



Danish Envis &lt;danish1017@gmail.com&gt;

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**Submission of Six Monthly Environmental Clearance Compliance for April to September 2023. M/s. Meenakshi Ferro Ingots Pvt Ltd. Gut No. 350 and 361, Bhandgaon, Tq. Daund, Dist. Pune.**

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meenakshi ferro ingots &lt;mfi\_pune@yahoo.co.in&gt;

Thu, Nov 30, 2023 at 1:54 PM

To: "ecompliance-mh@gov.in" &lt;ecompliance-mh@gov.in&gt;, "psec.env@maharashtra.gov.in"

&lt;psec.env@maharashtra.gov.in&gt;

Cc: SRO Pune1 &lt;sropune1@mpcb.gov.in&gt;

**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. Meenakshi Ferro Ingots Pvt Ltd. Gut No. 350 and 361, Bhandgaon, Tq. Daund, Dist. Pune.**

Ref. No.: Your issued EC: SIA/MH/IND/70976/2018 Dated: 17<sup>th</sup> Aug 2022**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. Meenakshi Ferro Ingots Pvt Ltd. Gut No. 350 and 361, Bhandgaon, Tq. Daund, Dist. Pune**. We have received Environmental Clearance from SEIAA, Govt. of Maharashtra, MoEF & CC, New Delhi vide ref. no.: **SIA/MH/IND/70976/2018 Dated: 17th Aug 2022**. 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: Meenakshi Ferro Ingots Pvt Ltd.****Mr. M. A. Siddiqui****Director**

Enclosure: EC Compliance with its Annexure

Copy to:

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

Thank You &amp; Regards

Meenakshi Ferro Ingots Pvt. Ltd.

E-mail: [mfi\\_pune@yahoo.co.in](mailto:mfi_pune@yahoo.co.in), [info@meenakshipune.in](mailto:info@meenakshipune.in)

Tele-Fax: 020 26806664

Adm. Office: 313/314, North Block, Sacred world, Wanowrie, Pune -411040. Pl visit us at:

[www.meenakshipune.in](http://www.meenakshipune.in) "CONFIDENTIALITY: This communication is intended only for the use of the intended recipient(s) and may contain information that is privileged and confidential. If you are not the intended recipient, please note that any dissemination of this communication is prohibited. If you have received this communication in error, please erase all copies of the message, including all attachments, and please also notify the sender at Meenakshi Ferro Ingots Pvt. Ltd. immediately. Thank you for your cooperation."



**SIX MONTHLY EC COMPLIANCE REPORTS FOR DEC-2023.pdf**

19747K

Ref. No.:

Date: 21 /11 /2023

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.**  
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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. Meenakshi Ferro Ingots Pvt Ltd. Gut No. 350 and 361, Bhandgaon, Tq. Daund, Dist. Pune**. We have received Environmental Clearance from SEIAA, Govt. of Maharashtra, MoEF & CC, New Delhi vide ref. no.: **SIA/MH/IND/70976/2018 Dated: 17th Aug 2022**. We are submitting the EC Compliance for the period of **April to September 2023** for your reference & further needful record.

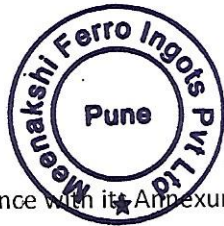
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Submitted for your kind perusal.

Yours Faithfully,

For M/s: Meenakshi Ferro Ingots Pvt Ltd.

Mr. M.A Siddiqui  
Director



Enclosure: EC Compliance with its Annexure

Copy to:

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

ENVIRONMENTAL  
CLEARANCE



Government of India  
Ministry of Environment, Forest and Climate Change  
(Issued by the State Environment Impact Assessment  
Authority(SEIAA), Maharashtra)

To,

The DIRECTOR  
MEENAKSHI FERRO INGOTS PVT LTD  
GUT NO. 350 AND 361, BHANDGAON, TQ. DAUND, DIST. PUNE -  
412203

**Subject:** Grant of Environmental Clearance (EC) to the proposed Project Activity  
under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC)  
in respect of project submitted to the SEIAA vide proposal number  
SIA/MH/IND/70976/2018 dated 18 May 2022. The particulars of the environmental  
clearance granted to the project are as below.

1. EC Identification No.	EC22B008MH184950
2. File No.	SIA/MH/IND/70976/2018
3. Project Type	Expansion
4. Category	B1
5. Project/Activity including Schedule No.	3(a) Metallurgical industries (ferrous & non ferrous)
6. Name of Project	MEENAKSHI FERRO INGOTS PVT LTD
7. Name of Company/Organization	MEENAKSHI FERRO INGOTS PVT LTD
8. Location of Project	Maharashtra
9. TOR Date	29 Aug 2018

The project details along with terms and conditions are appended herewith from page  
no 2 onwards.

Date: 17/08/2022

(e-signed)  
Manisha Patankar Mhaiskar  
Member Secretary  
SEIAA - (Maharashtra)

*Note: A valid environmental clearance shall be one that has EC identification  
number & E-Sign generated from PARIVESH. Please quote identification  
number in all future correspondence.*

*This is a computer generated cover page.*

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## STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

No. SIA/MH/IND/70976/2018  
Environment & Climate Change  
Department  
Room No. 217, 2<sup>nd</sup> Floor,  
Mantralaya, Mumbai- 400032.

To  
M/s.MEENAKSHI FERRO INGOTS PVT LTD.,  
Gut No.: 350 and 361, Bhandgaon, Khor Road,  
Yavat, Tal.: Daund, Dist.: Pune

Subject : Environment Clearance for Expansion of MS Ingots/MS Billets  
Manufacturing Unit (24000 TPA to 180000 TPA) at Gut No.: 350 and  
361, Bhandgaon, Khor Road, Yavat, Tal.: Daund, Dist.: Pune,  
Maharashtra by M/s.MEENAKSHI FERRO INGOTS PVT LTD.

Reference : Application no. SIA/MH/IND/70976/2018

This has reference to your communication on the above mentioned subject. The proposal was considered by the SEAC-1 in its 180<sup>th</sup> & 224<sup>th</sup> meeting under screening category 3 (a) as per EIA Notification, 2006 and recommend to SEIAA. Proposal then considered in 247<sup>th</sup> (Day-2) meeting of State Level Environment Impact Assessment Authority (SEIAA).

2. Brief Information of the project submitted by you is as below:-

<b>Is a Violation Case: No</b>	
<b>1.Name of Project</b>	MEENAKSHI FERRO INGOTS PVT LTD
<b>2.Type of institution</b>	Private
<b>3.Name of Project Proponent</b>	MR. UMANG AGARWAL
<b>4.Name of Consultant</b>	PARAMARSH
<b>5.Type of project</b>	INDUSTRIAL PROJECT
<b>6.New project/expansion in existing project/modernization/diversification in existing project</b>	EXPANSION OF EXISTING M.S. BILLETS/INGOTS MANUFACTURING PLANT 66.00 MTD TO 500 MTD
<b>7.If expansion/diversification, whether environmental clearance has been obtained for existing project</b>	PROJECT ESTABLISHED IN YEAR 2005.
<b>8.Location of the project</b>	GAT NO. 350 & 361, BHANDGAON, KHOR ROAD

9.Taluka	YAVAT		
10.Village	DAUND		
Correspondence Name:	MEENAKSHI FERRO INGOTS PVT LTD		
Room Number:	313/314		
Floor:	N.A.		
Building Name:	NORTH BLOCK, SACRED WORLD		
Road/Street Name:	N.A.		
Locality:	WANOWARIE		
City:	PUNE		
11.Whether in Corporation / Municipal / other area	OTHER AREA- BHANDGAON GRAM PANCHAYAT		
12.IOD/IOA/Concession /Plan Approval Number	NA IOD/IOA/Concession/Plan Approval Number: NA Approved Built-up Area: 00		
13.Note on the initiated work (If applicable)	PROPOSED EXPANSION ACTIVITY WILL BE START AFTER OBTAINING ENVIRONMENTAL CLEARANCE		
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NOC FROM BHANDGAON GRAM PANCHAYAT		
15.Total Plot Area (sq. m.)	TOTAL PLOT AREA AVAILABLE IS :-25798 SQM.		
16.Deductions	Not applicable		
17.Net Plot area	Not applicable		
18 (a).Proposed Built-up Area (FSI & Non-FSI)	a) FSI area (sq. m.): Not applicable		
	b) Non FSI area (sq. m.): Not applicable		
	c) Total BUA area (sq. m.): 6500.765		
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): 00		
	Approved Non FSI area (sq. m.): 00		
	Date of Approval: 09-04-2005		
19.Total ground coverage (m2)	Not applicable		
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable		
21.Estimated cost of the project	117100000.00		
<b>22.Number of buildings &amp; its configuration</b>			
Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)

1	Not applicable	Not applicable	Not applicable	
23. Number of tenants and shops	Not applicable			
24. Number of expected residents / users	Not applicable			
25. Tenant density per hectare	Not applicable			
26. Height of the building(s)				
27. Right of way (Width of the road from the nearest fire station to the proposed building(s))	Not applicable			
28. Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	INTERNAL ROAD WIDE IS 06 METERS AND TURNING RADIUS IS 09 METERS WIDE.			
29. Existing structure (s) if any	EXISTING INDUCTION FURNACE SHED IS AVAILABLE WITH THE INDUSTRY. EXPANSION WILL BE CARRIED OUT IN EXISTING SHED INSTALLING TWO NEW INDUCTION FURNACES. EXISTING 4 MT INDUCTION FURNACE REPLACE IS WITH 20 MT AND 5 MT FURNACE IS ALSO REPLACE WITH 20 MT. A. 20 MT X 13= 260, B. 20 MT X 12= 240			
30. Details of the demolition with disposal (If applicable)	Not applicable			
<b>31. Production Details</b>				
<b>Serial Number</b>	<b>Product</b>	<b>Existing (MT/M)</b>	<b>Proposed (MT/M)</b>	<b>Total (MT/M)</b>
1	MS BILLETS/ INGOTS	2000	13000	15000
<b>32. Total Water Requirement</b>				
	<b>Source of water</b>	WATER IS SOURCED FROM LOCAL SUPPLIER		

<b>Dry season:</b>	<b>Fresh water (CMD):</b>	50 CMD FOR EXISTING ACTIVITY, 100 CMD FOR PROPOSED EXPANSION ACTIVITY, 150 CMD FOR TOTAL REQUIREMENT AFTER EXPANSION
	<b>Recycled water – Flushing (CMD):</b>	NA
	<b>Recycled water – Gardening (CMD):</b>	02 CMD FOR EXISTING GARDEN, 03 CMD FOR PROPOSED ACTIVITY, TOTAL WATER REQUIRED AFTER PROPOSED ACTIVITY IS 05 CMD
	<b>Swimming pool make up (Cum):</b>	NOT APPLICABLE
	<b>Total Water Requirement (CMD):</b>	60 CMD WATER WILL REQUIRED FOR DAILY TOP UP AFTER EXPANSION
	<b>Fire fighting - Underground water tank (CMD):</b>	100 CMD UG TANK ALREADY CONSTRUCTED
	<b>Fire fighting - Overhead water tank (CMD):</b>	OVERHEAD TANK IS PROPOSED
	<b>Excess treated water</b>	REUSE FOR COOLING PURPOSE
<b>Wet season:</b>	<b>Source of water</b>	WATER IS SOURCED FROM LOCAL SUPPLIER
	<b>Fresh water (CMD):</b>	50 CMD FOR EXISTING ACTIVITY, 100 CMD FOR PROPOSED EXPANSION ACTIVITY, 150 CMD FOR TOTAL REQUIREMENT AFTER EXPANSION
	<b>Recycled water - Flushing (CMD):</b>	NOT APPLICABLE
	<b>Recycled water - Gardening (CMD):</b>	02 CMD FOR EXISTING GARDEN, 03 CMD FOR PROPOSED ACTIVITY, TOTAL WATER REQUIRED AFTER PROPOSED ACTIVITY IS 05 CMD
	<b>Swimming pool make up (Cum):</b>	NOT APPLICABLE
	<b>Total Water Requirement (CMD):</b>	60 CMD WATER WILL REQUIRED FOR DAILY TOP UP AFTER EXPANSION
	<b>Fire fighting - Underground</b>	100 CMD UG TANK ALREADY CONSTRUCTED

	<b>watertank (CMD):</b>								
	<b>Fire fighting - Overhead water tank (CMD):</b>	OVERHEAD TANK IS PROPOSED							
	<b>Excess treated water</b>	REUSE FOR COOLING PURPOSE							
<b>Details of Swimmingpool (If any)</b>	Not applicable								
<b>Details of Total water consumed</b>									
<b>Particulars</b>	<b>Consumption (CMD)</b>			<b>Loss (CMD)</b>			<b>Effluent (CMD)</b>		
<b>Water Requirement</b>	<b>Existing</b>	<b>Proposed</b>	<b>Total</b>	<b>Existing</b>	<b>Proposed</b>	<b>Total</b>	<b>Existing</b>	<b>Proposed</b>	<b>Total</b>
Domestic	03	05	08	01	01	02	02	04	06
Cooling tower & thermos pack	50	100	150	20	40	60	00	00	00
Gardening	02	04	06	00	00	00	00	00	00
Fresh water requirement	(daily top up)	40 daily top up	60 (total water required for daily top up)	00	00	00	00	00	00
<b>34.Rain Water Harvesting (RWH)</b>	<b>Level of the Ground water table:</b>	20-25 METERS BELOW GROUND LEVEL.							
	<b>Size and no of RWH tank(s) and Quantity:</b>	DETAILS RAIN WATER HARVESTING SYSTEM WILL BE INCORPORATED IN EIA REPORT.							
	<b>Location of the RWH tank(s):</b>	WITHIN WITHIN PREMISES OF COMPANY.							
	<b>Quantity of recharge pits:</b>	PROPOSED RAIN WATER HARVESTING PITS WILL BE 05 NOS, IF REQUIRED NUMBERS OF PITS WILL BE INCREASED .							
	<b>Size of recharge pits:</b>	DETAILS RAIN WATER HARVESTING PLAN WILL BE INCORPORATE IN FINAL EIA REPORT.							
	<b>Budgetary allocation (Capital cost) :</b>	RS.500000/-							



	<b>Budgetary allocation (O &amp; M cost) :</b>	RS.300000/-
	<b>Details of UGT tanks if any :</b>	200 SQM
<b>35. Storm water drainage</b>	<b>Natural water drainage pattern:</b>	STORM WATER DRAIN SYSTEM WILL BE CONSTRUCTED AROUND THE PLANT.
	<b>Quantity of storm water:</b>	480 M3 BASED ON 60 MM RAINFALL
	<b>Size of SWD:</b>	300 MM X 450 MM X 300 MM
<b>Sewage and Waste water</b>	<b>Sewage generation in KLD:</b>	06 KLD
	<b>STP technology:</b>	MBBR TECHNOLOGY
	<b>Capacity of STP (CMD):</b>	10 M3/DAY
	<b>Location &amp; area of the STP:</b>	IN THE PREMISES
	<b>Budgetary allocation (Capital cost):</b>	Rs.450000/-
	<b>Budgetary allocation (O &amp; M cost):</b>	Rs. 150000/-
<b>36. Solid waste Management</b>		
<b>Waste generation in the Pre Construction and Construction phase:</b>	<b>Waste generation:</b>	NEGLIGIBLE
	<b>Disposal of the construction waste debris:</b>	Not applicable
<b>Waste generation in the operation Phase:</b>	<b>Dry waste:</b>	EXISTING SLAG 2.45 MTD, PROPOSED SLAG 12.55 MTD, EXISTING PROCESS DUST 81.67 KG/DAY, PROPOSED PROCESS DUST 418.33 KG/DAY.
	<b>Wet waste:</b>	N.A.
	<b>Hazardous waste:</b>	N.A.
	<b>Biomedical waste (If applicable):</b>	N.A.

