 (Part-02)
16	Colour	Hazen	1.0	IS 3025 (Part-4)

Reviewed By


(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory


(Mr. Abhishek Tope)
(Quality Manager)

*****End of Report*****

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TEST REPORT (Ambient Air)

Report No.	NLES/23-24/07/AA/RE/421	Report Issue Date	22/07/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.		
Discipline	Chemical	Date & Time of Sampling	From 10:00 AM of 15/07/2023 to 6:00 PM of 15/07/2023 (8 hrs)
Group	Atmospheric Pollution	Sampling Procedure	IS 5182 Part 5
Sub Group	Ambient Air	Sampling done by	Neetal Laboratories and Environmental Services Private Limited
Sampling Location	Near Main Gate	Dry bulb temperature	26°C
Wet bulb temperature	21°C	Relative Humidity	84 %
Sample Volume	SO ₂ :30 ml x1 no. (Plastic Bottle), NO ₂ :30 ml x1 no. (Plastic Bottle) PM ₁₀ :1x1no. (Filter Paper), PM _{2.5} :1x1no. (Filter Paper)		
Start Date of Analysis	17/07/2023	End Date of Analysis	22/07/2023

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO ₂)	14.2	µg/m ³	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO ₂)	19.5	µg/m ³	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM ₁₀	55.6	µg/m ³	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter PM _{2.5}	27.8	µg/m ³	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O ₃)	9.5	µg/m ³	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH ₃)	5.1	µg/m ³	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	BDL	µg/m ³	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m ³	≤ 06	
9	Nickel (Ni)	BDL	ng/m ³	≤ 20	
10	Carbon Monoxide (CO)	0.23	mg/m ³	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m ³	≤ 1.0	IS 5182 Part 12
12	Benzene(C ₆ H ₆)	BDL	µg/m ³	≤ 05	IS 5182 Part 11

Remark- All above results are within National Ambient Air Quality standards.

Reviewed By


(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory


(Mr. Abhishek Tope)
(Quality Manager)

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TEST REPORT (Ambient Air)

TEST REPORT (Ambient Air)					
Report No.		NLES/23-24/07/AA/RE/422		Report Issue Date	22/07/2023
Name and Address of Customer		M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.			
Discipline		Chemical	Date & Time of Sampling	From 10:10 AM of 15/07/2023 to 6:10 PM of 15/07/2023 (8 hrs)	
Group		Atmospheric Pollution	Sampling Procedure	IS 5182 Part 5	
Sub Group		Ambient Air	Sampling done by	Neetal Laboratories and Environmental Services Private Limited	
Sampling Location		Furnace Shed	Dry bulb temperature	26 °C	
Wet bulb temperature		22°C	Relative Humidity	83 %	
Sample Volume		SO ₂ :30 ml x1 no. (Plastic Bottle), NO ₂ :30 mlx1 no. (Plastic Bottle) PM ₁₀ :1x1no. (Filter Paper), PM _{2.5} :1x1no. (Filter Paper)			
Start Date of Analysis		17/07/2023	End Date of Analysis	22/07/2023	
Results					
Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO ₂)	15.3	µg/m ³	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO ₂)	18.4	µg/m ³	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM ₁₀	46.9	µg/m ³	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter PM _{2.5}	23.7	µg/m ³	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O ₃)	9.4	µg/m ³	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH ₃)	4.2	µg/m ³	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	BDL	µg/m ³	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m ³	≤ 06	
9	Nickel (Ni)	BDL	ng/m ³	≤ 20	
10	Carbon Monoxide (CO)	0.26	mg/m ³	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m ³	≤ 1.0	IS 5182 Part 12
12	Benzene(C ₆ H ₆)	BDL	µg/m ³	≤ 05	IS 5182 Part 11
Remark- All above results are within National Ambient Air Quality standards.					

Reviewed By

Kalyani
(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory

Abhishek
(Mr. Abhishek Tope)
(Quality Manager)

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TEST REPORT (Ambient Air)

Report No.	NLES/23-24/07/AA/RE/423	Report Issue Date	22/07/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.		
Discipline	Chemical	Date & Time of Sampling	From 10:20 AM of 15/07/2023 to 6:20 PM of 15/07/2023 (8 hrs)
Group	Atmospheric Pollution	Sampling Procedure	IS 5182 Part 5
Sub Group	Ambient Air	Sampling done by	Neetal Laboratories and Environmental Services Private Limited
Sampling Location	Rolling Mill Shed	Dry bulb temperature	26°C
Wet bulb temperature	21°C	Relative Humidity	83 %
Sample Volume	SO ₂ :30 ml x1 no. (Plastic Bottle), NO ₂ :30 mlx1 no. (Plastic Bottle) PM ₁₀ :1x1no. (Filter Paper), PM _{2.5} :1x1no. (Filter Paper)		
Start Date of Analysis	17/07/2023	End Date of Analysis	22/07/2023

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO ₂)	16.4	µg/m ³	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO ₂)	19.8	µg/m ³	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM ₁₀	46.7	µg/m ³	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter PM _{2.5}	25.3	µg/m ³	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O ₃)	9.4	µg/m ³	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH ₃)	4.1	µg/m ³	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	BDL	µg/m ³	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m ³	≤ 06	
9	Nickel (Ni)	BDL	ng/m ³	≤ 20	
10	Carbon Monoxide (CO)	0.33	mg/m ³	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m ³	≤ 1.0	IS 5182 Part 12
12	Benzene(C ₆ H ₆)	BDL	µg/m ³	≤ 05	IS 5182 Part 11


Remark- All above results are within National Ambient Air Quality standards.

