



CIN No. U27106GA2005PTC013158

Nilanjan Iron Pvt. Ltd.

- Factory : Plot No. B-7, Five Star M.I.D.C., Kagal. Dist. Kolhapur - 416 216
- Reg. Office : 401/402/403/404, 4th Floor, Raghunath Esquire - Pajifond Salcete, Margao, South Goa, Goa, India 403 601
- Mail ID : nilanjan.iron7@gmail.com ● Ph.: 0231 - 6615914

Ref. No.:

Date: 29/04/2023

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 October to March 2023. M/s. Nilanjan Iron Pvt Ltd. Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur.

Ref. No.: Your issued EC: SIA/MH/IND/70019/2018 Dated: 21st Apr 2022

Period of EC Compliance: October To March 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. Nilanjan Iron Pvt Ltd. Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur**. We have received Environmental Clearance from SEIAA, Govt. of Maharashtra, MoEF & CC, New Delhi vide ref. no.: **SIA/MH/IND/70019/2018 Dated: 21st Apr 2022**. We are submitting the EC Compliance for the period of **October to March 2023** for your reference & further needful record.

Request you to kindly acknowledge the same.

Submitted for your kind perusal.

Yours Faithfully,

For M/s. Nilanjan Iron Pvt Ltd.



Mr. Ankush Singla
Director

Enclosure: EC Compliance with its Annexure

Copy to:

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



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

To,

The DIRECTOR
 M/S NILANJAN IRON PVT LTD
 B-7 KAGAL, FIVE STAR MIDC KAGAL, HALSAVADE, KOLHAPUR -
 416216

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/70019/2018 dated 14 Dec 2021. The particulars of the environmental clearance granted to the project are as below.

- | | |
|--|---|
| 1. EC Identification No. | EC22B008MH163326 |
| 2. File No. | SIA/MH/IND/70019/2018 |
| 3. Project Type | Expansion |
| 4. Category | B1 |
| 5. Project/Activity including Schedule No. | 3(a) Metallurgical industries (ferrous & non ferrous) |
| 6. Name of Project | M/s.Nilanjan Iron Pvt. Ltd., Plot no. B-07, Five Star MIDC-Kagal, Dist: Kolhapur. |
| 7. Name of Company/Organization | M/S NILANJAN IRON PVT LTD |
| 8. Location of Project | Maharashtra |
| 9. TOR Date | 02 Nov 2018 |

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

Date: 21/04/2022

(e-signed)
Manisha Patankar Mhaikar
 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.

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STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

No. SIA/MH/IND/70019/2018
Environment & Climate Change
Department
Room No. 217, 2nd Floor,
Mantralaya, Mumbai- 400032.

To
M/s.Nilanjan Iron Pvt. Ltd.,
B-07, Five Star MIDC-Kagal,
Dist: Kolhapur.

Subject : Environment Clearance for Expansion of MS Billets Production from
100 MTD to 500MTD, at Plot no. B-07, Five Star MIDC-Kagal, Dist:
Kolhapur by M/s.Nilanjan Iron Pvt. Ltd.

Reference : Application no. SIA/MH/IND/70019/2018

This has reference to your communication on the above mentioned subject. The proposal was considered by the SEAC-1 in its 178th & 216th meeting under screening category 3(a) B1 as per EIA Notification, 2006 and recommend to SEIAA. Proposal then considered in 239th (Day-2) meeting of State Level Environment Impact Assessment Authority (SEIAA).

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

1.Name of Project	NILANJAN IRON PVT. LTD.
2.Type of institution	Private
3.Name of Project Proponent	MR. ANKUSH SINGLA
4.Name of Consultant	--
5.Type of project	FIVE STAR MIDC KAGAL, DIST :KOLHAPUR
6.New project/expansion in existing project/modernization/diversification in existing project	EXPANSION OF EXISTING M.S BILLETS MANUFACTURING PLANT 100 MTD TO 500 MTD (EXPANSION BY 400 MTD)
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	YES, EC -2009/CR134/TC2. dated- 09/10/2009 from Environment department GoM.
8.Location of the project	PLOT NO:B-07, FIVE STAR MIDC KAGAL
9.Taluka	KARVEER

10.Village	HALSAWADE		
Correspondence Name:	MR. ANKUSH SINGLA		
Room Number:	N.A.		
Floor:	N.A.		
Building Name:	N.A.		
Road/Street Name:	N.A.		
Locality:	PLOT NO:B-07, FIVE STAR MIDC KAGAL		
City:	KOLHAPUR		
11.Whether in Corporation /Municipal / other area	FIVE STAR MIDC AREA-KAGAL		
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 ENVIRONMENTAL CLEARANCE AND MPCB CONSENT.		
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	APPROVED MIDC AREA		
15.Total Plot Area (sq. m.)	10174.00 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.): 00		
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): Not applicable		
	Approved Non FSI area (sq. m.): Not applicable		
	Date of Approval: 21-06-2018		
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	190000000		
22.Number of buildings & its configuration			
Serial numbe	Building Name & number	Number of floors	Height of the building (Mtrs)

r			
1	Not applicable	Not applicable	Not applicable
23.Number of tenants and shops	NA		
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))	NA		
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	TURNING RADIUS 09 METERS.		
29.Existing structure (s) if any	Existing induction furnace shed is available with industry. The induction furnace capacity is 12 MT X 9 heat = 108 MTD. Expansion will be carried out in existing premises of the industry by installing two new induction furnaces will be installed. For expansion project two nos furnaces will be installed. 1) New 20 MT X 13 Heats= 260 MTD (Existing furnace 12 MT replaced with 20 MT) 2) New 20 MT X 12 Heats(1Heat+)=240 MTD, Total: 500 MTD (3-4% will be slag generation in total melting process)		
30.Details of the demolition with disposal (If applicable)	Not applicable		
31.Production Details			

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	MS BILLETS	3000	12000	15000
32.Total Water Requirement				
Dry season:	Source of water	MIDC KAGAL		
	Fresh water (CMD):	60 CMD FOR EXISTING PROJECT. 90 WATER FOR PROPOSED PROJECT , THE TOTAL REQUIREMENT OF WATER WILL BE AFTER EXPANSION IS 150 CMD. THE WATER IS MAINLY REQUIRED FOR COOLING PURPOSE IN THE PROCESS, THE EVAPORATION LOSSES WILL BE 60 CMD. THE 60 CMD WATER IS REQUIRED FOR DAILY TOP-UP, THE 90 CMD WATER IS REUSE AFTER COOLING PROCESS.		
	Recycled water - Flushing (CMD):	Not applicable		
	Recycled water - Gardening (CMD):	05 CMD		
	Swimming pool make up (Cum):	Not applicable		
	Total Water Requirement (CMD) :	60 CMD		
	Fire fighting - Underground water tank(CMD):	50 CMD UG TANK WILL BE CONSTRUCTED		
	Fire fighting - Overhead water tank(CMD):	Not applicable		
	Excess treated water	Not applicable		
	Source of water	MIDC KAGAL		

Wet season:	Fresh water (CMD):	60 CMD WATER FOR EXISTING PROJECT. 90 CMD WATER FOR PROPOSED PROJECT , THE TOTAL REQUIREMENT OF WATER WILL BE AFTER EXPANSION IS 150 CMD. THE WATER IS MAINLY REQUIRED FOR COOLING PURPOSE IN THE PROCESS, THE EVAPORATION LOSSES WILL BE 60 CMD. THE 60 CMD WATER IS REQUIRED FOR DAILY TOP-UP, THE 90 CMD WATER IS REUSE AFTER COOLING PROCESS.								
	Recycled water - Flushing (CMD):	Not applicable								
	Recycled water - Gardening (CMD):	05 CMD								
	Swimming pool make up (Cum):	Not applicable								
	Total Water Requirement (CMD) :	60 CMD								
	Fire fighting - Underground water tank(CMD):	50 CMD UG TANK WILL BE CONSTRUCTED								
	Fire fighting - Overhead water tank(CMD):	Not applicable								
	Excess treated water	Not applicable								
Details of Swimmingpool (If any)	Not applicable									
33.Details of Total water consumed										
Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)			
Water Requirement	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total	
Domestic	05	03	08	02	01	03	03	02	05	
Industrial Process	60	90	150	24	36	60	00	00	00	

Fresh water requirement	24	36	60	00	00	00	00	00	00
Gardening	03	02	05	03	02	05	00	00	00
34.Rain Water Harvesting (RWH)	Level of the Groundwater table:	10-15 M BELOW GROUND LEVEL. POST MONSOON 5-10 M BELOW GROUND LEVEL.							
	Size and no of RWH tank(s) and Quantity:	TWO NOS OF RAINWATER HARVESTING TANK, NUMBERS OF TANK WILL BE INCREASED IF REQUIRED.							
	Location of the RWH tank(s):	WITHIN INDUSTRIAL PREMISES.							
	Quantity of recharge pits:	05 NOS RAIN WATER HARVESTING PITS , NUMBERS OF PITS WILL BE INCREASED IF REQUIRED.							
	Size of recharge pits :	DETAILS RAIN WATER HARVESTING PLAN WILL BE INCORPORATE IN FINAL EIA REPORT.							
	Budgetary allocation (Capital cost) :	RS.600000/-							
	Budgetary allocation (O & M cost) :	RS.350000/-							
	Details of UGT tanks if any :	1 no : 10 m X 8 M X 3 m							
35.Storm water drainage	Natural water drainage pattern:	STORM WATER DRAIN SYSTEM WILL BE CONSTRUCTED AROUND THE PLANT							
	Quantity of storm water:	1017 m3 based on 100 mm rainfall in an hour							
	Size of SWD:	300 mm X 400 mm X 3000 mm							
Sewage and Waste water	Sewage generation in KLD:	05 KLD							
	STP technology:	MBBR TECHNOLOGY							
	Capacity of STP (CMD):	10 CMD							
	Location & area of the STP:	IN THE PREMISES OF INDUSTRY.							

	Budgetary allocation (Capital cost):	Rs.450000/-
	Budgetary allocation (O & M cost):	Rs.150000/-
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	Waste generation:	NA
	Disposal of the construction waste/debris:	NA
Waste generation in the operation Phase:	Dry waste:	EXISTING SLAG: 3.00 MTD, PROPOSED SLAG GENERATION:12.00 MTD, PROCESS DUST Existing 100 KG/DAY, Proposed 400 KG/DAY.
	Wet waste:	NA
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	0.1MTA
	Others if any:	NA
Mode of Disposal of waste:	Dry waste:	SLAG WILL BE CRUSHED IN SLAG CRUSHER AND IRON WILL BE RECOVERED BY MAGNETIC SEPARATOR. REMAINING CRUSHED SLAG USED FOR BRICK MAKING AND OTHER CONSTRUCTION USES.
	Wet waste:	NA
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	IT WILL USED AS MANURE FOR GARDENING.
	Others if any:	NA
	Location(s):	WITHIN INDUSTRIAL PREMISES.

Area requirement:	Area for the storage of waste & other material:	70 SQ. MTR					
	Area for machinery:	50 SQ. MTR					
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs.1500000/-					
	O & M cost:	Rs.400000/-					
37.Effluent Charecterestics							
Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)		
1	NA	NA	NA	NA	NA		
Amount of effluent generation (CMD):		NA					
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					
38.Hazardous Waste Details							
Serial Number	Description	Cat	UOM	Existin g	Propose d	Total	Method of Disposal
1	NA	NA	NA	NA	NA	NA	NA
39.Stacks emission Details							
Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Intern al diameter (m)	Temp. of Exha ust Gase s	
1	EXISTING FUME EXTRACTION	ELECTRICITY	1	30	1.6	50-60	

2	PROPOSED FUMES EXTRACTION	ELECTRICITY	1	35	1.6	50-60
40.Details of Fuel to be used						
Serial Number	Type of Fuel	Existing	Proposed	Total		
1	ELECTRICITY	5.00 MW	5.00 MW	10.00 MW		
41.Source of Fuel		MSEDCL				
42.Mode of Transportation of fuel to site		TRANSMISSION LINE OF MSEDCL				
43.Green Belt Development	Total RG area :	NA				
	No of trees to be cut :	00				
	Number of trees to be planted :	700				
	List of proposed native trees :	NEEM, BABUL, BAKUL, MANGO, AAPTA, BER				
	Timeline for completion of plantation :	FOUR YEARS				
44.Number and list of trees species to be planted in the ground						
Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance		
1	AZATIRECTA INDICA	NEEM	170	SHADY TREE, MEDICINAL USE		
2	ACACIA NILOTICA	BABUL	120	SHADY TREE WITH YELLOW FLOWERS		
3	MIMUSO PSELENGI	BAKUL	40	SHADY TREE WITH SMALL WHITE FRAGRANT FLOWERS		
4	MANGIFERA INDICA	MANGO	150	SHADY TREE		
5	BAUHINIA RACEMOSA	AAPTA	70	SMALL TREE WITH SMALL WHITE FLOWERS, BUTTERFLY HOST PLANT		

6	ZIZIPHUS MAURITIANA	BER	150	FAST GROWING & HARDY PLANT
45.Total quantity of plants on ground				
46.Number and list of shrubs and bushes species to be planted in the podium RG:				
Serial Number	Name	C/C Distance	Area m2	
1	AMERICAN ALEO	2*2	4	
2	BLACK PHYSICNUT	3*3	9	
3	GARDEN CROTON	1*1	1	
4	CHINA ROSE	2*2	4	
47.Energy				
Power requirement:	Source of power supply :	MSEDCL		
	During Construction Phase: (Demand Load)	MSEB 1MW		
	DG set as Power back-up during construction phase	500 KVA		
	During Operation phase (Connected load):	10.00 MW		
	During Operation phase (Demand load):	10.00 MW		
	Transformer:	YES		
	DG set as Power back-up during operation phase:	500 KVA 2 NOS.		

	Fuel used:	HSD/LDO	
	Details of high tension line passing through the plot if any:	NA	
48. Energy saving by non-conventional method:			
Nil			
49. Detail calculations & % of saving:			
Serial Number	Energy Conservation Measures	Saving %	
1	LED LIGHT USED FOR STREET LIGHT AND IN OFFICE.	AS PER REQUIREMENT.	
50. Details of pollution control Systems			
Source	Existing pollution control system	Proposed to be installed	
FURNACE (AIR POLLUTION)	FUMES EXTRACTION SYSTEM HOOD FOLLOWED BY VENTURY SCRUBBER TO STACK	FUMES EXTRACTION SYSTEM HOOD FOLLOWED BY VENTURY SCRUBBER TO STACK.	
DG SETS (NOISE POLLUTION).	ACOUSTIC ENCLOSURE PROVIDED.	ACOUSTIC ENCLOSURE WILL BE PROVIDED.	
DOMESTIC WASTE WATER	SEPTIC TANK WITH SOAK PIT	USED FOR DOMESTIC WASTE WATER TREATMENT.	
SOLID WASTE (SLAG)	COLLECTION ,SEGREGATION	COLLECTION ,SEGREGATION & CRUSHING	
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	Rs. 2.00 LACS IS ALOCATED FOR LED LIGHTS	
	O & M cost:	APP. Rs. 0.25 IS REQUIRED FOR O & M.	
51. Environmental Management plan Budgetary Allocation			
a) Construction phase (with Break-up):			
Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	NA	NA	0

b) Operation Phase (with Break-up):				
Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	AIR POLLUTION CONTROL EQUIPMENT	POLLUTION CONTROL EQUIPMENT FOR AIR POLLUTION CONTROL MEASURES	80.00	15.00
2	WATER POLLUTION CONTROL TREATMENT	WATER TREATMENT PLANTS STP WILL BE PROVIDED	03.50	00.80
3	SOLID WASTE MANAGEMENT	SOLID WASTE DISPOSAL & MANAGEMENT IN THE FORM OF MANURE & BRICK MANUFACTURING	15.00	04.00
4	OCCUPATIONAL HEALTH SAFETY MANAGEMENT	SAFETY MEASURES IN RESPECT TO HEALTH FACILITIES WILL BE PROVIDED TO WORKERS	03.00	01.00
5	ENVIRONMENTAL CELL & MONITORING	MANAGEMENT OF ENVIRONMENT BY ENVIRONMENTAL CELL	06.00	03.50
6	GREEN BELT DEVELOPMENT	PLANTATION OF VARIOUS NATIVE & OTHER SPECIES DEVELOPING	03.00	01.00

		THE GREEN BELT					
7	NA	TOTAL	110.5 0	25.30			
51.Storage of chemicals (inflamable/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
NA	NA	NA	00	NA	NA	NA	NA
52.Any Other Information							
No Information Available							
53.Traffic Management							
	Nos. of the junction to the main road & design of confluence:	NA					
Parking details:	Number and area of basement:	NA					
	Number and area of podia:	NA					
	Total Parking area:	THE AREA EARMARKED FOR THE PARKING IS 1220.00 SQM (ITS 12% OF THE TOTAL PLOT AREA)					
	Area per car:	NA					
	Area per car:	NA					
	Number of 2- Wheelers as approved by competent authority:	NA					
	Number of 4- Wheelers as approved by competent	NA					

	authority:	
	Public Transport:	50-60 TRUCKS
	Width of all Internal roads (m):	THE INTERNAL ROADS WIDTH IS 06.00 METERS.
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	3(a)B1
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

3. The proposal has been considered by SEIAA in its 239th (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 ensure that, no waste water is discharged out side the premises.
2. PP to ensure that, slag management system is in place before starting manufacturing of proposed product.
3. PP to provide sanitary facilities in the Z.P.School in the vicinity of proposed project from their CER funds in consultation with the CEO Zilla Parishad Kolhapur.
4. PP to provide new and renewable energy for illumination of office buildings , street lights, parking areas and maintain the same regularly.
5. PP to include water and carbon foot print monitoring in the Environment Management

Plan.

6. PP to provide sewage treatment plant for the treatment of domestic sewage.

SEIAA Conditions

1. PP submitted MIDC plan dated 07.01.2021. As per the said plan total plot area of the project is 10,174 sqm. PP has provided 3459.16 sqm as green belt (34%).
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 ensure that, proposed project is a ZLD unit.
4. PP to strictly observe the Solid Waste Management Rules, 2016 as amended time to time.
5. PP to strictly observe the Hazardous and Other Wastes (Management & Trans boundary Movement) Rules, 2016 as amended time to time.
6. 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.
7. 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.
8. 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).
9. 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.
10. PP to provide solar energy for illumination of Administrative Building, Street Lights and parking Area.
11. 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.
12. PP to provide roof top Rain Water Harvesting facility.

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 1st June & 1st 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 31st 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, 1st Floor, D-Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.


Manisha Patankar-Mhaikar
(Member Secretary, SEIAA)
20/4/2022

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, Kolhapur.
7. Regional Officer, Maharashtra Pollution Control Board, Kolhapur.

Environmental Clearance Compliance Statement

Project Name: Proposed Project for Expansion of MS Billet Capacity Production from 100 MTD to 500 MTD at Plot No. B-07, Five Star MIDC, Kagal, Dist.: Kolhapur, Maharashtra by

M/s. Nilanjan Iron Pvt. Ltd.

Category of the Project: Ferrous & Non-Ferrous B1

EC Identification No.: EC22B008MH163326 Dated: 21st April 2022

File No.: SIA/MH/IND/70019/2018

EC Compliance Period: **October to March 2023**

S. N.	Conditions	Compliance by the industry
	<u>Specific Conditions:</u>	
	<u>SEAC Conditions:</u>	
1	PP to ensure that, no waste water is discharged outside the premises.	Noted and being complied. Our production process does not generate waste water; water is utilized largely for cooling, after which it is cooled, settled, and reused in the manufacturing process. Only household wastewater is generated, which is recycled and reused on the plant premises for landscaping and greenbelt development. In the factory, the industry is implementing the "Zero Liquid Discharge" (ZLD) concept.
2	PP to ensure that, slag management system is in place before starting manufacturing of proposed product.	Being Complied. Slag generated by the factory is crushed and sold to a brick manufacturer for use in the production of bricks. There is a high demand for generated crushed slag for brick manufacturing in the surrounding area, and the company management strictly adheres to the slag management system.
3	PP to provide sanitary facilities in the Z.P school in the vicinity of proposed project from their CER funds in consultation with the CEO, Zilla Parishad, Kolhapur.	Noted and being complied. We have submitted the CER plan prepared in cooperation with the CEO of the Zilla Parishad of Kolhapur District in accordance with the

		public hearing MOM. On the basis of the submitted CER plan, the CEO of Zilla Parishad, Kolhapur District, gave us a sanctioned demand letter. A copy of the sanctioned demand letter received is provided as Annexure - I.
4	PP to provide new and renewable energy for illumination of office buildings, street lights, parking areas and maintain the same regularly.	Noted and being complied. Solar panels and energy-efficient LED lighting for the street and office buildings have been provided in an effort to conserve non-renewable electricity. We dedicate ourselves to uphold the same standards going forward.
5	PP to include water and carbon foot print monitoring in the Environment Management Plan.	Noted and being complied. We have allocated Rs. 5.00 lakhs from the EMP budget, which also covers monitoring water use and carbon footprint, to carry out the aforementioned activities; more information is provided in Annexure II.
6	PP to provide Sewage Treatment Plant for the treatment of domestic sewage.	Complied. For the treatment of generated domestic waste water, we have made available a sewage treatment plant with a 10 KLD capacity. Within the plant's boundaries, treated domestic waste water is recycled and reused for landscaping and greenbelt construction.
	<u>SEIAA Conditions:</u>	
1.	PP submitted MIDC plan dated 07.01.2021, as per the said plan total plot area of the project is 10,174 sqm. PP has provided 3459.16 sqm as green belt (34%).	Noted and agreed. We possess the MIDC plan's approved plan. According to the plan, which is dated 7 January 2021, the project's entire plot area is 10,174 square metres, and we have allocated 3459.16 square metres for the development of a green belt (34%).