	<b>STP Sludge (Dry sludge):</b>	IT WILL USED AS MANURE FOR GARDENING
	<b>Others if any:</b>	NA
<b>Mode of Disposal of waste:</b>	<b>Dry waste:</b>	SLAG WILL BE CRUSHED AND IRON WILL BE RECOVERED BY MAGNETIC SEPARATOR. REMAINING CRUSHED SLAG USED FOR BRICK MAKING, CONCRETE MIXING
	<b>Wet waste:</b>	NA
	<b>Hazardous waste:</b>	NA
	<b>Biomedical waste (If applicable):</b>	NA
	<b>STP Sludge (Dry sludge):</b>	USED AS MANURE FOR GARDENING.
	<b>Others if any:</b>	NA
<b>Area requirement:</b>	<b>Location(s):</b>	WITHIN INDUSTRIAL PREMISES.
	<b>Area for the storage of waste &amp; other material:</b>	150 SQM REQUIRED
	<b>Area for machinery:</b>	400 SQM AVAILABLE
<b>Budgetary allocation (Capital cost and O&amp;M cost):</b>	<b>Capital cost:</b>	RS.1000000/-
	<b>O &amp; M cost:</b>	RS. 300000/-

### 37.Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	NA	na	NA	NA	NA
	Amount of effluent generation (CMD):		NA. In the process water is required only for cooling purpose for hot billets and furnace, water losses is as a evaporation loss, the remaining water is settled and cool, its reused for cooling process again.		
	Capacity of the ETP:		NA		
	Amount of treated effluent recycled :		NA		
	Amount of water send to the CETP:		NA		
	Membership of CETP (if require):		NA		

Note on ETP technology to be used	WATER WILL BE SETTLED AND COOLED AND WILL BE REUSED FOR COOLING PURPOSE.						
Disposal of the ETP sludge	NA						
<b>38. Hazardous Waste Details</b>							
Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	NA	NA	NA	NA	NA	NA	NA
<b>39. Stacks emission Details</b>							
Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases	
1	EXISTING FUME EXTRACTION ROTATING HOOD FOLLOWED BY SCRUBBER/BAG FILTER	ELECTRICITY	01	32	1.8	60-70	
2	PROPOSED FUME EXTRACTION ROTATING HOOD, DUCTING, FAN FOLLOWED BY VENTUR SCRUBBER/BAG FILTER	ELECTRICITY	01	35	1.8	60-70	
<b>40. Details of Fuel to be used</b>							
Serial Number	Type of Fuel	Existing	Proposed	Total			
1	ELECTRICITY	5.5 MW	4.5 MW	10.00 MW			
41. Source of Fuel		MSEDCL POWER CONNECTION					
42. Mode of Transportation of fuel to site		TRANSMISSION LINE OF MSEDCL					
		<b>Total RG area :</b>	GREEN BELT AREA IS 8965.875 SQM.				
		<b>No of trees to be cut:</b>	00				

<b>43.Green Belt Development</b>	<b>Number of trees to be planted :</b>	450 NOS
	<b>List of proposed native trees :</b>	NEEM, BABUL, EUCALYPTUS, MANGO, APTA ETC
	<b>Timeline for completion of plantation :</b>	FIVE YEARS

**44.Number and list of trees species to be planted in the ground**

	<b>Name of the plant</b>	<b>Common Name</b>	<b>Quantity</b>	<b>Characteristics &amp; ecological importance</b>
1	AZADIRACHA TA INDICA	NEEM	150	FAST GROWING AND HARDY PLANT
2	ACACIA NILOTICA	BABUL	100	SHADY TREE WITH YELLOW FLOWERS
3	BAUHINIA RACEMOSA	AAPTA	50	SMALL TREE WITH SMALL WHITE WHITE FLOWERS
4	MAGNIFERA INDICA	MANGO	50	SHADY TREE
5	ZIZIPHUS MAURITIANA	BER	50	SHADY TREE, MEDICINAL USE
6	MIMUS OPSELENGI	BAKUL	50	SHADY TREE WITH SMALL WHITE FLOWER

**45.Total quantity of plants on ground**

**46.Number and list of shrubs and bushes species to be planted in the podium RG:**

	<b>Name</b>	<b>C/C Distance</b>	<b>Area m2</b>
1	CHINAROS E	2*2	4
2	GARDEN CROTON	1*1	1
3	BLACK PHYSICNU T	3*3	9
4	AMERICAN ALEO	2*2	4

**47.Energy**

	<b>Source of power supply :</b>	MSEDCL
	<b>During Construction</b>	1 MW

<b>Power requirement:</b>	<b>Phase: (Demand Load)</b>	
	<b>DG set as Power back-up during construction phase</b>	320 KVA
	<b>During Operation phase (Connected load):</b>	10.00 MW
	<b>During Operation phase (Demand load):</b>	10.00 MW
	<b>Transformer:</b>	YES
	<b>DG set as Power back-up during operation phase:</b>	320 KVA
	<b>Fuel used:</b>	HSD /LDO
	<b>Details of high tension line passing through the plot if any:</b>	NA

**48. Energy saving by non-conventional method:**

NA

**49. Detail calculations & % of saving:**

<b>Serial Number</b>	<b>Energy Conservation Measures</b>	<b>Saving %</b>
1	N A	NA

**50. Details of pollution control Systems**

<b>Source</b>	<b>Existing pollution control system</b>	<b>Proposed to be installed</b>
AIR POLLUTION FROM FURNACE	BAG FILTER AND DUST COLLECTOR	BAG FILTER AND DUST COLLECTOR
NOISE POLLUTION FROM DG sets	ACOUSTIC ENCLOSURE,	Acaustic enclosure
SOLID WASTE	COLLECTION ,SEGREGATION AND CRUSHING	COLLECTION OF SOLID WASTE CRUSH IT AND SEGREGATE IT BY MAGNETIC SEPARATOR



WATER POLLUTION FROM DOMESTIC WASTE WATER DG sets	SEPTIC TANK WITH SOAK PIT	THE TREATMENT OF DOMESTIC WASTE WATER STP PROPOSED		
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	00		
	O & M cost:	00		
<b>51.Environmental Management plan Budgetary Allocation</b>				
<b>a) Construction phase (with Break-up):</b>				
	<b>Attributes</b>	<b>Parameter</b>	<b>Total Cost per annum (Rs. In Lacs)</b>	
1	NA	NA	NA	
<b>b) Operation Phase (with Break-up):</b>				
<b>Serial Number</b>	<b>Component</b>	<b>Description</b>	<b>Capital cost Rs. In Lacs</b>	<b>Operational and Maintenance cost (Rs. in Lacs/yr)</b>
1	AIR POLLUTION CONTROL EQUIPMENT	AIR POLLUTION CONTROL EQUIPMENTS	65.00	01.20
2	GREEN BELT DEVELOPMENT	PLANTATION AS WELL AS MAINTENANCE OF GREEN BELT IN THE PREMISES WHICH IS 33% OF TOTAL AREA	02.00	01.00
3	SOLID WASTE MANAGEMENT	DISPOSAL OF SOLID WASTE TO BRICK MANUFACTURE R.	10.00	03.00
4	WASTE WATER TREATMENT	STP WILL BE PROVIDED FOR THE TREATMENT OF DOMESTIC WASTE WATER	04.50	01.50
		ENVIRONMENT MANAGEMENT		

5	ENVIRONMENTAL CELL & MONITORING	IN WITHIN THE PREMISES AS WELL AS OUTSIDE THE PREMISES BR ENVIRONMENT MANAGEMENT DEPARTMENT	05.00	03.00
6	OCCUPATIONAL HEALTH & SAFETY MANAGEMENT	HEALTH FACILITIES WILL BE PROVIDED TO WORKERS. AS WELL AS WORKER WILL MONITORED REGULAR BASIS AND MEASURES WILL BE TAKEN CARE FOR THE SAME	03.00	01.00
7	NA	TOTAL	89.50	11.70

**51.Storage of chemicals (inflammable/explosive/hazardous/toxic substances)**

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
N.A.	N.A.	N.A.	00	N.A.	N.A.	N.A.	N.A.

**52.Any Other Information**

No Information Available

**53.Traffic Management**

Nos. of the junction to the main road & design of confluence:	NA
Number and of basement:	NA

<b>Parking details:</b>	<b>Number and area of podia:</b>	NA
	<b>Total Parking area:</b>	3095.76 SQM (WHICH IS 12% OF THE TOTAL PLOT AREA.)
	<b>Area per car:</b>	NA
	<b>Area per car:</b>	NA
	<b>Number of 2-Wheelers approved by competent authority:</b>	NA
	<b>Number of 4-Wheelers approved by competent authority:</b>	NA
	<b>Public Transport:</b>	50- 55 TRUCKS WILL BE OPERATED AFTER COMMISSION OF PROPOSED UNIT FOR TRANSPORTATION OF RAW MATERIAL AND FINISHED GOODS.
	<b>Width of all Internal roads (m):</b>	WIDTH OF INTERNAL ROADS IS 06.00 METERS.
	<b>CRZ/ RRZ clearance obtain, if any:</b>	NA
	<b>Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries</b>	NA
	<b>Category as per schedule of EIA Notification sheet</b>	CATEGORY 'B' UNDER SCHEDULE 3(a)
	<b>Court cases pending if any</b>	NA
	<b>Other Relevant Information</b>	THE EXPANSION ALONGWITH MS BILLETS WILL BE EXISTING STRUCTURAL STEEL/ROLLING MILL PLANT ALSO FROM 2000 MTM TO 15000 MTM.
/	<b>Have you previously submitted Application</b>	No

	<b>online on MOEF Website.</b>	
	<b>Date of online submission</b>	

3. The proposal has been considered by SEIAA in its 247<sup>th</sup> (Day-2) meeting and decided to accord Environment Clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implantation of following terms and conditions-

**Specific Conditions:**

**SEAC Conditions-**

1. PP to provide social infrastructure like sanitation facility/ Clean drinking water and solar power from their CER fund in consultation with the CEO Zilla Parishad, Pune.
2. PP to ensure removal of waste slag twice a week.
3. PP to ensure compliance of recommendations of the Risk Assessment. PP to appoint a safety officer having qualification as per Factories Act.
4. PP to provide STP for the treatment of domestic sewage.
5. PP to include carbon and water foot print monitoring in their management plan. PP to take necessary steps in reduction of water and carbon foot print through various modern technologies.

**SEIAA Conditions**

1. PP submitted ADTP plan dated 31.03.2005. As per the said plan total plot area is 25798.35 m<sup>2</sup> and Plantation area provided is 8965.875 m<sup>2</sup>. Green Belt area of 8823.62 m<sup>2</sup> is provided by PP i.e.34.21 % of total plot area.
2. PP to undertake Miyawaki plantation of native and indigenous trees such as Banyan, Peepal, Neem, Jamun and other suitable trees as per the Forest Department, Govt. of Maharashtra circular no SaVaVi-2019/C.R.3/F-11, dated 25th June, 2019. The said plantation to be completed in the first year of operation of Environmental Clearance under expert guidance of Miyawaki experts / arborist.
3. PP to strictly observe the Solid Waste Management Rules, 2016 as amended time to time.
4. PP to strictly observe the Hazardous and Other Wastes (Management & Trans boundary Movement) Rules, 2016 as amended time to time.
5. PP to identify all sources of fugitive air pollution on site and provide pollution control measures to mitigate pollution and meet the standard parameters stipulated in the Environment (Protection) Rules, 1986 amended time to time & Air (Prevention and Control of Pollution) Act, 1981 amended time to time.
6. PP to ensure storage of chemicals as per the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 amended time to time to ensure no release of any chemical to the atmosphere and leakage to the soil.
7. PP to ensure transport, storage, handling and use of the flammable/toxic chemicals as per conditions stipulated in license/approval of the Petroleum & Explosive Safety Organization (PESO).
8. PP to obtain approval and License from the Directorate of Industrial Health & Safety (DIHS) for proposed project and implement all condition stipulated therein. PP to carry out Safety Audit as stipulated in the Maharashtra Factories Rules, 1963 and ensure

- compliance of recommendation of the Audit.
9. PP to provide solar energy for illumination of Administrative Building, Street Lights and parking Area.
  10. PP to ensure use of briquette /bio coal/ pellets/ or any such suitable product derived from scientific processing of appropriate stream of dry waste/agricultural waste , not less than 50 % of the total fuel requirement to the boiler.
  11. PP to provide roof top Rain Water Harvesting facility.
  12. PP to ensure that proposed project is ZLD.

**General Conditions:**

- I. The project proponent 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 Environmental Clearance letter are available with the Maharashtra Pollution Control Board, website of the company and may also be seen at Website at <http://parivesh.nic.in>
- II. The project Proponent shall upload the status of compliance (soft copies) of the conditions stipulated Environmental Clearance letter including monitoring data of air, water, soil, noise etc. on their website and shall update the same periodically. The half yearly compliance report shall simultaneously be submitted to the Maharashtra Pollution Controls Board, SEIAA and the Regional Office off MoEF&CC at Nagpur, on 1<sup>st</sup> June & 1<sup>st</sup> December of each calendar year.
- III. Separate fund shall be allocated for the implementation of Environmental Management Plan along with item wise break up and specific time line for its completion. The cost shall be included as part of the project cost. The funds earmarked for the environmental protection measures shall not be diverted for other purpose and year-wise expenditure should be reported to the MPCB and the SEIAA.
- IV. A separate Environmental Management Cell with qualified personnel shall be set up for implementation of the stipulated environmental safeguards.
- V. In the event of failure of any pollution control equipment, the manufacturing activity shall be immediately stopped safely till the effective functioning of pollution control equipment's is regained.
- VI. PP to strictly follow conditions stipulated in the Consent to Establish/Operate issued by the Maharashtra Pollution Control Board.
- VII. PP to provide separate drains for storm water and effluent, and ensure that, the storm water drains are dry all the time and in no case the effluent shall mix with the storm water drain.
- VIII. Periodic Monitoring of ground water in the study area as marked in the Environmental Impact Assessment Report shall be undertaken and results analysed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.
- IX. The overall noise levels in and around the factory premises shall be kept within the prescribed standard under the Environment (Protection) Act, 1986 and Rule, 1989 as amended from time to time by providing adequate noise control measures and protective equipment's like ear muff and ear plug etc.
- X. Adequate safety measures shall be ensured to limit the risk zone within the factory premises. Leak detection system shall be installed for early detection and mitigation purpose.



- XI. PP to scrupulously follow the requirements of Maharashtra Factories Act, 1948 & Rules 1963 as amended from time to time.
- XII. The Environmental Statement for each financial year ending on 31<sup>st</sup> March in Form-V as is mandated to be submitted by the Project Proponent to the concerned Pollution Control Board as prescribed under the Environment (Protection) Rule, 1989 as amended from time to time, it shall also be put on the website of the company along with the status of the compliance of the conditions stipulated in the Environmental Clearance letter.

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. In case of submission of false document and non-compliance of stipulated conditions, Authority/ Environment Department will revoke or suspend the Environment clearance without any intimation and initiate appropriate legal action under Environmental Protection Act, 1986.


6. The Environment department reserves the right to add any stringent condition or 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.

7. Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EIA Notification, 2006, amended time to time.

8. 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.

9. 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.

10. Any appeal against this Environment clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1<sup>st</sup> Floor, D-Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

  
Manisha Patankar  
(Member Secretary, SEIAA) 16/8/22

Copy to:

1. Chairman, SEIAA (Maharashtra), Mumbai.
2. Secretary, MoEF & CC
3. IA- Division MOEF & CC
4. Member Secretary, Maharashtra Pollution Control Board, Mumbai.
5. Regional Office MoEF & CC, Nagpur
6. District Collector, Pune
7. Regional Officer, Maharashtra Pollution Control Board, Pune

**Environmental Clearance Compliance Statement**

Project Name: Proposed Expansion of Production of MS Billet Capacity 24000 TPA to 180000 TPA and Rolling mill 24000 TPA to 180000 TPA.

at Gut No: 350 & 361, Bhandgaon, Khor Road Yavat,

Tal – Daund, Dist: Pune Maharashtra by

**M/s. Meenakshi Ferro Ingots Pvt Ltd.**

Category of the Project: Ferrous & Non-Ferrous B1

Ref. No.: SIA/MH/IND/70976/2018 Dated: 17<sup>th</sup> August 2022

EC Compliance Period: APRIL to SEPTEMBER 2023

S. N.	Conditions	Compliance
	<b>SEAC CONDITIONS</b>	
i.	PP to provide social infrastructure like sanitation facility/Clean drinking water and solar power from their CER fund in consultation with the CEO Zilla Parishad, Pune.	Noted & Complied. We have submitted the CER (Comprehensive Emergency Response) plan to the District Collector to ensure the safety and well-being of our community. We are now actively working in collaboration with the District Collector to implement this plan and have enclosed an acknowledgment as proof of submission.
ii.	PP to ensure removal of waste slag twice a week.	Noted and complied. We crushed the slag and after crushing it sold it to a brick manufacturing industry, this process takes place daily, and the slag is not stored for more than one or two days.
iii.	PP to ensure compliance of recommendations of the Risk Assessment. PP to appoint a safety officer having qualification as per Factories Act.	Noted and complied. In compliance with the Factories Act, a risk assessment study is conducted, a safety officer is appointed, and the study's suggestions are implemented.
iv.	PP to provide STP for the treatment of domestic sewage.	Noted and complied. We will provide the 10 CMD STP, and the treated

		water will be used for gardening and spraying purposes on the plant premises.
v.	PP to include carbon and water foot print monitoring in their Management plan. PP to take necessary steps in reduction of water and carbon foot print through various modern technologies.	Noted and being complied. Analysis has been done on the carbon and water footprints, and both have been subjected to environmental management plan monitoring. We are working carefully to use innovative, revolutionary technology to reduce both carbon and water footprints.
	<b>SEIAA CONDITIONS</b>	
I.	PP submitted ADTP plan dated 31.03.2005, as per the said plan total plot area is 25798.35m <sup>2</sup> and plantation area provided is 8965.875 m <sup>2</sup> . Green belt area of 8823.62 m <sup>2</sup> is provided by PP i.e.34.21% of total plot area.	Complied it. In order to develop a green belt, we have allotted 8965.875 SQM of space, planted 1450 trees in accordance with standards, and are steadily adding more trees every day.
II.	PP to undertake Miyawaki plantation of native and indigenous trees such as Banyan, Peepal, Neem, Jamun and other suitable trees as per the Forest Department, Govt. of Maharashtra circular no SaVaVi-2019/C.R.3/F-11, Dated 25th June 2019. The said plantation to be completed in the first year of operation of Environmental Clearance under expert guidance of Miyawaki expert/ arborist.	Complied it. We have planted enough natural and indigenous trees, such as banyan, peepal, neem, jamun, kher, hiwar, and sisam, on 34.21% of the total land. Under the Department of Forests' guidelines, the Miyawaki dense forest concept is being applied.
III.	PP to strictly observe the Solid Waste Management Rules 2016 as amended time to time.	Noted and complying with. The solid waste generated i.e. slag is crushed and routinely sold out to the brick manufacturer.
IV.	PP strictly observe the Hazardous and Other Wastes (Management & Transboundary Movement) Rules 2016 as amended time to time.	Agreed to Comply. Our industrial activity is not involved in generating hazardous waste or use in the process.