Reviewed By


(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory


(Mr. Abhishek Tope)
(Quality Manager)

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TEST REPORT				
Report No.	NLES/23-24/07/NI/RE/424		Report Issue Date	22/07/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.			
Discipline	Chemical			
Group	Atmospheric Pollution			
Sub Group	Ambient Air			
Sample Name	Ambient Noise			
Date of Sampling	15/07/2023			
Method of Sampling	IS 9989: 1981			
Sampling Duration	24 hrs. Day & Night			
Sampling done by	Neetal Laboratories and Environmental Services Private Limited			
Results				
Sr. No.	Location	Average Noise Level Reading dB(A)		Limits as per CPCB guidelines
		Day Time	Night Time	
1	Main Gate	67.3	53.7	Day Time = 75 dB Night Time =70 dB
2	Admin Office	62.6	44.3	
Remark- All above Noise level results are within Central Pollution Control Board Standards limit.				

Reviewed By

(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory

(Mr. Abhishek Tope)
(Quality Manager)

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TEST REPORT (Stack Emission)

Report No.	NLES/23-24/07/ST/RE/425	Report Issue Date	22/07/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.		
Discipline	Chemical	Sample Description	Stack Material: MS
Group	Pollution & Environment.		Stack Height: 35 Mtr
Sub Group	Stack Emission		Stack Type: Round
Date of Sampling	15/07/2023	Sampling Location	Induction Furnace Stack
Sampling done by	Neetal Laboratories and Environmental Services Private Limited	Sampling duration	30 Min
Sample Quantity	Thimble 1 Nos and 30 ml Solution	Sampling Procedure	CPCB Guideline on methodologies for source emission monitoring
Start Date of Analysis	17/07/2023	End Date of Analysis	22/07/2023

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (MPCB Consent)	Methods
1	Flue Gas Temperature	48	°C	--	--
2	Differential Pressure	3.0	mm WG		
3	Velocity	7.12	M/s		
4	Total Particulate Matter	44.6	mg/Nm3	≤ 100	IS 11255 (Part 1)
5	Sulphur Dioxide (SO ₂)	21.2	mg/Nm3	N.S.	IS 11255 (Part 2)
6	Oxides of Nitrogen (Nox)	24.5	mg/Nm3	N.S.	IS 11255 (Part 7)

➤ Remark- All above results are well within MPCB Limit. N.S-Not Specified,

Reviewed By

(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory

(Mr. Abhishek Tope)
(Quality Manager)

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Reviewed By

Authorized Signatory

TEST REPORT

Report No:	NLES/23-24/07/WZ/RE/427	Report Issue Date	22/07/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.		
Sample Name	Workzone Noise	Date of Sampling	15/07/2023
Sampling done by	Neetal Laboratories and Environmental Services Private Limited		

Results

Sr. No.	Locations	dB(A)	Specifications (The Factories Act 1948, standards)	Method
1.	Funace Shed	80.5	≤90	CPCB Guideline
2.	Casting Area	76.9		
3.	Raw Material Handling Unit	68.7		

Remark- The Factories Act, 1948, has prescribed 90 dB (A) as an upper limit of noise level for 8 hours exposure.

Kalyani
(Ms. Kalyani Gore)
(Technical Manager)



Abhishek
(Mr. Abhishek Tope)
(Quality Manager)

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TEST REPORT

Report No.	NLES/23-24/07/W/RE/428	Report Issue Date	22/07/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.		
Discipline	Chemical	Date of Sample Collection	15/07/2023
Group	Water	Sample Quantity	02 lit Plastic Can
Sub Group	Surface Water	Sampling Procedure	APHA 1060
Sample Description	Moti Pond	Sample Status	Sealed
Sampling done by	Neetal Laboratories and Environmental Services Private Limited	Environmental Condition for sample storage and Analysis	Temperature: 25 °C ±5 °C & Humidity: 30 % to 80 % RH
Start Date of Analysis	17/07/2023	End Date of Analysis	22/07/2023

Results

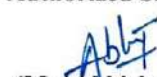
Sr. No.	Parameters	Unit(s)	Results	Methods
PHYSICAL PARAMETERS				
1	Odour	-	Agreeable	IS 3025 Part-5
2	pH at 25°C	-	7.59	APHA 4500 H+ A, 23 rd Ed. 2017
3	Turbidity	NTU	0.63	IS 3025 Part-10
4	Total Dissolved Solids	mg/l	845	APHA 2540 C, 23 rd Ed. 2017
5	Ammonical Nitrogen as N	mg/l	0.34	APHA 4500 NH ₃ , 23 rd Ed. 2017.
6	Calcium (as Ca)	mg/l	40.5	APHA 3500 Ca B, 23 rd Ed. 2017
7	Chloride (as Cl)	mg/l	87.6	APHA 4500 Cl ⁻ B 23 rd Ed. 2017
8	Fluoride (as F)	mg/l	0.58	APHA 4500 F ⁻ D 23 rd Ed. 2017
9	Residual Chlorine as Cl	mg/l	<0.1	IS 3025 Part 26 (Rev.1, RA 2014)
10	Magnesium (as Mg)	mg/l	24.3	APHA 3500 Mg A, 23 rd Ed. 2017
11	Nitrate (as NO ₃)	mg/l	5.05	APHA 4500 NO ₃ - B 23 rd Ed. 2017
12	Sulphate (as SO ₄)	mg/l	49.5	APHA 4500 SO ₄ E, 23 rd Ed. 2017
13	Total Alkalinity (as CaCO ₃)	mg/l	232.6	APHA 2320 B, 23 rd Ed. 2017
14	Total Hardness (as CaCO ₃)	mg/l	342.8	APHA 2340 B, 23 rd Ed. 2017
15	Iron (as Fe)	mg/l	0.53	IS 3025 (Part-02)
16	Colour	Hazen	1.0	IS 3025 (Part-4)