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 expert/ arborist.	Noted and being complied. With the help of an arborist and Miyawaki expert, we are planting trees to develop a greenbelt. Miyawaki native and indigenous tree planting is done in accordance with the Forest Department's circular, SaVaVi-2019/C.R.3/F-11, dated June 25, 2019, which is issued by the Maharashtra government. We guarantee that we will finish this within a year.
3.	PP to ensure that, proposed project is a ZLD unit.	Noted and being complied. Other than domestic waste water, we don't generate any effluent from manufacturing operations. Water is only needed for cooling purposes; it settles and is used again during cooling. In a STP with a 10 KLD capacity, generated domestic waste water is treated before being reused and recycled for the creation of landscaping and greenbelts.
4.	PP strictly observe the Solid Waste Management Rules 2016 as amended time to time.	Noted and being complied. We guarantee that we are adhering to the 2016 Solid Waste Management Rules. Slag, or the generated solid waste from the production process that is slag, is crushed and sold to the brick manufacturing plant.
5.	PP strictly observe the Hazardous and Other Wastes (Management & Transboundary Movement) Rules 2016 as amended time to time.	Noted and, if necessary, complied with. The industrial manufacturing activities of our plant do not involve in generating hazardous waste.
6.	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	Being Complied. To reduce the air pollutants, we have installed a complete air pollution control system like scrubber. To reduce air pollution and adhere to the requirements of the Environment

	(Protection) Rules, 1986 amended time to time.	(Protection) Rules of 1986, we installed water sprinklers at the crusher unit.
7.	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.	Noted and will be complied if applicable. We kept our promise not to process any hazardous chemicals in the factory, and the industry does not generate or consume any hazardous waste, as stated in the MPCB's Consent.
8.	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).	Noted and will be complied if applicable.
9.	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.	Agreed and complied. Our licence, number 10004514, issued by the Directorate of Industrial Health & Safety (DIHS) on January 9, 2019, is valid until December 31, 2023. As required by the Maharashtra Factories Rules, 1963, we completed the safety audit on October 7, 2021. A copy of the licence obtained from the Directorate of Industrial Health & Safety (DIHS) is included as Annexure-III .
10.	PP to Provide solar energy for illumination of Administrative Building, Street Lights and parking Area.	Noted and being complied. Solar panels and energy-efficient LED lighting have been installed on the buildings outside and within the workplace in an effort to reduce the use of non-renewable electricity. We pledge to uphold the same standards going forward.
11.	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.	Noted and being complied.

12.	PP to provide roof top Rain Water Harvesting Facility.	Agreed and being complied. Collection and recharge pits are provided.
	<u>General Conditions:</u>	
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 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	Complied. The advertisement was published in both English and Marathi in two extensively circulated local newspapers in the area. Published advertisement copies in English and Marathi languages is attached as an Annexure – IV.
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 Maharashtra Pollution Control Board, SEIAA and the Regional Office of MoEF&CC at Nagpur, on 1st June & 1st December of each calendar year.	Noted and being complied. We are submitting the six-monthly compliance report in respect of EC conditions along with monitoring reports to the respective MoEF&CC Regional Office and MPCB office in soft and hard copies as per the given deadline in issued EC. We are uploading the same on the industry website also. The criteria of the pollutant levels PM ₁₀ , PM _{2.5} , SO ₂ & NO _x are displayed on the LED based Board near to the main gate of the industry.
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	Being Complied. We committed that the special funds we set aside for environmental protection measures wouldn't be used for anything else and that the MPCB and MoEF & CC department would be given an annual report on its utilization.

	expenditure should be reported 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.	<p>Complied.</p> <p>A two-person team of qualified employees, including a safety officer and an environmental officer, has been appointed. To handle all environmental and safety-related concerns, we have established a fully functional environment management cell.</p>
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.	<p>Noted.</p> <p>In the case that a pollution control system fails, production cannot continue until the equipment is operational once more, and the MPCB must be notified immediately.</p>
VI	PP to strictly follow conditions stipulated in the Consent to Establish/ Operate issued by the Maharashtra Pollution Control Board.	<p>Agreed and being complied.</p> <p>We assure you that we are complying with the conditions stipulated in the MPCB's Consent to Establish/ Operate.</p>
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.	<p>Noted and complied.</p> <p>We designed individual storm water drains. No waste water is produced throughout the manufacturing process other than domestic waste water because water is required to cool hot billets. Storm water and generated domestic waste water is having their own separate drainage networks and not combine.</p>
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.	<p>Being complied.</p> <p>In the villages within a 10-kilometer radius, the quality of the ground water is routinely monitored to look for any changes. The obtained groundwater findings are well within the MoEF&CC/CPCB regulations' permitted limit. Regular analysis reports and six-monthly EC Compliance reports are submitted.</p>

IX	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.	Being complied. We are keeping the noise level within the acceptable ranges. The essential personal safety gear, including earplugs and ear muffs, was provided to the workers. On a regular basis, the project site and its surroundings are subjected to noise monitoring.
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.	Being complied. We are taking every precautionary step we can to keep the risk zone inside the plant's perimeter. A comprehensive fire fighting system with a fire extinguisher was installed at the furnace and office location.
XI	PP to scrumptiously follow the requirements of Maharashtra Factories Act, 1948 & Rules 1963 as amended from time to time.	Noted and being complied. We have a factory licence from the Maharashtra Directorate of Industrial Safety and Health, Reg. No. 123002410300817, issued on January 9, 2019, and is valid till December 31, 2023. Obtained Factory License copy for the same is attached.
XII	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 being complied. Environmental Statements (Form - V) have been timely submitted for every financial year ending March, and we will continue to do so each year.



अमन मित्तल

भा.प्र.से.

मुख्य कार्यकारी अधिकारी
जिल्हा परिषद, कोल्हापूर



कार्यालय : (०२३१) २६५५५९८

निवास : (०२३१) २६००४०६

ईमेल : ceozp.kolhapur@maharashtra.gov.in

वेबसाईट : www.zpkolhapur.gov.in

जा.क्र. /आरोग्य/औ.भां.11/CE/2020

आरोग्य विभाग, जिल्हा परिषद,

कोल्हापूर दिनांक :-20-02-2020

प्रति,

संचालक,

निलांजन आयर्न प्रा. लि. कागल,

एमआयडीसी, कागल

विषय :- औद्योगिक प्रकल्पाच्या प्रास्तविक विस्तारीकरणांतर्गत राबविण्यात येणाऱ्या कॉर्पोरेट पर्यावरणीय जबाबदारी (Corporate Environmental Responsibility) आराखड्यास मार्गदर्शन मिळणे बाबत ..

संदर्भ :- आपलेकडील पत्र दिनांक 20-02-2020

उपरोक्त विषयास व संदर्भित पत्रास अनुसरून, औद्योगिक प्रकल्पाच्या प्रास्तविक विस्तारीकरणांतर्गत राबविण्यात येणाऱ्या कॉर्पोरेट पर्यावरणीय जबाबदारी (Corporate Environmental Responsibility) आराखड्यास अनुसरून स्वकम रुपये पाच लाख अनुदान खर्च करणेबाबत सुचित केले आहे. त्यास अनुसरून या कार्यालयातर्गत आपले कार्यक्षेत्रामध्ये कसबा सांगाव, मुडशिगी, उचगांव, हुपरी, कणेरी ही प्राथमिक आरोग्य केंद्रे कार्यरत आहेत. त्यांचे साठी खालीलप्रमाणे साधन सामुग्रीची आवश्यकता आहे.

अ.क्र.	साधनसामुग्रीचे नांव	शेरा
1	सार्वजनिक आरोग्य केंद्रासाठी सौर वॉटर हीटर	1.00 लाख
2	सौर पथ दिवा	1.00 लाख
3	शौचालय आणि स्नानगृह स्वच्छता (जिल्हा परिषद प्राथमिक शाळा)	3.00 लाख

मुख्य कार्यकारी अधिकारी,
जिल्हा परिषद, कोल्हापूर

Revised Environment Management Plan.

S. No	Environmental Aspect	Capital Expenditure (Rs. Lacs)	Recurring Expenditure (Rs. Lacs)
1	Air pollution <ul style="list-style-type: none"> • Ventury Scrubber • Fumes extraction & Chimney • Water Sprinklers 	40.0 20.0 15.0	15.00
2	Water Pollution <ul style="list-style-type: none"> • STP (10.0 KLD) • Storm Water Drainage repairing & maintenance. 	10.00 2.50	3.60
3	Greenbelt Development (300 Nos sapling will be planted)	6.00	1.00
4	Environmental Monitoring. Carbon & Water footprint.	6.00 05.00	3.50
5	Occupational Health safety Management <ul style="list-style-type: none"> • PPES • Health Checkups 	2.00 1.00	1.00
6	Solid and other Waste Management <ul style="list-style-type: none"> • Slag Management • Solid waste Management (Kitchen waste other degradable waste.) 	11.00 4.00	2.00 1.00
	Total	122.50	27.10



सत्यमेव जयते

महाराष्ट्र शासन

औद्योगिक सुरक्षा व आरोग्य संचालनालय (कामगार विभाग)

परवाना क्रं : १०००४५१४

नमूना क्रमांक ४

(नियम ६ व ८ पाहणे)

कारखान्याची नोंदणी व कारखाना चालविण्याचा संबंधीचा परवाना

नोंदणी क्रमांक : १२३००२४१०३००८१७



कारखाने अधिनियम, १९४८ आणि त्यासंबंधी असलेले नियम यांच्या तरतुदीप्रमाणे नीलांजन आइरन प्राईवेट लीमीटेड यांना खाली वर्णन केलेल्या जागेत कारखाना चालविण्यास परवाना देण्यात आला आहे.

या परवान्यान्वये या जागेत कोणत्याही एका दिवशी १५० पर्यंत कामगार लावण्यास आणि २००० पेक्षा जास्त अश्वशक्ति उपयोगात आणण्यास परवानगी आहे.

या परवान्याची मुदत ३१ डिसेंबर २०१९ पर्यंत आहे.

परवान्याचे नूतनीकरण १ जानेवारी २०२० ते ३१ डिसेंबर २०२३ पर्यंत करण्यात आले आहे.

दिनांक : ०९-०१-२०१९

Signature valid



सह संचालक
औद्योगिक सुरक्षा व आरोग्य,
महाराष्ट्र राज्य, कोल्हापूर

परवाना दिलेल्या जागेचे वर्णन

परवाना दिलेल्या कारखान्याचे

नीलांजन आइरन प्राईवेट लीमीटेड

Factory Name :

Nilanjan Iron Pvt Ltd

पत्ता :

प्लॉट नं. बी-७, फाईव स्टार

एमआईडीसी,,,,,कागल,कोल्हापूर,महाराष्ट्र,४१६२१६

Address :

Plot No. B-7, Five Star MIDC,,,,,Kagal, Kolhapur, MAHARASHTRA, 416216

कलम :

२(m)(i)

औद्योगिक वर्गीकरण :

२४१०३

कारखान्याच्या इमारतीचे नकाशे दिनांक १८.०५.२०१८ च्या जावक क्रमांक १२३०००००००१५०४७ खाली मंजूर केले गेले आहेत.

This Certificate is digitally signed by on.

टिप : हा कारखान्याची नोंदणी व कारखाना चालविण्याचा परवाना आहे. हा परवाना देण्यात आल्यामुळे ज्या जागेत हा कारखाना स्थित आहे, त्या जागेस कोणतीही वैधता आपोआप बहाल होत नाही तसेच ज्या जागेत हा कारखाना स्थित आहे ती जागा आज दिनांक वेळेस अस्तित्वात असल्या संबंधात या परवान्यामुळे कोणताही हक्क व स्वामित्व सदरहू भोगवटदारास प्राप्त होत नाही

जाहीर प्रकटन

आम्ही मे. नीलांजन आर्यन प्रा. लि., कोल्हापूर, या प्रकटनाद्वारे जाहीर सूचित करतो की, भारत सरकार वने, पर्यावरण व वातावरण बदल मंत्रालय (राज्य पर्यावरण आघात मूल्यांकन विभाग) महाराष्ट्र यांनी आमच्या मे. नीलांजन आर्यन प्रा. लि.च्या एम. एस. बिलेट ३००० मेट्रिक टन प्रतिमहिना ते १५००० मेट्रिक टन प्रतिमहिना प्लॉट नं. बी -७, पंचतारांकित एम.आय.डी.सी.- कागल, ता. करवीर, जिल्हा-कोल्हापूर, महाराष्ट्रसाठी पर्यावरण मंजूरी दिनांक २१/०४/२०२२ असून पर्यावरण परवानगी ओळख क्रमांक : EC22B008MH163326, फाईल क्रमांक : SIA/MH/IND/70019/2018, सदरील पर्यावरण मंजूरीची प्रत आमचे कार्यालय व प्रादेशिक कार्यालय प्रदूषण नियंत्रण मंडळ, कोल्हापूर यांच्या कार्यालयात उपलब्ध आहे. भारत सरकार वने, पर्यावरण व वातावरण बदल मंत्रालय (राज्य पर्यावरण आघात मूल्यांकन विभाग) महाराष्ट्र यांच्या सांकेतिक स्थळावर प्रकाशित केला आहे.

सांकेतिक स्थळ - <https://parivesh.nic.in/>

मे. नीलांजन आर्यन प्रा. लि.

PUBLIC NOTICE

We, M/s. Nilanjan Iron Pvt. Ltd., Hereby bring to the notice that Government of India, MoEF & CC (Issued by the State Environment Impact Assessment Authority (SEIAA) Maharashtra on dated 21/04/2022. EC Identification No:EC22B008MH163326, File No: SIA/MH/IND/70019/2018 "Environmental Clearance" to our proposed expansion of MS Billets: 3000 MTM to 15000 MTM (Expansion by 12000 MTM) at Plot no: B-07, Five Star MIDC- Kagal, Taluka- Karveer, District - Kolhapur, Maharashtra. Environment clearance letter is available with our office, Regional Office M.P.C.B, Kolhapur & on the website of Government of India, MoEF & CC (SEIAA, Maharashtra) (<https://parivesh.nic.in/>)

M/s. Nilanjan Iron Pvt. Ltd.

MAHARASHTRA POLLUTION CONTROL BOARD

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



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

RED/L.S.I (O63)
No:- Format1.0/APAE Section/UAN
No.0000107852/CO/2206000821

Date: 16/06/2022

To,
M/s.Nilanjan Iron Pvt. Ltd.,
Plot No. B-07,Kagal 5 Star MIDC,
Tal. Karveer, Dist. Kolhapur



Your Service is Our Duty

Sub: Consent to Operate 1st (Expansion) and amalgamation of existing Consent under Red Category.

Ref:

1. Consent to Operate granted vide no.RO-KOLHAPUR/CONSENT/1803000346/079/18 Dtd.07.03.2018
2. Consent to Establish granted vide no. vide no.BO/JD(APC)/EIC No.KP-11753-15/E/CC-2231 Dtd.17.03.2016.

Your application No.MPCB-CONSENT-0000107852 Dated 03.02.2021

For: grant of Consent to Operate 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 operate is granted for a period up to 31/12/2023**
2. **The capital investment of the project is Rs.20.9081 Crs. (As per C.A Certificate submitted by industry Existing CI is-Rs.19.08 Crs + Expansion/Increase in C.I. - Rs.1.82 Crs)**
3. **Consent is valid for the manufacture of:**

Sr No	Product	Maximum Quantity	UOM
Products			
1	MS BILLETS	10000	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
2.	Domestic effluent	5.0	As per Schedule-I	On land for gardening

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

Sr No.	Stack No.	Description of stack / source	Number of Stack	Standards to be achieved
1	1	INDUCTION FURNACE (2 Nos.)	1	As per Schedule -II

6. **Non-Hazardous Wastes:**

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
1	SLAG	20	Ton/D	SLAG CRUSHING	SALE TO BRICK MANUFACTURERS

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

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

(Industry shall not generate any Hazardous Waste)

- The Board reserves the right to review, amend, suspend, revoke this consent and the same shall be binding on the industry.
- This consent should not be construed as exemption from obtaining necessary NOC/ permission from any other Government authorities.
- This consent is issued with overriding effect on earlier Consent to Operate granted vide no.RO-KOLHAPUR/CONSENT/1803000346/079/18 Dtd.07.03.2018
- The applicant shall comply with the conditions of the Environmental Clearance granted vide letter No. SIA/MH/IND/70019/2018. Dtd. 21.04.2022.
- Industry shall install online continuous monitoring system as per CPCB guidelines & data to be transmitted directly from Data Logger to Board server.
- Industry shall apply separately for Consent to Establish towards additional production of MS Billets - 5000 MT/M as per Environment Clearance obtained dtd.21.04.2022.
- Industry shall install secondary emission control system to control fugitive emissions within period of six months. Industry shall submit Bank Guarantee of Rs.5.0 Lakhs within 15 days towards compliance of same .
- The applicant shall make an application for renewal of consent 60 days prior to date of expiry of the consent.

Received Consent fee of -

Sr.No	Amount(Rs.)	Transaction/DR.No.	Date	Transaction Type
1	250000.00	TXN2201003610	31/01/2022	Online Payment

Balance fees with Board is Rs.85,000/- and same will be adjusted during next renewal of consent.

Copy to:

1. Regional Officer, MPCB, Kolhapur and Sub-Regional Officer, MPCB, Kolhapur
 - 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] Generation - As per your application the treated effluent generation is Nil.
B] Treatment - NA
C] Disposal - NA
2. A] As per your application, you have provided Sewage Treatment Plant of designed capacity 10.0 CMD
B] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards.

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

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

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	150.00
2.	Domestic purpose	8.00
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.	Gardening	00

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

SCHEDULE-II

Terms & conditions for compliance of Air Pollution Control:

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

Stack No.	Source	APC System provided/proposed	Stack Height(in mtr)	Type of Fuel	Sulphur Content(in %)	Pollutant	Standard
1	INDUCTION FURNACE (2 nos.)	VENTURY SCRUBBER	35.00	ELECTRICITY 00 -	-	TPM	150 Mg/Nm ³

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

SCHEDULE-III

Details of Bank Guarantees:

Sr. No.	Consent (C2E/ C2O /C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	Consent to Operate	Rs. 5 Lakhs	15 Days	Operation & Maintenance of Pollution Control System and compliance of consent conditions	31.12.2023	30.04.2024
2	Consent to Operate	Rs. 5 Lakhs	15 Days	Installation of secondary emission control system to control fugitive emissions	Six Months	30.04.2024

The above Bank Guarantee(s) shall be submitted by the applicant in favour of Regional Officer at the respective Regional Office within 15 days from the date of issue of Consent.

BG Forfeiture History

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

BG Return details

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

SCHEDULE-IV

General Conditions:

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

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

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

This certificate is digitally & electronically signed.



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2022

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000046290

Submitted Date

20-09-2022

PART A

Company Information

Company Name

NILANJAN IRON PVT LTD

Application UAN number

MPCB-CONSENT-0000036072

Address

PLOT NO. B-07, KAGAL 05 STAR MIDC,
TQ. KAGAL, DIST. KOLHAPUR

Plot no

B-7, KAGAL 5 STAR MIDC

Taluka

KAGAL

Village

KAGAL

Capital Investment (In lakhs)

2173.79

Scale

LSI

City

KOLHAPUR

Pincode

416216

Person Name

ANKUSH SINGLA

Designation

DIRECTOR

Telephone Number

9970788278

Fax Number

00

Email

nilanjan.iron7@gmail.com

Region

SRO-Kolhapur

Industry Category

Orange

Industry Type

O63 Steel and steel products using various furnaces like blast furnace /open hearth furnace/induction furnace/arc furnace/submerged arc furnace / basic oxygen furnace /hot rolling reheated furnace

Last Environmental statement submitted online

yes

Consent Number

RO-KOLHAPUR/CONSENT/1803000346/079/18

Consent Issue Date

07-03-2018

Consent Valid Upto

31-12-2023

Establishment Year

0

Date of last environment statement submitted

Sep 21 2021 12:00:00:000AM

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

Product Information

Product Name

M.S INGOTS/STEEL BILLETS

Consent Quantity

36000

Actual Quantity

35620

UOM

MT/A

By-product Information

By Product Name

NA

Consent Quantity

00

Actual Quantity

00

UOM

MT/A

Part-B (Water & Raw Material Consumption)

<u>1) Water Consumption in m3/day</u>		
Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
	00.00	0.00
Cooling	60.00	56.90
Domestic	05.00	4.50
All others	00.00	0.00
Total	65.00	61.40

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

<u>2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)</u>				
Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM	
M.S INGOTS/STEEL BILLETS	0.5	0.6	CMD	

<u>3) Raw Material Consumption (Consumption of raw material per unit of product)</u>				
Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM	
MS SCRAP, SPONG IRON AND PIG IRON	36107	39397.280	MT/A	

<u>4) Fuel Consumption</u>			
Fuel Name	Consent quantity	Actual Quantity	UOM
ELECTRICITY	00	55096.797	Mwh

Part-C

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

<u>[B] Air (Stack)</u>					
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	62	00	150	00
SO2`	00	29	00	80	00

Part-D

<u>HAZARDOUS WASTES</u>			
<u>1) From Process</u>			
Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM

2) From Pollution Control Facilities

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

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
SLAG	3516	3573.450	MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
00	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	CMD	00`

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
SLAG	3573.450	MT/A	00

Part-G

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

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
NA	00	00	00	00	00	00

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.
[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
---	-----------------------------------	----------------------------

[B] Investment Proposed for next Year

<i>Detail of measures for Environmental Protection</i>	<i>Environmental Protection Measures</i>	<i>Capital Investment (Lacks)</i>
O&M APC AND STP PLANT	ENVIRONMENTAL COMPLIANCES	18

Part-I

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

ADOPTION IN NEW TECHNIQS FOR POLLUTION CONTROL SYSTEM, SAFETY TRAININGS TO EMPLOYEES AND THEIR SAFTERY GREEN BELT DEVELOPMENT.

Name & Designation

ANKUSH SINGLA (DIRECTOR)

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000046290

Submitted On:

20-09-2022



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

Form 4

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

FORM FOR FILING ANNUAL RETURNS

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

Unique Application Number:

MPCB-HW_ANNUAL_RETURN-0000030751

Submitted On:

30-06-2022

Submitted for Year:

April 2021 to March 2022

1. Name of the generator/operator of facility

M/s.Nilanjan Iron Pvt. Ltd.

Address of the unit/facility

Plot No. B-07,Kagal 5 Star MIDC, Tal. Kagal, Dist. Kolhapur

1b. Authorization Number

RO-KOLHAPUR/CONSENT/1803000346/079/18

Date of issue

Mar 7, 2018

Date of validity of consent

Dec 31, 2023

2. Name of the authorised person

ANKUSH SINGLA

Full address of authorised person

PLOT NO.94, MUKT SAINIK VASAHAT, KOLHAPUR

Telephone

02316615914

Fax

00

Email

nilanjan.iron7@gmail.com

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

Product Type *	Product Name *	Consented Quantity	Actual Quantity	UOM
Iron & Steel	MS BILLETS	36000.0000	35620	MT/A

PART A: To be filled by hazardous waste generators

1. Total Quantity of waste generated category wise

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

2. Quantity dispatched category wise.

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

3. Quantity Utilised in-house,If any

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

4. Quantity in storage at the end of the year

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

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

1.Total Quantity received

NA

UOM

KL/Anum

State Name

Maharashtra

2. Quantity in stock at the beginning of the year

UOM

NA	KL/Anum
3. Quantity treated	UOM
NA	KL/Anum
4. Quantity disposed in landfills as such and after treatment	
Direct landfilling	UOM
00	KL/Anum
Landfill after treatment	UOM
00	KL/Anum
5. Quantity incinerated (if applicable)	UOM
00	KL/Anum
6. Quantiry processed other than specified above	UOM
NA	KL/Anum
7. Quantity in storage at the end of the year.	UOM
NA	KL/Anum

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

1. Quantity of waste received during the year					
Waste Name/Category	Country Name	State Name	Quantity of waste received from domestic sources	Quantity of waste imported(If any)	Units
SPONGE IRON/ M S SCRAP	India	Maharashtra	39303.97	00	MTA
2. Quantity in stock at the beginning of the year					
Waste Name/Category			Quantity	UOM	
SPONGE IRON/ M S SCRAP			2527.265	MTA	
3. Quantity of waste recycled or co-procesed or used					
Name of Waste		Type of Waste	Quantity	UOM	
SPONGE IRON/ M S SCRAP		SPONGE IRON/ M S SCRAP	39303.97	MTA	
4. Quantity of products dispatched (wherever applicable)					
Name of product			Quantity	UOM	
MS BILLETS			35780.430	MTA	
5. Total quantity of waste generated					
Waste name/category			quantity	UOM	
SLAG			3683.97	MTA	
6. Total quantity of waste disposed					
Waste name/category			quantity	UOM	
SLAG			3683.97	MTA	
7. Total quantity of waste re-exported (If Applicable)					
Waste name/category			quantity	UOM	
NA			00	MTA	
8. Quantity in storage at the end of the year					
Waste name/category			quantity	UOM	
MS BILLETS			126.442	MTA	
Personal Details					
Place		Date	Designation		
KOLHAPUR		2022-06-29	DIRECTOR		



AGMARK



RAJAS LABORATORIES

Recognized by AGMARK, MoEF & CC Government of India,
ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 Certified

Registered Laboratory for Soil testing under Agriculture Department, Maharashtra State.