V.	PP to identify all sources of fugitive air pollution on site and provide pollution control measures to mitigate pollution and meet the standard parameters stipulated in the Environment (Protection) Rules, 1986 amended time to time & Air (Prevention and Control of Pollution) Act, 1981 amended time to time.	To reduce fugitive emissions, water is frequently sprayed on the approach road and inside the roadways of industrial buildings. Green belts have been developed around the whole perimeter of the project site to prevent the spread of dust caused by project operations. To meet MPCB requirements, Bag filter and dust collection systems, de-dusting systems, and dust suppression systems—like water spraying—are provided.
VI.	PP ensure storage of chemicals as per the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 amended time to time to ensure no release of any chemical to the atmosphere and leakage to the soil.	Agreed to comply In our industry, we do not use any type of chemicals for production or any other industrial operations.
VII.	PP to ensure transport, storage, handling and use of the flammable/toxic chemicals as per conditions stipulated in license/approval of the Petroleum & Explosive Safety Organization (PESO).	Agreed to comply.
VIII.	PP to obtain approval and license from the Directorate of Industrial Health & Safety (DIHS) for proposed project and implement all condition stipulated therein. PP to carry out Safety Audit as stipulated in the Maharashtra Factories Rules, 1963, and ensure compliance of recommendation of the Audit.	Noted and complied. We have the Certificate from the Directorate of Industrial Health & Safety (DIHS), we have implemented the stipulated conditions, and safety audit and report are available in the factory.
IX.	PP to Provide solar energy for illumination of Administrative Building, Street Lights and parking Area.	Noted and complied. We have installed LED-based lighting all over the industrial premises as well as in the office building, To reduce energy consumption and all the system is on solar energy.

X.	PP to ensure use of briquettes / bio coal/ pellets or any such suitable product derived from scientific processing of appropriate stream of dry waste/ agricultural waste, not less than 50% of the total fuel requirement to the boiler.	Agreed to comply Our fuel for the induction furnace is electricity, and for the Reheating furnace fuel is Coal.
XI.	PP to provide roof top Rain Water Harvesting Facility.	Complied it. Collection tanks and recharge pits are provided.
XII.	PP to ensure that proposed project is ZLD.	Noted and complied. The industry manufacturing process does not produce effluent. Instead of continuously drawing new water for cooling purposes, we settle down and reuse water to conserve water resources and minimize the overall water footprint of the manufacturing process, Domestic wastewater generated within the facility is treated in a Sewage Treatment Plant (STP). The treated water from the STP is further utilized for gardening purposes. We use the treated water for non-potable applications, such as gardening, for a sustainable practice that contributes to water conservation and reduces the demand for freshwater resources.
	<b>GENERAL CONDITIONS</b>	
i.	The project proponent shall advertise at least in two local newspaper 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 latter, informing that the project has been accorded Environmental Clearance and	The advertisement was published in both English and Marathi Languages, dated: 22. 08. 2022, Copy for the same is enclosed.



	copies of Environmental Clearance letter are available with the Maharashtra Pollution Control Board, website of the company and may also be seen at Website at <a href="http://parivesh.nic.in">http://parivesh.nic.in</a>	
ii	The project proponent shall upload the status of compliance (soft copies) of the conditions stipulated Environmental Clearance letter including monitoring data of air, water, soil, noise etc. on their website and shall update the same periodically. The half yearly compliance report shall simultaneously be submitted to the Maharashtra Pollution Control Board, SEIAA and the Regional Office of MoEF& CC at Nagpur, on 1st June & 1st December of each calendar year	We are regularly submitting six monthly EC compliance reports on time along with the monitoring reports, and the same has been submitted to the MPCB & the regional office of MoEF & CC at Nagpur.
iii	Separate fund shall be allocated for the implementation of Environmental Management Plan along with item wise break up and specific time line for its completion. The cost shall be included as part of the project cost. The funds earmarked for the environmental protection measures shall not be diverted for other purpose and year-wise expenditure should be reported to the MPCB and SEIAA.	Noted. We guarantee that the funds we have set aside specifically for EMP, divided up item by item, won't be misused or diverted. Reports for the same are submitted to the MPCB and SEIAA.
iv	A separate Environmental Management Cell with qualified personnel shall be set up for implementation of the stipulated environmental safeguards.	In our industry, we have in house Environmental Management Cell with qualified staff in each sector, safety, environment, and factory act.

v	In the event of failure of any pollution control equipment, the manufacturing activity shall be immediately stopped safely till the effective functioning of pollution control equipment's is regained.	Noted. If this kind of incident occurs, we immediately halt all operational activities till the system is fully functional.
vi	PP to strictly follow conditions stipulated in the Consent to Establish/ Operate issued by the Maharashtra Pollution Control Board.	Noted and being complied.
vii	PP to provide separate drains for storm water and effluent, and ensure that, the storm water drain are dry all the time and in no case the effluent shall mix with the storm water drain.	Noted and complied. We have provided Separate drains for the stormwater and domestic wastewater, so they do not get mixed.
	Periodic monitoring of ground water in the study area as marked in the Environmental Impact Assessment Report shall be undertaken and results analysed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.	Noted and complied. We are regularly submitting the periodic monitoring report on time along with the six monthly ec compliance report, copy for the same is enclosed.
viii	The overall noise level in and around the factory premises shall be kept within the prescribed standard under the Environment (Protection) Act, 1986 and Rule, 1989 as amended from time to time by providing adequate noise control measures and protective equipment's like ear muff and ear plug etc.	Noted and complied. We have provided adequate noise control measures to machinery, we do regular oiling and greasing to it to reduce the machine frictions, employees are equipped with the ear plugs, muffs etc.
ix	Adequate safety measures shall be ensured to limit the risk zone within the factory premises. Leak detection system shall be installed for early detection and	We have provided a complete firefighting system, At the office and furnace locations and potential safety measures are provided in place to reduce the risk zone inside the plant

	mitigation purpose.	boundary.
x	PP to scrumptiously follow the requirements of Maharashtra Factories Act, 1948 & Rules 1963 as amended from time to time.	Noted and complying with.
xi	The Environmental Statement for each financial year ending on 31st March Form-V as is mandated to be submitted by the Project Proponent to the concerned Pollution Control Board as prescribed under the Environment (Protection) Rule, 1989 as amended from time to time, it shall also be put on the website of the company along with the status of the compliance of the conditions stipulated in the Environmental Clearance letter.	Noted and complying with. We are regularly submitting the Environmental Statement Report on time, a copy of the same is enclosed.



जिल्हा परिषद पुणे  
जिल्हा पाणी व स्वच्छता मिशन कक्ष  
स्वच्छ भारत मिशन (गाामीण)

नविन प्रशासकीय इमारत, डॉ. बाबासाहेब आंबेडकर रस्ता, पुणे - १



जा.क्र. जिप/स्व.भा.मि./ME/CSR/१३६/२०२०

दिनांक २५/०२/२०२०

प्रति,

मा. संचालक,

MEENAKSHI FERRO INGOTS Pvt. Ltd.

भांडगाव, ता. दौंड, जि. पुणे

विषय : CER व CSR अंतर्गत भांडगाव येथील प्रस्तावित विकास कामे पूर्ण करणे बाबत ...

संदर्भ : आपले दिनांक ०६/०२/२०२० रोजीचे पत्र

उपरोक्त संदर्भीय पत्रान्वये औद्योगिक प्रकल्पाच्या प्रास्ताविक विस्तारीकणांतर्गत राबविण्यात येणा-या CSR व CER अंतर्गत रक्कम रुपये ३,५०,०००/- (अक्षरी र. रु. तीन लक्ष पन्नास हजार) अनुदान खर्च करणेबाबत सुचित केले आहे.

त्यानुसार ग्रामपंचायत भांडगाव कार्यक्षेत्रामध्ये खालील प्रमाणे प्रस्तावित विकास कामे व त्यासाठीचा खर्च.

अ. क्र.	प्रस्तावित कामे	खर्च रक्कम रुपये
१	पथ दिवे	
२	भांडगाव गावाकरीता पाणी पुरवठा योजना (पुरंदर सिंचन प्रकल्पांतर्गत)	१,००,०००/-
३	अंगणवाडी (अ. प्रकाशव्यवस्था, ब. शाळासिध्दी योजनांतर्गत शाळांना मदत)	१,५०,०००/-
एकुण खर्च रक्कम रुपये		३,५०,०००/-

वरिल प्रमाणे ग्रामपंचायत भांडगाव येथील प्रस्तावित विकास कामास र. रु. ३,५०,०००/- इतका खर्च येणार असून सदरचे प्रस्तावित विकास कामे आपले कंपनी मार्फत करून देणेत यावे ही विनंती.

प्रत माहिती व उचित कार्यवाहीस्तव  
गटविकास अधिकारी (उ. श्रे.), पंचायत समिती, दौंड

प्रत माहितीस्तव सविनय सादर  
मा. मुख्य कार्यकारी अधिकारी, जि. प. पुणे

उपमुख्य कार्यकारी अधिकारी (पा व स्व)  
जिल्हा परिषद, पुणे

दि. 22-01-2020.

प्रति,  
मा. जिल्हाधिकारी साहेब,  
जिल्हाधिकारी कार्यालय,  
पुणे.

**विषय:** प्रकल्प विस्तारीकरणांतर्गत राबविण्यात येणार्यासकॉर्पोरेट सोशल रीस्पॉन्सिबिलीटी (CSR) आराखड्यासमार्गदर्शन मिळणे बाबत

माननीय महोदय,

मे. मिनाक्षी फेरो इंगोट्स प्रा. लि. ही कंपनी सन, २००५ मध्ये, गट नं.३५० आणि ३६१,भांडगाव खार रोड, यावत एमआयडीसी, तहसील- दौंड, जिल्हा- पुणे येथे स्थापन करण्यात आलेली आहे. सद्यस्थितीत या कंपनीमध्ये एम.एस.इंगोट्स / बिलेट्सचे २००० टनप्रतिमहिना उत्पादन घेतले जात असून प्रस्तावित प्रकल्प विस्तारीकरणानंतर सदर उत्पादन निर्मितीमध्ये वाढ होऊन ते १५००० टनप्रतिमहिना इतकेघेण्यात येणार आहे.

उपरोक्त नमूद विस्तारीकरण करण्यासाठी आम्ही पर्यावरण विभागाकडेपूर्व परवानगी मिळण्यासाठी अर्ज केलेला आहे. त्याअनुषंगाने या कंपनीचा भविष्यात विस्तार झाल्यावर होणाऱ्या उत्पन्नातून कंपनी कायद्या प्रमाणे कॉर्पोरेट सोशल रीस्पॉन्सिबिलीटी (CSR) अंतर्गत होणाऱ्या खर्चाचे नियोजन पत्रक पर्यावरण विभागातील कार्यरत कमिटीसमोरसादर करावयाचे आहे. सदर नियोजन पत्रकात आम्ही विविध सामाजिक उपक्रमात करणाऱ्या खर्चाचे नियोजन केलेले आहे व ते या पत्रासोबत जोडले आहे.

तरी पुणे जिल्ह्याच्या विकासाच्या दृष्टीने आम्ही तयार केलेला कॉर्पोरेट सोशल रीस्पॉन्सिबिलीटी (CSR) प्लान योग्य आहे किंवा कसे व या मध्ये जर काही सुधारणा करावयाची असेल तर तसे आम्हास मार्गदर्शन करावे, जेणेकरून आम्हाला सदर बाबींचा आम्हाच्या कॉर्पोरेटसोशलरीस्पॉन्सिबिलीटी (CSR) प्लान मध्ये समावेश करता येईल.

धन्यवाद.

आपला,

AB  
6890  
20/1/2020  
आयकर/जायक लिपिक  
जिल्हाधिकारी कार्यालय, पुणे



मे. मिनाक्षी फेरो इंगोट्स प्रा. लि. करिता

प्राधिकृत अधिकारी



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**MEENAKSHI**  
A Qualitrusted Name

**MEENAKSHI FERRO INGOTS PVT. LTD.**  
(An ISO 9001:2008 Company)

313/314, North Block, Sacred World,  
Wanowarie, Pune - 411 040.  
Tel.: 020 26806664 / 5

mfi\_pune@yahoo.co.in  
www.meenakshipune.in

Date: 22.01.2020

To,  
Honourable Collector,  
Collector Office,  
Pune,  
Maharashtra - 411001.

**Subject:** To get guidance for proposed CER activity under expansion of our project regarding. (SEIAA STATEMENT -0000001523)

Sir's,


We M/s. Meenakshi Ferro Ingots Pvt. Ltd. Located at Gut No: 350 & 361, Bhandgaon, khor road, Yavat, Taluka- Daund, District- Pune, Maharashtra.

We have proposed CER activity details committing the amount & period which we take up along with the development of the proposed project.

We shall abide to the OM-F.NO. 22-65/2017 - IA.III,Dtd- 01/05/2018, for conducting the activity. The details are submitted herewith.

Regards,

For M/s. Meenakshi Ferro Ingots Pvt. Ltd.  
Bhandgaon-Yavat, Taluka- Daund, District- Pune

  
Authorized Signatory

**Corporate Environment Responsibility (CER) – Budget**

Sr. No.	Particular/ Specific Activity	CER Budget (Lakh)
1	Plantation in surrounding villages	6.00
2	Environment Awareness Programmes	3.00
3	Solid waste management	3.00
	<b>Total</b>	<b>12.00</b>



For M/s. Meenakshi Ferro Ingots Pvt. Ltd.

  
Authorized Signatory



**जाहिर प्रगटन**

आम्ही **मे. मिनाक्षी फेरो इंगोट प्रा. लि. भांडगाव**, या प्रगटना जाहीर सूचित करतो कि, भारत सरकार वने, पर्यावरण व वातावरण बदल मंत्रालय (राज्य पर्यावरण आघात मुल्यांकन विभाग) महाराष्ट्र यांनी आमच्या मे. मिनाक्षी फेरो इंगोट प्रा. लि. भांडगाव च्या एम. एस. बिलेट ६६.६६ मेट्रिक टन प्रति दिवस ते ५०० मेट्रिक टन प्रति दिवस व रोलिंग मिल २००० मेट्रिक टन प्रती महिना ते १५००० मेट्रिक टन प्रती महिना गट क्र. ३५० व ३६१, भांडगाव, खोर रोड, येवत, ता. दौंड, जि. पुणे, महाराष्ट्र पर्यावरण मंजूरी दिनांक १७/०८/२०२२ असून पर्यावरण परवानगी ओळख क्रमांक: - EC22B008MH184950 फाईल क्र. - SIA/MH/IND/70976/2018

सदरील पर्यावरण मंजूरीची प्रत आमचे कार्यालय व प्रादेशिक कार्यालय प्रदूषण नियंत्रण मंडळ, पुणे यांच्या कार्यालयात उपलब्ध आहे. भारत सरकार वने, पर्यावरण व वातावरण बदल मंत्रालय (राज्य पर्यावरण आघात मुल्यांकन विभाग) महाराष्ट्र यांच्या सांकेतिक स्थळावर प्रकाशित केला आहे. (सांकेतिक स्थळ - (<https://parivesh.nic.in/>))

**मे. मिनाक्षी फेरो इंगोट प्रा. लि. भांडगाव**

**Public Notice**

We, **M/s. Meenakshi Ferro Ingots Pvt. Ltd.**, Hereby bring to the notice that Government of India, MoEF & CC (Issued by the State Environment Impact Assessment Authority (SEIAA) Maharashtra. EC Identification No. - EC22B008MH184950 File No. SIA/MH/IND/70976/2018 Date of Issue EC - 17/08/2022 "Environmental Clearance" to our proposed expansion of MS billets/ingots is 66.66 MTD, proposed expansion by capacity 433.33MTD, total capacity after expansion will be 500 MTD. Rolling mill (Structural Steels and TMT Bars) capacity 2000 MTM to 15000 MTM. at **GUT NO. 350 AND 361, BHANDGAON, TQ. DAUND, DIST. PUNE**, Maharashtra. Environment clearance letter is available with our office, Regional Office M.P.C.B, Pune & on the website of Government of India, MoEF & CC.(SEIAA, Maharashtra) (<https://parivesh.nic.in/>)

**M/S Meenakshi Ferro Ingots Pvt. Ltd.,**  
sd/-  
**Director**



# MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/24010437  
Fax:  
24044532/4024068/4023516  
Website: <http://mpcb.gov.in>  
Email: [jdair@mpcb.gov.in](mailto:jdair@mpcb.gov.in)



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

RED/M.S.I (R53)  
No:- Format1.0/APAE Section/UAN No.MPCB-  
CONSENT-0000132970/CR/2209002072

Date: 30/09/2022

To,  
M/s. MEENAKSHI FERRO INGOT PVT LTD  
Gut No: 350 and 361, Vill. Bhandgaon, Khor Road,  
Tq. Daund, Dist. Pune-412214, Maharashtra.



Your Service is Our Duty

**Sub: Renewal of Consent to Operate under RED/MSI Category**

- Ref:**
1. Earlier consent to operate granted vide No. APAE Section/UAN No. 99262/CR/CC-1619 dtd. 24/08/2021 valid upto 30/04/2022.
  2. Application for renewal of consent vide UAN No. 132970 dtd. 27/02/2022
  3. Show cause notice issued vide letter No. BO/JD(APC)/SCN/UAN No.132970/B-0001 dtd. 12/07/2022.
  4. Reply submitted by industry vide letter dtd. 19/07/2022.