Reviewed By


(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory


(Mr. Abhishek Tope)
(Quality Manager)

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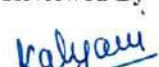
TEST REPORT

Report No.	NLES/23-24/07/W/RE/429	Report Issue Date	22/07/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.		
Discipline	Chemical	Date of Sample Collection	15/07/2023
Group	Water	Sample Quantity	02 lit Plastic Can
Sub Group	Ground Water	Sampling Procedure	APHA 1060
Sample Description	Daregaon Village	Sample Status	Sealed
Sampling done by	Neetal Laboratories and Environmental Services Private Limited	Environmental Condition for sample storage and Analysis	Temperature: 25 °C ±5 °C & Humidity: 30 % to 80 % RH
Start Date of Analysis	17/07/2023	End Date of Analysis	22/07/2023

Results

Sr. No.	Parameters	Unit(s)	Results	Methods
PHYSICAL PARAMETERS				
1	Odour	-	Agreeable	IS 3025 Part-5
2	pH at 25°C	-	6.92	APHA 4500 H+ A, 23 rd Ed. 2017
3	Turbidity	NTU	0.41	IS 3025 Part-10
4	Total Dissolved Solids	mg/l	549	APHA 2540 C, 23 rd Ed. 2017
5	Ammonical Nitrogen as N	mg/l	0.38	APHA 4500 NH3, 23 rd Ed. 2017.
6	Calcium (as Ca)	mg/l	35.6	APHA 3500 Ca B, 23 rd Ed. 2017
7	Chloride (as Cl)	mg/l	79.8	APHA 4500 Cl ⁻ B 23 rd Ed. 2017
8	Fluoride (as F)	mg/l	0.36	APHA 4500 F ⁻ D 23 rd Ed. 2017
9	Residual Chlorine as Cl	mg/l	<0.1	IS 3025 Part 26 (Rev.1, RA 2014)
10	Magnesium (as Mg)	mg/l	21.3	APHA 3500 Mg A, 23 rd Ed. 2017
11	Nitrate (as NO ₃)	mg/l	3.56	APHA 4500 NO3- B 23 rd Ed. 2017
12	Sulphate (as SO ₄)	mg/l	51.4	APHA 4500 SO4 E, 23 rd Ed. 2017
13	Total Alkalinity (as CaCO ₃)	mg/l	168.5	APHA 2320 B, 23 rd Ed. 2017
14	Total Hardness (as CaCO ₃)	mg/l	247.9	APHA 2340 B, 23 rd Ed. 2017
15	Iron (as Fe)	mg/l	0.34	IS 3025 (Part-02)
16	Colour	Hazen	1.0	IS 3025 (Part-4)

Reviewed By


(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory


(Mr. Abhishek Tope)
(Quality Manager)

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TEST REPORT (Ambient Air)

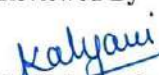
Report No.	NLES/23-24/08/AA/RE/105	Report Issue Date	21/08/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.		
Discipline	Chemical	Date & Time of Sampling	From 10:10 AM of 14/08/2023 to 6:10 PM of 14/08/2023 (8 hrs)
Group	Atmospheric Pollution	Sampling Procedure	IS 5182 Part 5
Sub Group	Ambient Air	Sampling done by	Neetal Laboratories and Environmental Services Private Limited
Sampling Location	Near Main Gate	Dry bulb temperature	26°C
Wet bulb temperature	22 °C	Relative Humidity	85 %
Sample Volume	SO ₂ :30 ml x1 no. (Plastic Bottle), NO ₂ :30 mlx1 no. (Plastic Bottle) PM ₁₀ :1x1no. (Filter Paper), PM _{2.5} :1x1no. (Filter Paper)		
Start Date of Analysis	16/08/2023	End Date of Analysis	21/08/2023

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO ₂)	15.4	µg/m ³	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO ₂)	19.3	µg/m ³	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM ₁₀	45.6	µg/m ³	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter PM _{2.5}	23.3	µg/m ³	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O ₃)	9.4	µg/m ³	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH ₃)	4.8	µg/m ³	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	BDL	µg/m ³	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m ³	≤ 06	
9	Nickel (Ni)	BDL	ng/m ³	≤ 20	
10	Carbon Monoxide (CO)	0.24	mg/m ³	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m ³	≤ 1.0	IS 5182 Part 12
12	Benzene(C ₆ H ₆)	BDL	µg/m ³	≤ 05	IS 5182 Part 11


Remark- All above results are within National Ambient Air Quality standards.