TEST REPORT

RL-R20-01B

Report No.: RL/TR/2022/10-208

Issue Date: 07/11/2022

Name of Customer: M/S. NILANJAN IRON PVT. LTD

SAMPLE REFERENCE**Address of Customer:**Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216.
Mobile- 9970788278
GSTIN- 27AACCN1645H1ZKSample Type **Ambient air quality monitoring**

Your Reference Verbal

Reference Date -

Sample ID -

Sampling Plan Reference No.: 08/10

Sample Location Near Main Gate

Date & Time of Sampling: 29th & 30th September 2022, 11.15 AM

Latitude -

Codification No: RLC-10/193

Longitude -

ENVIRONMENTAL CONDITIONS:Sample Collected By **RAJAS LABORATORIES**

Min. Temperature 23°C

Min. Rel. Humidity 62.0%

Max. Temperature 29°C

Max. Rel. Humidity 79.0%

Sample Received On: 30/09/2022

Analysis Start On: 30/09/2022

Completion of Analysis: 10/10/2022

Sr. No.	Parameters	Result	Unit	Standard Values as per NAAQMS	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Ambient Air)					
1.	Sulfur Dioxide (SO ₂)	12.38	µg/m ³	80	IS 5182 (Part 2):2001
2.	Oxides of Nitrogen (NO _x)	16.97	µg/m ³	80	IS 5182 (Part 6):2006
3.	Particulate Matter 10 (µ) (PM 10)	69.84	µg/m ³	100	IS 5182 (Part 23):2006
4.	Particulate Matter 2.5 (µ) (PM 2.5)	20.23	µg/m ³	60	CPCB Guidelines: NAAQMS/36/2012-13
5.	Ozone (O ₃)	718	µg/m ³	100	IS 5182 (Part 9):1974
6.	Ammonia (NH ₃)	11.56	µg/m ³	400	CPCB Guidelines: NAAQMS/36/2012-13
7.	Benzene (C ₆ H ₆)	BDL [DL = 0.1]	µg/m ³	5	IS 5182 (Part 11):2006
8.	Benzo-a-pyrene (BaP)	BDL [DL = 0.5]	ng/m ³	1	CPCB Guidelines: NAAQMS/36/2012-13
9.	Carbon Monoxide (CO)	0.70	mg/m ³	4	IS 5182 (Part 10):1999
10.	Lead (Pb)	BDL [DL = 0.1]	µg/m ³	1	IS 5182 (Part 22):2004
11.	Arsenic (As)	BDL [DL = 2]	ng/m ³	6	CPCB Guidelines: NAAQMS/36/2012-13
12.	Nickel (Ni)	BDL [DL = 5]	ng/m ³	20	CPCB Guidelines: NAAQMS/36/2012-13

BDL = Below Detection Limit, DL = Detection Limit

Remark (If Any): With respect to above parameters, sample conforms to the standard values as per NAAQMS.

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/RDS/C-111	Asha Enviro	Valid Up to 04/07/2023
02.	RL/INS/FDS/C-110	Asha Enviro	Valid Up to 04/07/2023

Terms & Conditions:

- The above results pertain only to the sample tested.
- This certificate in full or in part shall not be used for advertising or legal action.
- Test Report cannot be re-produced except in full, without the written permission from the Laboratory.
- The sample will be destroyed after 5 days & 1 month from the date of issue of test report for perishable & nonperishable items respectively.
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Reviewed By

Kshitij Tamhane (TM Env.)
Authorized Signatory

Authorized By

Raju Ghule (LMR)
Authorized Signatory



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TEST REPORT

RL-R20-01B

Report No.: RL/TR/2022/10-209

Issue Date: 07/11/2022

Name of Customer: M/S. NILANJAN IRON PVT. LTD

Address of Customer:

Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216.

Mobile- 9970788278

GSTIN- 27AACCN1645H1ZK

Sampling Plan Reference No.: 08/10

Date & Time of Sampling: 27th & 28th October 2022, 12:00 PM

Codification No: RLC-10/194

ENVIRONMENTAL CONDITIONS:

Min. Temperature 23°C

Max. Temperature 29°C

Sample Received On: 29/10/2022

Analysis Start On: 29/10/2022

SAMPLE REFERENCE

Sample Type

Ambient air quality monitoring

Your Reference

Verbal

Reference Date

-

Sample ID

-

Sample Location

Furnace Shed

Latitude

-

Longitude

-

Sample Collected By

RAJAS LABORATORIES

Min. Rel. Humidity

34.0%

Max. Rel. Humidity

47.0%

Completion of Analysis: 07/11/2022

Sr. No.	Parameters	Result	Unit	Standard Values as per NAAQMS	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Ambient Air)					
1.	Sulfur Dioxide (SO ₂)	10.55	µg/m ³	80	IS 5182 (Part 2):2001
2.	Oxides of Nitrogen (NO _x)	16.78	µg/m ³	80	IS 5182 (Part 6):2006
3.	Particulate Matter 10 (µ) (PM 10)	78.54	µg/m ³	100	IS 5182 (Part 23):2006
4.	Particulate Matter 2.5 (µ) (PM 2.5)	30.12	µg/m ³	60	CPCB Guidelines: NAAQMS/36/2012-13
5.	Ozone (O ₃)	9.47	µg/m ³	100	IS 5182 (Part 9):1974
6.	Ammonia (NH ₃)	12.44	µg/m ³	400	CPCB Guidelines: NAAQMS/36/2012-13
7.	Benzene (C ₆ H ₆)	BDL [DL = 0.1]	µg/m ³	5	IS 5182 (Part 11):2006
8.	Benzo-a-pyrene (BaP)	BDL [DL = 0.5]	ng/m ³	1	CPCB Guidelines: NAAQMS/36/2012-13
9.	Carbon Monoxide (CO)	0.59	mg/m ³	4	IS 5182 (Part 10):1999
10.	Lead (Pb)	BDL [DL = 0.1]	µg/m ³	1	IS 5182 (Part 22):2004
11.	Arsenic (As)	BDL [DL = 2]	ng/m ³	6	CPCB Guidelines: NAAQMS/36/2012-13
12.	Nickel (Ni)	BDL [DL = 5]	ng/m ³	20	CPCB Guidelines: NAAQMS/36/2012-13

BDL = Below Detection Limit, DL = Detection Limit

Remark (If Any): With respect to above parameters, sample conforms to the standard values as per NAAQMS.

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/RDS/C-109	Asha Enviro	Valid Up to 04/07/2023
02.	RL/INS/FDS/C-112	Asha Enviro	Valid Up to 04/07/2023

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Reviewed By

Kshitij Tamhane (TM Env.)
Authorized Signatory

Authorised By

Raju Ghule (LMR)
Authorized Signatory



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TEST REPORT

RL-R20-01B

Report No.: RL/TR/2022/10-210	Issue Date: 07/11/2022
Name of Customer: M/S. NILANJAN IRON PVT. LTD	SAMPLE REFERENCE
Address of Customer: Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216. Mobile- 9970788278 GSTIN- 27AACCN1645H1ZK	Sample Type: Ambient air quality monitoring
Sampling Plan Reference No.: 08/10	Your Reference: Verbal
Date & Time of Sampling: 27 th & 28 th October 2022, 12:30 PM	Reference Date: -
Codification No: RLC-10/195	Sample ID: -
ENVIRONMENTAL CONDITIONS:	Sample Location: CCM Shed
Min. Temperature: 25°C	Latitude: -
Max. Temperature: 31°C	Longitude: -
Sample Received On: 29/10/2022	Sample Collected By: RAJAS LABORATORIES
Analysis Start On: 29/10/2022	Min. Rel. Humidity: 30.0%
Completion of Analysis: 07/11/2022	Max. Rel. Humidity: 45.0%

Sr. No.	Parameters	Result	Unit	Standard Values as per NAAQMS	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Ambient Air)					
1.	Sulfur Dioxide (SO ₂)	12.29	µg/m ³	80	IS 5182 (Part 2):2001
2.	Oxides of Nitrogen (NO _x)	20.44	µg/m ³	80	IS 5182 (Part 6):2006
3.	Particulate Matter 10 (µ) (PM 10)	74.21	µg/m ³	100	IS 5182 (Part 23):2006
4.	Particulate Matter 2.5 (µ) (PM 2.5)	28.69	µg/m ³	60	CPCB Guidelines: NAAQMS/36/2012-13
5.	Ozone (O ₃)	5.22	µg/m ³	100	IS 5182 (Part 9):1974
6.	Ammonia (NH ₃)	14.79	µg/m ³	400	CPCB Guidelines: NAAQMS/36/2012-13
7.	Benzene (C ₆ H ₆)	BDL [DL = 0.1]	µg/m ³	5	IS 5182 (Part 11):2006
8.	Benzo-a-pyrene (BaP)	BDL [DL = 0.5]	ng/m ³	1	CPCB Guidelines: NAAQMS/36/2012-13
9.	Carbon Monoxide (CO)	0.45	mg/m ³	4	IS 5182 (Part 10):1999
10.	Lead (Pb)	BDL [DL = 0.1]	µg/m ³	1	IS 5182 (Part 22):2004
11.	Arsenic (As)	BDL [DL = 2]	ng/m ³	6	CPCB Guidelines: NAAQMS/36/2012-13
12.	Nickel (Ni)	BDL [DL = 5]	ng/m ³	20	CPCB Guidelines: NAAQMS/36/2012-13

BDL = Below Detection Limit, DL = Detection Limit

Remark (If Any): With respect to above parameters, sample conforms to the standard values as per NAAQMS.

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/RDS/C-107	Asha Enviro	Valid Up to 04/07/2023
02.	RL/INS/FDS/C-108	Asha Enviro	Valid Up to 04/07/2023

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Reviewed By

Kshitij Tamhane (TM Env.)
Authorized Signatory



Authorised By

Raju Ghule (LMR)
Authorized Signatory

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TEST REPORT

RL-R20-01C

Report No.: RL/TR/2022/10-211		Issue Date: 07/11/2022	
Name of Customer: M/S. NILANJAN IRON PVT. LTD		SAMPLE REFERENCE	
Address of Customer: Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216. Mobile- 9970788278 GSTIN- 27AACCN1645H1ZK		Sample Type	Stack Emission Monitoring
		Your Reference	Verbal
		Reference Date	-
		Sample ID	-
		Sample Location	Furnace Stack
Sampling Plan Reference No.: 08/10		Latitude	-
Date & Time of Sampling: 27 th October 2022, 01:00 PM		Longitude	-
Codification No: RLC-10/196		Sample Collected By	RAJAS LABORATORIES
STACK DETAILS:		Stack Material	MS
Stack ID	1	Fuel Consumption	-
Stack Height	35 Meters	Flue Gas Temperature	95.0°C
Stack Fuel	-	Flue Gas Velocity	3.8 m/s
Sample Received On: 29/10/2022	Analysis Start On: 29/10/2022	Completion of Analysis: 07/11/2022	

Sr. No.	Parameters	Result	Unit	Standard Values as per MPCB Consent	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Stack Emission)					
1.	Sulfur Dioxide (SO ₂)	1.28	ppm	Not to exceed 80 ppm	IS 11255 (Part 2) : 1985
2.	Total Particulate Matter (TPM)	49.85	mg/Nm ³	Not to exceed 150 mg/Nm ³	IS 11255 (Part 1) : 1985
3.	Oxides of Nitrogen (NO _x)	3.05	ppm	Not to exceed 80 ppm	IS 11255 (Part 7) : 2005

Remark (If Any): The above parameters are within MPCB limits.

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/STK/C-95	Asha Enviro	Valid Up to 04/07/2023

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TEST REPORT

RL-R20-01D

Report No.: RL/TR/2022/10-212	Issue Date: 07/11/2022
Name of Customer: M/S. NILANJAN IRON PVT. LTD	SAMPLE REFERENCE
Address of Customer: Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216. Mobile- 9970788278 GSTIN- 27AACCN1645H1ZK	Sample Type: Ambient noise level monitoring
	Codification No: RLC-10/197
	Your Reference: Verbal
	Reference Date: -
	Sample ID: -
	Sample Location: -
Sampling Plan Reference No.: 08/10	Latitude: -
Date & Time of Sampling: 27 th & 28 th October 2022, 02:00 PM	Longitude: -
Sample Collected By: RAJAS LABORATORIES	
Sample Received On: 29/10/2022	Analysis Start On: 29/10/2022
	Completion of Analysis: 07/11/2022

Sr. No.	Parameters	Result	Unit	Standard Values as per general CPCB guidelines	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Ambient Noise Levels -Excluding vibration)					
DAY					CPCB's Protocol for Ambient Noise Level Monitoring:2015
1.	Main Gate	70.5	dB(A)	75	
2.	Admin Office	65.3			
NIGHT					
1.	Main Gate	63.4	dB(A)	70	
2.	Admin Office	52.1			

Remark (If Any): Above readings conforms to standard values as per CPCB guidelines.

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/NM/C-97	HTC SL-1350	Valid Up to 04/07/2023

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TEST REPORT

RL-R20-01D

Report No.: RL/TR/2022/10-213	Issue Date: 07/11/2022
Name of Customer: M/S. NILANJAN IRON PVT. LTD	SAMPLE REFERENCE
Address of Customer: Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216. Mobile- 9970788278 GSTIN- 27AACCN1645H1ZK	Sample Type Work place noise monitoring
	Codification No RLC-10/198
	Your Reference Verbal
	Reference Date -
	Sample ID -
Sampling Plan Reference No.: 08/10	Latitude -
Date & Time of Sampling: 28 th October 2022, 11:00 AM	Longitude -
Sample Collected By: RAJAS LABORATORIES	
Sample Received On: 29/10/2022	Analysis Start On: 29/10/2022
	Completion of Analysis: 07/11/2022

Sr. No.	Parameters	Result	Unit	Standard Values as per general CPCB guidelines	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Ambient Noise Levels -Excluding vibration)					
1.	Furnace Shed	69.5	dB(A)	90	RL-SOP-C-34, Ver.001, Issue Date 01 April:2022
2.	Casting Area	61.2			
3.	Raw Material Handling Unit	65.6			

Remark (If Any):

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/NM/C-97	HTC SL-1350	Valid Up to 04/07/2023

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TEST REPORT

RL-R20-01A

Report No.: RL/TR/2022/10-214

Issue Date: 07/11/2022

Name of Customer: M/S. NILANJAN IRON PVT. LTD

Address of Customer:

Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur - 416216.

Mobile- 9970788278

GSTIN- 27AACCN1645H1ZK

Sampling Method: RL-MSP-P38

Sampling Plan: 08/10

Unique Identification of the item: NA.

Codification No: RLC- 10/199 & RLM-10/41

Sample Collected By: RAJAS LABORATORIES

Sample Received On: 29/10/2022

Analysis Start On: 29/10/2022

SAMPLE REFERENCE

Sample Name	MIDC Water
Nature of Sample	Colourless Clear Liquid
Brand Name	-
Batch No.	-
Sample Container	Plastic Container
Sample Quantity	Chemical-5 Liters
Mfg. Dt./Used By	-
Date of Sampling & Time	28/10/2022, 10:15 AM
Location of Sampling	Project Site
Environmental Condition	Stored at 2-8°C
Expiry Date	-
Mfg. By: -	
Completion of Analysis:	07/11/2022

Sr. No.	Parameters	Results	Standard Values	Unit	Analysis Method
Chemical Testing- 1.2.42. Water (Surface Water)					
1.	Colour	BDL [DL=1]	-	Hazen	IS 3025(Part 4):2021
2.	Temperature	23.6	-	°C	APHA 23 rd EDITION:2017
3.	pH at 25°C	7.25	-	-	IS 3025 (Part 11):1983 (Reaffirmed 2017)
4.	Calcium as Ca	34.59	-	mg/l	IS 3025 (Part 40):1991(Reaffirmed 2019)
5.	Magnesium as Mg	10.22	-	mg/l	APHA 23 rd EDITION:2017
6.	Chloride as Cl	50.47	-	mg/l	IS 3025 (Part 32): 1988 (Reaffirmed 2019)
7.	Total Alkalinity as CaCO ₃	138.15	-	mg/l	IS 3025 (Part 23): 1986 (Reaffirmed -2019)
8.	Total Dissolved Solid at 180°C	222.69	-	mg/l	IS 3025 (Part 16): 1984 (Reaffirmed 2017)
9.	Total Hardness as CaCO ₃	98.35	-	mg/l	IS 3025 (Part 21): 2009 (Reaffirmed 2019)
10.	Turbidity	BDL [DL=1]	-	NTU	IS 3025 (Part 10): 1984 (Reaffirmed 2017)
11.	Electrical Conductivity at 25°C	475.56	-	µS/cm	IS 3025 (Part 14):1984 (Reaffirmed 2019)
12.	Fluoride (as F)	BDL [DL=0.1]	-	mg/l	IS 3025(Part 60): 2008
13.	Sulphate (as SO ₄)	22.56	-	mg/l	IS 3025(Part 24):1986 (Reaffirmed 2009)
14.	Ammonia (as NH ₃)	BDL [DL=0.1]	-	mg/l	APHA 23 rd EDITION:2017 4500-NH ₃ C
15.	Nitrate (as NO ₃ ⁻)	BDL [DL=1]	-	mg/l	IS 3025(Part 34):1988 (Reaffirmed 2019)
16.	Nitrite (as NO ₂ ⁻)	BDL [DL=1]	-	mg/l	IS 3025(Part 34):1988 (Reaffirmed 2019)
17.	Phosphate (as PO ₄)	BDL [DL=1]	-	mg/l	IS 3025(Part 31):1988 (Reaffirmed 2021)
18.	Dissolved Oxygen	8.55	-	mg/l	APHA 23 rd EDITION:2017
19.	Calcium Hardness	42.14	-	mg/l	IS 3025 (Part 40):1991(Reaffirmed 2019)
20.	Phenolphthalein Alkalinity	BDL [DL=5]	-	mg/l	IS 3025 (Part 23): 1986 (Reaffirmed -2019)
21.	Sodium (as Na)	21.56	-	mg/l	IS 3025 (Part 45): 1993 (Reaffirmed -2019)
22.	Potassium (as K)	5.24	-	mg/l	IS 3025 (Part 45): 1993 (Reaffirmed -2019)
23.	Chemical Oxygen Demand (COD)	20.00	-	mg/l	IS 3025 (Part 58) (Reaffirmed - 2017)
24.	Biochemical Oxygen Demand (BOD)	3.50	-	mg/l	IS 3025 (Part 44) (Reaffirmed - 2019)
Biological Testing- 1.1.28. Water (Surface Water)					
1.	Total coliform	34	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)
2.	Faecal coliform	<2	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)
3.	E. coli	Absent	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)

Remark (If Any):

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Reviewed By

[Signature]
 Lomate (TM Chem) & Pawar (TM Micro)
 Authorized Signatory



Authorised By

[Signature]
 Raju Ghule (LMR)
 Authorized Signatory



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TEST REPORT

RL-R20-01A

Report No.: RL/TR/2022/10-215

Issue Date: 07/11/2022

Name of Customer: M/S. NILANJAN IRON PVT. LTD

Address of Customer:

Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur - 416216.

Mobile- 9970788278

GSTIN- 27AACCN1645H1ZK

Sampling Method: RL-MSP-P38

Sampling Plan: 08/10

Unique Identification of the item: NA.