Your application No.MPCB-CONSENT-0000132970 Dated 25.02.2022

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 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 31/07/2023**
2. **The capital investment of the project is Rs.13.27 Crs. (As per C.A Certificate submitted by industry )**
3. **Consent is valid for the manufacture of:**

Sr No	Product	Maximum Quantity	UOM
Products			
1	M. S. Billets	2450	MT/M
2	Structural Steel , Square and Round	2000	MT/M
3	Bar Flat Square	500	MT/M

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	As per Schedule-I	Not Applicable

<b>Sr No</b>	<b>Description</b>	<b>Permitted</b>	<b>Standards to</b>	<b>Disposal</b>
2.	Domestic effluent	1.5	As per Schedule-I	On land for gardening

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

<b>Sr No.</b>	<b>Stack No.</b>	<b>Description of stack / source</b>	<b>Number of Stack</b>	<b>Standards to be achieved</b>
1	S-1	INDUCTION FURNACES (Capacity 05 MT AND 04 MT )	1	As per Schedule -II
2	S-2	ROLLING MILL-1	1	As per Schedule -II
3	S-3	ROLLING MILL-2	1	As per Schedule -II

6. **Non-Hazardous Wastes:**

<b>Sr No</b>	<b>Type of Waste</b>	<b>Quantity</b>	<b>UoM</b>	<b>Treatment</b>	<b>Disposal</b>
1	SLAG	175	MT/M	SLAG CRUHER	SALE TO BRICK MANUFACTURERES

7. **Conditions under Hazardous & Other Wastes (M & T M) Rules 2016 for treatment and disposal of hazardous waste:**

<b>Sr No</b>	<b>Category No./ Type</b>	<b>Quantity</b>	<b>UoM</b>	<b>Treatment</b>	<b>Disposal</b>
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 obtain Environmental Clearance as per EIA Notification 2006 and Notification No. S.O.3250(E) dtd. 20/07/2022 issued by Ministry of Environment, Forest and Climate Change, Government of India on or before 19/07/2023.
11. The industry shall operate secondary emission control systems regularly and maintain properly.
12. Applicant shall not use ground water for industrial activity without obtain Central Ground Water Authority (CGWA) NOC. If failed to submit CGWA NOC within 3 months consent will be automatically revoke.
13. The existing Induction Furnaces having capacity 5 Ton/heat and 4 Ton/Heat use only for manufacturing of M.S. Billets.
14. The applicant shall make an application for renewal of consent 60 days prior to date of expiry of the consent. (Operate/Renewal)

**Received Consent fee of -**

<b>Sr.No</b>	<b>Amount(Rs.)</b>	<b>Transaction/DR.No.</b>	<b>Date</b>	<b>Transaction Type</b>
1	150000.00	TXN2202003455	27/02/2022	Online Payment

**Earlier balance consent fee of Rs.25,000/- considered in this renewal. Hence total consent fee of Rs. 1,75,000/- (Rs.25000/- + Rs. 150000/-). Out of this total fee of Rs. 1,12,500/- balance with Board will be consider during next renewal.**

**Copy to:**

1. Regional Officer, MPCB, Pune and Sub-Regional Officer, MPCB, Pune I  
- They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Sion, Mumbai



## **SCHEDULE-I**

### **Terms & conditions for compliance of Water Pollution Control:**

- 1) **A] Trade Effluent Generation : nill**  
**B] Trade effluent treatment : NA**  
**C] Trade effluent disposal : NA**
- 2) **A] As per your application, you have septic tank and soak pit for the treatment of 1.5 CMD sewage.**  
**B] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards/ prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.**

1	Suspended Solids	Not to exceed	50 mg/l
2	BOD 3 days (27°C)	Not to exceed	30 mg/l
3	COD	Not to exceed	100 mg/l

**C] The treated sewage shall be utilized for gardening. In no case, treated sewage shall be disposed of outside factory premises.**

- 3) **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:**

<b>Sr. No.</b>	<b>Purpose for water consumed</b>	<b>Water consumption quantity (CMD)</b>
1.	Industrial Cooling, spraying in mine pits or boiler feed	10.00
2.	Domestic purpose	5.00
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.	Grandening	0

- 4) **Prior permission shall be obtained from CGWA / irrigation department if ground Water/surface water is being used for industrial/Domestic purpose.**
- 5) **The Board reserves its right to review plans, specifications or other data relating to plant setup for the treatment of water works for the purification thereof & the system for disposal of sewage or trade effluent or in the 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 or disposal system or and extension or addition thereto.**
- 6) **The Applicant shall provide specific water pollution control system as per the condition of EP Act,1986, and rules 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) and observe the following fuel pattern-

Stack No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S%	SO <sub>2</sub>
S-1	INDUCTION FURNACES Capacity 05 MT & 04 MT	BAG FILTER	36	ELECTRICITY	00 --NA--	0.00	0.00
S-2	ROLLING MILL No.1	DUST COLLECTION SYSTEM	30	ELECTRICITY/COAL	400 Kg/Hr	0.50	50.00
S-3	ROLLING MILL No. 2	DUST COLLECTION SYSTEM	18	ELECTRICITY/COAL	150 Kg/Day	0.50	50.00

- 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.

<b>F. Rolling Mills</b>	
Particulate Matter (PM)	150 mg/Nm <sup>3</sup>
SO <sub>2</sub>	50 Kg/day
<b>J. Induction Furnaces</b>	
Particulate Matter (PM)	150 mg/Nm <sup>3</sup>

- 3) The internal roads shall be cement concrete and shall be maintained with adequate green belt.
- 4) The industry shall not cause any nuisance in surrounding area.
- 5) Industry shall install 24\*7 online continuous emission monitoring system at process stack to monitor stack emissions as per CPCB guidelines and it's connectivity to CPCB & MPCB Servers. PP shall Calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- 6) A) Noise Levels Standards
- |                            |                    |
|----------------------------|--------------------|
| 1.00 AM - 10.00 PM         | 10.00 PM - 6.00 AM |
| Noise level Leq 75 dB (9A) | Leq 70 dB (A)      |
- B) Fugitive Emission Standards

The fugitive emissions level of suspended particulate matter (SPM) should not exceed 2000 µg/m<sup>3</sup>. The applicant shall install de-dusting system at the following locations & monitor the fugitive emissions levels and submit report to the board monthly.

- a. The existing industry shall comply with the standard of 2000 ug/m<sup>3</sup>
- b. Fugitive emission shall be monitored at a distance 10 meters from the source of fugitive emissions as per following.

Sr. No.	Area	Monitoring Location
1.	Raw material handling area	Wagon tippler, Screen area, Transfer Points, Stock Bin area.
2.	Crusher area	Crushing plant, vibrating screen, transfer points.
3.	Raw material feed area	Feeder area, Mixing area, transfer points, days bins
4.	Cooler discharge area	Over size discharge area, Transfer points.
5.	Product processing area	Intermediate stock bin area. Vibrating screens, Magnetic Separation unit. Transfer Points, Over Size discharge area, Product separation area, Bagging area, hoppers/storage bins.

C) Other Conditions



### 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	C to R	Rs. 3 Lakhs	15 days	Towards O & M of pollution control systems and compliance of consent conditions	Continuous	31/08/2023
2	C to R	Rs.2 Lakhs	15 days	Towards O & M of secondary emission control systems	Regular activity	31/08/2023

#### 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](http://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.

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**This certificate is digitally & electronically signed.**

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# 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-0000061859

### Submitted Date

30-09-2023

## PART A

### Company Information

#### Company Name

M/S: MEENAKSHI FERRO INGOTS  
PVT LTD

#### Application UAN number

MPCB-CONSENT-0000132970

#### Address

GUT NO 350 & 361, VILL.  
BHANDGAON, KHOR ROAD, TAL:  
DAUND, DIST: PUNE.

#### Plot no

350 & 361

#### Taluka

DAUND

#### Village

BHANDGAON

#### Capital Investment (In lakhs)

1327

#### Scale

M.S.I.

#### City

PUNE

#### Pincode

412214

#### Person Name

M.A. SIDDIQUI

#### Designation

DIRECTOR

#### Telephone Number

9049990813

#### Fax Number

00

#### Email

mfi\_pune@yahoo.co.in

#### Region

SRO-Pune I

#### 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/APAE Section/UAN No.MPCB-  
CONSENT-0000132970/CR/2209002072

#### Consent Issue Date

2022-09-30

#### Consent Valid Upto

2023-07-31

#### Establishment Year

0

#### Date of last environment statement submitted

Sep 29 2022 12:00:00:000AM

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

### Product Information

#### Product Name

MS BILLETS

#### Consent Quantity

29400

#### Actual Quantity

4391.081

#### UOM

MT/A

STRUCTURAL STEEL, SQUARE, ROUND AND BAR FLAT SQUARE

30000

23857.83

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
Cooling	10.00	9.00
Domestic	5.00	5.00
All others	0.00	0.00
<b>Total</b>	15.00	14.00

### 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	0.85	1.21	CMD
STRUCTURAL STEEL, SQUARE, ROUND AND BAR FLAT SQUARE	3.50	4.78	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 SCRAPS/ SPONGE IRON AND OTHER MINERALS	22745.58	32751.120	MT/A

### 4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
COAL	00	46.8	MT/A
ELECTRICITY	00	46186.512	Mwh

## 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	0	0	NA

#### [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
SPM/TPM	00	56.33	NA	150	NA
SO2	00	1.87	NA	80	NA

## Part-D

### HAZARDOUS WASTES

#### 1) From Process

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

#### 2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	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	910	1279.70	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	00

#### 2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
SLAG	1279.70	MT/A	NA

## 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)
00	00	00	00	00	00	00

## Part-H

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***Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.***

***[A] Investment made during the period of Environmental Statement***

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
UPGRADATION IN APC SYSTEM	UPGRADATION IN APC SYSTEM: PRIMARY & SECONDARY FUME EXTRACTION SYSTEM FOLLOWED BY BAG FILTER	110

---

***[B] Investment Proposed for next Year***

<b><i>Detail of measures for Environmental Protection</i></b>	<b><i>Environmental Protection Measures</i></b>	<b><i>Capital Investment (Lacks)</i></b>
APC, GREEN BELT, ENV COMPLIANCES	O&M APC SYSTEM, GREEN BELT DEVELOPMENT AND ENVIRONMENTAL COMPLIANCES	00

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**Part-I**

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***Any other particulars for improving the quality of the environment.***

***Particulars***

INDUSTRY FOLLOWS THE MPCB'D DIRECTION AND FULFILS ENVIRONMENTAL COMPLIANCES WITHIN THE DEADLINES SET BY THE BOARD.

***Name & Designation***

M.A. SIDDIQUI (DIRECTOR)

***UAN No:***

MPCB-ENVIRONMENT\_STATEMENT-0000061859

***Submitted On:***

30-09-2023



## TEST REPORT (Ambient Air)

Report No.	NLES/23-24/04/AA/RE/180	Report Issue Date	19/04/2023		
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.				
Discipline	Chemical	Date & Time of Sampling	From 10:00 AM of 13/04/2023 to 6:10 PM of 13/04/2023 (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	33 <sup>o</sup> C		
Wet bulb temperature	26 <sup>o</sup> C	Relative Humidity	41 %		
Sample Volume	SO <sub>2</sub> :30 ml x1 no. (Plastic Bottle), NO <sub>2</sub> :30 mlx1 no. (Plastic Bottle) PM <sub>10</sub> :1x1no. (Filter Paper), PM <sub>2.5</sub> :1x1no. (Filter Paper)				
Start Date of Analysis	14/04/2023	End Date of Analysis	19/04/2023		
<b>Results</b>					
Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO <sub>2</sub> )	23.6	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO <sub>2</sub> )	27.8	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM <sub>10</sub>	71.3	µg/m <sup>3</sup>	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter PM <sub>2.5</sub>	49.8	µg/m <sup>3</sup>	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O <sub>3</sub> )	9.7	µg/m <sup>3</sup>	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH <sub>3</sub> )	4.6	µg/m <sup>3</sup>	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	BDL	µg/m <sup>3</sup>	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m <sup>3</sup>	≤ 06	
9	Nickel (Ni)	BDL	ng/m <sup>3</sup>	≤ 20	
10	Carbon Monoxide (CO)	0.25	mg/m <sup>3</sup>	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m <sup>3</sup>	≤ 1.0	IS 5182 Part 12
12	Benzene(C <sub>6</sub> H <sub>6</sub> )	BDL	µg/m <sup>3</sup>	≤ 05	IS 5182 Part 11
<b>Remark-</b> 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/181		Report Issue Date	19/04/2023	
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.				
Discipline	Chemical	Date & Time of Sampling	From 10:10 AM of 13/04/2023 to 6:10 PM of 13/04/2023 (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 <sup>0</sup> C		
Wet bulb temperature	26 <sup>0</sup> C	Relative Humidity	39 %		
Sample Volume	SO <sub>2</sub> :30 ml ×1 no. (Plastic Bottle), NO <sub>2</sub> :30 ml×1 no. (Plastic Bottle) PM <sub>10</sub> :1×1no. (Filter Paper), PM <sub>2.5</sub> :1×1no. (Filter Paper)				
Start Date of Analysis	14/04/2023	End Date of Analysis	19/04/2023		
Results					
Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO <sub>2</sub> )	17.5	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO <sub>2</sub> )	24.5	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM <sub>10</sub>	68.9	µg/m <sup>3</sup>	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter PM <sub>2.5</sub>	45.3	µg/m <sup>3</sup>	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O <sub>3</sub> )	9.4	µg/m <sup>3</sup>	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH <sub>3</sub> )	5.2	µg/m <sup>3</sup>	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	0.014	µg/m <sup>3</sup>	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m <sup>3</sup>	≤ 06	
9	Nickel (Ni)	BDL	ng/m <sup>3</sup>	≤ 20	
10	Carbon Monoxide (CO)	0.32	mg/m <sup>3</sup>	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m <sup>3</sup>	≤ 1.0	IS 5182 Part 12
12	Benzene(C <sub>6</sub> H <sub>6</sub> )	BDL	µg/m <sup>3</sup>	≤ 05	IS 5182 Part 11
<b>Remark-</b> 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/182	Report Issue Date	19/04/2023		
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.				
Discipline	Chemical	Date & Time of Sampling	From 10:20 AM of 13/04/2023 to 6:20 PM of 13/04/2023 (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 <sub>2</sub> :30 ml ×1 no. (Plastic Bottle), NO <sub>2</sub> :30 ml×1 no. (Plastic Bottle) PM <sub>10</sub> :1×1no. (Filter Paper), PM <sub>2.5</sub> :1×1no. (Filter Paper)				
Start Date of Analysis	14/04/2023	End Date of Analysis	19/04/2023		
<b>Results</b>					
Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO <sub>2</sub> )	16.9	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO <sub>2</sub> )	21.7	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM <sub>10</sub>	63.9	µg/m <sup>3</sup>	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter PM <sub>2.5</sub>	47.7	µg/m <sup>3</sup>	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O <sub>3</sub> )	9.6	µg/m <sup>3</sup>	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH <sub>3</sub> )	4.5	µg/m <sup>3</sup>	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	BDL	µg/m <sup>3</sup>	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m <sup>3</sup>	≤ 06	
9	Nickel (Ni)	BDL	ng/m <sup>3</sup>	≤ 20	
10	Carbon Monoxide (CO)	0.31	mg/m <sup>3</sup>	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m <sup>3</sup>	≤ 1.0	IS 5182 Part 12
12	Benzene(C <sub>6</sub> H <sub>6</sub> )	BDL	µg/m <sup>3</sup>	≤ 05	IS 5182 Part 11
<b>Remark-</b> 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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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				
Report No.	NLES/23-24/04/NI/RE/183	Report Issue Date	19/04/2023	
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.			
Discipline	Chemical			
Group	Atmospheric Pollution			
Sub Group	Ambient Air			
Sample Name	Ambient Noise			
Date of Sampling	13/04/2023			
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	68.9	59.5	Day Time = 75 dB Night Time =70 dB
2	Admin Office	60.4	52.3	
<b>Remark-</b> 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)

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

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### TEST REPORT (Stack Emission)

<b>Report No.</b>	NLES/23-24/04/ST/RE/184	<b>Report Issue Date</b>	19/04/2023		
<b>Name and Address of Customer</b>	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.				
<b>Discipline</b>	Chemical	<b>Sample Description</b>	Stack Material: MS		
<b>Group</b>	Pollution & Environment.		Stack Height: 36 Mtr		
<b>Sub Group</b>	Stack Emission		Stack Type: Round		
<b>Date of Sampling</b>	13/04/2023	<b>Sampling Location</b>	Induction Furnace Stack		
<b>Sampling done by</b>	Neetal Laboratories and Environmental Services Private Limited	<b>Sampling duration</b>	30 Min		
<b>Sample Quantity</b>	Thimble 1 Nos and 30 ml Solution	<b>Sampling Procedure</b>	CPCB Guideline on methodologies for source emission monitoring		
<b>Start Date of Analysis</b>	14/04/2023	<b>End Date of Analysis</b>	19/04/2023		
Results					
Sr. No.	Parameters	Results	Unit(s)	Specifications (MPCB Consent)	Methods
1	Flue Gas Temperature	46	°C	--	--
2	Differential Pressure	4.8	mm WG		
3	Velocity	8.41	M/s		
4	Total Particulate Matter	45.6	mg/Nm <sup>3</sup>	≤ 150	IS 11255 (Part 1)
5	Sulphur Dioxide (SO <sub>2</sub> )	23.6	mg/Nm <sup>3</sup>	N.S.	IS 11255 (Part 2)
6	Sulphur Dioxide (SO <sub>2</sub> )	1.12	Kg/day	N.S.	IS 11255 (Part 2)
7	Oxides of Nitrogen (Nox)	21.9	mg/Nm <sup>3</sup>	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)