Reviewed By


(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory


(Mr. Abhishek Tope)
(Quality Manager)

*****End of Report*****

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TEST REPORT (Ambient Air)

Report No.	NLES/23-24/08/AA/RE/106	Report Issue Date	21/08/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.		
Discipline	Chemical	Date & Time of Sampling	From 10:20 AM of 14/08/2023 to 6:20 PM of 14/08/2023 (8 hrs)
Group	Atmospheric Pollution	Sampling Procedure	IS 5182 Part 5
Sub Group	Ambient Air	Sampling done by	Neetal Laboratories and Environmental Services Private Limited
Sampling Location	Furnace Shed	Dry bulb temperature	26°C
Wet bulb temperature	21°C	Relative Humidity	82 %
Sample Volume	SO ₂ :30 ml ×1 no. (Plastic Bottle), NO ₂ :30 ml×1 no. (Plastic Bottle) PM ₁₀ :1×1no. (Filter Paper), PM _{2.5} :1×1no. (Filter Paper)		
Start Date of Analysis	16/08/2023	End Date of Analysis	21/08/2023

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO ₂)	14.8	µg/m ³	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO ₂)	21.9	µg/m ³	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM ₁₀	46.7	µg/m ³	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter PM _{2.5}	24.5	µg/m ³	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O ₃)	9.7	µg/m ³	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH ₃)	4.6	µg/m ³	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	BDL	µg/m ³	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m ³	≤ 06	
9	Nickel (Ni)	BDL	ng/m ³	≤ 20	
10	Carbon Monoxide (CO)	0.31	mg/m ³	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m ³	≤ 1.0	IS 5182 Part 12
12	Benzene(C ₆ H ₆)	BDL	µg/m ³	≤ 05	IS 5182 Part 11

Remark- All above results are within National Ambient Air Quality standards.

Reviewed By


(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory


(Mr. Abhishek Tope)
(Quality Manager)

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TEST REPORT (Ambient Air)

Report No.	NLES/23-24/08/AA/RE/107	Report Issue Date	21/08/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.		
Discipline	Chemical	Date & Time of Sampling	From 10:30 AM of 14/08/2023 to 6:30 PM of 14/08/2023 (8 hrs)
Group	Atmospheric Pollution	Sampling Procedure	IS 5182 Part 5
Sub Group	Ambient Air	Sampling done by	Neetal Laboratories and Environmental Services Private Limited
Sampling Location	Rolling Mill Shed	Dry bulb temperature	26°C
Wet bulb temperature	22°C	Relative Humidity	83 %
Sample Volume	SO ₂ :30 ml x1 no. (Plastic Bottle), NO ₂ :30 mlx1 no. (Plastic Bottle) PM ₁₀ :1x1no. (Filter Paper), PM _{2.5} :1x1no. (Filter Paper)		
Start Date of Analysis	16/08/2023	End Date of Analysis	21/08/2023

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO ₂)	17.2	µg/m ³	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO ₂)	19.8	µg/m ³	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM ₁₀	45.6	µg/m ³	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter PM _{2.5}	27.4	µg/m ³	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O ₃)	9.7	µg/m ³	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH ₃)	4.2	µg/m ³	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	BDL	µg/m ³	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m ³	≤ 06	
9	Nickel (Ni)	BDL	ng/m ³	≤ 20	
10	Carbon Monoxide (CO)	0.26	mg/m ³	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m ³	≤ 1.0	IS 5182 Part 12
12	Benzene(C ₆ H ₆)	BDL	µg/m ³	≤ 05	IS 5182 Part 11

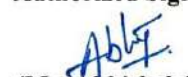
Remark- All above results are within National Ambient Air Quality standards.

Reviewed By


(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory


(Mr. Abhishek Tope)
(Quality Manager)

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TEST REPORT				
Report No.	NLES/23-24/08/NI/RE/108		Report Issue Date	21/08/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.			
Discipline	Chemical			
Group	Atmospheric Pollution			
Sub Group	Ambient Air			
Sample Name	Ambient Noise			
Date of Sampling	14/08/2023			
Method of Sampling	IS 9989: 1981			
Sampling Duration	24 hrs. Day & Night			
Sampling done by	Neetal Laboratories and Environmental Services Private Limited			
Results				
Sr. No.	Location	Average Noise Level Reading dB(A)		Limits as per CPCB guidelines
		Day Time	Night Time	
1	Main Gate	65.6	56.4	Day Time = 75 dB Night Time =70 dB
2	Admin Office	57.8	51.2	
Remark- All above Noise level results are within Central Pollution Control Board Standards limit.				

Reviewed By

(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory

(Mr. Abhishek Tope)
(Quality Manager)

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TEST REPORT (Stack Emission)

Report No.	NLES/23-24/08/ST/RE/109	Report Issue Date	21/08/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.		
Discipline	Chemical	Sample Description	Stack Material: MS
Group	Pollution & Environment.		Stack Height: 35 Mtr
Sub Group	Stack Emission		Stack Type: Round
Date of Sampling	14/08/2023	Sampling Location	Induction Furnace Stack
Sampling done by	Neetal Laboratories and Environmental Services Private Limited	Sampling duration	30 Min
Sample Quantity	Thimble 1 Nos and 30 ml Solution	Sampling Procedure	CPCB Guideline on methodologies for source emission monitoring
Start Date of Analysis	16/08/2023	End Date of Analysis	21/08/2023