Codification No: RLC- 10/200 & RLM-10/42

Sample Collected By: RAJAS LABORATORIES

Sample Received On: 29/10/2022

Analysis Start On: 29/10/2022

SAMPLE REFERENCE

Sample Name	Ground Water
Nature of Sample	Colourless Clear Liquid
Brand Name	-
Batch No.	-
Sample Container	Plastic Container
Sample Quantity	Chemical-5 Liters
Mfg. Dt./Used By	-
Date of Sampling & Time	28/10/2022, 11:55 AM
Location of Sampling	Halsavade Village
Environmental Condition	Stored at 2-8°C
Expiry Date	-
Mfg. By: -	

Completion of Analysis: 07/11/2022

Sr. No.	Parameters	Results	Standard Values	Unit	Analysis Method
Chemical Testing- 1.2.42. Water (Ground Water)					
1.	Colour	BDL [DL=1]	-	Hazen	IS 3025(Part 4):2021
2.	Temperature	24.1	-	°C	APHA 23 rd EDITION:2017
3.	pH at 25°C	7.30	-	-	IS 3025 (Part 11):1983 (Reaffirmed 2017)
4.	Calcium as Ca	51.22	-	mg/l	IS 3025 (Part 40):1991(Reaffirmed 2019)
5.	Magnesium as Mg	12.56	-	mg/l	APHA 23 rd EDITION:2017
6.	Chloride as Cl	98.54	-	mg/l	IS 3025 (Part 32): 1988 (Reaffirmed 2019)
7.	Total Alkalinity as CaCO ₃	120.96	-	mg/l	IS 3025 (Part 23): 1986 (Reaffirmed -2019)
8.	Total Dissolved Solid at 180°C	378.21	-	mg/l	IS 3025 (Part 16): 1984 (Reaffirmed 2017)
9.	Total Hardness as CaCO ₃	130.35	-	mg/l	IS 3025 (Part 21): 2009 (Reaffirmed 2019)
10.	Turbidity	BDL [DL=1]	-	NTU	IS 3025 (Part 10): 1984 (Reaffirmed 2017)
11.	Electrical Conductivity at 25°C	715.54	-	µS/cm	IS 3025 (Part 14):1984 (Reaffirmed 2019)
12.	Fluoride (as F)	BDL [DL=0.1]	-	mg/l	IS 3025(Part 60): 2008
13.	Sulphate (as SO ₄)	40.12	-	mg/l	IS 3025(Part 24):1986 (Reaffirmed 2009)
14.	Ammonia (as NH ₃)	BDL [DL=0.1]	-	mg/l	APHA 23 rd EDITION:2017 4500-NH ₃ C
15.	Nitrate (as NO ₃ ⁻)	1.22	-	mg/l	IS 3025(Part 34):1988 (Reaffirmed 2019)
16.	Nitrite (as NO ₂ ⁻)	BDL [DL=1]	-	mg/l	IS 3025(Part 34):1988 (Reaffirmed 2019)
17.	Phosphate (as PO ₄)	1.48	-	mg/l	IS 3025(Part 31):1988 (Reaffirmed 2021)
18.	Dissolved Oxygen	2.06	-	mg/l	APHA 23 rd EDITION:2017
19.	Calcium Hardness	68.52	-	mg/l	IS 3025 (Part 40):1991(Reaffirmed 2019)
20.	Phenolphthalein Alkalinity	BDL [DL=5]	-	mg/l	IS 3025 (Part 23): 1986 (Reaffirmed -2019)
21.	Sodium (as Na)	32.41	-	mg/l	IS 3025 (Part 45): 1993 (Reaffirmed -2019)
22.	Potassium (as K)	5.50	-	mg/l	IS 3025 (Part 45): 1993 (Reaffirmed -2019)
23.	Chemical Oxygen Demand (COD)	23.00	-	mg/l	IS 3025 (Part 58) (Reaffirmed - 2017)
24.	Biochemical Oxygen Demand (BOD)	5.50	-	mg/l	IS 3025 (Part 44) (Reaffirmed - 2019)
Biological Testing- 1.1.28. Water (Ground Water)					
1.	Total coliform	160	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)
2.	Faecal coliform	<2	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)
3.	E. coli	Absent	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)

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[Signature]
Lomate (TM Chem) & Pawar (TM Micro)
Authorized Signatory

**Authorised By**

[Signature]
Raju Ghule (LMR)
Authorized Signatory



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TEST REPORT

RL-R20-01B

Report No.: RL/TR/2022/11-476	Issue Date: 30/11/2022
Name of Customer: M/S. NILANJAN IRON PVT. LTD	SAMPLE REFERENCE
Address of Customer: Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216. Mobile- 9970788278 GSTIN- 27AACCN1645H1ZK	Sample Type: Ambient air quality monitoring
Sampling Plan Reference No.: 06/11	Your Reference: Verbal
Date & Time of Sampling: 23 rd to 24 th November 2022, 09:15 AM	Reference Date: -
Codification No: RLC-11/467	Sample ID: -
ENVIRONMENTAL CONDITIONS:	Sample Location: Near Main Gate
Min. Temperature: 21°C	Latitude: -
Max. Temperature: 25°C	Longitude: -
Sample Received On: 24/11/2022	Sample Collected By: RAJAS LABORATORIES
Analysis Start On: 24/11/2022	Min. Rel. Humidity: 42.0%
Completion of Analysis: 30/11/2022	Max. Rel. Humidity: 59.0%

Sr. No.	Parameters	Result	Unit	Standard Values as per NAAQMS	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Ambient Air)					
1.	Sulfur Dioxide (SO ₂)	21.58	µg/m ³	80	IS 5182 (Part 2):2001
2.	Oxides of Nitrogen (NO _x)	32.69	µg/m ³	80	IS 5182 (Part 6):2006
3.	Particulate Matter 10 (µ) (PM 10)	91.47	µg/m ³	100	IS 5182 (Part 23):2006
4.	Particulate Matter 2.5 (µ) (PM 2.5)	42.58	µg/m ³	60	CPCB Guidelines: NAAQMS/36/2012-13
5.	Ozone (O ₃)	10.55	µg/m ³	100	IS 5182 (Part 9):1974
6.	Ammonia (NH ₃)	21.17	µg/m ³	400	CPCB Guidelines: NAAQMS/36/2012-13
7.	Benzene (C ₆ H ₆)	BDL [DL = 0.1]	µg/m ³	5	IS 5182 (Part 11):2006
8.	Benzo-a-pyrene (BaP)	BDL [DL = 0.5]	ng/m ³	1	CPCB Guidelines: NAAQMS/36/2012-13
9.	Carbon Monoxide (CO)	1.68	mg/m ³	4	IS 5182 (Part 10):1999
10.	Lead (Pb)	BDL [DL = 0.1]	µg/m ³	1	IS 5182 (Part 22):2004
11.	Arsenic (As)	BDL [DL = 2]	ng/m ³	6	CPCB Guidelines: NAAQMS/36/2012-13
12.	Nickel (Ni)	BDL [DL = 5]	ng/m ³	20	CPCB Guidelines: NAAQMS/36/2012-13

BDL = Below Detection Limit, DL = Detection Limit

Remark (If Any): With respect to above parameters, sample conforms to the standard values as per NAAQMS.

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/RDS/C-109	Asha Enviro	Valid Up to 04/07/2023
02.	RL/INS/FDS/C-112	Asha Enviro	Valid Up to 04/07/2023

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Kshitij Tamhane (TM Env.)
Authorized Signatory



Authorised By

Raju Ghule (LMR)
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TEST REPORT

RL-R20-01B

Report No.: RL/TR/2022/11-477

Issue Date: 30/11/2022

Name of Customer: M/S. NILANJAN IRON PVT. LTD

Address of Customer:

Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur - 416216.

Mobile- 9970788278

GSTIN- 27AACCN1645H1ZK

Sampling Plan Reference No.: 06/11

Date & Time of Sampling: 23rd to 24th November 2022, 10:00 AM

Codification No: RLC-11/468

ENVIRONMENTAL CONDITIONS:

Min. Temperature 22°C

Max. Temperature 28°C

Sample Received On: 24/11/2022

Analysis Start On: 24/11/2022

SAMPLE REFERENCE

Sample Type Ambient air quality monitoring

Your Reference Verbal

Reference Date -

Sample ID -

Sample Location Furnace Shed

Latitude -

Longitude -

Sample Collected By RAJAS LABORATORIES

Min. Rel. Humidity 44.0%

Max. Rel. Humidity 46.0%

Completion of Analysis: 30/11/2022

Sr. No.	Parameters	Result	Unit	Standard Values as per NAAQMS	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Ambient Air)					
1.	Sulfur Dioxide (SO ₂)	20.14	µg/m ³	80	IS 5182 (Part 2):2001
2.	Oxides of Nitrogen (NO _x)	27.85	µg/m ³	80	IS 5182 (Part 6):2006
3.	Particulate Matter 10 (µ) (PM 10)	89.71	µg/m ³	100	IS 5182 (Part 23):2006
4.	Particulate Matter 2.5 (µ) (PM 2.5)	35.35	µg/m ³	60	CPCB Guidelines: NAAQMS/36/2012-13
5.	Ozone (O ₃)	10.22	µg/m ³	100	IS 5182 (Part 9):1974
6.	Ammonia (NH ₃)	22.47	µg/m ³	400	CPCB Guidelines: NAAQMS/36/2012-13
7.	Benzene (C ₆ H ₆)	BDL [DL = 0.1]	µg/m ³	5	IS 5182 (Part 11):2006
8.	Benzo-a-pyrene (BaP)	BDL [DL = 0.5]	ng/m ³	1	CPCB Guidelines: NAAQMS/36/2012-13
9.	Carbon Monoxide (CO)	0.72	mg/m ³	4	IS 5182 (Part 10):1999
10.	Lead (Pb)	BDL [DL = 0.1]	µg/m ³	1	IS 5182 (Part 22):2004
11.	Arsenic (As)	BDL [DL = 2]	ng/m ³	6	CPCB Guidelines: NAAQMS/36/2012-13
12.	Nickel (Ni)	BDL [DL = 5]	ng/m ³	20	CPCB Guidelines: NAAQMS/36/2012-13

BDL = Below Detection Limit, DL = Detection Limit

Remark (If Any): With respect to above parameters, sample conforms to the standard values as per NAAQMS.

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/RDS/C-111	Asha Enviro	Valid Up to 04/07/2023
02.	RL/INS/FDS/C-110	Asha Enviro	Valid Up to 04/07/2023

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TEST REPORT

RL-R20-01B

Report No.: RL/TR/2022/11-478	Issue Date: 30/11/2022
Name of Customer: M/S. NILANJAN IRON PVT. LTD	SAMPLE REFERENCE
Address of Customer: Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216. Mobile- 9970788278 GSTIN- 27AACCN1645H1ZK	Sample Type: Ambient air quality monitoring
Sampling Plan Reference No.: 06/11	Your Reference: Verbal
Date & Time of Sampling: 23 rd to 24 th November 2022, 11:00 AM	Reference Date: -
Codification No: RLC-11/469	Sample ID: -
ENVIRONMENTAL CONDITIONS:	Sample Location: CCM Shed
Min. Temperature: 24°C	Latitude: -
Max. Temperature: 26°C	Longitude: -
Sample Received On: 24/11/2022	Sample Collected By: RAJAS LABORATORIES
Analysis Start On: 24/11/2022	Min. Rel. Humidity: 40.0%
Completion of Analysis: 30/11/2022	Max. Rel. Humidity: 51.0%

Sr. No.	Parameters	Result	Unit	Standard Values as per NAAQMS	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Ambient Air)					
1.	Sulfur Dioxide (SO ₂)	12.58	µg/m ³	80	IS 5182 (Part 2):2001
2.	Oxides of Nitrogen (NO _x)	24.19	µg/m ³	80	IS 5182 (Part 6):2006
3.	Particulate Matter 10 (µ) (PM 10)	74.55	µg/m ³	100	IS 5182 (Part 23):2006
4.	Particulate Matter 2.5 (µ) (PM 2.5)	32.69	µg/m ³	60	CPCB Guidelines: NAAQMS/36/2012-13
5.	Ozone (O ₃)	9.77	µg/m ³	100	IS 5182 (Part 9):1974
6.	Ammonia (NH ₃)	17.46	µg/m ³	400	CPCB Guidelines: NAAQMS/36/2012-13
7.	Benzene (C ₆ H ₆)	BDL [DL = 0.1]	µg/m ³	5	IS 5182 (Part 11):2006
8.	Benzo-a-pyrene (BaP)	BDL [DL = 0.5]	ng/m ³	1	CPCB Guidelines: NAAQMS/36/2012-13
9.	Carbon Monoxide (CO)	0.63	mg/m ³	4	IS 5182 (Part 10):1999
10.	Lead (Pb)	BDL [DL = 0.1]	µg/m ³	1	IS 5182 (Part 22):2004
11.	Arsenic (As)	BDL [DL = 2]	ng/m ³	6	CPCB Guidelines: NAAQMS/36/2012-13
12.	Nickel (Ni)	BDL [DL = 5]	ng/m ³	20	CPCB Guidelines: NAAQMS/36/2012-13

BDL = Below Detection Limit, DL = Detection Limit

Remark (If Any): With respect to above parameters, sample conforms to the standard values as per NAAQMS.

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/RDS/C-107	Asha Enviro	Valid Up to 04/07/2023
02.	RL/INS/FDS/C-108	Asha Enviro	Valid Up to 04/07/2023

Terms & Conditions:

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TEST REPORT

RL-R20-01C

Report No.: RL/TR/2022/11-479	Issue Date: 30/11/2022
Name of Customer: M/S. NILANJAN IRON PVT. LTD	SAMPLE REFERENCE
Address of Customer: Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216. Mobile- 9970788278 GSTIN- 27AACCN1645H1ZK	Sample Type
	Stack Emission Monitoring
	Your Reference
	Verbal
	Reference Date
	-
	Sample ID
	-
	Sample Location
	Furnace Stack
Sampling Plan Reference No.: 06/11	Latitude
Date & Time of Sampling: 23 rd November 2022, 11:30 AM	Longitude
Codification No: RLC-11/470	-
STACK DETAILS:	Sample Collected By
	RAJAS LABORATORIES
	Stack Material
	MS
Stack ID	Fuel Consumption
1	-
Stack Height	Flue Gas Temperature
35 Meters	102.5°C
Stack Fuel	Flue Gas Velocity
-	2.7 m/s
Sample Received On: 24/11/2022	Completion of Analysis: 30/11/2022
Analysis Start On: 24/11/2022	

Sr. No.	Parameters	Result	Unit	Standard Values as per MPCB Consent	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Stack Emission)					
1.	Sulfur Dioxide (SO ₂)	2.35	ppm	Not to exceed 80 ppm	IS 11255 (Part 2) : 1985
2.	Total Particulate Matter (TPM)	41.22	mg/Nm ³	Not to exceed 150 mg/Nm ³	IS 11255 (Part 1) : 1985
3.	Oxides of Nitrogen (NO _x)	3.42	ppm	Not to exceed 80 ppm	IS 11255 (Part 7) : 2005

Remark (If Any): The above parameters are within MPCB limits.

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/STK/C-95	Asha Enviro	Valid Up to 04/07/2023

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TEST REPORT

RL-R20-01D

Report No.: RL/TR/2022/11-480	Issue Date: 30/11/2022
Name of Customer: M/S. NILANJAN IRON PVT. LTD	SAMPLE REFERENCE
Address of Customer: Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216. Mobile- 9970788278 GSTIN- 27AACCN1645H1ZK	Sample Type: Ambient noise level monitoring
	Codification No: RLC-11/471
	Your Reference: Verbal
	Reference Date: -
	Sample ID: -
	Sample Location: -
Sampling Plan Reference No.: 06/11	Latitude: -
Date & Time of Sampling: 23 rd to 24 th November 2022, 11:45 AM	Longitude: -
Sample Collected By: RAJAS LABORATORIES	
Sample Received On: 24/11/2022	Analysis Start On: 24/11/2022
	Completion of Analysis: 30/11/2022

Sr. No.	Parameters	Result	Unit	Standard Values as per general CPCB guidelines	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Ambient Noise Levels -Excluding vibration)					
DAY					CPCB's Protocol for Ambient Noise Level Monitoring:2015
1.	Main Gate	71.5	dB(A)	75	
2.	Admin Office	62.3			
NIGHT					
1.	Main Gate	61.8	dB(A)	70	
2.	Admin Office	59.7			

Remark (If Any): Above readings conforms to standard values as per CPCB guidelines.

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/NM/C-97	HTC SL-1350	Valid Up to 04/07/2023

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TEST REPORT

RL-R20-01D

Report No.: RL/TR/2022/11-481	Issue Date: 30/11/2022
Name of Customer: M/S. NILANJAN IRON PVT. LTD	SAMPLE REFERENCE
Address of Customer: Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216. Mobile- 9970788278 GSTIN- 27AACCN1645H1ZK	Sample Type Work place noise monitoring
	Codification No RLC-11/472
	Your Reference Verbal
	Reference Date -
	Sample ID -
Sampling Plan Reference No.: 06/11	Latitude -
Date & Time of Sampling: 23 rd to 24 th November 2022, 12:30 PM	Longitude -
Sample Collected By: RAJAS LABORATORIES	
Sample Received On: 24/11/2022	Analysis Start On: 24/11/2022
	Completion of Analysis: 30/11/2022

Sr. No.	Parameters	Result	Unit	Standard Values as per general CPCB guidelines	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Ambient Noise Levels -Excluding vibration)					
1.	Furnace Shed	71.2	dB(A)	90	RL-SOP-C-34, Ver.001, Issue Date 01 April:2022
2.	Casting Area	72.5			
3.	Raw Material Handling Unit	69.6			

Remark (If Any):

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/NM/C-97	HTC SL-1350	Valid Up to 04/07/2023

Terms & Conditions:

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TEST REPORT

RL-R20-01A

Report No.: RL/TR/2022/11-482

Issue Date: 30/11/2022

Name of Customer: M/S. NILANJAN IRON PVT. LTD

Address of Customer:

Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur - 416216.

Mobile- 9970788278

GSTIN- 27AACCN1645H1ZK

SAMPLE REFERENCE

Sample Name	MIDC Water
Nature of Sample	Colourless Clear Liquid
Brand Name	-
Batch No.	-
Sample Container	Plastic Container
Sample Quantity	Chemical-5 Liters
Mfg. Dt./Used By	-

Sampling Method: RL-MSP-P38

Sampling Plan: 06/11

Unique Identification of the item: NA.

Codification No: RLC- 11/473 & RLM-11/99

Sample Collected By: RAJAS LABORATORIES

Date of Sampling & Time: 24/11/2022, 09:30 AM

Location of Sampling: Project Site

Environmental Condition: Stored at 2-8°C

Expiry Date: -

Mfg. By: -

Sample Received On: 24/11/2022

Analysis Start On: 24/11/2022

Completion of Analysis: 30/11/2022

Sr. No.	Parameters	Results	Standard Values	Unit	Analysis Method
Chemical Testing- 1.2.42. Water (Surface Water)					
1.	Colour	BDL [DL=1]	-	Hazen	IS 3025(Part 4):2021
2.	Temperature	25.2	-	°C	APHA 23 rd EDITION:2017
3.	pH at 25°C	7.59	-	-	IS 3025 (Part 11):1983 (Reaffirmed 2017)
4.	Calcium as Ca	33.92	-	mg/l	IS 3025 (Part 40):1991(Reaffirmed 2019)
5.	Magnesium as Mg	25.44	-	mg/l	APHA 23 rd EDITION:2017
6.	Chloride as Cl	51.34	-	mg/l	IS 3025 (Part 32): 1988 (Reaffirmed 2019)
7.	Total Alkalinity as CaCO ₃	184.92	-	mg/l	IS 3025 (Part 23): 1986 (Reaffirmed -2019)
8.	Total Dissolved Solid at 180°C	292.00	-	mg/l	IS 3025 (Part 16): 1984 (Reaffirmed 2017)
9.	Total Hardness as CaCO ₃	190.80	-	mg/l	IS 3025 (Part 21): 2009 (Reaffirmed 2019)
10.	Turbidity	BDL [DL=1]	-	NTU	IS 3025 (Part 10): 1984 (Reaffirmed 2017)
11.	Electrical Conductivity at 25°C	415.96	-	µS/cm	IS 3025 (Part 14):1984 (Reaffirmed 2019)
12.	Fluoride (as F)	BDL [DL=0.1]	-	mg/l	IS 3025(Part 60): 2008
13.	Sulphate (as SO ₄)	97.63	-	mg/l	IS 3025(Part 24):1986 (Reaffirmed 2009)
14.	Ammonia (as NH ₃)	BDL [DL=0.1]	-	mg/l	APHA 23 rd EDITION:2017 4500-NH ₃ C
15.	Nitrate (as NO ₃ ⁻)	1.70	-	mg/l	IS 3025(Part 34):1988 (Reaffirmed 2019)
16.	Nitrite (as NO ₂ ⁻)	BDL [DL=1]	-	mg/l	IS 3025(Part 34):1988 (Reaffirmed 2019)
17.	Phosphate (as PO ₄)	1.22	-	mg/l	IS 3025(Part 31):1988 (Reaffirmed 2021)
18.	Dissolved Oxygen	2.92	-	mg/l	APHA 23 rd EDITION:2017
19.	Calcium Hardness	83.00	-	mg/l	IS 3025 (Part 40):1991(Reaffirmed 2019)
20.	Phenolphthalein Alkalinity	BDL [DL=5]	-	mg/l	IS 3025 (Part 23): 1986 (Reaffirmed -2019)
21.	Sodium (as Na)	21.44	-	mg/l	IS 3025 (Part 45): 1993 (Reaffirmed -2019)
22.	Potassium (as K)	5.39	-	mg/l	IS 3025 (Part 45): 1993 (Reaffirmed -2019)
23.	Chemical Oxygen Demand (COD)	30.00	-	mg/l	IS 3025 (Part 58) (Reaffirmed - 2017)
24.	Biochemical Oxygen Demand (BOD)	6.40	-	mg/l	IS 3025 (Part 44) (Reaffirmed - 2019)
Biological Testing- 1.1.28. Water (Surface Water)					
1.	Total coliform	18	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)
2.	Faecal coliform	<2	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)
3.	E. coli	Absent	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)

Remark (If Any):

Terms & Conditions:

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- MoEF & CC recognition valid till 15/01/2024.

Reviewed By

Lomate (TM Chem) & Pawar (TM Micro)
Authorized Signatory

Authorised By

Raju Ghule (LMR)
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TEST REPORT

RL-R20-01A

Report No.: RL/TR/2022/11-483

Issue Date: 30/11/2022

Name of Customer: M/S. NILANJAN IRON PVT. LTD

Address of Customer:

Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur - 416216.

Mobile- 9970788278

GSTIN- 27AACCN1645H1ZK

SAMPLE REFERENCE

Sample Name	Ground Water
Nature of Sample	Colourless Clear Liquid
Brand Name	-
Batch No.	-
Sample Container	Plastic Container
Sample Quantity	Chemical-5 Liters
Mfg. Dt./Used By	-
Date of Sampling & Time	24/11/2022, 10:15 AM
Location of Sampling	Halsavade Village
Environmental Condition	Stored at 2-8°C
Expiry Date	-
Mfg. By: -	-

Sampling Method: RL-MSP-P38

Sampling Plan: 06/11

Unique Identification of the item: NA.