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

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## TEST REPORT (Stack Emission)

Report No.	NLES/23-24/04/ST/RE/185	Report Issue Date	19/04/2023
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.		
Discipline	Chemical	Sample Description	Stack Material: MS
Group	Pollution & Environment.		Stack Height: 18 Mtr
Sub Group	Stack Emission		Stack Type: Round
Date of Sampling	13/04/2023	Sampling Location	Re-Heating 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	14/04/2023	End Date of Analysis	19/04/2023

### Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (MPCB Consent)	Methods
1	Flue Gas Temperature	49	°C	--	--
2	Differential Pressure	4.2	mm WG		
3	Velocity	8.16	M/s		
4	Total Particulate Matter	49.8	mg/Nm <sup>3</sup>	≤ 150	IS 11255 (Part 1)
5	Sulphur Dioxide (SO <sub>2</sub> )	21.4	mg/Nm <sup>3</sup>	N.S.	IS 11255 (Part 2)
6	Sulphur Dioxide (SO <sub>2</sub> )	1.09	Kg/day	N.S.	IS 11255 (Part 2)
7	Oxides of Nitrogen (Nox)	33.4	mg/Nm <sup>3</sup>	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



Reviewed By

Authorized Signatory

### TEST REPORT

<b>Report No:</b>	<b>NLES/23-24/04/WZ/RE/186</b>	<b>Report Issue Date</b>	<b>19/04/2023</b>	
<b>Name and Address of Customer</b>	<b>M/s.MEENAKSHI FERRO INGOT PVT LTD.</b> Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.			
<b>Sample Name</b>	<b>Workzone Noise</b>	<b>Date of Sampling</b>	<b>13/04/2023</b>	
<b>Sampling done by</b>	Neetal Laboratories and Environmental Services Private Limited			
Results				
Sr. No.	Locations	dB(A)	Specifications (The Factories Act 1948, standards)	Method
1.	Funace Shed	84.8	≤90	CPCB Guideline
2.	Casting Area	81.3		
3.	Raw Material Handling Unit	76.8		
<b>Remark-</b>	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)

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

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## TEST REPORT

Report No.	NLES/23-24/04/W/RE/187	Report Issue Date	19/04/2023
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.		
Discipline	Chemical	Date of Sample Collection	13/04/2023
Group	Water	Sample Quantity	02 lit Plastic Can
Sub Group	Surface Water	Sampling Procedure	APHA 1060
Sample Description	Matoba Lake	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	14/04/2023	End Date of Analysis	19/04/2023

### Results


Sr. No.	Parameters	Unit(s)	Results	Methods
<b>PHYSICAL PARAMETERS</b>				
1	Odour	-	Agreeable	IS 3025 Part-5
2	pH at 25°C	-	7.04	APHA 4500 H+ A, 23 <sup>rd</sup> Ed. 2017
3	Turbidity	NTU	0.69	IS 3025 Part-10
4	Total Dissolved Solids	mg/l	687	APHA 2540 C, 23 <sup>rd</sup> Ed. 2017
5	Ammonical Nitrogen as N	mg/l	0.53	APHA 4500 NH <sub>3</sub> , 23 <sup>rd</sup> Ed. 2017.
6	Calcium (as Ca)	mg/l	35.6	APHA 3500 Ca B, 23 <sup>rd</sup> Ed. 2017
7	Chloride (as Cl)	mg/l	92.4	APHA 4500 Cl <sup>-</sup> B 23 <sup>rd</sup> Ed. 2017
8	Fluoride (as F)	mg/l	0.72	APHA 4500 F <sup>-</sup> D 23 <sup>rd</sup> 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 <sup>rd</sup> Ed. 2017
11	Nitrate (as NO <sub>3</sub> )	mg/l	6.78	APHA 4500 NO <sub>3</sub> - B 23 <sup>rd</sup> Ed. 2017
12	Sulphate (as SO <sub>4</sub> )	mg/l	59.4	APHA 4500 SO <sub>4</sub> E, 23 <sup>rd</sup> Ed. 2017
13	Total Alkalinity (as CaCO <sub>3</sub> )	mg/l	259.7	APHA 2320 B, 23 <sup>rd</sup> Ed. 2017
14	Total Hardness (as CaCO <sub>3</sub> )	mg/l	337.6	APHA 2340 B, 23 <sup>rd</sup> Ed. 2017
15	Iron (as Fe)	mg/l	0.72	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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**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

Report No.	NLES/23-24/04/W/RE/188	Report Issue Date	19/04/2023
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.		
Discipline	Chemical	Date of Sample Collection	13/04/2023
Group	Water	Sample Quantity	02 lit Plastic Can
Sub Group	Ground Water	Sampling Procedure	APHA 1060
Sample Description	Bhandgaon 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	14/04/2023	End Date of Analysis	19/04/2023

### Results


Sr. No.	Parameters	Unit(s)	Results	Methods
<b>PHYSICAL PARAMETERS</b>				
1	Odour	-	Agreeable	IS 3025 Part-5
2	pH at 25°C	-	7.02	APHA 4500 H+ A, 23 <sup>rd</sup> Ed. 2017
3	Turbidity	NTU	0.57	IS 3025 Part-10
4	Total Dissolved Solids	mg/l	542	APHA 2540 C, 23 <sup>rd</sup> Ed. 2017
5	Ammonical Nitrogen as N	mg/l	0.36	APHA 4500 NH3, 23 <sup>rd</sup> Ed. 2017.
6	Calcium (as Ca)	mg/l	31.5	APHA 3500 Ca B, 23 <sup>rd</sup> Ed. 2017
7	Chloride (as Cl)	mg/l	79.8	APHA 4500 Cl <sup>-</sup> B 23 <sup>rd</sup> Ed. 2017
8	Fluoride (as F)	mg/l	0.46	APHA 4500 F <sup>-</sup> D 23 <sup>rd</sup> 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	12.5	APHA 3500 Mg A, 23 <sup>rd</sup> Ed. 2017
11	Nitrate (as NO <sub>3</sub> )	mg/l	2.69	APHA 4500 NO <sub>3</sub> - B 23 <sup>rd</sup> Ed. 2017
12	Sulphate (as SO <sub>4</sub> )	mg/l	51.4	APHA 4500 SO <sub>4</sub> E, 23 <sup>rd</sup> Ed. 2017
13	Total Alkalinity (as CaCO <sub>3</sub> )	mg/l	196.7	APHA 2320 B, 23 <sup>rd</sup> Ed. 2017
14	Total Hardness (as CaCO <sub>3</sub> )	mg/l	287.5	APHA 2340 B, 23 <sup>rd</sup> 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)

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

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Page 1 of 1

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/23-24/05/AA/RE/430	Report Issue Date	25/05/2023		
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.				
Discipline	Chemical	Date & Time of Sampling	From 10:10 AM of 19/05/2023 to 6:10 PM of 19/05/2023 (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	37°C		
Wet bulb temperature	27°C	Relative Humidity	39 %		
Sample Volume	SO <sub>2</sub> :30 ml ×1 no. (Plastic Bottle), NO <sub>2</sub> :30 ml×1 no. (Plastic Bottle) PM <sub>10</sub> :1×1no. (Filter Paper), PM <sub>2.5</sub> :1×1no. (Filter Paper)				
Start Date of Analysis	20/05/2023	End Date of Analysis	25/05/2023		
<b>Results</b>					
Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO <sub>2</sub> )	23.9	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO <sub>2</sub> )	25.8	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM <sub>10</sub>	79.7	µg/m <sup>3</sup>	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter PM <sub>2.5</sub>	51.4	µg/m <sup>3</sup>	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O <sub>3</sub> )	9.6	µg/m <sup>3</sup>	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH <sub>3</sub> )	7.2	µg/m <sup>3</sup>	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	BDL	µg/m <sup>3</sup>	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m <sup>3</sup>	≤ 06	
9	Nickel (Ni)	BDL	ng/m <sup>3</sup>	≤ 20	
10	Carbon Monoxide (CO)	0.35	mg/m <sup>3</sup>	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m <sup>3</sup>	≤ 1.0	IS 5182 Part 12
12	Benzene(C <sub>6</sub> H <sub>6</sub> )	BDL	µg/m <sup>3</sup>	≤ 05	IS 5182 Part 11
<b>Remark-</b> 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/23-24/05/AA/RE/431		Report Issue Date	25/05/2023	
Name and Address of Customer	<b>M/s.MEENAKSHI FERRO INGOT PVT LTD.</b> Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.				
Discipline	Chemical	Date & Time of Sampling	From 10:20 AM of 19/05/2023 to 6:20 PM of 19/05/2023 (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 <sup>0</sup> C		
Wet bulb temperature	27 <sup>0</sup> C	Relative Humidity	36 %		
Sample Volume	SO <sub>2</sub> :30 ml ×1 no. (Plastic Bottle), NO <sub>2</sub> :30 ml×1 no. (Plastic Bottle) PM <sub>10</sub> :1×1no. (Filter Paper), PM <sub>2.5</sub> :1×1no. (Filter Paper)				
Start Date of Analysis	20/05/2023		End Date of Analysis	25/05/2023	
Results					
Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO <sub>2</sub> )	24.1	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO <sub>2</sub> )	26.9	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM <sub>10</sub>	70.3	µg/m <sup>3</sup>	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter PM <sub>2.5</sub>	48.7	µg/m <sup>3</sup>	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O <sub>3</sub> )	9.4	µg/m <sup>3</sup>	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH <sub>3</sub> )	6.9	µg/m <sup>3</sup>	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	0.017	µg/m <sup>3</sup>	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m <sup>3</sup>	≤ 06	
9	Nickel (Ni)	BDL	ng/m <sup>3</sup>	≤ 20	
10	Carbon Monoxide (CO)	0.31	mg/m <sup>3</sup>	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m <sup>3</sup>	≤ 1.0	IS 5182 Part 12
12	Benzene(C <sub>6</sub> H <sub>6</sub> )	BDL	µg/m <sup>3</sup>	≤ 05	IS 5182 Part 11
<b>Remark-</b> 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 (Ambient Air)					
Report No.	NLES/23-24/05/AA/RE/432	Report Issue Date	25/05/2023		
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.				
Discipline	Chemical	Date & Time of Sampling	From 10:30 AM of 19/05/2023 to 6:30 PM of 19/05/2023 (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°C		
Wet bulb temperature	28°C	Relative Humidity	40 %		
Sample Volume	SO <sub>2</sub> :30 ml x1 no. (Plastic Bottle), NO <sub>2</sub> :30 mlx1 no. (Plastic Bottle) PM <sub>10</sub> :1x1no. (Filter Paper), PM <sub>2.5</sub> :1x1no. (Filter Paper)				
Start Date of Analysis	20/05/2023	End Date of Analysis	25/05/2023		
Results					
Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO <sub>2</sub> )	17.4	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO <sub>2</sub> )	22.6	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM <sub>10</sub>	65.7	µg/m <sup>3</sup>	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter PM <sub>2.5</sub>	48.5	µg/m <sup>3</sup>	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O <sub>3</sub> )	9.4	µg/m <sup>3</sup>	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH <sub>3</sub> )	5.2	µg/m <sup>3</sup>	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	BDL	µg/m <sup>3</sup>	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m <sup>3</sup>	≤ 06	
9	Nickel (Ni)	BDL	ng/m <sup>3</sup>	≤ 20	
10	Carbon Monoxide (CO)	0.35	mg/m <sup>3</sup>	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m <sup>3</sup>	≤ 1.0	IS 5182 Part 12
12	Benzene(C <sub>6</sub> H <sub>6</sub> )	BDL	µg/m <sup>3</sup>	≤ 05	IS 5182 Part 11
<b>Remark-</b> 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/433	Report Issue Date	25/05/2023	
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.			
Discipline	Chemical			
Group	Atmospheric Pollution			
Sub Group	Ambient Air			
Sample Name	Ambient Noise			
Date of Sampling	19/05/2023			
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	53.4	Day Time = 75 dB Night Time =70 dB
2	Admin Office	63.9	50.5	
<b>Remark-</b> 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)

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

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### TEST REPORT (Stack Emission)

Report No.	NLES/23-24/05/ST/RE/434	Report Issue Date	25/05/2023
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.		
Discipline	Chemical	Sample Description	Stack Material: MS
Group	Pollution & Environment.		Stack Height: 36 Mtr
Sub Group	Stack Emission		Stack Type: Round
Date of Sampling	19/05/2023	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	20/05/2023	End Date of Analysis	25/05/2023

#### Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (MPCB Consent)	Methods
1	Flue Gas Temperature	49	°C	--	--
2	Differential Pressure	4.7	mm WG		
3	Velocity	8.34	M/s		
4	Total Particulate Matter	49.4	mg/Nm <sup>3</sup>	≤ 150	IS 11255 (Part 1)
5	Sulphur Dioxide (SO <sub>2</sub> )	23.7	mg/Nm <sup>3</sup>	N.S.	IS 11255 (Part 2)
6	Sulphur Dioxide (SO <sub>2</sub> )	1.05	Kg/day	N.S.	IS 11255 (Part 2)
7	Oxides of Nitrogen (Nox)	27.4	mg/Nm <sup>3</sup>	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)

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

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### TEST REPORT (Stack Emission)

Report No.	NLES/23-24/05/ST/RE/435	Report Issue Date	25/05/2023
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.		
Discipline	Chemical	Sample Description	Stack Material: MS
Group	Pollution & Environment.		Stack Height: 18 Mtr
Sub Group	Stack Emission		Stack Type: Round
Date of Sampling	19/05/2023	Sampling Location	Re-Heating 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	20/05/2023	End Date of Analysis	25/05/2023

#### Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (MPCB Consent)	Methods
1	Flue Gas Temperature	47	°C	--	--
2	Differential Pressure	4.2	mm WG		
3	Velocity	7.87	M/s		
4	Total Particulate Matter	53.4	mg/Nm <sup>3</sup>	≤ 150	IS 11255 (Part 1)
5	Sulphur Dioxide (SO <sub>2</sub> )	21.2	mg/Nm <sup>3</sup>	N.S.	IS 11255 (Part 2)
6	Sulphur Dioxide (SO <sub>2</sub> )	1.08	Kg/day	N.S.	IS 11255 (Part 2)
7	Oxides of Nitrogen (Nox)	22.6	mg/Nm <sup>3</sup>	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)

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

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### TEST REPORT

Report No:	NLES/23-24/05/WZ/RE/436	Report Issue Date	25/05/2023
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.		
Sample Name	Workzone Noise	Date of Sampling	19/05/2023
Sampling done by	Neetal Laboratories and Environmental Services Private Limited		
Results			
Sr. No.	Locations	dB(A)	Specifications (The Factories Act 1948, standards)
1.	Funace Shed	83.2	≤90 CPCB Guideline
2.	Casting Area	74.1	
3.	Raw Material Handling Unit	75.9	
<b>Remark-</b> 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/23-24/05/W/RE/437	Report Issue Date	25/05/2023
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.		
Discipline	Chemical	Date of Sample Collection	19/05/2023
Group	Water	Sample Quantity	02 lit Plastic Can
Sub Group	Surface Water	Sampling Procedure	APHA 1060
Sample Description	Matoba Lake	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	20/05/2023	End Date of Analysis	25/05/2023

### Results


Sr. No.	Parameters	Unit(s)	Results	Methods
<b>PHYSICAL PARAMETERS</b>				
1	Odour	-	Agreeable	IS 3025 Part-5
2	pH at 25°C	-	7.12	APHA 4500 H+ A, 23 <sup>rd</sup> Ed. 2017
3	Turbidity	NTU	1.40	IS 3025 Part-10
4	Total Dissolved Solids	mg/l	619	APHA 2540 C, 23 <sup>rd</sup> Ed. 2017
5	Ammonical Nitrogen as N	mg/l	0.56	APHA 4500 NH <sub>3</sub> , 23 <sup>rd</sup> Ed. 2017.
6	Calcium (as Ca)	mg/l	31.2	APHA 3500 Ca B, 23 <sup>rd</sup> Ed. 2017
7	Chloride (as Cl)	mg/l	91.8	APHA 4500 Cl <sup>-</sup> B 23 <sup>rd</sup> Ed. 2017
8	Fluoride (as F)	mg/l	0.62	APHA 4500 F <sup>-</sup> D 23 <sup>rd</sup> 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	19.4	APHA 3500 Mg A, 23 <sup>rd</sup> Ed. 2017
11	Nitrate (as NO <sub>3</sub> )	mg/l	6.02	APHA 4500 NO <sub>3</sub> - B 23 <sup>rd</sup> Ed. 2017
12	Sulphate (as SO <sub>4</sub> )	mg/l	51.2	APHA 4500 SO <sub>4</sub> E, 23 <sup>rd</sup> Ed. 2017
13	Total Alkalinity (as CaCO <sub>3</sub> )	mg/l	267.8	APHA 2320 B, 23 <sup>rd</sup> Ed. 2017
14	Total Hardness (as CaCO <sub>3</sub> )	mg/l	312.5	APHA 2340 B, 23 <sup>rd</sup> 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)

\*\*\*\*\*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/23-24/05/W/RE/438	Report Issue Date	25/05/2023
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.		
Discipline	Chemical	Date of Sample Collection	19/05/2023
Group	Water	Sample Quantity	02 lit Plastic Can
Sub Group	Ground Water	Sampling Procedure	APHA 1060
Sample Description	Bhandgaon 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	20/05/2023	End Date of Analysis	25/05/2023