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (MPCB Consent)	Methods
1	Flue Gas Temperature	50	°C	--	--
2	Differential Pressure	3.7	mm WG		
3	Velocity	8.01	M/s		
4	Total Particulate Matter	55.6	mg/Nm ³	≤ 100	IS 11255 (Part 1)
5	Sulphur Dioxide (SO ₂)	21.7	mg/Nm ³	N.S.	IS 11255 (Part 2)
6	Oxides of Nitrogen (Nox)	25.4	mg/Nm ³	N.S.	IS 11255 (Part 7)

➤ Remark- All above results are well within MPCB Limit. N.S-Not Specified,

Reviewed By

Kalyani
(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory

Abhishek
(Mr. Abhishek Tope)
(Quality Manager)

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TEST REPORT

Report No:	NLES/23-24/08/WZ/RE/111	Report Issue Date	21/08/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.		
Sample Name	Workzone Noise	Date of Sampling	14/08/2023
Sampling done by	Neetal Laboratories and Environmental Services Private Limited		

Results

Sr. No.	Locations	dB(A)	Specifications (The Factories Act 1948, standards)	Method
1.	Funace Shed	75.3	≤90	CPCB Guideline
2.	Casting Area	70.8		
3.	Raw Material Handling Unit	71.4		

Remark- The Factories Act, 1948, has prescribed 90 dB (A) as an upper limit of noise level for 8 hours exposure.

Reviewed By

(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory

(Mr. Abhishek Tope)
(Quality Manager)

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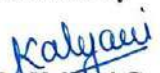
TEST REPORT

Report No.	NLES/23-24/08/W/RE/112	Report Issue Date	21/08/2023
Name and Address of Customer	M/s. Metarolls Ispat Pvt. Ltd. Gut No.48, Adjacent to MIDC Phase-II, Daregaon, Jalna.		
Discipline	Chemical	Date of Sample Collection	14/08/2023
Group	Water	Sample Quantity	02 lit Plastic Can
Sub Group	Surface Water	Sampling Procedure	APHA 1060
Sample Description	Moti Pond	Sample Status	Sealed
Sampling done by	Neetal Laboratories and Environmental Services Private Limited	Environmental Condition for sample storage and Analysis	Temperature: 25 °C ±5 °C & Humidity: 30 % to 80 % RH
Start Date of Analysis	16/08/2023	End Date of Analysis	21/08/2023

Results


Sr. No.	Parameters	Unit(s)	Results	Methods
PHYSICAL PARAMETERS				
1	Odour	-	Agreeable	IS 3025 Part-5
2	pH at 25°C	-	7.72	APHA 4500 H+ A, 23 rd Ed. 2017
3	Turbidity	NTU	0.49	IS 3025 Part-10
4	Total Dissolved Solids	mg/l	805	APHA 2540 C, 23 rd Ed. 2017
5	Ammonical Nitrogen as N	mg/l	0.21	APHA 4500 NH ₃ , 23 rd Ed. 2017.
6	Calcium (as Ca)	mg/l	28.5	APHA 3500 Ca B, 23 rd Ed. 2017
7	Chloride (as Cl)	mg/l	82.3	APHA 4500 Cl ⁻ B 23 rd Ed. 2017
8	Fluoride (as F)	mg/l	0.52	APHA 4500 F ⁻ D 23 rd Ed. 2017
9	Residual Chlorine as Cl	mg/l	<0.1	IS 3025 Part 26 (Rev.1, RA 2014)
10	Magnesium (as Mg)	mg/l	24.3	APHA 3500 Mg A, 23 rd Ed. 2017
11	Nitrate (as NO ₃)	mg/l	4.59	APHA 4500 NO ₃ - B 23 rd Ed. 2017
12	Sulphate (as SO ₄)	mg/l	46.7	APHA 4500 SO ₄ E, 23 rd Ed. 2017
13	Total Alkalinity (as CaCO ₃)	mg/l	251.4	APHA 2320 B, 23 rd Ed. 2017
14	Total Hardness (as CaCO ₃)	mg/l	319.5	APHA 2340 B, 23 rd Ed. 2017
15	Iron (as Fe)	mg/l	0.61	IS 3025 (Part-02)
16	Colour	Hazen	1.0	IS 3025 (Part-4)

Reviewed By


(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory


(Mr. Abhishek Tope)
(Quality Manager)

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TEST REPORT

Report No.	NLES/23-24/08/W/RE/113	Report Issue Date	21/08/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.		
Discipline	Chemical	Date of Sample Collection	14/08/2023
Group	Water	Sample Quantity	02 lit Plastic Can
Sub Group	Ground Water	Sampling Procedure	APHA 1060
Sample Description	Daregaon Village	Sample Status	Sealed
Sampling done by	Neetal Laboratories and Environmental Services Private Limited	Environmental Condition for sample storage and Analysis	Temperature: 25 °C ±5 °C & Humidity: 30 % to 80 % RH
Start Date of Analysis	16/08/2023	End Date of Analysis	21/08/2023