Codification No: RLC- 11/474 & RLM-11/100

Sample Collected By: RAJAS LABORATORIES

Sample Received On: 24/11/2022

Analysis Start On: 24/11/2022

Completion of Analysis: 30/11/2022

Sr. No.	Parameters	Results	Standard Values	Unit	Analysis Method
Chemical Testing- 1.2.42. Water (Ground Water)					
1.	Colour	BDL [DL=1]	-	Hazen	IS 3025(Part 4):2021
2.	Temperature	24.8	-	°C	APHA 23 rd EDITION:2017
3.	pH at 25°C	7.90	-	-	IS 3025 (Part 11):1983 (Reaffirmed 2017)
4.	Calcium as Ca	38.56	-	mg/l	IS 3025 (Part 40):1991(Reaffirmed 2019)
5.	Magnesium as Mg	19.66	-	mg/l	APHA 23 rd EDITION:2017
6.	Chloride as Cl	145.22	-	mg/l	IS 3025 (Part 32): 1988 (Reaffirmed 2019)
7.	Total Alkalinity as CaCO ₃	137.89	-	mg/l	IS 3025 (Part 23): 1986 (Reaffirmed -2019)
8.	Total Dissolved Solid at 180°C	325.74	-	mg/l	IS 3025 (Part 16): 1984 (Reaffirmed 2017)
9.	Total Hardness as CaCO ₃	162.50	-	mg/l	IS 3025 (Part 21): 2009 (Reaffirmed 2019)
10.	Turbidity	BDL [DL=1]	-	NTU	IS 3025 (Part 10): 1984 (Reaffirmed 2017)
11.	Electrical Conductivity at 25°C	631.59	-	µS/cm	IS 3025 (Part 14):1984 (Reaffirmed 2019)
12.	Fluoride (as F)	BDL [DL=0.1]	-	mg/l	IS 3025(Part 60): 2008
13.	Sulphate (as SO ₄)	41.28	-	mg/l	IS 3025(Part 24):1986 (Reaffirmed 2009)
14.	Ammonia (as NH ₃)	BDL [DL=0.1]	-	mg/l	APHA 23 rd EDITION:2017 4500-NH ₃ C
15.	Nitrate (as NO ₃ ⁻)	1.25	-	mg/l	IS 3025(Part 34):1988 (Reaffirmed 2019)
16.	Nitrite (as NO ₂ ⁻)	BDL [DL=1]	-	mg/l	IS 3025(Part 34):1988 (Reaffirmed 2019)
17.	Phosphate (as PO ₄)	1.63	-	mg/l	IS 3025(Part 31):1988 (Reaffirmed 2021)
18.	Dissolved Oxygen	2.33	-	mg/l	APHA 23 rd EDITION:2017
19.	Calcium Hardness	57.00	-	mg/l	IS 3025 (Part 40):1991(Reaffirmed 2019)
20.	Phenolphthalein Alkalinity	BDL [DL=5]	-	mg/l	IS 3025 (Part 23): 1986 (Reaffirmed -2019)
21.	Sodium (as Na)	17.24	-	mg/l	IS 3025 (Part 45): 1993 (Reaffirmed -2019)
22.	Potassium (as K)	3.63	-	mg/l	IS 3025 (Part 45): 1993 (Reaffirmed -2019)
23.	Chemical Oxygen Demand (COD)	28.90	-	mg/l	IS 3025 (Part 58) (Reaffirmed - 2017)
24.	Biochemical Oxygen Demand (BOD)	5.00	-	mg/l	IS 3025 (Part 44) (Reaffirmed - 2019)
Biological Testing- 1.1.28. Water (Ground Water)					
1.	Total coliform	90	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)
2.	Faecal coliform	<2	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)
3.	E. coli	Absent	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)

Remark (If Any):

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- MoEF & CC recognition valid till 15/01/2024.

Reviewed By

Lomate (TM Chem) & Pawar (TM Micro)
Authorized Signatory



Authorised By

Raju Ghule (LMR)
Authorized Signatory

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TEST REPORT

RL-R20-01B

Report No.: RL/TR/2022/12-273		Issue Date: 31/12/2022	
Name of Customer: M/S. NILANJAN IRON PVT. LTD		SAMPLE REFERENCE	
Address of Customer: Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216. Mobile- 9970788278 GSTIN- 27AACCN1645H1ZK		Sample Type	Ambient air quality monitoring
		Your Reference	Verbal
		Reference Date	-
		Sample ID	-
Sampling Plan Reference No.: 10/12		Sample Location	Near Main Gate
Date & Time of Sampling: 26 th to 27 th December 2022, 09:30 AM		Latitude	-
Codification No: RLC-12/268		Longitude	-
ENVIRONMENTAL CONDITIONS:		Sample Collected By	RAJAS LABORATORIES
Min. Temperature	20°C	Min. Rel. Humidity	39.0%
Max. Temperature	24°C	Max. Rel. Humidity	45.0%
Sample Received On: 27/12/2022	Analysis Start On: 27/12/2022	Completion of Analysis: 31/12/2022	

Sr. No.	Parameters	Result	Unit	Standard Values as per NAAQMS	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Ambient Air)					
1.	Sulfur Dioxide (SO ₂)	27.25	µg/m ³	80	IS 5182 (Part 2):2001
2.	Oxides of Nitrogen (NO _x)	39.52	µg/m ³	80	IS 5182 (Part 6):2006
3.	Particulate Matter 10 (µ) (PM 10)	90.41	µg/m ³	100	IS 5182 (Part 23):2006
4.	Particulate Matter 2.5 (µ) (PM 2.5)	43.63	µg/m ³	60	CPCB Guidelines: NAAQMS/36/2012-13
5.	Ozone (O ₃)	11.22	µg/m ³	100	IS 5182 (Part 9):1974
6.	Ammonia (NH ₃)	23.69	µg/m ³	400	CPCB Guidelines: NAAQMS/36/2012-13
7.	Benzene (C ₆ H ₆)	BDL [DL = 0.1]	µg/m ³	5	IS 5182 (Part 11):2006
8.	Benzo-a-pyrene (BaP)	BDL [DL = 0.5]	ng/m ³	1	CPCB Guidelines: NAAQMS/36/2012-13
9.	Carbon Monoxide (CO)	1.84	mg/m ³	4	IS 5182 (Part 10):1999
10.	Lead (Pb)	BDL [DL = 0.1]	µg/m ³	1	IS 5182 (Part 22):2004
11.	Arsenic (As)	BDL [DL = 2]	ng/m ³	6	CPCB Guidelines: NAAQMS/36/2012-13
12.	Nickel (Ni)	BDL [DL = 5]	ng/m ³	20	CPCB Guidelines: NAAQMS/36/2012-13

BDL = Below Detection Limit, DL = Detection Limit

Remark (If Any): With respect to above parameters, sample conforms to the standard values as per NAAQMS.

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/RDS/C-107	Asha Enviro	Valid Up to 04/07/2023
02.	RL/INS/FDS/C-108	Asha Enviro	Valid Up to 04/07/2023

Terms & Conditions:

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- MoEF & CC recognition valid till 15/01/2024.

Reviewed By

Kshitij Tamhane (TM Env.)
Authorized Signatory

Authorised By

Raju Ghule (LMR)
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TEST REPORT

RL-R20-01B

Report No.: RL/TR/2022/12-274

Issue Date: 31/12/2022

Name of Customer: M/S. NILANJAN IRON PVT. LTD	SAMPLE REFERENCE	
Address of Customer: Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216. Mobile- 9970788278 GSTIN- 27AACCN1645H1ZK	Sample Type	Ambient air quality monitoring
Sampling Plan Reference No.: 10/12	Your Reference	Verbal
Date & Time of Sampling: 26 th to 27 th December 2022, 10:15 AM	Reference Date	-
Codification No: RLC-12/269	Sample ID	-
ENVIRONMENTAL CONDITIONS:	Sample Location	Furnace Shed
Min. Temperature	Latitude	-
Max. Temperature	Longitude	-
Sample Received On: 27/12/2022	Sample Collected By	RAJAS LABORATORIES
Analysis Start On: 27/12/2022	Min. Rel. Humidity	40.0%
Completion of Analysis: 31/12/2022	Max. Rel. Humidity	47.0%

Sr. No.	Parameters	Result	Unit	Standard Values as per NAAQMS	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Ambient Air)					
1.	Sulfur Dioxide (SO ₂)	19.41	µg/m ³	80	IS 5182 (Part 2):2001
2.	Oxides of Nitrogen (NO _x)	32.25	µg/m ³	80	IS 5182 (Part 6):2006
3.	Particulate Matter 10 (µ) (PM 10)	85.14	µg/m ³	100	IS 5182 (Part 23):2006
4.	Particulate Matter 2.5 (µ) (PM 2.5)	34.95	µg/m ³	60	CPCB Guidelines: NAAQMS/36/2012-13
5.	Ozone (O ₃)	9.15	µg/m ³	100	IS 5182 (Part 9):1974
6.	Ammonia (NH ₃)	21.96	µg/m ³	400	CPCB Guidelines: NAAQMS/36/2012-13
7.	Benzene (C ₆ H ₆)	BDL [DL = 0.1]	µg/m ³	5	IS 5182 (Part 11):2006
8.	Benzo-a-pyrene (BaP)	BDL [DL = 0.5]	ng/m ³	1	CPCB Guidelines: NAAQMS/36/2012-13
9.	Carbon Monoxide (CO)	0.77	mg/m ³	4	IS 5182 (Part 10):1999
10.	Lead (Pb)	BDL [DL = 0.1]	µg/m ³	1	IS 5182 (Part 22):2004
11.	Arsenic (As)	BDL [DL = 2]	ng/m ³	6	CPCB Guidelines: NAAQMS/36/2012-13
12.	Nickel (Ni)	BDL [DL = 5]	ng/m ³	20	CPCB Guidelines: NAAQMS/36/2012-13

BDL = Below Detection Limit, DL = Detection Limit

Remark (If Any): With respect to above parameters, sample conforms to the standard values as per NAAQMS.

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/RDS/C-109	Asha Enviro	Valid Up to 04/07/2023
02.	RL/INS/FDS/C-110	Asha Enviro	Valid Up to 04/07/2023

Terms & Conditions:

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- MoEF & CC recognition valid till 15/01/2024.

Reviewed By

Kshitij Tamhane (TM Env.)
Authorized Signatory

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Raju Ghule (LMR)
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TEST REPORT

RL-R20-01B

Report No.: RL/TR/2022/12-275

Issue Date: 31/12/2022

Name of Customer: M/S. NILANJAN IRON PVT. LTD

Address of Customer:

Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216.

Mobile- 9970788278

GSTIN- 27AACCN1645H1ZK

Sampling Plan Reference No.: 10/12

Date & Time of Sampling: 26th to 27th December 2022, 11:00 AM

Codification No: RLC-12/270

ENVIRONMENTAL CONDITIONS:

Min. Temperature 20°C

Max. Temperature 24°C

Sample Received On: 27/12/2022

Analysis Start On: 27/12/2022

SAMPLE REFERENCE

Sample Type Ambient air quality monitoring

Your Reference Verbal

Reference Date -

Sample ID -

Sample Location CCM Shed

Latitude -

Longitude -

Sample Collected By RAJAS LABORATORIES

Min. Rel. Humidity 38.0%

Max. Rel. Humidity 49.0%

Completion of Analysis: 31/12/2022

Sr. No.	Parameters	Result	Unit	Standard Values as per NAAQMS	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Ambient Air)					
1.	Sulfur Dioxide (SO ₂)	15.32	µg/m ³	80	IS 5182 (Part 2):2001
2.	Oxides of Nitrogen (NO _x)	35.52	µg/m ³	80	IS 5182 (Part 6):2006
3.	Particulate Matter 10 (µ) (PM 10)	79.01	µg/m ³	100	IS 5182 (Part 23):2006
4.	Particulate Matter 2.5 (µ) (PM 2.5)	36.17	µg/m ³	60	CPCB Guidelines: NAAQMS/36/2012-13
5.	Ozone (O ₃)	7.89	µg/m ³	100	IS 5182 (Part 9):1974
6.	Ammonia (NH ₃)	25.25	µg/m ³	400	CPCB Guidelines: NAAQMS/36/2012-13
7.	Benzene (C ₆ H ₆)	BDL [DL = 0.1]	µg/m ³	5	IS 5182 (Part 11):2006
8.	Benzo-a-pyrene (BaP)	BDL [DL = 0.5]	ng/m ³	1	CPCB Guidelines: NAAQMS/36/2012-13
9.	Carbon Monoxide (CO)	0.88	mg/m ³	4	IS 5182 (Part 10):1999
10.	Lead (Pb)	BDL [DL = 0.1]	µg/m ³	1	IS 5182 (Part 22):2004
11.	Arsenic (As)	BDL [DL = 2]	ng/m ³	6	CPCB Guidelines: NAAQMS/36/2012-13
12.	Nickel (Ni)	BDL [DL = 5]	ng/m ³	20	CPCB Guidelines: NAAQMS/36/2012-13

BDL = Below Detection Limit, DL = Detection Limit

Remark (If Any): With respect to above parameters, sample conforms to the standard values as per NAAQMS.

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/RDS/C-111	Asha Enviro	Valid Up to 04/07/2023
02.	RL/INS/FDS/C-112	Asha Enviro	Valid Up to 04/07/2023

Terms & Conditions:

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- MoEF & CC recognition valid till 15/01/2024.

Reviewed ByKshiti Tamhane (TM Env.)
Authorized SignatoryPage 1 Of 1
END OF REPORT**Authorised By**Raju Ghule (LMR)
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TEST REPORT

RL-R20-01C

Report No.: RL/TR/2022/12-276

Issue Date: 31/12/2022

Name of Customer: M/S. NILANJAN IRON PVT. LTD

Address of Customer:

Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216.

Mobile- 9970788278

GSTIN- 27AACCN1645H1ZK

Sampling Plan Reference No.: 10/12

Date & Time of Sampling: 26th December 2022, 11:30 AM

Codification No: RLC-12/271

STACK DETAILS:

Stack ID

1

Stack Height

35 Meters

Stack Fuel

-

Sample Received On: 27/12/2022

Analysis Start On: 27/12/2022

SAMPLE REFERENCE

Sample Type

Stack Emission Monitoring

Your Reference

Verbal

Reference Date

-

Sample ID

-

Sample Location

Furnace Stack

Latitude

-

Longitude

-

Sample Collected By

RAJAS LABORATORIES

Stack Material

MS

Fuel Consumption

-

Flue Gas Temperature

98.7°C

Flue Gas Velocity

4.2 m/s

Completion of Analysis: 31/12/2022

Sr. No.	Parameters	Result	Unit	Standard Values as per MPCB Consent	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Stack Emission)					
1.	Sulfur Dioxide (SO ₂)	1.28	ppm	Not to exceed 80 ppm	IS 11255 (Part 2) : 1985
2.	Total Particulate Matter (TPM)	51.28	mg/Nm ³	Not to exceed 150 mg/Nm ³	IS 11255 (Part 1) : 1985
3.	Oxides of Nitrogen (NO _x)	2.57	ppm	Not to exceed 80 ppm	IS 11255 (Part 7) : 2005

Remark (If Any): The above parameters are within MPCB limits.

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/STK/C-113	Asha Enviro	Valid Up to 04/07/2023

Terms & Conditions:

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- MoEF & CC recognition valid till 15/01/2024.

Reviewed By

Kshitij Tamhane (TM Env.)
Authorized Signatory



Authorised By

Raju Ghule (LMR)
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TEST REPORT

RL-R20-01D

Report No.: RL/TR/2022/12-277

Issue Date: 31/12/2022

Name of Customer: M/S. NILANJAN IRON PVT. LTD

SAMPLE REFERENCE**Address of Customer:**

Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216.

Mobile- 9970788278

GSTIN- 27AACCN1645H1ZK

Sample Type

Ambient noise level monitoring

Codification No

RLC-12/272

Your Reference

Verbal

Reference Date

-

Sample ID

-

Sample Location

-

Sampling Plan Reference No.: 10/12

Latitude

-

Date & Time of Sampling: 26th to 27th December 2022, 12:30 PM

Longitude

-

Sample Collected By: RAJAS LABORATORIES

Sample Received On: 27/12/2022

Analysis Start On: 27/12/2022

Completion of Analysis: 31/12/2022

Sr. No.	Parameters	Result	Unit	Standard Values as per general CPCB guidelines	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Ambient Noise Levels -Excluding vibration)					
DAY					CPCB's Protocol for Ambient Noise Level Monitoring:2015
1.	Main Gate	67.3	dB(A)	75	
2.	Admin Office	65.8			
NIGHT					
1.	Main Gate	60.7	dB(A)	70	
2.	Admin Office	52.1			

Remark (If Any): Above readings conforms to standard values as per CPCB guidelines.

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/NM/C-114	HTC SL-1350	Valid Up to 04/07/2023

Terms & Conditions:

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Reviewed By

Kshitij Tamhane (TM Env.)
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TEST REPORT

RL-R20-01D

Report No.: RL/TR/2022/12-278

Issue Date: 31/12/2022

Name of Customer: M/S. NILANJAN IRON PVT. LTD

SAMPLE REFERENCE**Address of Customer:**

Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216.

Mobile- 9970788278

GSTIN- 27AACCN1645H1ZK

Sample Type

Work place noise monitoring

Codification No

RLC-12/273

Your Reference

Verbal

Reference Date

-

Sample ID

-

Latitude

-

Longitude

-

Sampling Plan Reference No.: 10/12

Date & Time of Sampling: 26th December 2022, 02:00 PM

Sample Collected By: RAJAS LABORATORIES

Sample Received On: 27/12/2022

Analysis Start On: 27/12/2022

Completion of Analysis: 31/12/2022

Sr. No.	Parameters	Result	Unit	Standard Values as per general CPCB guidelines	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Ambient Noise Levels -Excluding vibration)					
1.	Furnace Shed	68.2	dB(A)	90	RL-SOP-C-34, Ver.001, Issue Date 01 April:2022
2.	Casting Area	61.9			
3.	Raw Material Handling Unit	65.1			

Remark (If Any):

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/NM/C-114	HTC SL-1350	Valid Up to 04/07/2023

Terms & Conditions:

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- MoEF & CC recognition valid till 15/01/2024.

Reviewed By

Kshitij Tamhane (TM Env.)
Authorized SignatoryPage 1 Of 1
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Authorised By

Raju Ghule (LMR)
Authorized Signatory



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Registered Laboratory for Soil testing under Agriculture Department, Maharashtra State.



TEST REPORT

RL-R20-01A

Report No.: RL/TR/2022/12-279

Issue Date: 31/12/2022

Name of Customer: M/S. NILANJAN IRON PVT. LTD

Address of Customer:

Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur - 416216.

Mobile- 9970788278

GSTIN- 27AACCN1645H1ZK

SAMPLE REFERENCE

Sample Name	MIDC Water
Nature of Sample	Colourless Clear Liquid
Brand Name	-
Batch No.	-
Sample Container	Plastic Container
Sample Quantity	Chemical-5 Liters
Mfg. Dt./Used By	-
Date of Sampling & Time	26/12/2022, 04:30 PM
Location of Sampling	Project Site
Environmental Condition	Stored at 2-8°C
Expiry Date	-
Mfg. By:	-

Sampling Method: RL-MSP-P38

Sampling Plan: 10/12

Unique Identification of the item: NA.

Codification No: RLC- 12/274 & RLM-12/97

Sample Collected By: RAJAS LABORATORIES

Sample Received On: 27/12/2022

Analysis Start On: 27/12/2022

Completion of Analysis: 31/12/2022

Sr. No.	Parameters	Results	Standard Values	Unit	Analysis Method
Chemical Testing- 1.2.42. Water (Surface Water)					
1.	Colour	BDL [DL=1]	-	Hazen	IS 3025(Part 4):2021
2.	Temperature	29.0	-	°C	APHA 23 rd EDITION:2017
3.	pH at 25°C	7.59	-	-	IS 3025 (Part 11):1983 (Reaffirmed 2017)
4.	Calcium as Ca	33.92	-	mg/l	IS 3025 (Part 40):1991(Reaffirmed 2019)
5.	Magnesium as Mg	25.44	-	mg/l	APHA 23 rd EDITION:2017
6.	Chloride as Cl	51.34	-	mg/l	IS 3025 (Part 32): 1988 (Reaffirmed 2019)
7.	Total Alkalinity as CaCO ₃	184.92	-	mg/l	IS 3025 (Part 23): 1986 (Reaffirmed -2019)
8.	Total Dissolved Solid at 180°C	292.00	-	mg/l	IS 3025 (Part 16): 1984 (Reaffirmed 2017)
9.	Total Hardness as CaCO ₃	190.80	-	mg/l	IS 3025 (Part 21): 2009 (Reaffirmed 2019)
10.	Turbidity	BDL [DL=1]	-	NTU	IS 3025 (Part 10): 1984 (Reaffirmed 2017)
11.	Electrical Conductivity at 25°C	415.96	-	µS/cm	IS 3025 (Part 14):1984 (Reaffirmed 2019)
12.	Fluoride (as F)	BDL [DL=0.1]	-	mg/l	IS 3025(Part 60): 2008
13.	Sulphate (as SO ₄)	97.63	-	mg/l	IS 3025(Part 24):1986 (Reaffirmed 2009)
14.	Ammonia (as NH ₃)	BDL [DL=0.1]	-	mg/l	APHA 23 rd EDITION:2017 4500-NH ₃ C
15.	Nitrate (as NO ₃ ⁻)	1.70	-	mg/l	IS 3025(Part 34):1988 (Reaffirmed 2019)
16.	Nitrite (as NO ₂ ⁻)	BDL [DL=1]	-	mg/l	IS 3025(Part 34):1988 (Reaffirmed 2019)
17.	Phosphate (as PO ₄)	1.22	-	mg/l	IS 3025(Part 31):1988 (Reaffirmed 2021)
18.	Dissolved Oxygen	2.92	-	mg/l	APHA 23 rd EDITION:2017
19.	Calcium Hardness	83.00	-	mg/l	IS 3025 (Part 40):1991(Reaffirmed 2019)
20.	Phenolphthalein Alkalinity	BDL [DL=5]	-	mg/l	IS 3025 (Part 23): 1986 (Reaffirmed -2019)
21.	Sodium (as Na)	21.44	-	mg/l	IS 3025 (Part 45): 1993 (Reaffirmed -2019)
22.	Potassium (as K)	5.39	-	mg/l	IS 3025 (Part 45): 1993 (Reaffirmed -2019)
23.	Chemical Oxygen Demand (COD)	30.00	-	mg/l	IS 3025 (Part 58): (Reaffirmed - 2017)
24.	Biochemical Oxygen Demand (BOD)	6.40	-	mg/l	IS 3025 (Part 44): (Reaffirmed - 2019)
Biological Testing- 1.1.28. Water (Surface Water)					
1.	Total coliform	40	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)
2.	Faecal coliform	<2	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)
3.	E. coli	Absent	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)

Remark (If Any):**Terms & Conditions:**

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- MoEF & CC recognition valid till 15/01/2024.

Reviewed By

[Signature]
Lomate (TM Chem) & Pawar (TM Micro)
Authorized Signatory

**Authorised By**

[Signature]
Raju Ghule (LMR)
Authorized Signatory



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TEST REPORT

RL-R20-01A

Report No.: RL/TR/2022/12-280

Issue Date: 31/12/2022

Name of Customer: M/S. NILANJAN IRON PVT. LTD

Address of Customer:

Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur - 416216.

Mobile- 9970788278

GSTIN- 27AACCN1645H1ZK

Sampling Method: RL-MSP-P38

Sampling Plan: 10/12

Unique Identification of the item: NA.