### Results

Sr. No.	Parameters	Unit(s)	Results	Methods
<b>PHYSICAL PARAMETERS</b>				
1	Odour	-	Agreeable	IS 3025 Part-5
2	pH at 25°C	-	7.25	APHA 4500 H+ A, 23 <sup>rd</sup> Ed. 2017
3	Turbidity	NTU	0.98	IS 3025 Part-10
4	Total Dissolved Solids	mg/l	567	APHA 2540 C, 23 <sup>rd</sup> Ed. 2017
5	Ammonical Nitrogen as N	mg/l	0.34	APHA 4500 NH <sub>3</sub> , 23 <sup>rd</sup> Ed. 2017.
6	Calcium (as Ca)	mg/l	30.9	APHA 3500 Ca B, 23 <sup>rd</sup> Ed. 2017
7	Chloride (as Cl)	mg/l	75.3	APHA 4500 Cl <sup>-</sup> B 23 <sup>rd</sup> Ed. 2017
8	Fluoride (as F)	mg/l	0.41	APHA 4500 F <sup>-</sup> D 23 <sup>rd</sup> 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	13.9	APHA 3500 Mg A, 23 <sup>rd</sup> Ed. 2017
11	Nitrate (as NO <sub>3</sub> )	mg/l	2.72	APHA 4500 NO <sub>3</sub> - B 23 <sup>rd</sup> Ed. 2017
12	Sulphate (as SO <sub>4</sub> )	mg/l	53.5	APHA 4500 SO <sub>4</sub> E, 23 <sup>rd</sup> Ed. 2017
13	Total Alkalinity (as CaCO <sub>3</sub> )	mg/l	185.3	APHA 2320 B, 23 <sup>rd</sup> Ed. 2017
14	Total Hardness (as CaCO <sub>3</sub> )	mg/l	256.4	APHA 2340 B, 23 <sup>rd</sup> Ed. 2017
15	Iron (as Fe)	mg/l	0.39	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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**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)


<b>Report No.</b>	NLES/23-24/06/AA/RE/642	<b>Report Issue Date</b>	13/06/2023		
<b>Name and Address of Customer</b>	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.				
<b>Discipline</b>	Chemical	<b>Date &amp; Time of Sampling</b>	From 10:00 AM of 07/06/2023 to 6:00 PM of 07/06/2023 (8 hrs)		
<b>Group</b>	Atmospheric Pollution	<b>Sampling Procedure</b>	IS 5182 Part 5		
<b>Sub Group</b>	Ambient Air	<b>Sampling done by</b>	Neetal Laboratories and Environmental Services Private Limited		
<b>Sampling Location</b>	Near Main Gate	<b>Dry bulb temperature</b>	27°C		
<b>Wet bulb temperature</b>	23 °C	<b>Relative Humidity</b>	75 %		
<b>Sample Volume</b>	SO <sub>2</sub> :30 ml ×1 no. (Plastic Bottle), NO <sub>2</sub> :30 ml×1 no. (Plastic Bottle) PM <sub>10</sub> :1×1no. (Filter Paper), PM <sub>2.5</sub> :1×1no. (Filter Paper)				
<b>Start Date of Analysis</b>	08/06/2023	<b>End Date of Analysis</b>	13/06/2023		
<b>Results</b>					
Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO <sub>2</sub> )	17.4	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO <sub>2</sub> )	21.5	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM <sub>10</sub>	53.6	µg/m <sup>3</sup>	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter PM <sub>2.5</sub>	31.5	µg/m <sup>3</sup>	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O <sub>3</sub> )	9.7	µg/m <sup>3</sup>	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH <sub>3</sub> )	3.4	µg/m <sup>3</sup>	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	BDL	µg/m <sup>3</sup>	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m <sup>3</sup>	≤ 06	
9	Nickel (Ni)	BDL	ng/m <sup>3</sup>	≤ 20	
10	Carbon Monoxide (CO)	0.22	mg/m <sup>3</sup>	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m <sup>3</sup>	≤ 1.0	IS 5182 Part 12
12	Benzene(C <sub>6</sub> H <sub>6</sub> )	BDL	µg/m <sup>3</sup>	≤ 05	IS 5182 Part 11
<b>Remark-</b> 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 (Ambient Air)					
Report No.	NLES/23-24/06/AA/RE/643	Report Issue Date	13/06/2023		
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.				
Discipline	Chemical	Date & Time of Sampling	From 10:10 AM of 07/06/2023 to 6:10PM of 07/06/2023 (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	27°C		
Wet bulb temperature	22°C	Relative Humidity	76 %		
Sample Volume	SO <sub>2</sub> :30 ml ×1 no. (Plastic Bottle), NO <sub>2</sub> :30 ml×1 no. (Plastic Bottle) PM <sub>10</sub> :1×1no. (Filter Paper), PM <sub>2.5</sub> :1×1no. (Filter Paper)				
Start Date of Analysis	08/06/2023	End Date of Analysis	13/06/2023		
Results					
Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO <sub>2</sub> )	16.7	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO <sub>2</sub> )	21.5	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM <sub>10</sub>	55.6	µg/m <sup>3</sup>	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter PM <sub>2.5</sub>	34.5	µg/m <sup>3</sup>	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O <sub>3</sub> )	9.4	µg/m <sup>3</sup>	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH <sub>3</sub> )	6.1	µg/m <sup>3</sup>	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	0.021	µg/m <sup>3</sup>	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m <sup>3</sup>	≤ 06	
9	Nickel (Ni)	BDL	ng/m <sup>3</sup>	≤ 20	
10	Carbon Monoxide (CO)	0.32	mg/m <sup>3</sup>	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m <sup>3</sup>	≤ 1.0	IS 5182 Part 12
12	Benzene(C <sub>6</sub> H <sub>6</sub> )	BDL	µg/m <sup>3</sup>	≤ 05	IS 5182 Part 11
<b>Remark-</b> 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/644	Report Issue Date	13/06/2023
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.		
Discipline	Chemical	Date & Time of Sampling	From 10:20 AM of 07/06/2023 to 6:20 PM of 07/06/2023 (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	28°C
Wet bulb temperature	23°C	Relative Humidity	79%
Sample Volume	SO <sub>2</sub> :30 ml ×1 no. (Plastic Bottle), NO <sub>2</sub> :30 ml×1 no. (Plastic Bottle) PM <sub>10</sub> :1×1no. (Filter Paper), PM <sub>2.5</sub> :1×1no. (Filter Paper)		
Start Date of Analysis	08/06/2023	End Date of Analysis	13/06/2023

### Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO <sub>2</sub> )	13.7	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO <sub>2</sub> )	21.5	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM <sub>10</sub>	57.6	µg/m <sup>3</sup>	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter PM <sub>2.5</sub>	40.8	µg/m <sup>3</sup>	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O <sub>3</sub> )	9.5	µg/m <sup>3</sup>	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH <sub>3</sub> )	4.1	µg/m <sup>3</sup>	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	BDL	µg/m <sup>3</sup>	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m <sup>3</sup>	≤ 06	
9	Nickel (Ni)	BDL	ng/m <sup>3</sup>	≤ 20	
10	Carbon Monoxide (CO)	0.33	mg/m <sup>3</sup>	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m <sup>3</sup>	≤ 1.0	IS 5182 Part 12
12	Benzene(C <sub>6</sub> H <sub>6</sub> )	BDL	µg/m <sup>3</sup>	≤ 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/23-24/06/NI/RE/645	Report Issue Date	13/06/2023	
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.			
Discipline	Chemical			
Group	Atmospheric Pollution			
Sub Group	Ambient Air			
Sample Name	Ambient Noise			
Date of Sampling	07/06/2023			
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	71.2	55.7	Day Time = 75 dB Night Time =70 dB
2	Admin Office	65.6	53.8	
<b>Remark-</b> 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)

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

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## TEST REPORT (Stack Emission)

Report No.	NLES/23-24/06/ST/RE/646	Report Issue Date	13/06/2023
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.		
Discipline	Chemical	Sample Description	Stack Material: MS
Group	Pollution & Environment.		Stack Height: 36 Mtr
Sub Group	Stack Emission		Stack Type: Round
Date of Sampling	07/06/2023	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	08/06/2023	End Date of Analysis	13/06/2023


### Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (MPCB Consent)	Methods
1	Flue Gas Temperature	51	°C	--	--
2	Differential Pressure	3.9	mm WG		
3	Velocity	7.42	M/s		
4	Total Particulate Matter	47.8	mg/Nm <sup>3</sup>	≤ 150	IS 11255 (Part 1)
5	Sulphur Dioxide (SO <sub>2</sub> )	26.9	mg/Nm <sup>3</sup>	N.S.	IS 11255 (Part 2)
6	Sulphur Dioxide (SO <sub>2</sub> )	0.75	Kg/day	N.S.	IS 11255 (Part 2)
7	Oxides of Nitrogen (Nox)	22.4	mg/Nm <sup>3</sup>	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. Aphishek Tope)  
 (Quality Manager)

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

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### TEST REPORT (Stack Emission)

Report No.	NLES/23-24/06/ST/RE/647	Report Issue Date	13/06/2023
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.		
Discipline	Chemical	Sample Description	Stack Material: MS
Group	Pollution & Environment.		Stack Height: 18 Mtr
Sub Group	Stack Emission		Stack Type: Round
Date of Sampling	07/06/2023	Sampling Location	Re-Heating 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	08/06/2023	End Date of Analysis	13/06/2023

### Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (MPCB Consent)	Methods
1	Flue Gas Temperature	48	°C	--	--
2	Differential Pressure	4.7	mm WG		
3	Velocity	8.32	M/s		
4	Total Particulate Matter	53.4	mg/Nm <sup>3</sup>	≤ 150	IS 11255 (Part 1)
5	Sulphur Dioxide (SO <sub>2</sub> )	23.9	mg/Nm <sup>3</sup>	N.S.	IS 11255 (Part 2)
6	Sulphur Dioxide (SO <sub>2</sub> )	1.12	Kg/day	N.S.	IS 11255 (Part 2)
7	Oxides of Nitrogen (Nox)	22.5	mg/Nm <sup>3</sup>	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

<b>Report No:</b>	NLES/23-24/06/WZ/RE/648	<b>Report Issue Date</b>	13/06/2023	
<b>Name and Address of Customer</b>	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.			
<b>Sample Name</b>	Workzone Noise	<b>Date of Sampling</b>	07/06/2023	
<b>Sampling done by</b>	Neetal Laboratories and Environmental Services Private Limited			
Results				
Sr. No.	Locations	dB(A)	Specifications (The Factories Act 1948, standards)	Method
1.	Funace Shed	81.4	≤90	CPCB Guideline
2.	Casting Area	73.9		
3.	Raw Material Handling Unit	75.3		
<b>Remark-</b>	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/23-24/06/W/RE/649	Report Issue Date	13/06/2023
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.		
Discipline	Chemical	Date of Sample Collection	07/06/2023
Group	Water	Sample Quantity	02 lit Plastic Can
Sub Group	Surface Water	Sampling Procedure	APHA 1060
Sample Description	Matoba Lake	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	08/06/2023	End Date of Analysis	13/06/2023

#### Results

Sr. No.	Parameters	Unit(s)	Results	Methods
<b>PHYSICAL PARAMETERS</b>				
1	Odour	-	Agreeable	IS 3025 Part-5
2	pH at 25°C	-	7.23	APHA 4500 H+ A, 23 <sup>rd</sup> Ed. 2017
3	Turbidity	NTU	0.51	IS 3025 Part-10
4	Total Dissolved Solids	mg/l	629	APHA 2540 C, 23 <sup>rd</sup> Ed. 2017
5	Ammonical Nitrogen as N	mg/l	0.35	APHA 4500 NH <sub>3</sub> , 23 <sup>rd</sup> Ed. 2017.
6	Calcium (as Ca)	mg/l	36.9	APHA 3500 Ca B, 23 <sup>rd</sup> Ed. 2017
7	Chloride (as Cl)	mg/l	74.3	APHA 4500 Cl <sup>-</sup> B 23 <sup>rd</sup> Ed. 2017
8	Fluoride (as F)	mg/l	0.62	APHA 4500 F <sup>-</sup> D 23 <sup>rd</sup> 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	23.5	APHA 3500 Mg A, 23 <sup>rd</sup> Ed. 2017
11	Nitrate (as NO <sub>3</sub> )	mg/l	5.07	APHA 4500 NO <sub>3</sub> - B 23 <sup>rd</sup> Ed. 2017
12	Sulphate (as SO <sub>4</sub> )	mg/l	56.8	APHA 4500 SO <sub>4</sub> E, 23 <sup>rd</sup> Ed. 2017
13	Total Alkalinity (as CaCO <sub>3</sub> )	mg/l	212.3	APHA 2320 B, 23 <sup>rd</sup> Ed. 2017
14	Total Hardness (as CaCO <sub>3</sub> )	mg/l	361.4	APHA 2340 B, 23 <sup>rd</sup> Ed. 2017
15	Iron (as Fe)	mg/l	0.62	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/23-24/06/W/RE/650	Report Issue Date	13/06/2023
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.		
Discipline	Chemical	Date of Sample Collection	07/06/2023
Group	Water	Sample Quantity	02 lit Plastic Can
Sub Group	Ground Water	Sampling Procedure	APHA 1060
Sample Description	Bhandgaon 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	08/06/2023	End Date of Analysis	13/06/2023

### Results

Sr. No.	Parameters	Unit(s)	Results	Methods
<b>PHYSICAL PARAMETERS</b>				
1	Odour	-	Agreeable	IS 3025 Part-5
2	pH at 25°C	-	6.89	APHA 4500 H+ A, 23 <sup>rd</sup> Ed. 2017
3	Turbidity	NTU	0.56	IS 3025 Part-10
4	Total Dissolved Solids	mg/l	479	APHA 2540 C, 23 <sup>rd</sup> Ed. 2017
5	Ammonical Nitrogen as N	mg/l	0.35	APHA 4500 NH <sub>3</sub> , 23 <sup>rd</sup> Ed. 2017.
6	Calcium (as Ca)	mg/l	33.9	APHA 3500 Ca B, 23 <sup>rd</sup> Ed. 2017
7	Chloride (as Cl)	mg/l	75.8	APHA 4500 Cl <sup>-</sup> B 23 <sup>rd</sup> Ed. 2017
8	Fluoride (as F)	mg/l	0.47	APHA 4500 F <sup>-</sup> D 23 <sup>rd</sup> 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 <sup>rd</sup> Ed. 2017
11	Nitrate (as NO <sub>3</sub> )	mg/l	2.64	APHA 4500 NO <sub>3</sub> - B 23 <sup>rd</sup> Ed. 2017
12	Sulphate (as SO <sub>4</sub> )	mg/l	46.9	APHA 4500 SO <sub>4</sub> E, 23 <sup>rd</sup> Ed. 2017
13	Total Alkalinity (as CaCO <sub>3</sub> )	mg/l	175.3	APHA 2320 B, 23 <sup>rd</sup> Ed. 2017
14	Total Hardness (as CaCO <sub>3</sub> )	mg/l	261.4	APHA 2340 B, 23 <sup>rd</sup> Ed. 2017
15	Iron (as Fe)	mg/l	0.21	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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**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/23-24/07/AA/RE/412		Report Issue Date	21/07/2023	
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.				
Discipline	Chemical	Date & Time of Sampling	From 10:00 AM of 14/07/2023 to 6:00 PM of 14/07/2023 (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	25 <sup>o</sup> C		
Wet bulb temperature	18 <sup>o</sup> C	Relative Humidity	87 %		
Sample Volume	SO <sub>2</sub> :30 ml x1 no. (Plastic Bottle), NO <sub>2</sub> :30 mlx1 no. (Plastic Bottle) PM <sub>10</sub> :1x1no. (Filter Paper), PM <sub>2.5</sub> :1x1no. (Filter Paper)				
Start Date of Analysis	15/07/2023	End Date of Analysis	21/07/2023		
Results					
Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO <sub>2</sub> )	15.3	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO <sub>2</sub> )	20.6	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM <sub>10</sub>	57.8	µg/m <sup>3</sup>	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter PM <sub>2.5</sub>	26.9	µg/m <sup>3</sup>	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O <sub>3</sub> )	9.7	µg/m <sup>3</sup>	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH <sub>3</sub> )	4.9	µg/m <sup>3</sup>	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	BDL	µg/m <sup>3</sup>	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m <sup>3</sup>	≤ 06	
9	Nickel (Ni)	BDL	ng/m <sup>3</sup>	≤ 20	
10	Carbon Monoxide (CO)	0.24	mg/m <sup>3</sup>	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m <sup>3</sup>	≤ 1.0	IS 5182 Part 12
12	Benzene(C <sub>6</sub> H <sub>6</sub> )	BDL	µg/m <sup>3</sup>	≤ 05	IS 5182 Part 11
<b>Remark-</b> 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/23-24/07/AA/RE/413	Report Issue Date	21/07/2023
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.		
Discipline	Chemical	Date & Time of Sampling	From 10:10 AM of 14/07/2023 to 6:10 PM of 14/07/2023 (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	25 °C
Wet bulb temperature	22°C	Relative Humidity	85 %
Sample Volume	SO <sub>2</sub> :30 ml ×1 no. (Plastic Bottle), NO <sub>2</sub> :30 ml×1 no. (Plastic Bottle) PM <sub>10</sub> :1×1no. (Filter Paper), PM <sub>2.5</sub> :1×1no. (Filter Paper)		
Start Date of Analysis	15/07/2023	End Date of Analysis	21/07/2023

### Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO <sub>2</sub> )	13.6	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO <sub>2</sub> )	15.2	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM <sub>10</sub>	45.3	µg/m <sup>3</sup>	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter PM <sub>2.5</sub>	22.4	µg/m <sup>3</sup>	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O <sub>3</sub> )	9.6	µg/m <sup>3</sup>	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH <sub>3</sub> )	3.5	µg/m <sup>3</sup>	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	BDL	µg/m <sup>3</sup>	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m <sup>3</sup>	≤ 06	
9	Nickel (Ni)	BDL	ng/m <sup>3</sup>	≤ 20	
10	Carbon Monoxide (CO)	0.25	mg/m <sup>3</sup>	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m <sup>3</sup>	≤ 1.0	IS 5182 Part 12
12	Benzene(C <sub>6</sub> H <sub>6</sub> )	BDL	µg/m <sup>3</sup>	≤ 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 (Ambient Air)					
Report No.	NLES/23-24/07/AA/RE/414	Report Issue Date	21/07/2023		
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.				
Discipline	Chemical	Date & Time of Sampling	From 10:20 AM of 14/07/2023 to 6:20 PM of 14/07/2023 (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 <sup>o</sup> C		
Wet bulb temperature	20 <sup>o</sup> C	Relative Humidity	83 %		
Sample Volume	SO <sub>2</sub> :30 ml x1 no. (Plastic Bottle), NO <sub>2</sub> :30 mlx1 no. (Plastic Bottle) PM <sub>10</sub> :1x1no. (Filter Paper), PM <sub>2.5</sub> :1x1no. (Filter Paper)				
Start Date of Analysis	15/07/2023	End Date of Analysis	21/07/2023		
Results					
Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO <sub>2</sub> )	15.3	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO <sub>2</sub> )	17.7	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM <sub>10</sub>	47.8	µg/m <sup>3</sup>	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter PM <sub>2.5</sub>	23.9	µg/m <sup>3</sup>	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O <sub>3</sub> )	9.6	µg/m <sup>3</sup>	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH <sub>3</sub> )	3.7	µg/m <sup>3</sup>	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	BDL	µg/m <sup>3</sup>	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m <sup>3</sup>	≤ 06	
9	Nickel (Ni)	BDL	ng/m <sup>3</sup>	≤ 20	
10	Carbon Monoxide (CO)	0.31	mg/m <sup>3</sup>	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m <sup>3</sup>	≤ 1.0	IS 5182 Part 12
12	Benzene(C <sub>6</sub> H <sub>6</sub> )	BDL	µg/m <sup>3</sup>	≤ 05	IS 5182 Part 11
<b>Remark-</b> 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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**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				
Report No.	NLES/23-24/07/NI/RE/415	Report Issue Date	21/07/2023	
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.			
Discipline	Chemical			
Group	Atmospheric Pollution			
Sub Group	Ambient Air			
Sample Name	Ambient Noise			
Date of Sampling	14/07/2023			
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	68.7	55.9	Day Time = 75 dB Night Time =70 dB
2	Admin Office	63.9	45.2	
<b>Remark-</b> 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)

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

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## TEST REPORT (Stack Emission)

Report No.	NLES/23-24/07/ST/RE/416	Report Issue Date	21/07/2023
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.		
Discipline	Chemical	Sample Description	Stack Material: MS
Group	Pollution & Environment.		Stack Height: 36 Mtr
Sub Group	Stack Emission		Stack Type: Round
Date of Sampling	14/07/2023	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	15/07/2023	End Date of Analysis	21/07/2023


### Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (MPCB Consent)	Methods
1	Flue Gas Temperature	54	°C	--	--
2	Differential Pressure	3.1	mm WG		
3	Velocity	7.04	M/s		
4	Total Particulate Matter	43.5	mg/Nm <sup>3</sup>	≤ 150	IS 11255 (Part 1)
5	Sulphur Dioxide (SO <sub>2</sub> )	22.4	mg/Nm <sup>3</sup>	N.S.	IS 11255 (Part 2)
6	Sulphur Dioxide (SO <sub>2</sub> )	0.97	Kg/day	N.S.	IS 11255 (Part 2)
7	Oxides of Nitrogen (Nox)	25.5	mg/Nm <sup>3</sup>	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)

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

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TEST REPORT (Stack Emission)					
Report No.	NLES/23-24/07/ST/RE/417	Report Issue Date	21/07/2023		
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.				
Discipline	Chemical	Sample Description	Stack Material: MS		
Group	Pollution & Environment.		Stack Height: 18 Mtr		
Sub Group	Stack Emission		Stack Type: Round		
Date of Sampling	14/07/2023	Sampling Location	Re-Heating 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	15/07/2023	End Date of Analysis	21/07/2023		
Results					
Sr. No.	Parameters	Results	Unit(s)	Specifications (MPCB Consent)	Methods
1	Flue Gas Temperature	49	°C	--	--
2	Differential Pressure	2.6	mm WG		
3	Velocity	7.89	M/s		
4	Total Particulate Matter	55.2	mg/Nm <sup>3</sup>	≤ 150	IS 11255 (Part 1)
5	Sulphur Dioxide (SO <sub>2</sub> )	21.9	mg/Nm <sup>3</sup>	N.S.	IS 11255 (Part 2)
6	Sulphur Dioxide (SO <sub>2</sub> )	1.01	Kg/day	N.S.	IS 11255 (Part 2)
7	Oxides of Nitrogen (Nox)	24.5	mg/Nm <sup>3</sup>	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

<b>Report No:</b>	NLES/23-24/07/WZ/RE/418	<b>Report Issue Date</b>	21/07/2023	
<b>Name and Address of Customer</b>	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.			
<b>Sample Name</b>	Workzone Noise	<b>Date of Sampling</b>	14/07/2023	
<b>Sampling done by</b>	Neetal Laboratories and Environmental Services Private Limited			
Results				
Sr. No.	Locations	dB(A)	Specifications (The Factories Act 1948, standards)	Method
1.	Funace Shed	81.6	≤90	CPCB Guideline
2.	Casting Area	75.3		
3.	Raw Material Handling Unit	70.8		
<b>Remark-</b>	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/23-24/07/W/RE/419	Report Issue Date	21/07/2023
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.		
Discipline	Chemical	Date of Sample Collection	14/07/2023
Group	Water	Sample Quantity	02 lit Plastic Can
Sub Group	Surface Water	Sampling Procedure	APHA 1060
Sample Description	Matoba Lake	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	15/07/2023	End Date of Analysis	21/07/2023

### Results

Sr. No.	Parameters	Unit(s)	Results	Methods
<b>PHYSICAL PARAMETERS</b>				
1	Odour	-	Agreeable	IS 3025 Part-5
2	pH at 25°C	-	7.28	APHA 4500 H+ A, 23 <sup>rd</sup> Ed. 2017
3	Turbidity	NTU	0.56	IS 3025 Part-10
4	Total Dissolved Solids	mg/l	742	APHA 2540 C, 23 <sup>rd</sup> Ed. 2017
5	Ammonical Nitrogen as N	mg/l	0.39	APHA 4500 NH3, 23 <sup>rd</sup> Ed. 2017.
6	Calcium (as Ca)	mg/l	46.7	APHA 3500 Ca B, 23 <sup>rd</sup> Ed. 2017
7	Chloride (as Cl)	mg/l	91.2	APHA 4500 Cl <sup>-</sup> B 23 <sup>rd</sup> Ed. 2017
8	Fluoride (as F)	mg/l	0.59	APHA 4500 F <sup>-</sup> D 23 <sup>rd</sup> 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	25.4	APHA 3500 Mg A, 23 <sup>rd</sup> Ed. 2017
11	Nitrate (as NO <sub>3</sub> )	mg/l	5.26	APHA 4500 NO3- B 23 <sup>rd</sup> Ed. 2017
12	Sulphate (as SO <sub>4</sub> )	mg/l	47.8	APHA 4500 SO4 E, 23 <sup>rd</sup> Ed. 2017
13	Total Alkalinity (as CaCO <sub>3</sub> )	mg/l	224.5	APHA 2320 B, 23 <sup>rd</sup> Ed. 2017
14	Total Hardness (as CaCO <sub>3</sub> )	mg/l	323.6	APHA 2340 B, 23 <sup>rd</sup> 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

*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/23-24/07/W/RE/420	Report Issue Date	21/07/2023
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.		
Discipline	Chemical	Date of Sample Collection	14/07/2023
Group	Water	Sample Quantity	02 lit Plastic Can
Sub Group	Ground Water	Sampling Procedure	APHA 1060
Sample Description	Bhandgaon 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	15/07/2023	End Date of Analysis	21/07/2023

#### Results


Sr. No.	Parameters	Unit(s)	Results	Methods
<b>PHYSICAL PARAMETERS</b>				
1	Odour	-	Agreeable	IS 3025 Part-5
2	pH at 25°C	-	6.87	APHA 4500 H+ A, 23 <sup>rd</sup> Ed. 2017
3	Turbidity	NTU	0.39	IS 3025 Part-10
4	Total Dissolved Solids	mg/l	546	APHA 2540 C, 23 <sup>rd</sup> Ed. 2017
5	Ammonical Nitrogen as N	mg/l	0.37	APHA 4500 NH3, 23 <sup>rd</sup> Ed. 2017.
6	Calcium (as Ca)	mg/l	36.9	APHA 3500 Ca B, 23 <sup>rd</sup> Ed. 2017
7	Chloride (as Cl)	mg/l	71.2	APHA 4500 Cl <sup>-</sup> B 23 <sup>rd</sup> Ed. 2017
8	Fluoride (as F)	mg/l	0.36	APHA 4500 F- D 23 <sup>rd</sup> 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	22.7	APHA 3500 Mg A, 23 <sup>rd</sup> Ed. 2017
11	Nitrate (as NO <sub>3</sub> )	mg/l	2.13	APHA 4500 NO3- B 23 <sup>rd</sup> Ed. 2017
12	Sulphate (as SO <sub>4</sub> )	mg/l	51.5	APHA 4500 SO4 E, 23 <sup>rd</sup> Ed. 2017
13	Total Alkalinity (as CaCO <sub>3</sub> )	mg/l	161.2	APHA 2320 B, 23 <sup>rd</sup> Ed. 2017
14	Total Hardness (as CaCO <sub>3</sub> )	mg/l	252.6	APHA 2340 B, 23 <sup>rd</sup> 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)

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

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O TEST REPORT (Ambient Air)					
Report No.	NLES/23-24/08/AA/RE/96		Report Issue Date	19/08/2023	
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.				
Discipline	Chemical	Date & Time of Sampling	From 10:10 AM of 12/08/2023 to 6:10 PM of 12/08/2023 (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 <sup>o</sup> C		
Wet bulb temperature	22 <sup>o</sup> C	Relative Humidity	85 %		
Sample Volume	SO <sub>2</sub> :30 ml ×1 no. (Plastic Bottle), NO <sub>2</sub> :30 ml×1 no. (Plastic Bottle) PM <sub>10</sub> :1×1no. (Filter Paper), PM <sub>2.5</sub> :1×1no. (Filter Paper)				
Start Date of Analysis	14/08/2023	End Date of Analysis	19/08/2023		
Results					
Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO <sub>2</sub> )	14.2	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO <sub>2</sub> )	18.9	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM <sub>10</sub>	44.5	µg/m <sup>3</sup>	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter PM <sub>2.5</sub>	21.6	µg/m <sup>3</sup>	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O <sub>3</sub> )	9.5	µg/m <sup>3</sup>	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH <sub>3</sub> )	4.2	µg/m <sup>3</sup>	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	BDL	µg/m <sup>3</sup>	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m <sup>3</sup>	≤ 06	
9	Nickel (Ni)	BDL	ng/m <sup>3</sup>	≤ 20	
10	Carbon Monoxide (CO)	0.25	mg/m <sup>3</sup>	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m <sup>3</sup>	≤ 1.0	IS 5182 Part 12
12	Benzene(C <sub>6</sub> H <sub>6</sub> )	BDL	µg/m <sup>3</sup>	≤ 05	IS 5182 Part 11
<b>Remark-</b> 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/97	Report Issue Date	19/08/2023		
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.				
Discipline	Chemical	Date & Time of Sampling	From 10:20 AM of 12/08/2023 to 6:20 PM of 12/08/2023 (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	81 %		
Sample Volume	SO <sub>2</sub> :30 ml ×1 no. (Plastic Bottle), NO <sub>2</sub> :30 ml×1 no. (Plastic Bottle) PM <sub>10</sub> :1×1no. (Filter Paper), PM <sub>2.5</sub> :1×1no. (Filter Paper)				
Start Date of Analysis	14/08/2023	End Date of Analysis	19/08/2023		
Results					
Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO <sub>2</sub> )	15.4	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO <sub>2</sub> )	22.6	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM <sub>10</sub>	45.8	µg/m <sup>3</sup>	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter PM <sub>2.5</sub>	21.6	µg/m <sup>3</sup>	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O <sub>3</sub> )	9.8	µg/m <sup>3</sup>	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH <sub>3</sub> )	4.9	µg/m <sup>3</sup>	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	BDL	µg/m <sup>3</sup>	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m <sup>3</sup>	≤ 06	
9	Nickel (Ni)	BDL	ng/m <sup>3</sup>	≤ 20	
10	Carbon Monoxide (CO)	0.34	mg/m <sup>3</sup>	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m <sup>3</sup>	≤ 1.0	IS 5182 Part 12
12	Benzene(C <sub>6</sub> H <sub>6</sub> )	BDL	µg/m <sup>3</sup>	≤ 05	IS 5182 Part 11
<b>Remark-</b> 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 (Ambient Air)

Report No.	NLES/23-24/08/AA/RE/98	Report Issue Date	19/08/2023
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.		
Discipline	Chemical	Date & Time of Sampling	From 10:30 AM of 12/08/2023 to 6:30 PM of 12/08/2023 (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 <sub>2</sub> :30 ml x1 no. (Plastic Bottle), NO <sub>2</sub> :30 mlx1 no. (Plastic Bottle) PM <sub>10</sub> :1x1no. (Filter Paper), PM <sub>2.5</sub> :1x1no. (Filter Paper)		
Start Date of Analysis	14/08/2023	End Date of Analysis	19/08/2023

### Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO <sub>2</sub> )	16.1	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO <sub>2</sub> )	17.2	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM <sub>10</sub>	47.8	µg/m <sup>3</sup>	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter PM <sub>2.5</sub>	24.5	µg/m <sup>3</sup>	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O <sub>3</sub> )	9.6	µg/m <sup>3</sup>	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH <sub>3</sub> )	3.7	µg/m <sup>3</sup>	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	BDL	µg/m <sup>3</sup>	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m <sup>3</sup>	≤ 06	
9	Nickel (Ni)	BDL	ng/m <sup>3</sup>	≤ 20	
10	Carbon Monoxide (CO)	0.25	mg/m <sup>3</sup>	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m <sup>3</sup>	≤ 1.0	IS 5182 Part 12
12	Benzene(C <sub>6</sub> H <sub>6</sub> )	BDL	µg/m <sup>3</sup>	≤ 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/23-24/08/NI/RE/99	Report Issue Date	19/08/2023	
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.			
Discipline	Chemical			
Group	Atmospheric Pollution			
Sub Group	Ambient Air			
Sample Name	Ambient Noise			
Date of Sampling	12/08/2023			
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	67.4	53.2	Day Time = 75 dB Night Time =70 dB
2	Admin Office	56.9	50.7	
<b>Remark-</b> 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)

\*\*\*\*\*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 (Stack Emission)

Report No.	NLES/23-24/08/ST/RE/100	Report Issue Date	19/08/2023
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.		
Discipline	Chemical	Sample Description	Stack Material: MS
Group	Pollution & Environment.		Stack Height: 36 Mtr
Sub Group	Stack Emission		Stack Type: Round
Date of Sampling	12/08/2023	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	14/08/2023	End Date of Analysis	19/08/2023


### Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (MPCB Consent)	Methods
1	Flue Gas Temperature	48	°C	--	--
2	Differential Pressure	4.1	mm WG		
3	Velocity	8.04	M/s		
4	Total Particulate Matter	53.2	mg/Nm <sup>3</sup>	≤ 150	IS 11255 (Part 1)
5	Sulphur Dioxide (SO <sub>2</sub> )	24.6	mg/Nm <sup>3</sup>	N.S.	IS 11255 (Part 2)
6	Sulphur Dioxide (SO <sub>2</sub> )	1.08	Kg/day	N.S.	IS 11255 (Part 2)
7	Oxides of Nitrogen (Nox)	27.4	mg/Nm <sup>3</sup>	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)

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

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## TEST REPORT (Stack Emission)

Report No.	NLES/23-24/08/ST/RE/101	Report Issue Date	19/08/2023
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.		
Discipline	Chemical	Sample Description	Stack Material: MS
Group	Pollution & Environment.		Stack Height: 18 Mtr
Sub Group	Stack Emission		Stack Type: Round
Date of Sampling	12/08/2023	Sampling Location	Re-Heating 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	14/08/2023	End Date of Analysis	19/08/2023

### Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (MPCB Consent)	Methods
1	Flue Gas Temperature	46	°C	--	--
2	Differential Pressure	4.9	mm WG		
3	Velocity	8.51	M/s		
4	Total Particulate Matter	53.9	mg/Nm3	≤ 150	IS 11255 (Part 1)
5	Sulphur Dioxide (SO <sub>2</sub> )	22.4	mg/Nm3	N.S.	IS 11255 (Part 2)
6	Sulphur Dioxide (SO <sub>2</sub> )	1.12	Kg/day	N.S.	IS 11255 (Part 2)
7	Oxides of Nitrogen (Nox)	20.4	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/23-24/08/WZ/RE/102	Report Issue Date	19/08/2023	
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.			
Sample Name	Workzone Noise	Date of Sampling	12/08/2023	
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	76.4	≤90	CPCB Guideline
2.	Casting Area	71.2		
3.	Raw Material Handling Unit	70.9		
<b>Remark-</b> 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/23-24/08/W/RE/103	Report Issue Date	19/08/2023
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.		
Discipline	Chemical	Date of Sample Collection	12/08/2023
Group	Water	Sample Quantity	02 lit Plastic Can
Sub Group	Surface Water	Sampling Procedure	APHA 1060
Sample Description	Matoba Lake	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	14/08/2023	End Date of Analysis	19/08/2023

#### Results

Sr. No.	Parameters	Unit(s)	Results	Methods
<b>PHYSICAL PARAMETERS</b>				
1	Odour	-	Agreeable	IS 3025 Part-5
2	pH at 25°C	-	7.69	APHA 4500 H+ A, 23 <sup>rd</sup> Ed. 2017
3	Turbidity	NTU	0.43	IS 3025 Part-10
4	Total Dissolved Solids	mg/l	512	APHA 2540 C, 23 <sup>rd</sup> Ed. 2017
5	Ammonical Nitrogen as N	mg/l	0.29	APHA 4500 NH <sub>3</sub> , 23 <sup>rd</sup> Ed. 2017.
6	Calcium (as Ca)	mg/l	31.4	APHA 3500 Ca B, 23 <sup>rd</sup> Ed. 2017
7	Chloride (as Cl)	mg/l	79.8	APHA 4500 Cl <sup>-</sup> B 23 <sup>rd</sup> Ed. 2017
8	Fluoride (as F)	mg/l	0.56	APHA 4500 F <sup>-</sup> D 23 <sup>rd</sup> 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	25.4	APHA 3500 Mg A, 23 <sup>rd</sup> Ed. 2017
11	Nitrate (as NO <sub>3</sub> )	mg/l	4.72	APHA 4500 NO <sub>3</sub> - B 23 <sup>rd</sup> Ed. 2017
12	Sulphate (as SO <sub>4</sub> )	mg/l	45.8	APHA 4500 SO <sub>4</sub> E, 23 <sup>rd</sup> Ed. 2017
13	Total Alkalinity (as CaCO <sub>3</sub> )	mg/l	174.6	APHA 2320 B, 23 <sup>rd</sup> Ed. 2017
14	Total Hardness (as CaCO <sub>3</sub> )	mg/l	307.5	APHA 2340 B, 23 <sup>rd</sup> Ed. 2017
15	Iron (as Fe)	mg/l	0.49	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)

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## TEST REPORT

Report No.	NLES/23-24/08/W/RE/104	Report Issue Date	19/08/2023
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.		
Discipline	Chemical	Date of Sample Collection	12/08/2023
Group	Water	Sample Quantity	02 lit Plastic Can
Sub Group	Ground Water	Sampling Procedure	APHA 1060
Sample Description	Bhandgaon 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	14/08/2023	End Date of Analysis	19/08/2023

### Results

Sr. No.	Parameters	Unit(s)	Results	Methods
<b>PHYSICAL PARAMETERS</b>				
1	Odour	-	Agreeable	IS 3025 Part-5
2	pH at 25°C	-	6.72	APHA 4500 H+ A, 23 <sup>rd</sup> Ed. 2017
3	Turbidity	NTU	0.41	IS 3025 Part-10
4	Total Dissolved Solids	mg/l	464	APHA 2540 C, 23 <sup>rd</sup> Ed. 2017
5	Ammonical Nitrogen as N	mg/l	0.39	APHA 4500 NH <sub>3</sub> , 23 <sup>rd</sup> Ed. 2017.
6	Calcium (as Ca)	mg/l	20.7	APHA 3500 Ca B, 23 <sup>rd</sup> Ed. 2017
7	Chloride (as Cl)	mg/l	72.4	APHA 4500 Cl <sup>-</sup> B 23 <sup>rd</sup> Ed. 2017
8	Fluoride (as F)	mg/l	0.43	APHA 4500 F <sup>-</sup> D 23 <sup>rd</sup> 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	21.6	APHA 3500 Mg A, 23 <sup>rd</sup> Ed. 2017
11	Nitrate (as NO <sub>3</sub> )	mg/l	2.37	APHA 4500 NO <sub>3</sub> - B 23 <sup>rd</sup> Ed. 2017
12	Sulphate (as SO <sub>4</sub> )	mg/l	48.9	APHA 4500 SO <sub>4</sub> E, 23 <sup>rd</sup> Ed. 2017
13	Total Alkalinity (as CaCO <sub>3</sub> )	mg/l	172.4	APHA 2320 B, 23 <sup>rd</sup> Ed. 2017
14	Total Hardness (as CaCO <sub>3</sub> )	mg/l	261.5	APHA 2340 B, 23 <sup>rd</sup> Ed. 2017
15	Iron (as Fe)	mg/l	0.21	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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**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/23-24/09/AA/RE/119	Report Issue Date	21/09/2023		
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.				
Discipline	Chemical	Date & Time of Sampling	From 10:00 AM of 15/09/2023 to 6:00 PM of 15/09/2023 (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 <sup>o</sup> C		
Wet bulb temperature	21 <sup>o</sup> C	Relative Humidity	79 %		
Sample Volume	SO <sub>2</sub> :30 ml ×1 no. (Plastic Bottle), NO <sub>2</sub> :30 ml×1 no. (Plastic Bottle) PM <sub>10</sub> :1×1no. (Filter Paper), PM <sub>2.5</sub> :1×1no. (Filter Paper)				
Start Date of Analysis	16/09/2023	End Date of Analysis	21/09/2023		
Results					
Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO <sub>2</sub> )	16.7	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO <sub>2</sub> )	21.5	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM <sub>10</sub>	45.8	µg/m <sup>3</sup>	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter PM <sub>2.5</sub>	23.9	µg/m <sup>3</sup>	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O <sub>3</sub> )	9.7	µg/m <sup>3</sup>	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH <sub>3</sub> )	4.9	µg/m <sup>3</sup>	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	BDL	µg/m <sup>3</sup>	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m <sup>3</sup>	≤ 06	
9	Nickel (Ni)	BDL	ng/m <sup>3</sup>	≤ 20	
10	Carbon Monoxide (CO)	0.25	mg/m <sup>3</sup>	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m <sup>3</sup>	≤ 1.0	IS 5182 Part 12
12	Benzene(C <sub>6</sub> H <sub>6</sub> )	BDL	µg/m <sup>3</sup>	≤ 05	IS 5182 Part 11


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

Reviewed By

  
 (Mr. Kalyani Gore)  
 (Technical Manager)



Authorized Signatory

  
 (Mr. Aphishek Tope)  
 (Quality Manager)

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

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## TEST REPORT (Ambient Air)

Report No.	NLES/23-24/09/AA/RE/120	Report Issue Date	21/09/2023
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.		
Discipline	Chemical	Date & Time of Sampling	From 10:10 AM of 15/09/2023 to 6:10 PM of 15/09/2023 (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	27°C
Wet bulb temperature	21°C	Relative Humidity	80 %
Sample Volume	SO <sub>2</sub> :30 ml ×1 no. (Plastic Bottle), NO <sub>2</sub> :30 ml×1 no. (Plastic Bottle) PM <sub>10</sub> :1×1no. (Filter Paper), PM <sub>2.5</sub> :1×1no. (Filter Paper)		
Start Date of Analysis	16/09/2023	End Date of Analysis	21/09/2023

### Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO <sub>2</sub> )	15.6	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO <sub>2</sub> )	24.8	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM <sub>10</sub>	46.9	µg/m <sup>3</sup>	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter PM <sub>2.5</sub>	27.2	µg/m <sup>3</sup>	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O <sub>3</sub> )	9.4	µg/m <sup>3</sup>	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH <sub>3</sub> )	6.3	µg/m <sup>3</sup>	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	BDL	µg/m <sup>3</sup>	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m <sup>3</sup>	≤ 06	
9	Nickel (Ni)	BDL	ng/m <sup>3</sup>	≤ 20	
10	Carbon Monoxide (CO)	0.28	mg/m <sup>3</sup>	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m <sup>3</sup>	≤ 1.0	IS 5182 Part 12
12	Benzene(C <sub>6</sub> H <sub>6</sub> )	BDL	µg/m <sup>3</sup>	≤ 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 (Ambient Air)

Report No.	NLES/23-24/09/AA/RE/121	Report Issue Date	21/09/2023		
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.				
Discipline	Chemical	Date & Time of Sampling	From 10:20 AM of 15/09/2023 to 6:20 PM of 15/09/2023 (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	84 %		
Sample Volume	SO <sub>2</sub> :30 ml ×1 no. (Plastic Bottle), NO <sub>2</sub> :30 ml×1 no. (Plastic Bottle) PM <sub>10</sub> :1×1no. (Filter Paper), PM <sub>2.5</sub> :1×1no. (Filter Paper)				
Start Date of Analysis	16/09/2023	End Date of Analysis	21/09/2023		
Results					
Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO <sub>2</sub> )	15.9	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO <sub>2</sub> )	19.4	µg/m <sup>3</sup>	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM <sub>10</sub>	47.8	µg/m <sup>3</sup>	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter PM <sub>2.5</sub>	26.9	µg/m <sup>3</sup>	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O <sub>3</sub> )	9.7	µg/m <sup>3</sup>	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH <sub>3</sub> )	4.1	µg/m <sup>3</sup>	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	BDL	µg/m <sup>3</sup>	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m <sup>3</sup>	≤ 06	
9	Nickel (Ni)	BDL	ng/m <sup>3</sup>	≤ 20	
10	Carbon Monoxide (CO)	0.32	mg/m <sup>3</sup>	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m <sup>3</sup>	≤ 1.0	IS 5182 Part 12
12	Benzene(C <sub>6</sub> H <sub>6</sub> )	BDL	µg/m <sup>3</sup>	≤ 05	IS 5182 Part 11
<b>Remark-</b> 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/122	Report Issue Date	21/09/2023	
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.			
Discipline	Chemical			
Group	Atmospheric Pollution			
Sub Group	Ambient Air			
Sample Name	Ambient Noise			
Date of Sampling	15/09/2023			
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	68.4	54.3	Day Time = 75 dB Night Time = 70 dB
2	Admin Office	55.7	48.5	
<b>Remark-</b> 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/123	Report Issue Date	21/09/2023
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.		
Discipline	Chemical	Sample Description	Stack Material: MS
Group	Pollution & Environment.		Stack Height: 36 Mtr
Sub Group	Stack Emission		Stack Type: Round
Date of Sampling	15/09/2023	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	16/09/2023	End Date of Analysis	21/09/2023

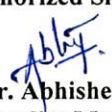
### Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (MPCB Consent)	Methods
1	Flue Gas Temperature	48	°C	--	--
2	Differential Pressure	4.5	mm WG		
3	Velocity	8.13	M/s		
4	Total Particulate Matter	42.6	mg/Nm <sup>3</sup>	≤ 150	IS 11255 (Part 1)
5	Sulphur Dioxide (SO <sub>2</sub> )	21.3	mg/Nm <sup>3</sup>	N.S.	IS 11255 (Part 2)
6	Sulphur Dioxide (SO <sub>2</sub> )	1.04	Kg/day	N.S.	IS 11255 (Part 2)
7	Oxides of Nitrogen (Nox)	22.9	mg/Nm <sup>3</sup>	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)

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

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### TEST REPORT (Stack Emission)

Report No.	NLES/23-24/09/ST/RE/124	Report Issue Date	21/09/2023
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.		
Discipline	Chemical	Sample Description	Stack Material: MS
Group	Pollution & Environment.		Stack Height: 18 Mtr
Sub Group	Stack Emission		Stack Type: Round
Date of Sampling	15/09/2023	Sampling Location	Re-Heating 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	16/09/2023	End Date of Analysis	21/09/2023

#### Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (MPCB Consent)	Methods
1	Flue Gas Temperature	41	°C	--	--
2	Differential Pressure	4.5	mm WG		
3	Velocity	9.04	M/s		
4	Total Particulate Matter	52.5	mg/Nm <sup>3</sup>	≤ 150	IS 11255 (Part 1)
5	Sulphur Dioxide (SO <sub>2</sub> )	23.8	mg/Nm <sup>3</sup>	N.S.	IS 11255 (Part 2)
6	Sulphur Dioxide (SO <sub>2</sub> )	1.05	Kg/day	N.S.	IS 11255 (Part 2)
7	Oxides of Nitrogen (Nox)	21.4	mg/Nm <sup>3</sup>	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/125	Report Issue Date	21/09/2023	
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.			
Sample Name	Workzone Noise	Date of Sampling	15/09/2023	
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	85.6	≤90	CPCB Guideline
2.	Casting Area	79.4		
3.	Raw Material Handling Unit	71.3		
<b>Remark-</b> 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/126	Report Issue Date	21/09/2023
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.		
Discipline	Chemical	Date of Sample Collection	15/09/2023
Group	Water	Sample Quantity	02 lit Plastic Can
Sub Group	Surface Water	Sampling Procedure	APHA 1060
Sample Description	Matoba Lake	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	16/09/2023	End Date of Analysis	21/09/2023

### Results

Sr. No.	Parameters	Unit(s)	Results	Methods
<b>PHYSICAL PARAMETERS</b>				
1	Odour	-	Agreeable	IS 3025 Part-5
2	pH at 25°C	-	7.72	APHA 4500 H+ A, 23 <sup>rd</sup> Ed. 2017
3	Turbidity	NTU	0.51	IS 3025 Part-10
4	Total Dissolved Solids	mg/l	689	APHA 2540 C, 23 <sup>rd</sup> Ed. 2017
5	Ammonical Nitrogen as N	mg/l	0.51	APHA 4500 NH <sub>3</sub> , 23 <sup>rd</sup> Ed. 2017.
6	Calcium (as Ca)	mg/l	40.4	APHA 3500 Ca B, 23 <sup>rd</sup> Ed. 2017
7	Chloride (as Cl)	mg/l	80.7	APHA 4500 Cl <sup>-</sup> B 23 <sup>rd</sup> Ed. 2017
8	Fluoride (as F)	mg/l	0.79	APHA 4500 F <sup>-</sup> D 23 <sup>rd</sup> 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	19.4	APHA 3500 Mg A, 23 <sup>rd</sup> Ed. 2017
11	Nitrate (as NO <sub>3</sub> )	mg/l	5.29	APHA 4500 NO <sub>3</sub> - B 23 <sup>rd</sup> Ed. 2017
12	Sulphate (as SO <sub>4</sub> )	mg/l	67.8	APHA 4500 SO <sub>4</sub> E, 23 <sup>rd</sup> Ed. 2017
13	Total Alkalinity (as CaCO <sub>3</sub> )	mg/l	215.4	APHA 2320 B, 23 <sup>rd</sup> Ed. 2017
14	Total Hardness (as CaCO <sub>3</sub> )	mg/l	362.3	APHA 2340 B, 23 <sup>rd</sup> 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)

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

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### TEST REPORT

Report No.	NLES/23-24/09/W/RE/127	Report Issue Date	21/09/2023
Name and Address of Customer	M/s.MEENAKSHI FERRO INGOT PVT LTD. Gut No:350 and 361, Vill.Bhandgaon,Khor Road,Tq.Daund,Dist.Pune-412214,Maharashtra.		
Discipline	Chemical	Date of Sample Collection	15/09/2023
Group	Water	Sample Quantity	02 lit Plastic Can
Sub Group	Ground Water	Sampling Procedure	APHA 1060
Sample Description	Bhandgaon 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	16/09/2023	End Date of Analysis	21/09/2023

### Results

Sr. No.	Parameters	Unit(s)	Results	Methods
<b>PHYSICAL PARAMETERS</b>				
1	Odour	-	Agreeable	IS 3025 Part-5
2	pH at 25°C	-	6.74	APHA 4500 H+ A, 23 <sup>rd</sup> Ed. 2017
3	Turbidity	NTU	0.69	IS 3025 Part-10
4	Total Dissolved Solids	mg/l	510	APHA 2540 C, 23 <sup>rd</sup> Ed. 2017
5	Ammonical Nitrogen as N	mg/l	0.31	APHA 4500 NH3, 23 <sup>rd</sup> Ed. 2017.
6	Calcium (as Ca)	mg/l	20.7	APHA 3500 Ca B, 23 <sup>rd</sup> Ed. 2017
7	Chloride (as Cl)	mg/l	61.3	APHA 4500 Cl <sup>-</sup> B 23 <sup>rd</sup> Ed. 2017
8	Fluoride (as F)	mg/l	0.38	APHA 4500 F- D 23 <sup>rd</sup> 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	24.1	APHA 3500 Mg A, 23 <sup>rd</sup> Ed. 2017
11	Nitrate (as NO <sub>3</sub> )	mg/l	2.28	APHA 4500 NO3- B 23 <sup>rd</sup> Ed. 2017
12	Sulphate (as SO <sub>4</sub> )	mg/l	45.6	APHA 4500 SO4 E, 23 <sup>rd</sup> Ed. 2017
13	Total Alkalinity (as CaCO <sub>3</sub> )	mg/l	187.5	APHA 2320 B, 23 <sup>rd</sup> Ed. 2017
14	Total Hardness (as CaCO <sub>3</sub> )	mg/l	243.6	APHA 2340 B, 23 <sup>rd</sup> Ed. 2017
15	Iron (as Fe)	mg/l	0.49	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)

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