Results


Sr. No.	Parameters	Unit(s)	Results	Methods
PHYSICAL PARAMETERS				
1	Odour	-	Agreeable	IS 3025 Part-5
2	pH at 25°C	-	6.84	APHA 4500 H+ A, 23 rd Ed. 2017
3	Turbidity	NTU	0.49	IS 3025 Part-10
4	Total Dissolved Solids	mg/l	516	APHA 2540 C, 23 rd Ed. 2017
5	Ammonical Nitrogen as N	mg/l	0.37	APHA 4500 NH ₃ , 23 rd Ed. 2017.
6	Calcium (as Ca)	mg/l	27.8	APHA 3500 Ca B, 23 rd Ed. 2017
7	Chloride (as Cl)	mg/l	70.9	APHA 4500 Cl ⁻ B 23 rd Ed. 2017
8	Fluoride (as F)	mg/l	0.46	APHA 4500 F ⁻ D 23 rd Ed. 2017
9	Residual Chlorine as Cl	mg/l	<0.1	IS 3025 Part 26 (Rev.1, RA 2014)
10	Magnesium (as Mg)	mg/l	20.4	APHA 3500 Mg A, 23 rd Ed. 2017
11	Nitrate (as NO ₃)	mg/l	2.59	APHA 4500 NO ₃ - B 23 rd Ed. 2017
12	Sulphate (as SO ₄)	mg/l	43.3	APHA 4500 SO ₄ E, 23 rd Ed. 2017
13	Total Alkalinity (as CaCO ₃)	mg/l	184.5	APHA 2320 B, 23 rd Ed. 2017
14	Total Hardness (as CaCO ₃)	mg/l	252.6	APHA 2340 B, 23 rd Ed. 2017
15	Iron (as Fe)	mg/l	0.29	IS 3025 (Part-02)
16	Colour	Hazen	1.0	IS 3025 (Part-4)

Reviewed By


(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory


(Mr. Abhishek Tope)
(Quality Manager)

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TEST REPORT (Ambient Air)


Report No.	NLES/23-24/09/AA/RE/128	Report Issue Date	23/09/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.		
Discipline	Chemical	Date & Time of Sampling	From 10:00 AM of 18/09/2023 to 6:00 PM of 18/09/2023 (8 hrs)
Group	Atmospheric Pollution	Sampling Procedure	IS 5182 Part 5
Sub Group	Ambient Air	Sampling done by	Neetal Laboratories and Environmental Services Private Limited
Sampling Location	Near Main Gate	Dry bulb temperature	27°C
Wet bulb temperature	21°C	Relative Humidity	79 %
Sample Volume	SO ₂ :30 ml ×1 no. (Plastic Bottle), NO ₂ :30 ml×1 no. (Plastic Bottle) PM ₁₀ :1×1no. (Filter Paper), PM _{2.5} :1×1no. (Filter Paper)		
Start Date of Analysis	19/09/2023	End Date of Analysis	23/09/2023

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO ₂)	17.8	µg/m ³	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO ₂)	22.6	µg/m ³	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM ₁₀	46.9	µg/m ³	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter PM _{2.5}	25.7	µg/m ³	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O ₃)	9.6	µg/m ³	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH ₃)	4.1	µg/m ³	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	BDL	µg/m ³	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m ³	≤ 06	
9	Nickel (Ni)	BDL	ng/m ³	≤ 20	
10	Carbon Monoxide (CO)	0.28	mg/m ³	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m ³	≤ 1.0	IS 5182 Part 12
12	Benzene(C ₆ H ₆)	BDL	µg/m ³	≤ 05	IS 5182 Part 11


Remark- All above results are within National Ambient Air Quality standards.

Reviewed By


(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory


(Mr. Abhishek Tope)
(Quality Manager)

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TEST REPORT (Ambient Air)

Report No.	NLES/23-24/09/AA/RE/129	Report Issue Date	23/09/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.		
Discipline	Chemical	Date & Time of Sampling	From 10:10 AM of 18/09/2023 to 6:10 PM of 18/09/2023 (8 hrs)
Group	Atmospheric Pollution	Sampling Procedure	IS 5182 Part 5
Sub Group	Ambient Air	Sampling done by	Neetal Laboratories and Environmental Services Private Limited
Sampling Location	Furnace Shed	Dry bulb temperature	28°C
Wet bulb temperature	22°C	Relative Humidity	81 %
Sample Volume	SO ₂ :30 ml ×1 no. (Plastic Bottle), NO ₂ :30 ml×1 no. (Plastic Bottle) PM ₁₀ :1×1no. (Filter Paper), PM _{2.5} :1×1no. (Filter Paper)		
Start Date of Analysis	19/09/2023	End Date of Analysis	23/09/2023

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO ₂)	16.3	µg/m ³	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO ₂)	25.6	µg/m ³	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM ₁₀	47.8	µg/m ³	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter PM _{2.5}	29.4	µg/m ³	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O ₃)	9.5	µg/m ³	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH ₃)	6.8	µg/m ³	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	BDL	µg/m ³	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m ³	≤ 06	
9	Nickel (Ni)	BDL	ng/m ³	≤ 20	
10	Carbon Monoxide (CO)	0.29	mg/m ³	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m ³	≤ 1.0	IS 5182 Part 12
12	Benzene(C ₆ H ₆)	BDL	µg/m ³	≤ 05	IS 5182 Part 11


Remark- All above results are within National Ambient Air Quality standards.