Codification No: RLC- 12/275 & RLM-12/98

Sample Collected By: RAJAS LABORATORIES

Sample Received On: 27/12/2022

Analysis Start On: 27/12/2022

SAMPLE REFERENCE

Sample Name	Ground Water
Nature of Sample	Colourless Clear Liquid
Brand Name	-
Batch No.	-
Sample Container	Plastic Container
Sample Quantity	Chemical-5 Liters
Mfg. Dt./Used By	-
Date of Sampling & Time	26/12/2022, 05:45 PM
Location of Sampling	Halsavade Village
Environmental Condition	Stored at 2-8°C
Expiry Date	-
Mfg. By: -	
Completion of Analysis:	31/12/2022

Sr. No.	Parameters	Results	Standard Values	Unit	Analysis Method
Chemical Testing- 1.2.42. Water (Ground Water)					
1.	Colour	BDL [DL=1]	-	Hazen	IS 3025(Part 4):2021
2.	Temperature	28.0	-	°C	APHA 23 rd EDITION:2017
3.	pH at 25°C	7.90	-	-	IS 3025 (Part 11):1983 (Reaffirmed 2017)
4.	Calcium as Ca	38.56	-	mg/l	IS 3025 (Part 40):1991(Reaffirmed 2019)
5.	Magnesium as Mg	19.66	-	mg/l	APHA 23 rd EDITION:2017
6.	Chloride as Cl	145.22	-	mg/l	IS 3025 (Part 32): 1988 (Reaffirmed 2019)
7.	Total Alkalinity as CaCO ₃	137.89	-	mg/l	IS 3025 (Part 23): 1986 (Reaffirmed -2019)
8.	Total Dissolved Solid at 180°C	325.74	-	mg/l	IS 3025 (Part 16): 1984 (Reaffirmed 2017)
9.	Total Hardness as CaCO ₃	162.50	-	mg/l	IS 3025 (Part 21): 2009 (Reaffirmed 2019)
10.	Turbidity	BDL [DL=1]	-	NTU	IS 3025 (Part 10): 1984 (Reaffirmed 2017)
11.	Electrical Conductivity at 25°C	631.59	-	µS/cm	IS 3025 (Part 14):1984 (Reaffirmed 2019)
12.	Fluoride (as F)	BDL [DL=0.1]	-	mg/l	IS 3025(Part 60): 2008
13.	Sulphate (as SO ₄)	41.28	-	mg/l	IS 3025(Part 24):1986 (Reaffirmed 2009)
14.	Ammonia (as NH ₃)	BDL [DL=0.1]	-	mg/l	APHA 23 rd EDITION:2017 4500-NH ₃ C
15.	Nitrate (as NO ₃ ⁻)	1.25	-	mg/l	IS 3025(Part 34):1988 (Reaffirmed 2019)
16.	Nitrite (as NO ₂ ⁻)	BDL [DL=1]	-	mg/l	IS 3025(Part 34):1988 (Reaffirmed 2019)
17.	Phosphate (as PO ₄)	1.63	-	mg/l	IS 3025(Part 31):1988 (Reaffirmed 2021)
18.	Dissolved Oxygen	2.33	-	mg/l	APHA 23 rd EDITION:2017
19.	Calcium Hardness	57.00	-	mg/l	IS 3025 (Part 40):1991(Reaffirmed 2019)
20.	Phenolphthalein Alkalinity	BDL [DL=5]	-	mg/l	IS 3025 (Part 23): 1986 (Reaffirmed -2019)
21.	Sodium (as Na)	17.24	-	mg/l	IS 3025 (Part 45): 1993 (Reaffirmed -2019)
22.	Potassium (as K)	3.63	-	mg/l	IS 3025 (Part 45): 1993 (Reaffirmed -2019)
23.	Chemical Oxygen Demand (COD)	28.90	-	mg/l	IS 3025 (Part 58) (Reaffirmed - 2017)
24.	Biochemical Oxygen Demand (BOD)	5.00	-	mg/l	IS 3025 (Part 44) (Reaffirmed - 2019)
Biological Testing- 1.1.28. Water (Ground Water)					
1.	Total coliform	160	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)
2.	Faecal coliform	<2	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)
3.	E. coli	Absent	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)

Remark (If Any):

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- MoEF & CC recognition valid till 15/01/2024.

Reviewed By

Lomate (TM Chem) & Pawar (TM Micro)
Authorized Signatory

Authorized By

Raju Ghule (LMR)
Authorized Signatory

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TEST REPORT

RL-R20-01B

Report No.: RL/TR/2023/01-245		Issue Date: 31/01/2023	
Name of Customer: M/S. NILANJAN IRON PVT. LTD		SAMPLE REFERENCE	
Address of Customer: Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216. Mobile- 9970788278 GSTIN- 27AACCN1645H1ZK		Sample Type	Ambient air quality monitoring
		Your Reference	Verbal
		Reference Date	-
		Sample ID	-
Sampling Plan Reference No.: 10/01		Sample Location	Near Main Gate
Date & Time of Sampling: 24 th to 25 th January 2023, 10:00 AM		Latitude	-
Codification No: RLC-01/235		Longitude	-
ENVIRONMENTAL CONDITIONS:		Sample Collected By	RAJAS LABORATORIES
Min. Temperature	21°C	Min. Rel. Humidity	45.0%
Max. Temperature	27°C	Max. Rel. Humidity	51.0%
Sample Received On: 27/01/2023	Analysis Start On: 27/01/2023	Completion of Analysis: 31/01/2023	

Sr. No.	Parameters	Result	Unit	Standard Values as per NAAQMS	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Ambient Air)					
1.	Sulfur Dioxide (SO ₂)	15.36	µg/m ³	80	IS 5182 (Part 2):2001
2.	Oxides of Nitrogen (NO _x)	22.81	µg/m ³	80	IS 5182 (Part 6):2006
3.	Particulate Matter 10 (µ) (PM 10)	91.22	µg/m ³	100	IS 5182 (Part 23):2006
4.	Particulate Matter 2.5 (µ) (PM 2.5)	39.65	µg/m ³	60	CPCB Guidelines: NAAQMS/36/2012-13
5.	Ozone (O ₃)	8.91	µg/m ³	100	IS 5182 (Part 9):1974
6.	Ammonia (NH ₃)	12.51	µg/m ³	400	CPCB Guidelines: NAAQMS/36/2012-13
7.	Benzene (C ₆ H ₆)	BDL [DL = 0.1]	µg/m ³	5	IS 5182 (Part 11):2006
8.	Benzo-a-pyrene (BaP)	BDL [DL = 0.5]	ng/m ³	1	CPCB Guidelines: NAAQMS/36/2012-13
9.	Carbon Monoxide (CO)	1.05	mg/m ³	4	IS 5182 (Part 10):1999
10.	Lead (Pb)	BDL [DL = 0.1]	µg/m ³	1	IS 5182 (Part 22):2004
11.	Arsenic (As)	BDL [DL = 2]	ng/m ³	6	CPCB Guidelines: NAAQMS/36/2012-13
12.	Nickel (Ni)	BDL [DL = 5]	ng/m ³	20	CPCB Guidelines: NAAQMS/36/2012-13

BDL = Below Detection Limit, DL = Detection Limit

Remark (If Any): With respect to above parameters, sample conforms to the standard values as per NAAQMS.

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/RDS/C-109	Asha Enviro	Valid Up to 05/07/2022
02.	RL/INS/FDS/C-110	Asha Enviro	Valid Up to 05/07/2022

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- MoEF & CC recognition valid till 15/01/2024.

Reviewed By

Kshitij Tamhane (TM Env.)
Authorized Signatory

Authorised By

Raju Ghule (LMR)
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TEST REPORT

RL-R20-01B

Report No.: RL/TR/2023/01-246

Issue Date: 31/01/2023

Name of Customer: M/S. NILANJAN IRON PVT. LTD

Address of Customer:

Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur - 416216.

Mobile- 9970788278

GSTIN- 27AACCN1645H1ZK

Sampling Plan Reference No.: 10/01

Date & Time of Sampling: 24th to 25th January 2023, 10:30 AM

Codification No: RLC-01/236

ENVIRONMENTAL CONDITIONS:

Min. Temperature 22°C

Max. Temperature 27°C

Sample Received On: 27/01/2023

Analysis Start On: 27/01/2023

SAMPLE REFERENCE

Sample Type

Ambient air quality monitoring

Your Reference

Verbal

Reference Date

-

Sample ID

-

Sample Location

Furnace Shed

Latitude

-

Longitude

-

Sample Collected By

RAJAS LABORATORIES

Min. Rel. Humidity

42.0%

Max. Rel. Humidity

47.0%

Completion of Analysis: 31/01/2023

Sr. No.	Parameters	Result	Unit	Standard Values as per NAAQMS	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Ambient Air)					
1.	Sulfur Dioxide (SO ₂)	12.89	µg/m ³	80	IS 5182 (Part 2):2001
2.	Oxides of Nitrogen (NO _x)	21.55	µg/m ³	80	IS 5182 (Part 6):2006
3.	Particulate Matter 10 (µ) (PM 10)	84.07	µg/m ³	100	IS 5182 (Part 23):2006
4.	Particulate Matter 2.5 (µ) (PM 2.5)	32.58	µg/m ³	60	CPCB Guidelines: NAAQMS/36/2012-13
5.	Ozone (O ₃)	10.28	µg/m ³	100	IS 5182 (Part 9):1974
6.	Ammonia (NH ₃)	17.47	µg/m ³	400	CPCB Guidelines: NAAQMS/36/2012-13
7.	Benzene (C ₆ H ₆)	BDL [DL = 0.1]	µg/m ³	5	IS 5182 (Part 11):2006
8.	Benzo-a-pyrene (BaP)	BDL [DL = 0.5]	ng/m ³	1	CPCB Guidelines: NAAQMS/36/2012-13
9.	Carbon Monoxide (CO)	0.72	mg/m ³	4	IS 5182 (Part 10):1999
10.	Lead (Pb)	BDL [DL = 0.1]	µg/m ³	1	IS 5182 (Part 22):2004
11.	Arsenic (As)	BDL [DL = 2]	ng/m ³	6	CPCB Guidelines: NAAQMS/36/2012-13
12.	Nickel (Ni)	BDL [DL = 5]	ng/m ³	20	CPCB Guidelines: NAAQMS/36/2012-13

BDL = Below Detection Limit, DL = Detection Limit

Remark (If Any): With respect to above parameters, sample conforms to the standard values as per NAAQMS.

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/RDS/C-111	Asha Enviro	Valid Up to 05/07/2022
02.	RL/INS/FDS/C-112	Asha Enviro	Valid Up to 05/07/2022

Terms & Conditions:

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- MoEF & CC recognition valid till 15/01/2024.

Reviewed By

Kshitij Tamhane (TM Env.)
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Authorised By

Raju Ghule (LMR)
Authorized Signatory



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TEST REPORT

RL-R20-01B

Report No.: RL/TR/2023/01-247

Issue Date: 31/01/2023

Name of Customer: M/S. NILANJAN IRON PVT. LTD

Address of Customer:

Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216.

Mobile- 9970788278

GSTIN- 27AACCN1645H1ZK

Sampling Plan Reference No.: 10/01

Date & Time of Sampling: 24th to 25th January 2023, 11:00 AM

Codification No: RLC-01/237

ENVIRONMENTAL CONDITIONS:

Min. Temperature 21°C

Max. Temperature 25°C

Sample Received On: 27/01/2023

Analysis Start On: 27/01/2023

SAMPLE REFERENCE

Sample Type Ambient air quality monitoring

Your Reference Verbal

Reference Date -

Sample ID -

Sample Location CCM Shed

Latitude -

Longitude -

Sample Collected By RAJAS LABORATORIES

Min. Rel. Humidity 39.0%

Max. Rel. Humidity 48.0%

Completion of Analysis: 31/01/2023

Sr. No.	Parameters	Result	Unit	Standard Values as per NAAQMS	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Ambient Air)					
1.	Sulfur Dioxide (SO ₂)	10.21	µg/m ³	80	IS 5182 (Part 2):2001
2.	Oxides of Nitrogen (NO _x)	14.24	µg/m ³	80	IS 5182 (Part 6):2006
3.	Particulate Matter 10 (µ) (PM 10)	78.70	µg/m ³	100	IS 5182 (Part 23):2006
4.	Particulate Matter 2.5 (µ) (PM 2.5)	33.67	µg/m ³	60	CPCB Guidelines: NAAQMS/36/2012-13
5.	Ozone (O ₃)	9.51	µg/m ³	100	IS 5182 (Part 9):1974
6.	Ammonia (NH ₃)	14.41	µg/m ³	400	CPCB Guidelines: NAAQMS/36/2012-13
7.	Benzene (C ₆ H ₆)	BDL [DL = 0.1]	µg/m ³	5	IS 5182 (Part 11):2006
8.	Benzo-a-pyrene (BaP)	BDL [DL = 0.5]	ng/m ³	1	CPCB Guidelines: NAAQMS/36/2012-13
9.	Carbon Monoxide (CO)	0.68	mg/m ³	4	IS 5182 (Part 10):1999
10.	Lead (Pb)	BDL [DL = 0.1]	µg/m ³	1	IS 5182 (Part 22):2004
11.	Arsenic (As)	BDL [DL = 2]	ng/m ³	6	CPCB Guidelines: NAAQMS/36/2012-13
12.	Nickel (Ni)	BDL [DL = 5]	ng/m ³	20	CPCB Guidelines: NAAQMS/36/2012-13

BDL = Below Detection Limit, DL = Detection Limit

Remark (If Any): With respect to above parameters, sample conforms to the standard values as per NAAQMS.

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/RDS/C-107	Asha Enviro	Valid Up to 05/07/2022
02.	RL/INS/FDS/C-108	Asha Enviro	Valid Up to 05/07/2022

Terms & Conditions:

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Reviewed By

Kshitij Tamhane (TM Env.)
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Raju Ghule (LMR)
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TEST REPORT

RL-R20-01C

Report No.: RL/TR/2023/01-248		Issue Date: 31/01/2023	
Name of Customer: M/S. NILANJAN IRON PVT. LTD		SAMPLE REFERENCE	
Address of Customer: Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216. Mobile- 9970788278 GSTIN- 27AACCN1645H1ZK		Sample Type	Stack Emission Monitoring
		Your Reference	Verbal
		Reference Date	-
		Sample ID	-
		Sample Location	Furnace Stack
		Latitude	-
Sampling Plan Reference No.: 10/01		Longitude	-
Date & Time of Sampling: 24 th January 2023, 11:50 AM		Sample Collected By	RAJAS LABORATORIES
Codification No: RLC-01/238		Stack Material	MS
STACK DETAILS:		Fuel Consumption	-
Stack ID	1	Flue Gas Temperature	101.3°C
Stack Height	35 Meters	Flue Gas Velocity	3.9 m/s
Stack Fuel	-	Completion of Analysis:	31/01/2023
Sample Received On: 27/01/2023	Analysis Start On: 27/01/2023		

Sr. No.	Parameters	Result	Unit	Standard Values as per MPCB Consent	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Stack Emission)					
1.	Sulfur Dioxide (SO ₂)	1.84	ppm	Not to exceed 80 ppm	IS 11255 (Part 2) : 1985
2.	Total Particulate Matter (TPM)	57.88	mg/Nm ³	Not to exceed 150 mg/Nm ³	IS 11255 (Part 1) : 1985
3.	Oxides of Nitrogen (NO _x)	2.33	ppm	Not to exceed 80 ppm	IS 11255 (Part 7) : 2005

Remark (If Any): The above parameters are within MPCB limits.

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/STK/C-113	Asha Enviro	Valid Up to 05/07/2022

Terms & Conditions:

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- MoEF & CC recognition valid till 15/01/2024.

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TEST REPORT

RL-R20-01D

Report No.: RL/TR/2023/01-249	Issue Date: 31/01/2023
Name of Customer: M/S. NILANJAN IRON PVT. LTD	SAMPLE REFERENCE
Address of Customer: Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216. Mobile- 9970788278 GSTIN- 27AACCN1645H1ZK	Sample Type Codification No Your Reference Reference Date Sample ID Sample Location Latitude Longitude
Sampling Plan Reference No.: 10/01	Ambient noise level monitoring RLC-01/239 Verbal - - - - - -
Date & Time of Sampling: 24 th to 25 th January 2023, 12:30 PM	
Sample Collected By: RAJAS LABORATORIES	
Sample Received On: 27/01/2023	Analysis Start On: 27/01/2023
	Completion of Analysis: 31/01/2023

Sr. No.	Parameters	Result	Unit	Standard Values as per general CPCB guidelines	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Ambient Noise Levels -Excluding vibration)					
DAY					CPCB's Protocol for Ambient Noise Level Monitoring:2015
1.	Main Gate	65.7	dB(A)	75	
2.	Admin Office	61.2			
NIGHT					
1.	Main Gate	55.6	dB(A)	70	
2.	Admin Office	47.8			

Remark (If Any): Above readings conforms to standard values as per CPCB guidelines.

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/NM/C-114	HTC SL-1350	Valid Up to 05/07/2022

Terms & Conditions:

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TEST REPORT

RL-R20-01D

Report No.: RL/TR/2023/01-250	Issue Date: 31/01/2023
Name of Customer: M/S. NILANJAN IRON PVT. LTD	SAMPLE REFERENCE
Address of Customer: Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216. Mobile- 9970788278 GSTIN- 27AACCN1645H1ZK	Sample Type Work place noise monitoring
	Codification No RLC-01/240
	Your Reference Verbal
	Reference Date -
	Sample ID -
Sampling Plan Reference No.: 10/01	Latitude -
Date & Time of Sampling: 24 th January 2023, 03:30 PM	Longitude -
Sample Collected By: RAJAS LABORATORIES	
Sample Received On: 27/01/2023	Analysis Start On: 27/01/2023
	Completion of Analysis: 31/01/2023

Sr. No.	Parameters	Result	Unit	Standard Values as per general CPCB guidelines	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Ambient Noise Levels -Excluding vibration)					
1.	Furnace Shed	71.5	dB(A)	90	RL-SOP-C-34, Ver.001, Issue Date 01 April:2022
2.	Casting Area	69.5			
3.	Raw Material Handling Unit	70.0			

Remark (If Any):

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/NM/C-114	HTC SL-1350	Valid Up to 05/07/2022

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TEST REPORT

RL-R20-01A

Report No.: RL/TR/2023/01-251		Issue Date: 31/01/2023			
Name of Customer: M/S. NILANJAN IRON PVT. LTD		SAMPLE REFERENCE			
Address of Customer: Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur - 416216. Mobile- 9970788278 GSTIN- 27AACCN1645H1ZK		Sample Name		MIDC Water	
		Nature of Sample		Colourless Clear Liquid	
		Brand Name		-	
		Batch No.		-	
		Sample Container		Plastic Container	
		Sample Quantity		Chemical-5 Liters	
		Mfg. Dt./Used By		-	
Sampling Method: RL-MSP-P38		Date of Sampling & Time		25/01/2023, 09:45 AM	
Sampling Plan: 10/01		Location of Sampling		Project Site	
Unique Identification of the item: NA.		Environmental Condition		Stored at 2-8°C	
Codification No: RLC- 01/241 & RLM-01/76		Expiry Date		-	
Sample Collected By: RAJAS LABORATORIES		Mfg. By: -			
Sample Received On: 27/01/2023		Analysis Start On: 27/01/2023		Completion of Analysis: 31/01/2023	
Sr. No.	Parameters	Results	Standard Values	Unit	Analysis Method
Chemical Testing- 1.2.42. Water (Surface Water)					
1.	Colour	BDL [DL=1]	-	Hazen	IS 3025(Part 4):2021
2.	Temperature	26.5	-	°C	APHA 23 rd EDITION:2017
3.	pH at 25°C	7.31	-	-	IS 3025 (Part 11):1983 (Reaffirmed 2017)
4.	Calcium as Ca	41.47	-	mg/l	IS 3025 (Part 40):1991(Reaffirmed 2019)
5.	Magnesium as Mg	24.06	-	mg/l	APHA 23 rd EDITION:2017
6.	Chloride as Cl	52.51	-	mg/l	IS 3025 (Part 32): 1988 (Reaffirmed 2019)
7.	Total Alkalinity as CaCO ₃	187.98	-	mg/l	IS 3025 (Part 23): 1986 (Reaffirmed -2019)
8.	Total Dissolved Solid at 180°C	267.80	-	mg/l	IS 3025 (Part 16): 1984 (Reaffirmed 2017)
9.	Total Hardness as CaCO ₃	162.31	-	mg/l	IS 3025 (Part 21): 2009 (Reaffirmed 2019)
10.	Turbidity	BDL [DL=1]	-	NTU	IS 3025 (Part 10): 1984 (Reaffirmed 2017)
11.	Electrical Conductivity at 25°C	414.47	-	µS/cm	IS 3025 (Part 14):1984 (Reaffirmed 2019)
12.	Fluoride (as F)	BDL [DL=0.1]	-	mg/l	IS 3025(Part 60): 2008
13.	Sulphate (as SO ₄)	35.21	-	mg/l	IS 3025(Part 24):1986 (Reaffirmed 2009)
14.	Ammonia (as NH ₃)	BDL [DL=0.1]	-	mg/l	APHA 23 rd EDITION:2017 4500-NH ₃ C
15.	Nitrate (as NO ₃ ⁻)	1.55	-	mg/l	IS 3025(Part 34):1988 (Reaffirmed 2019)
16.	Nitrite (as NO ₂ ⁻)	BDL [DL=1]	-	mg/l	IS 3025(Part 34):1988 (Reaffirmed 2019)
17.	Phosphate (as PO ₄)	BDL [DL=1]	-	mg/l	IS 3025(Part 31):1988 (Reaffirmed 2021)
18.	Dissolved Oxygen	6.21	-	mg/l	APHA 23 rd EDITION:2017
19.	Calcium Hardness	63.46	-	mg/l	IS 3025 (Part 40):1991(Reaffirmed 2019)
20.	Phenolphthalein Alkalinity	BDL [DL=5]	-	mg/l	IS 3025 (Part 23): 1986 (Reaffirmed -2019)
21.	Sodium (as Na)	47.97	-	mg/l	IS 3025 (Part 45): 1993 (Reaffirmed -2019)
22.	Potassium (as K)	8.54	-	mg/l	IS 3025 (Part 45): 1993 (Reaffirmed -2019)
23.	Chemical Oxygen Demand (COD)	25.00	-	mg/l	IS 3025 (Part 58) (Reaffirmed - 2017)
24.	Biochemical Oxygen Demand (BOD)	4.70	-	mg/l	IS 3025 (Part 44) (Reaffirmed - 2019)
Biological Testing- 1.1.28. Water (Surface Water)					
1.	Total coliform	70	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)
2.	Faecal coliform	<2	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)
3.	E. coli	Absent	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)

Remark (If Any):