Reviewed By


(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory


(Mr. Abhishek Tope)
(Quality Manager)

*****End of Report*****

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BY (MoEF & CC) MINISTRY OF ENVIRONMENT FOREST & CLIMATE CHANGE

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Website : www.neetalenvirolab.com, Email: sales@neetalenvirolab.com / neetalenviro@gmail.com, Mob. 8669699854 / 52

TEST REPORT (Ambient Air)


Report No.	NLES/23-24/09/AA/RE/130	Report Issue Date	23/09/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.		
Discipline	Chemical	Date & Time of Sampling	From 10:20 AM of 18/09/2023 to 6:20 PM of 18/09/2023 (8 hrs)
Group	Atmospheric Pollution	Sampling Procedure	IS 5182 Part 5
Sub Group	Ambient Air	Sampling done by	Neetal Laboratories and Environmental Services Private Limited
Sampling Location	Rolling Mill Shed	Dry bulb temperature	26°C
Wet bulb temperature	22°C	Relative Humidity	82 %
Sample Volume	SO ₂ :30 ml ×1 no. (Plastic Bottle), NO ₂ :30 ml×1 no. (Plastic Bottle) PM ₁₀ :1×1no. (Filter Paper), PM _{2.5} :1×1no. (Filter Paper)		
Start Date of Analysis	19/09/2023	End Date of Analysis	23/09/2023

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO ₂)	16.3	µg/m ³	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO ₂)	18.7	µg/m ³	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM ₁₀	46.7	µg/m ³	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter PM _{2.5}	27.8	µg/m ³	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O ₃)	9.8	µg/m ³	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH ₃)	4.3	µg/m ³	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	BDL	µg/m ³	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m ³	≤ 06	
9	Nickel (Ni)	BDL	ng/m ³	≤ 20	
10	Carbon Monoxide (CO)	0.34	mg/m ³	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m ³	≤ 1.0	IS 5182 Part 12
12	Benzene(C ₆ H ₆)	BDL	µg/m ³	≤ 05	IS 5182 Part 11


Remark- All above results are within National Ambient Air Quality standards.

Reviewed By


(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory


(Mr. Abhishek Tope)
(Quality Manager)

*****End of Report*****

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TEST REPORT				
Report No.	NLES/23-24/09/NI/RE/131		Report Issue Date	23/09/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.			
Discipline	Chemical			
Group	Atmospheric Pollution			
Sub Group	Ambient Air			
Sample Name	Ambient Noise			
Date of Sampling	18/09/2023			
Method of Sampling	IS 9989: 1981			
Sampling Duration	24 hrs. Day & Night			
Sampling done by	Neetal Laboratories and Environmental Services Private Limited			
Results				
Sr. No.	Location	Average Noise Level Reading dB(A)		Limits as per CPCB guidelines
		Day Time	Night Time	
1	Main Gate	66.9	58.7	Day Time = 75 dB Night Time =70 dB
2	Admin Office	54.8	47.6	
Remark- All above Noise level results are within Central Pollution Control Board Standards limit.				

Reviewed By

(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory

(Mr. Abhishek Tope)
(Quality Manager)

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TEST REPORT (Stack Emission)

Report No.	NLES/23-24/09/ST/RE/132	Report Issue Date	23/09/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.		
Discipline	Chemical	Sample Description	Stack Material: MS
Group	Pollution & Environment.		Stack Height: 35 Mtr
Sub Group	Stack Emission		Stack Type: Round
Date of Sampling	18/09/2023	Sampling Location	Induction Furnace Stack
Sampling done by	Neetal Laboratories and Environmental Services Private Limited	Sampling duration	30 Min
Sample Quantity	Thimble 1 Nos and 30 ml Solution	Sampling Procedure	CPCB Guideline on methodologies for source emission monitoring
Start Date of Analysis	19/09/2023	End Date of Analysis	23/09/2023

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (MPCB Consent)	Methods
1	Flue Gas Temperature	53	°C	--	--
2	Differential Pressure	4.1	mm WG		
3	Velocity	8.05	M/s		
4	Total Particulate Matter	46.9	mg/Nm3	≤ 100	IS 11255 (Part 1)
5	Sulphur Dioxide (SO ₂)	22.4	mg/Nm3	N.S.	IS 11255 (Part 2)
6	Oxides of Nitrogen (Nox)	25.7	mg/Nm3	N.S.	IS 11255 (Part 7)

➤ Remark- All above results are well within MPCB Limit. N.S-Not Specified,

Reviewed By

Kalyani
(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory

Abhishek
(Mr. Abhishek Tope)
(Quality Manager)

*****End of Report*****

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TEST REPORT				
Report No:	NLES/23-24/09/WZ/RE/134	Report Issue Date	23/09/2023	
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.			
Sample Name	Workzone Noise	Date of Sampling	18/09/2023	
Sampling done by	Neetal Laboratories and Environmental Services Private Limited			
Results				
Sr. No.	Locations	dB(A)	Specifications (The Factories Act 1948, standards)	Method
1.	Funace Shed	81.2	≤90	CPCB Guideline
2.	Casting Area	76.9		
3.	Raw Material Handling Unit	75.4		
Remark- The Factories Act, 1948, has prescribed 90 dB (A) as an upper limit of noise level for 8 hours exposure.				