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TEST REPORT

RL-R20-01A

Report No.: RL/TR/2023/01-252		Issue Date: 31/01/2023			
Name of Customer: M/S. NILANJAN IRON PVT. LTD		SAMPLE REFERENCE			
Address of Customer: Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur - 416216. Mobile- 9970788278 GSTIN- 27AACCN1645H1ZK		Sample Name		Ground Water	
		Nature of Sample		Colourless Clear Liquid	
		Brand Name		-	
		Batch No.		-	
		Sample Container		Plastic Container	
		Sample Quantity		Chemical-5 Liters	
		Mfg. Dt./Used By		-	
Sampling Method: RL-MSP-P38		Date of Sampling & Time		25/01/2023, 10:30 AM	
Sampling Plan: 10/01		Location of Sampling		Halsavade Village	
Unique Identification of the item: NA.		Environmental Condition		Stored at 2-8°C	
Codification No: RLC- 01/242 & RLM-01/77		Expiry Date		-	
Sample Collected By: RAJAS LABORATORIES		Mfg. By: -			
Sample Received On: 27/01/2023		Analysis Start On: 27/01/2023		Completion of Analysis: 31/01/2023	
Sr. No.	Parameters	Results	Standard Values	Unit	Analysis Method
Chemical Testing- 1.2.42. Water (Surface Water)					
1.	Colour	BDL [DL=1]	-	Hazen	IS 3025(Part 4):2021
2.	Temperature	24.8	-	°C	APHA 23 rd EDITION:2017
3.	pH at 25°C	7.31	-	-	IS 3025 (Part 11):1983 (Reaffirmed 2017)
4.	Calcium as Ca	31.85	-	mg/l	IS 3025 (Part 40):1991(Reaffirmed 2019)
5.	Magnesium as Mg	17.41	-	mg/l	APHA 23 rd EDITION:2017
6.	Chloride as Cl	141.75	-	mg/l	IS 3025 (Part 32): 1988 (Reaffirmed 2019)
7.	Total Alkalinity as CaCO ₃	126.83	-	mg/l	IS 3025 (Part 23): 1986 (Reaffirmed -2019)
8.	Total Dissolved Solid at 180°C	355.21	-	mg/l	IS 3025 (Part 16): 1984 (Reaffirmed 2017)
9.	Total Hardness as CaCO ₃	131.40	-	mg/l	IS 3025 (Part 21): 2009 (Reaffirmed 2019)
10.	Turbidity	BDL [DL=1]	-	NTU	IS 3025 (Part 10): 1984 (Reaffirmed 2017)
11.	Electrical Conductivity at 25°C	651.27	-	µS/cm	IS 3025 (Part 14):1984 (Reaffirmed 2019)
12.	Fluoride (as F)	BDL [DL=0.1]	-	mg/l	IS 3025(Part 60): 2008
13.	Sulphate (as SO ₄)	32.33	-	mg/l	IS 3025(Part 24):1986 (Reaffirmed 2009)
14.	Ammonia (as NH ₃)	BDL [DL=0.1]	-	mg/l	APHA 23 rd EDITION:2017 4500-NH ₃ C
15.	Nitrate (as NO ₃)	1.29	-	mg/l	IS 3025(Part 34):1988 (Reaffirmed 2019)
16.	Nitrite (as NO ₂)	BDL [DL=1]	-	mg/l	IS 3025(Part 34):1988 (Reaffirmed 2019)
17.	Phosphate (as PO ₄)	1.84	-	mg/l	IS 3025(Part 31):1988 (Reaffirmed 2021)
18.	Dissolved Oxygen	2.71	-	mg/l	APHA 23 rd EDITION:2017
19.	Calcium Hardness	59.01	-	mg/l	IS 3025 (Part 40):1991(Reaffirmed 2019)
20.	Phenolphthalein Alkalinity	BDL [DL=5]	-	mg/l	IS 3025 (Part 23): 1986 (Reaffirmed -2019)
21.	Sodium (as Na)	41.19	-	mg/l	IS 3025 (Part 45): 1993 (Reaffirmed -2019)
22.	Potassium (as K)	10.31	-	mg/l	IS 3025 (Part 45): 1993 (Reaffirmed -2019)
23.	Chemical Oxygen Demand (COD)	27.00	-	mg/l	IS 3025 (Part 58): (Reaffirmed - 2017)
24.	Biochemical Oxygen Demand (BOD)	6.50	-	mg/l	IS 3025 (Part 44): (Reaffirmed - 2019)
Biological Testing- 1.1.28. Water (Surface Water)					
1.	Total coliform	70	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)
2.	Faecal coliform	<2	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)
3.	E. coli	Absent	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)

Remark (If Any):

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TEST REPORT

RL-R20-01B

Report No.: RL/TR/2023/02-388

Issue Date: 04/03/2023

Name of Customer: M/S. NILANJAN IRON PVT. LTD

SAMPLE REFERENCE**Address of Customer:**

Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216.

Mobile- 9970788278

GSTIN- 27AACCN1645H1ZK

Sample Type

Ambient air quality monitoring

Your Reference

Verbal

Reference Date

-

Sample ID

-

Sampling Plan Reference No.: 10/02

Sample Location

Near Main Gate

Date & Time of Sampling: 23rd to 24th February 2023, 10.00 AM

Latitude

-

Codification No: RLC-02/379

Longitude

-

ENVIRONMENTAL CONDITIONS:

Sample Collected By

RAJAS LABORATORIES

Min. Temperature

23°C

Min. Rel. Humidity

33.0%

Max. Temperature

29°C

Max. Rel. Humidity

39.0%

Sample Received On: 25/02/2023

Analysis Start On: 25/02/2023

Completion of Analysis: 03/03/2023

Sr. No.	Parameters	Result	Unit	Standard Values as per NAAQMS	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Ambient Air)					
1.	Sulfur Dioxide (SO ₂)	12.51	µg/m ³	80	IS 5182 (Part 2):2001
2.	Oxides of Nitrogen (NO _x)	24.14	µg/m ³	80	IS 5182 (Part 6):2006
3.	Particulate Matter 10 (µ) (PM 10)	93.68	µg/m ³	100	IS 5182 (Part 23):2006
4.	Particulate Matter 2.5 (µ) (PM 2.5)	40.51	µg/m ³	60	CPCB Guidelines: NAAQMS/36/2012-13
5.	Ozone (O ₃)	10.29	µg/m ³	100	IS 5182 (Part 9):1974
6.	Ammonia (NH ₃)	17.51	µg/m ³	400	CPCB Guidelines: NAAQMS/36/2012-13
7.	Benzene (C ₆ H ₆)	BDL [DL = 0.1]	µg/m ³	5	IS 5182 (Part 11):2006
8.	Benzo-a-pyrene (BaP)	BDL [DL = 0.5]	ng/m ³	1	CPCB Guidelines: NAAQMS/36/2012-13
9.	Carbon Monoxide (CO)	1.09	mg/m ³	4	IS 5182 (Part 10):1999
10.	Lead (Pb)	BDL [DL = 0.1]	µg/m ³	1	IS 5182 (Part 22):2004
11.	Arsenic (As)	BDL [DL = 2]	ng/m ³	6	CPCB Guidelines: NAAQMS/36/2012-13
12.	Nickel (Ni)	BDL [DL = 5]	ng/m ³	20	CPCB Guidelines: NAAQMS/36/2012-13

BDL = Below Detection Limit, DL = Detection Limit

Remark (If Any): With respect to above parameters, sample conforms to the standard values as per NAAQMS.

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/RDS/C-119	Asha Enviro	Valid Up to 05/07/2022
02.	RL/INS/FDS/C-120	Asha Enviro	Valid Up to 05/07/2022

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TEST REPORT

RL-R20-01B

Report No.: RL/TR/2023/02-389		Issue Date: 04/03/2023	
Name of Customer: M/S. NILANJAN IRON PVT. LTD		SAMPLE REFERENCE	
Address of Customer: Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216. Mobile- 9970788278 GSTIN- 27AACCN1645H1ZK		Sample Type	Ambient air quality monitoring
		Your Reference	Verbal
		Reference Date	-
		Sample ID	-
Sampling Plan Reference No.: 10/02		Sample Location	Furnace Shed
Date & Time of Sampling: 23 rd to 24 th February 2023, 10.30 AM		Latitude	-
Codification No: RLC-02/380		Longitude	-
ENVIRONMENTAL CONDITIONS:		Sample Collected By	RAJAS LABORATORIES
Min. Temperature	22°C	Min. Rel. Humidity	39.0%
Max. Temperature	28°C	Max. Rel. Humidity	42.0%
Sample Received On: 25/02/2023	Analysis Start On: 25/02/2023	Completion of Analysis: 03/03/2023	

Sr. No.	Parameters	Result	Unit	Standard Values as per NAAQMS	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Ambient Air)					
1.	Sulfur Dioxide (SO ₂)	14.69	µg/m ³	80	IS 5182 (Part 2):2001
2.	Oxides of Nitrogen (NO _x)	29.35	µg/m ³	80	IS 5182 (Part 6):2006
3.	Particulate Matter 10 (µ) (PM 10)	90.17	µg/m ³	100	IS 5182 (Part 23):2006
4.	Particulate Matter 2.5 (µ) (PM 2.5)	39.87	µg/m ³	60	CPCB Guidelines: NAAQMS/36/2012-13
5.	Ozone (O ₃)	7.25	µg/m ³	100	IS 5182 (Part 9):1974
6.	Ammonia (NH ₃)	15.66	µg/m ³	400	CPCB Guidelines: NAAQMS/36/2012-13
7.	Benzene (C ₆ H ₆)	BDL [DL = 0.1]	µg/m ³	5	IS 5182 (Part 11):2006
8.	Benzo-a-pyrene (BaP)	BDL [DL = 0.5]	ng/m ³	1	CPCB Guidelines: NAAQMS/36/2012-13
9.	Carbon Monoxide (CO)	0.72	mg/m ³	4	IS 5182 (Part 10):1999
10.	Lead (Pb)	BDL [DL = 0.1]	µg/m ³	1	IS 5182 (Part 22):2004
11.	Arsenic (As)	BDL [DL = 2]	ng/m ³	6	CPCB Guidelines: NAAQMS/36/2012-13
12.	Nickel (Ni)	BDL [DL = 5]	ng/m ³	20	CPCB Guidelines: NAAQMS/36/2012-13

BDL = Below Detection Limit, DL = Detection Limit

Remark (If Any): With respect to above parameters, sample conforms to the standard values as per NAAQMS.

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/RDS/C-123	Asha Enviro	Valid Up to 05/07/2022
02.	RL/INS/FDS/C-124	Asha Enviro	Valid Up to 05/07/2022

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Registered Laboratory for Soil testing under Agriculture Department, Maharashtra State.



TEST REPORT

RL-R20-01B

Report No.: RL/TR/2023/02-390		Issue Date: 04/03/2023	
Name of Customer: M/S. NILANJAN IRON PVT. LTD		SAMPLE REFERENCE	
Address of Customer: Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216. Mobile- 9970788278 GSTIN- 27AACCN1645H1ZK		Sample Type	Ambient air quality monitoring
		Your Reference	Verbal
		Reference Date	-
		Sample ID	-
Sampling Plan Reference No.: 10/02		Sample Location	CCM Shed
Date & Time of Sampling: 23 rd to 24 th February 2023, 11.00 AM		Latitude	-
Codification No: RLC-02/381		Longitude	-
ENVIRONMENTAL CONDITIONS:		Sample Collected By	RAJAS LABORATORIES
Min. Temperature	23°C	Min. Rel. Humidity	31.0%
Max. Temperature	29°C	Max. Rel. Humidity	39.0%
Sample Received On: 25/02/2023	Analysis Start On: 25/02/2023	Completion of Analysis:	03/03/2023

Sr. No.	Parameters	Result	Unit	Standard Values as per NAAQMS	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Ambient Air)					
1.	Sulfur Dioxide (SO ₂)	12.56	µg/m ³	80	IS 5182 (Part 2):2001
2.	Oxides of Nitrogen (NO _x)	28.77	µg/m ³	80	IS 5182 (Part 6):2006
3.	Particulate Matter 10 (µ) (PM 10)	83.20	µg/m ³	100	IS 5182 (Part 23):2006
4.	Particulate Matter 2.5 (µ) (PM 2.5)	36.93	µg/m ³	60	CPCB Guidelines: NAAQMS/36/2012-13
5.	Ozone (O ₃)	9.78	µg/m ³	100	IS 5182 (Part 9):1974
6.	Ammonia (NH ₃)	15.61	µg/m ³	400	CPCB Guidelines: NAAQMS/36/2012-13
7.	Benzene (C ₆ H ₆)	BDL [DL = 0.1]	µg/m ³	5	IS 5182 (Part 11):2006
8.	Benzo-a-pyrene (BaP)	BDL [DL = 0.5]	ng/m ³	1	CPCB Guidelines: NAAQMS/36/2012-13
9.	Carbon Monoxide (CO)	0.55	mg/m ³	4	IS 5182 (Part 10):1999
10.	Lead (Pb)	BDL [DL = 0.1]	µg/m ³	1	IS 5182 (Part 22):2004
11.	Arsenic (As)	BDL [DL = 2]	ng/m ³	6	CPCB Guidelines: NAAQMS/36/2012-13
12.	Nickel (Ni)	BDL [DL = 5]	ng/m ³	20	CPCB Guidelines: NAAQMS/36/2012-13

BDL = Below Detection Limit, DL = Detection Limit

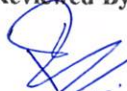
Remark (If Any): With respect to above parameters, sample conforms to the standard values as per NAAQMS.

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/RDS/C-74	Asha Enviro	Valid Up to 05/07/2022
02.	RL/INS/FDS/C-75	Asha Enviro	Valid Up to 05/07/2022

Terms & Conditions:

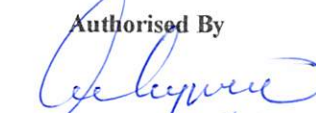
- The above results pertain only to the sample tested.
- This certificate in full or in part shall not be used for advertising or legal action.
- Test Report cannot be re-produced except in full, without the written permission from the Laboratory.
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- MoEF & CC recognition valid till 15/01/2024.

Reviewed By


Kshitij Tamhane (TM Env.)
Authorized Signatory



Authorised By


Raju Ghule (LMR)
Authorized Signatory

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TEST REPORT

RL-R20-01C

Report No.: RL/TR/2023/02-391

Issue Date: 04/03/2023

Name of Customer: M/S. NILANJAN IRON PVT. LTD

Address of Customer:

Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216.

Mobile- 9970788278

GSTIN- 27AACCN1645H1ZK

Sampling Plan Reference No.: 10/02

Date & Time of Sampling: 23rd February 2023, 11.55 AM

Codification No: RLC-02/382

STACK DETAILS:

Stack ID

1

Stack Height

35 Meters

Stack Fuel

-

Sample Received On: 25/02/2023

Analysis Start On: 25/02/2023

SAMPLE REFERENCE

Sample Type

Stack Emission Monitoring

Your Reference

Verbal

Reference Date

-

Sample ID

-

Sample Location

Furnace Stack

Latitude

-

Longitude

-

Sample Collected By

RAJAS LABORATORIES

Stack Material

MS

Fuel Consumption

-

Flue Gas Temperature

97.0°C

Flue Gas Velocity

3.8 m/s

Completion of Analysis: 03/03/2023

Sr. No.	Parameters	Result	Unit	Standard Values as per MPCB Consent	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Stack Emission)					
1.	Sulfur Dioxide (SO ₂)	1.27	ppm	Not to exceed 80 ppm	IS 11255 (Part 2) : 1985
2.	Total Particulate Matter (TPM)	47.19	mg/Nm ³	Not to exceed 150 mg/Nm ³	IS 11255 (Part 1) : 1985
3.	Oxides of Nitrogen (NO _x)	1.92	ppm	Not to exceed 80 ppm	IS 11255 (Part 7) : 2005

Remark (If Any): The above parameters are within MPCB limits.

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/STK/C-80	Asha Enviro	Valid Up to 05/07/2022

Terms & Conditions:

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- MoEF & CC recognition valid till 15/01/2024.

Reviewed By

Kshitij Tamhane (TM Env.)
Authorized Signatory

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Raju Ghule (LMR)
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TEST REPORT

RL-R20-01D

Report No.: RL/TR/2023/02-392

Issue Date: 04/03/2023

Name of Customer: M/S. NILANJAN IRON PVT. LTD

SAMPLE REFERENCE**Address of Customer:**

Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216.

Mobile- 9970788278

GSTIN- 27AACCN1645H1ZK

Sample Type

Ambient noise level monitoring

Codification No

RLC-02/383

Your Reference

Verbal

Reference Date

-

Sample ID

-

Sample Location

-

Latitude

-

Longitude

-

Sampling Plan Reference No.: 10/02

Date & Time of Sampling: 23rd to 24th February 2023, 01.00 PM

Sample Collected By: RAJAS LABORATORIES

Sample Received On: 25/02/2023

Analysis Start On: 25/02/2023

Completion of Analysis: 03/03/2023

Sr. No.	Parameters	Result	Unit	Standard Values as per general CPCB guidelines	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Ambient Noise Levels -Excluding vibration)					
DAY					CPCB's Protocol for Ambient Noise Level Monitoring:2015
1.	Main Gate	70.1	dB(A)	75	
2.	Admin Office	66.3			
NIGHT					
1.	Main Gate	62.5	dB(A)	70	
2.	Admin Office	51.7			

Remark (If Any): Above readings conforms to standard values as per CPCB guidelines.

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/NM/C-77	HTC SL-1350	Valid Up to 05/07/2022

Terms & Conditions:

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- MoEF & CC recognition valid till 15/01/2024.

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Kshitij Tamhane (TM Env.)
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TEST REPORT

RL-R20-01D

Report No.: RL/TR/2023/02-393

Issue Date: 04/03/2023

Name of Customer: M/S. NILANJAN IRON PVT. LTD

SAMPLE REFERENCE**Address of Customer:**

Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216.

Mobile- 9970788278

GSTIN- 27AACCN1645H1ZK

Sample Type

Work place noise monitoring

Codification No

RLC-02/384

Your Reference

Verbal

Reference Date

-

Sample ID

-

Latitude

-

Longitude

-

Sampling Plan Reference No.: 10/02

Date & Time of Sampling: 23rd February 2023, 03.45 PMSample Collected By: **RAJAS LABORATORIES**

Sample Received On: 25/02/2023

Analysis Start On: 25/02/2023

Completion of Analysis: 03/03/2023

Sr. No.	Parameters	Result	Unit	Standard Values as per general CPCB guidelines	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Ambient Noise Levels -Excluding vibration)					
1.	Furnace Shed	69.1	dB(A)	90	RL-SOP-C-34, Ver.001, Issue Date 01 April:2022
2.	Casting Area	70.4			
3.	Raw Material Handling Unit	68.6			

Remark (If Any):

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/NM/C-77	HTC SL-1350	Valid Up to 05/07/2022

Terms & Conditions:

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Kshitij Tamhane (TM Env.)
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Raju Ghule (LMR)
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TEST REPORT

ULR-TC881223000000333F

RL-R20-01A

Report No.: RL/TR/2023/02-394			Issue Date: 04/03/2023		
Name of Customer: M/S. NILANJAN IRON PVT. LTD			SAMPLE REFERENCE		
Address of Customer: Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur - 416216. Mobile- 9970788278 GSTIN- 27AACCN1645H1ZK			Sample Name	MIDC Water	
			Nature of Sample	Colourless Clear Liquid	
			Brand Name	-	
			Batch No.	-	
			Sample Container	Plastic Container	
			Sample Quantity	Chemical-5 Liters	
			Mfg. Dt./Used By	-	
Sampling Method: RL-MSP-P38			Date of Sampling & Time	24/02/2023, 10:00 AM	
Sampling Plan: 10/02			Location of Sampling	Project Site	
Unique Identification of the item: NA.			Environmental Condition	Stored at 2-8°C	
Codification No: RLC- 02/385 & RLM-02/121			Expiry Date	-	
Sample Collected By: RAJAS LABORATORIES			Mfg. By: -		
Sample Received On: 25/02/2023		Analysis Start On: 25/02/2023		Completion of Analysis: 03/03/2023	
Sr. No.	Parameters	Results	Standard Values	Unit	Analysis Method
Chemical Testing- 1.2.42. Water (Surface Water)					
1.	pH at 25°C	7.51	-	-	IS 3025 (Part 11):1983 (Reaffirmed 2017)
2.	Calcium as Ca	41.12	-	mg/l	IS 3025 (Part 40):1991(Reaffirmed 2019)
3.	Magnesium as Mg	15.17	-	mg/l	APHA 23 rd EDITION:2017
4.	Chloride as Cl	63.61	-	mg/l	IS 3025 (Part 32): 1988 (Reaffirmed 2019)
5.	Total Alkalinity as CaCO ₃	141.25	-	mg/l	IS 3025 (Part 23): 1986 (Reaffirmed -2019)
6.	Total Dissolved Solid at 180°C	294.18	-	mg/l	IS 3025 (Part 16): 1984 (Reaffirmed 2017)
7.	Total Hardness as CaCO ₃	102.50	-	mg/l	IS 3025 (Part 21): 2009 (Reaffirmed 2019)
8.	Turbidity	1.19	-	NTU	IS 3025 (Part 10): 1984 (Reaffirmed 2017)
9.	Electrical Conductivity at 25°C	603.41	-	µS/cm	IS 3025 (Part 14):1984 (Reaffirmed 2019)
10.	Fluoride (as F)	BDL [DL=0.1]	-	mg/l	IS 3025(Part 60): 2008
11.	Sulphate (as SO ₄)	56.54	-	mg/l	IS 3025(Part 24):1986 (Reaffirmed 2009)
12.	Ammonia (as NH ₃)	BDL [DL=0.1]	-	mg/l	APHA 23 rd EDITION:2017 4500-NH ₃ C
13.	Nitrate (as NO ₃ ⁻)	1.66	-	mg/l	IS 3025(Part 34):1988 (Reaffirmed 2019)
14.	Sodium (as Na)	42.25	-	mg/l	IS 3025 (Part 45): 1993 (Reaffirmed -2019)
15.	Potassium (as K)	5.39	-	mg/l	IS 3025 (Part 45): 1993 (Reaffirmed -2019)
Biological Testing- 1.1.28. Water (Surface Water)					
1.	Total coliform	160	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)
2.	Faecal coliform	<2	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)
3.	E. coli	Absent	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)

Remark (If Any):

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- MoEF & CC recognition valid till 15/01/2024.

Reviewed By

[Signature]

Lomate (TM Chem) & Pawar (TM Micro)
Authorized Signatory



Authorised By

[Signature]

Raju Ghule (LMR)
Authorized Signatory

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Registered Laboratory for Soil testing under Agriculture Department, Maharashtra State.

TEST REPORT

RL-R20-01A

Report No.: RL/TR/2023/02-394

Issue Date: 04/03/2023

Name of Customer: M/S. NILANJAN IRON PVT. LTD

Address of Customer:

Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216.

Mobile- 9970788278

GSTIN- 27AACCN1645H1ZK

Sampling Method: RL-MSP-P38

Sampling Plan: 10/02

Unique Identification of the item: NA.