Reviewed By

(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory

(Mr. Abhishek Tope)
(Quality Manager)

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TEST REPORT

Report No.	NLES/23-24/09/W/RE/135	Report Issue Date	23/09/2023
Name and Address of Customer	M/s.Metarolls Ispat Pvt.Ltd. Gut No.48, Adjacent to MIDC Phase-II,Daregaon,Jalna.		
Discipline	Chemical	Date of Sample Collection	18/09/2023
Group	Water	Sample Quantity	02 lit Plastic Can
Sub Group	Surface Water	Sampling Procedure	APHA 1060
Sample Description	Moti Pond	Sample Status	Sealed
Sampling done by	Neetal Laboratories and Environmental Services Private Limited	Environmental Condition for sample storage and Analysis	Temperature: 25 °C ±5 °C & Humidity: 30 % to 80 % RH
Start Date of Analysis	19/09/2023	End Date of Analysis	23/09/2023

Results


Sr. No.	Parameters	Unit(s)	Results	Methods
PHYSICAL PARAMETERS				
1	Odour	-	Agreeable	IS 3025 Part-5
2	pH at 25°C	-	7.69	APHA 4500 H+ A, 23 rd Ed. 2017
3	Turbidity	NTU	0.53	IS 3025 Part-10
4	Total Dissolved Solids	mg/l	768	APHA 2540 C, 23 rd Ed. 2017
5	Ammonical Nitrogen as N	mg/l	0.54	APHA 4500 NH ₃ , 23 rd Ed. 2017.
6	Calcium (as Ca)	mg/l	38.5	APHA 3500 Ca B, 23 rd Ed. 2017
7	Chloride (as Cl)	mg/l	86.7	APHA 4500 Cl ⁻ B 23 rd Ed. 2017
8	Fluoride (as F)	mg/l	0.78	APHA 4500 F ⁻ D 23 rd Ed. 2017
9	Residual Chlorine as Cl	mg/l	<0.10	IS 3025 Part 26 (Rev.1, RA 2014)
10	Magnesium (as Mg)	mg/l	25.4	APHA 3500 Mg A, 23 rd Ed. 2017
11	Nitrate (as NO ₃)	mg/l	5.87	APHA 4500 NO ₃ - B 23 rd Ed. 2017
12	Sulphate (as SO ₄)	mg/l	66.8	APHA 4500 SO ₄ E, 23 rd Ed. 2017
13	Total Alkalinity (as CaCO ₃)	mg/l	232.6	APHA 2320 B, 23 rd Ed. 2017
14	Total Hardness (as CaCO ₃)	mg/l	364.5	APHA 2340 B, 23 rd Ed. 2017
15	Iron (as Fe)	mg/l	0.71	IS 3025 (Part-02)
16	Colour	Hazen	1.0	IS 3025 (Part-4)

Reviewed By


(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory


(Mr. Abhishek Tope)
(Quality Manager)

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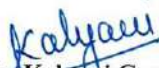
TEST REPORT

Report No.	NLES/23-24/09/W/RE/136	Report Issue Date	23/09/2023
Name and Address of Customer	M/s. Metarolls Ispat Pvt. Ltd. Gut No.48, Adjacent to MIDC Phase-II, Daregaon, Jalna.		
Discipline	Chemical	Date of Sample Collection	18/09/2023
Group	Water	Sample Quantity	02 lit Plastic Can
Sub Group	Ground Water	Sampling Procedure	APHA 1060
Sample Description	Daregaon Village	Sample Status	Sealed
Sampling done by	Neetal Laboratories and Environmental Services Private Limited	Environmental Condition for sample storage and Analysis	Temperature: 25 °C ±5 °C & Humidity: 30 % to 80 % RH
Start Date of Analysis	19/09/2023	End Date of Analysis	23/09/2023

Results


Sr. No.	Parameters	Unit(s)	Results	Methods
PHYSICAL PARAMETERS				
1	Odour	-	Agreeable	IS 3025 Part-5
2	pH at 25°C	-	6.83	APHA 4500 H+ A, 23 rd Ed. 2017
3	Turbidity	NTU	0.61	IS 3025 Part-10
4	Total Dissolved Solids	mg/l	528	APHA 2540 C, 23 rd Ed. 2017
5	Ammonical Nitrogen as N	mg/l	0.39	APHA 4500 NH ₃ , 23 rd Ed. 2017.
6	Calcium (as Ca)	mg/l	23.4	APHA 3500 Ca B, 23 rd Ed. 2017
7	Chloride (as Cl)	mg/l	63.9	APHA 4500 Cl ⁻ B 23 rd Ed. 2017
8	Fluoride (as F)	mg/l	0.43	APHA 4500 F ⁻ D 23 rd Ed. 2017
9	Residual Chlorine as Cl	mg/l	<0.1	IS 3025 Part 26 (Rev.1, RA 2014)
10	Magnesium (as Mg)	mg/l	21.3	APHA 3500 Mg A, 23 rd Ed. 2017
11	Nitrate (as NO ₃)	mg/l	2.89	APHA 4500 NO ₃ - B 23 rd Ed. 2017
12	Sulphate (as SO ₄)	mg/l	49.4	APHA 4500 SO ₄ E, 23 rd Ed. 2017
13	Total Alkalinity (as CaCO ₃)	mg/l	191.3	APHA 2320 B, 23 rd Ed. 2017
14	Total Hardness (as CaCO ₃)	mg/l	252.7	APHA 2340 B, 23 rd Ed. 2017
15	Iron (as Fe)	mg/l	0.51	IS 3025 (Part-02)
16	Colour	Hazen	1.0	IS 3025 (Part-4)

Reviewed By


(Ms. Kalyani Gore)
(Technical Manager)



Authorized Signatory


(Mr. Abhishek Tope)
(Quality Manager)

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