Codification No: RLC- 02/385

Sample Collected By: RAJAS LABORATORIES

Sample Received On: 25/02/2023

Analysis Start On: 25/02/2023

SAMPLE REFERENCE

Sample Name	MIDC Water
Nature of Sample	Colourless Clear Liquid
Brand Name	-
Batch No.	-
Sample Container	Plastic Container
Sample Quantity	Chemical-5 Liters
Mfg. Dt./Used By	-
Date of Sampling & Time	24/02/2023, 10:00 AM
Location of Sampling	Project Site
Environmental Condition	Stored at 2-8°C
Expiry Date	-
Mfg. By: -	

Completion of Analysis: 03/03/2023

Sr. No.	Parameters	Results	Standard Values	Unit	Analysis Method
Chemical Testing- 1.2.42. Water (Surface Water)					
1.	Colour	BDL [DL=1]	-	Hazen	IS 3025(Part 4):2021
2.	Temperature	24.5	-	°C	APHA 23 rd EDITION:2017
3.	Nitrite (as NO ₂ ⁻)	BDL [DL=1]	-	mg/l	IS 3025(Part 34):1988 (Reaffirmed 2019)
4.	Phosphate (as PO ₄)	1.39	-	mg/l	IS 3025(Part 31):1988 (Reaffirmed 2021)
5.	Dissolved Oxygen	7.51	-	mg/l	APHA 23 rd EDITION:2017
6.	Calcium Hardness	57.21	-	mg/l	IS 3025 (Part 40):1991(Reaffirmed 2019)
7.	Phenolphthalein Alkalinity	BDL [DL=5]	-	mg/l	IS 3025 (Part 23): 1986 (Reaffirmed -2019)
8.	Chemical Oxygen Demand (COD)	26.00	-	mg/l	IS 3025 (Part 58) (Reaffirmed – 2017)
9.	Biochemical Oxygen Demand (BOD)	7.00	-	mg/l	IS 3025 (Part 44) (Reaffirmed – 2019)

Remark (If Any):

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- MoEF & CC recognition valid till 15/01/2024.

Reviewed By

Lomate (TM Chem)
Authorized Signatory



Authorised By

Raju Ghule (LMR)
Authorized Signatory



TC- 8812



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Registered Laboratory for Soil testing under Agriculture Department, Maharashtra State.



TEST REPORT

ULR-TC881223000000334F

RL-R20-01A

Report No.: RL/TR/2023/02-395

Issue Date: 04/03/2023

Name of Customer: M/S. NILANJAN IRON PVT. LTD

Address of Customer:

Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur - 416216.

Mobile- 9970788278

GSTIN- 27AACCN1645H1ZK

Sampling Method: RL-MSP-P38

Sampling Plan: 10/02

Unique Identification of the item: NA.

Codification No: RLC- 02/386 & RLM-02/122

Sample Collected By: RAJAS LABORATORIES

Sample Received On: 25/02/2023

Analysis Start On: 25/02/2023

Completion of Analysis: 03/03/2023

Sr. No.	Parameters	Results	Standard Values	Unit	Analysis Method
Chemical Testing- 1.2.42. Water (Ground Water)					
1.	pH at 25°C	7.32	-	-	IS 3025 (Part 11):1983 (Reaffirmed 2017)
2.	Calcium as Ca	71.98	-	mg/l	IS 3025 (Part 40):1991(Reaffirmed 2019)
3.	Magnesium as Mg	25.51	-	mg/l	APHA 23 rd EDITION:2017
4.	Chloride as Cl	98.47	-	mg/l	IS 3025 (Part 32): 1988 (Reaffirmed 2019)
5.	Total Alkalinity as CaCO ₃	198.48	-	mg/l	IS 3025 (Part 23): 1986 (Reaffirmed -2019)
6.	Total Dissolved Solid at 180°C	558.34	-	mg/l	IS 3025 (Part 16): 1984 (Reaffirmed 2017)
7.	Total Hardness as CaCO ₃	204.59	-	mg/l	IS 3025 (Part 21): 2009 (Reaffirmed 2019)
8.	Turbidity	1.21	-	NTU	IS 3025 (Part 10): 1984 (Reaffirmed 2017)
9.	Electrical Conductivity at 25°C	847.69	-	µS/cm	IS 3025 (Part 14):1984 (Reaffirmed 2019)
10.	Fluoride (as F)	BDL [DL=0.1]	-	mg/l	IS 3025(Part 60): 2008
11.	Sulphate (as SO ₄)	42.54	-	mg/l	IS 3025(Part 24):1986 (Reaffirmed 2009)
12.	Ammonia (as NH ₃)	BDL [DL=0.1]	-	mg/l	APHA 23 rd EDITION:2017 4500-NH ₃ C
13.	Nitrate (as NO ₃ ⁻)	1.51	-	mg/l	IS 3025(Part 34):1988 (Reaffirmed 2019)
14.	Sodium (as Na)	58.66	-	mg/l	IS 3025 (Part 45): 1993 (Reaffirmed -2019)
15.	Potassium (as K)	14.52	-	mg/l	IS 3025 (Part 45): 1993 (Reaffirmed -2019)
Biological Testing- 1.1.28. Water (Ground Water)					
1.	Total coliform	140	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)
2.	Faecal coliform	<2	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)
3.	E. coli	Absent	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)

Remark (If Any):

Terms & Conditions:

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- MoEF & CC recognition valid till 15/01/2024.

Reviewed By

Lomate (TM Chem) & Pawar (TM Micro)
Authorized SignatoryPage 1 Of 1
END OF REPORT

Authorised By

Raju Ghule (LMR)
Authorized Signatory



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Registered Laboratory for Soil testing under Agriculture Department, Maharashtra State.



TEST REPORT

RL-R20-01A

Report No.: RL/TR/2023/02-395

Issue Date: 04/03/2023

Name of Customer: M/S. NILANJAN IRON PVT. LTD

Address of Customer:

Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216.

Mobile- 9970788278

GSTIN- 27AACCN1645H1ZK

SAMPLE REFERENCE

Sample Name	Ground Water
Nature of Sample	Colourless Clear Liquid
Brand Name	-
Batch No.	-
Sample Container	Plastic Container
Sample Quantity	Chemical-5 Liters
Mfg. Dt./Used By	-
Date of Sampling & Time	24/02/2023, 10:50 AM
Location of Sampling	Halsavade Village
Environmental Condition	Stored at 2-8°C
Expiry Date	-
Mfg. By: -	

Sampling Method: RL-MSP-P38

Sampling Plan: 10/02

Unique Identification of the item: NA.

Codification No: RLC- 02/386

Sample Collected By: RAJAS LABORATORIES

Sample Received On: 25/02/2023

Analysis Start On: 25/02/2023

Completion of Analysis: 03/03/2023

Sr. No.	Parameters	Results	Standard Values	Unit	Analysis Method
Chemical Testing- 1.2.42. Water (Ground Water)					
1.	Colour	BDL [DL=1]	-	Hazen	IS 3025(Part 4):2021
2.	Temperature	24.8	-	°C	APHA 23 rd EDITION:2017
3.	Nitrite (as NO ₂ ⁻)	BDL [DL=1]	-	mg/l	IS 3025(Part 34):1988 (Reaffirmed 2019)
4.	Phosphate (as PO ₄)	1.29	-	mg/l	IS 3025(Part 31):1988 (Reaffirmed 2021)
5.	Dissolved Oxygen	1.40	-	mg/l	APHA 23 rd EDITION:2017
6.	Calcium Hardness	98.14	-	mg/l	IS 3025 (Part 40):1991(Reaffirmed 2019)
7.	Phenolphthalein Alkalinity	BDL [DL=5]	-	mg/l	IS 3025 (Part 23): 1986 (Reaffirmed -2019)
8.	Chemical Oxygen Demand (COD)	29.00	-	mg/l	IS 3025 (Part 58) (Reaffirmed – 2017)
9.	Biochemical Oxygen Demand (BOD)	7.50	-	mg/l	IS 3025 (Part 44) (Reaffirmed – 2019)

Remark (If Any):

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TEST REPORT

RL-R20-01B

Report No.: RL/TR/2023/03-405		Issue Date: 31/03/2023	
Name of Customer: M/S. NILANJAN IRON PVT. LTD		SAMPLE REFERENCE	
Address of Customer: Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216. Mobile- 9970788278 GSTIN- 27AACCN1645H1ZK		Sample Type	Ambient air quality monitoring
		Your Reference	Verbal
		Reference Date	-
		Sample ID	-
Sampling Plan Reference No.: 10/03		Sample Location	Near Main Gate
Date & Time of Sampling: 24 th to 25 th March 2023, 10:00 AM		Latitude	-
Codification No: RLC-03/427		Longitude	-
ENVIRONMENTAL CONDITIONS:		Sample Collected By	RAJAS LABORATORIES
Min. Temperature	26°C	Min. Rel. Humidity	21.0%
Max. Temperature	32°C	Max. Rel. Humidity	39.0%
Sample Received On: 25/03/2023		Analysis Start On: 25/03/2023	Completion of Analysis: 30/03/2023

Sr. No.	Parameters	Result	Unit	Standard Values as per NAAQMS	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Ambient Air)					
1.	Sulfur Dioxide (SO ₂)	14.31	µg/m ³	80	IS 5182 (Part 2):2001
2.	Oxides of Nitrogen (NO _x)	29.66	µg/m ³	80	IS 5182 (Part 6):2006
3.	Particulate Matter 10 (µ) (PM 10)	92.14	µg/m ³	100	IS 5182 (Part 23):2006
4.	Particulate Matter 2.5 (µ) (PM 2.5)	39.65	µg/m ³	60	CPCB Guidelines: NAAQMS/36/2012-13
5.	Ozone (O ₃)	8.74	µg/m ³	100	IS 5182 (Part 9):1974
6.	Ammonia (NH ₃)	14.12	µg/m ³	400	CPCB Guidelines: NAAQMS/36/2012-13
7.	Benzene (C ₆ H ₆)	BDL [DL = 0.1]	µg/m ³	5	IS 5182 (Part 11):2006
8.	Benzo-a-pyrene (BaP)	BDL [DL = 0.5]	ng/m ³	1	CPCB Guidelines: NAAQMS/36/2012-13
9.	Carbon Monoxide (CO)	0.87	mg/m ³	4	IS 5182 (Part 10):1999
10.	Lead (Pb)	BDL [DL = 0.1]	µg/m ³	1	IS 5182 (Part 22):2004
11.	Arsenic (As)	BDL [DL = 2]	ng/m ³	6	CPCB Guidelines: NAAQMS/36/2012-13
12.	Nickel (Ni)	BDL [DL = 5]	ng/m ³	20	CPCB Guidelines: NAAQMS/36/2012-13

BDL = Below Detection Limit, DL = Detection Limit

Remark (If Any): With respect to above parameters, sample conforms to the standard values as per NAAQMS.

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/RDS/C-123	Asha Enviro	Valid Up to 05/07/2022
02.	RL/INS/FDS/C-124	Asha Enviro	Valid Up to 05/07/2022

Terms & Conditions:

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TEST REPORT

RL-R20-01B

Report No.: RL/TR/2023/03-406		Issue Date: 31/03/2023	
Name of Customer: M/S. NILANJAN IRON PVT. LTD		SAMPLE REFERENCE	
Address of Customer: Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216. Mobile- 9970788278 GSTIN- 27AACCN1645H1ZK		Sample Type	Ambient air quality monitoring
		Your Reference	Verbal
		Reference Date	-
		Sample ID	-
Sampling Plan Reference No.: 10/03		Sample Location	Furnace Shed
Date & Time of Sampling: 24 th to 25 th March 2023, 10:30 AM		Latitude	-
Codification No: RLC-03/428		Longitude	-
ENVIRONMENTAL CONDITIONS:		Sample Collected By	RAJAS LABORATORIES
Min. Temperature	25°C	Min. Rel. Humidity	20.0%
Max. Temperature	33°C	Max. Rel. Humidity	31.0%
Sample Received On: 25/03/2023	Analysis Start On: 25/03/2023	Completion of Analysis: 30/03/2023	

Sr. No.	Parameters	Result	Unit	Standard Values as per NAAQMS	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Ambient Air)					
1.	Sulfur Dioxide (SO ₂)	16.68	µg/m ³	80	IS 5182 (Part 2):2001
2.	Oxides of Nitrogen (NO _x)	34.54	µg/m ³	80	IS 5182 (Part 6):2006
3.	Particulate Matter 10 (µ) (PM 10)	88.74	µg/m ³	100	IS 5182 (Part 23):2006
4.	Particulate Matter 2.5 (µ) (PM 2.5)	31.69	µg/m ³	60	CPCB Guidelines: NAAQMS/36/2012-13
5.	Ozone (O ₃)	12.59	µg/m ³	100	IS 5182 (Part 9):1974
6.	Ammonia (NH ₃)	23.57	µg/m ³	400	CPCB Guidelines: NAAQMS/36/2012-13
7.	Benzene (C ₆ H ₆)	BDL [DL = 0.1]	µg/m ³	5	IS 5182 (Part 11):2006
8.	Benzo-a-pyrene (BaP)	BDL [DL = 0.5]	ng/m ³	1	CPCB Guidelines: NAAQMS/36/2012-13
9.	Carbon Monoxide (CO)	0.63	mg/m ³	4	IS 5182 (Part 10):1999
10.	Lead (Pb)	BDL [DL = 0.1]	µg/m ³	1	IS 5182 (Part 22):2004
11.	Arsenic (As)	BDL [DL = 2]	ng/m ³	6	CPCB Guidelines: NAAQMS/36/2012-13
12.	Nickel (Ni)	BDL [DL = 5]	ng/m ³	20	CPCB Guidelines: NAAQMS/36/2012-13

BDL = Below Detection Limit, DL = Detection Limit

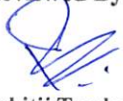
Remark (If Any): With respect to above parameters, sample conforms to the standard values as per NAAQMS.

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/RDS/C-111	Asha Enviro	Valid Up to 05/07/2022
02.	RL/INS/FDS/C-110	Asha Enviro	Valid Up to 05/07/2022

Terms & Conditions:

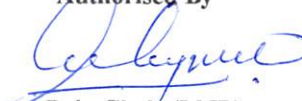
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TEST REPORT

RL-R20-01B

Report No.: RL/TR/2023/03-407		Issue Date: 31/03/2023	
Name of Customer: M/S. NILANJAN IRON PVT. LTD		SAMPLE REFERENCE	
Address of Customer:		Sample Type	Ambient air quality monitoring
Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216.		Your Reference	Verbal
Mobile- 9970788278		Reference Date	-
GSTIN- 27AACCN1645H1ZK		Sample ID	-
Sampling Plan Reference No.: 10/03		Sample Location	CCM Shed
Date & Time of Sampling: 24 th to 25 th March 2023, 11:00 AM		Latitude	-
Codification No: RLC-03/429		Longitude	-
ENVIRONMENTAL CONDITIONS:		Sample Collected By	RAJAS LABORATORIES
Min. Temperature	26°C	Min. Rel. Humidity	21.0%
Max. Temperature	32°C	Max. Rel. Humidity	37.0%
Sample Received On: 25/03/2023	Analysis Start On: 25/03/2023	Completion of Analysis: 30/03/2023	

Sr. No.	Parameters	Result	Unit	Standard Values as per NAAQMS	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Ambient Air)					
1.	Sulfur Dioxide (SO ₂)	13.22	µg/m ³	80	IS 5182 (Part 2):2001
2.	Oxides of Nitrogen (NO _x)	28.54	µg/m ³	80	IS 5182 (Part 6):2006
3.	Particulate Matter 10 (µ) (PM 10)	82.31	µg/m ³	100	IS 5182 (Part 23):2006
4.	Particulate Matter 2.5 (µ) (PM 2.5)	33.65	µg/m ³	60	CPCB Guidelines: NAAQMS/36/2012-13
5.	Ozone (O ₃)	8.74	µg/m ³	100	IS 5182 (Part 9):1974
6.	Ammonia (NH ₃)	12.57	µg/m ³	400	CPCB Guidelines: NAAQMS/36/2012-13
7.	Benzene (C ₆ H ₆)	BDL [DL = 0.1]	µg/m ³	5	IS 5182 (Part 11):2006
8.	Benzo-a-pyrene (BaP)	BDL [DL = 0.5]	ng/m ³	1	CPCB Guidelines: NAAQMS/36/2012-13
9.	Carbon Monoxide (CO)	0.48	mg/m ³	4	IS 5182 (Part 10):1999
10.	Lead (Pb)	BDL [DL = 0.1]	µg/m ³	1	IS 5182 (Part 22):2004
11.	Arsenic (As)	BDL [DL = 2]	ng/m ³	6	CPCB Guidelines: NAAQMS/36/2012-13
12.	Nickel (Ni)	BDL [DL = 5]	ng/m ³	20	CPCB Guidelines: NAAQMS/36/2012-13

BDL = Below Detection Limit, DL = Detection Limit

Remark (If Any): With respect to above parameters, sample conforms to the standard values as per NAAQMS.

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/RDS/C-109	Asha Enviro	Valid Up to 05/07/2022
02.	RL/INS/FDS/C-112	Asha Enviro	Valid Up to 05/07/2022

Terms & Conditions:

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TEST REPORT

RL-R20-01C

Report No.: RL/TR/2023/03-408		Issue Date: 31/03/2023	
Name of Customer: M/S. NILANJAN IRON PVT. LTD		SAMPLE REFERENCE	
Address of Customer: Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216. Mobile- 9970788278 GSTIN- 27AACCN1645H1ZK		Sample Type	Stack Emission Monitoring
		Your Reference	Verbal
		Reference Date	-
		Sample ID	-
		Sample Location	Furnace Stack
Sampling Plan Reference No.: 10/03		Latitude	-
Date & Time of Sampling: 24 th March 2023, 11:45 AM		Longitude	-
Codification No: RLC-03/430		Sample Collected By	RAJAS LABORATORIES
STACK DETAILS:		Stack Material	MS
Stack ID	1	Fuel Consumption	-
Stack Height	35 Meters	Flue Gas Temperature	98.5°C
Stack Fuel	-	Flue Gas Velocity	4.1 m/s
Sample Received On: 25/03/2023	Analysis Start On: 25/03/2023	Completion of Analysis: 30/03/2023	

Sr. No.	Parameters	Result	Unit	Standard Values as per MPCB Consent	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Stack Emission)					
1.	Sulfur Dioxide (SO ₂)	2.25	ppm	Not to exceed 80 ppm	IS 11255 (Part 2) : 1985
2.	Total Particulate Matter (TPM)	65.04	mg/Nm ³	Not to exceed 150 mg/Nm ³	IS 11255 (Part 1) : 1985
3.	Oxides of Nitrogen (NO _x)	3.17	ppm	Not to exceed 80 ppm	IS 11255 (Part 7) : 2005

Remark (If Any): The above parameters are within MPCB limits.

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/STK/C-95	Asha Enviro	Valid Up to 05/07/2022

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TEST REPORT

RL-R20-01D

Report No.: RL/TR/2023/03-409	Issue Date: 31/03/2023
Name of Customer: M/S. NILANJAN IRON PVT. LTD	SAMPLE REFERENCE
Address of Customer: Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216. Mobile- 9970788278 GSTIN- 27AACCN1645H1ZK	Sample Type Ambient noise level monitoring
	Codification No RLC-03/431
	Your Reference Verbal
	Reference Date -
	Sample ID -
	Sample Location -
Sampling Plan Reference No.: 10/03	Latitude -
Date & Time of Sampling: 24 th to 25 th March 2023, 12:30 PM	Longitude -
Sample Collected By: RAJAS LABORATORIES	
Sample Received On: 25/03/2023	Analysis Start On: 25/03/2023
	Completion of Analysis: 30/03/2023

Sr. No.	Parameters	Result	Unit	Standard Values as per general CPCB guidelines	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Ambient Noise Levels -Excluding vibration)					
DAY					CPCB's Protocol for Ambient Noise Level Monitoring:2015
1.	Main Gate	65.9	dB(A)	75	
2.	Admin Office	63.2			
NIGHT					
1.	Main Gate	55.8	dB(A)	70	
2.	Admin Office	51.7			

Remark (If Any): Above readings conforms to standard values as per CPCB guidelines.

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/NM/C-98	HTC SL-1350	Valid Up to 05/07/2022

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TEST REPORT

RL-R20-01D

Report No.: RL/TR/2023/03-410	Issue Date: 31/03/2023
Name of Customer: M/S. NILANJAN IRON PVT. LTD	SAMPLE REFERENCE
Address of Customer: Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur – 416216. Mobile- 9970788278 GSTIN- 27AACCN1645H1ZK	Sample Type Work place noise monitoring
	Codification No RLC-03/432
	Your Reference Verbal
	Reference Date -
	Sample ID -
Sampling Plan Reference No.: 10/03	Latitude -
Date & Time of Sampling: 24 th March 2023, 02:15 PM	Longitude -
Sample Collected By: RAJAS LABORATORIES	
Sample Received On: 25/03/2023	Analysis Start On: 25/03/2023
	Completion of Analysis: 30/03/2023

Sr. No.	Parameters	Result	Unit	Standard Values as per general CPCB guidelines	Analysis Method
Chemical Testing- 1.2.3. Atmospheric Pollution (Ambient Noise Levels -Excluding vibration)					
1.	Furnace Shed	63.4	dB(A)	90	RL-SOP-C-34, Ver.001, Issue Date 01 April:2022
2.	Casting Area	61.9			
3.	Raw Material Handling Unit	62.7			

Remark (If Any):

Sr. No.	Instrument ID	Make	Calibration Status
01.	RL/INS/NM/C-98	HTC SL-1350	Valid Up to 05/07/2022

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TEST REPORT

RL-R20-01A

Report No.: RL/TR/2023/03-411

Issue Date: 31/03/2023

Name of Customer: M/S. NILANJAN IRON PVT. LTD		SAMPLE REFERENCE	
Address of Customer: Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur - 416216. Mobile- 9970788278 GSTIN- 27AACCN1645H1ZK		Sample Name	MIDC Water
		Nature of Sample	Colourless Clear Liquid
		Brand Name	-
		Batch No.	-
		Sample Container	Plastic Container
		Sample Quantity	Chemical-5 Liters
		Mfg. Dt./Used By	-
Sampling Method: RL-MSP-P38		Date of Sampling & Time	25/03/2023, 10:00 AM
Sampling Plan: 10/03		Location of Sampling	Project Site
Unique Identification of the item: NA.		Environmental Condition	Stored at 2-8°C
Codification No: RLC- 03/433 & RLM-03/209		Expiry Date	-
Sample Collected By: RAJAS LABORATORIES		Mfg. By: -	
Sample Received On: 25/03/2023	Analysis Start On: 25/03/2023	Completion of Analysis: 30/03/2023	

Sr. No.	Parameters	Results	Standard Values	Unit	Analysis Method
Chemical Testing- 1.2.42. Water (Surface Water)					
1.	Colour	BDL [DL=1]	-	Hazen	IS 3025(Part 4):2021
2.	Temperature	25.0	-	°C	APHA 23 rd EDITION:2017
3.	pH at 25°C	7.91	-	-	IS 3025 (Part 11):1983 (Reaffirmed 2017)
4.	Calcium as Ca	42.57	-	mg/l	IS 3025 (Part 40):1991(Reaffirmed 2019)
5.	Magnesium as Mg	9.11	-	mg/l	APHA 23 rd EDITION:2017
6.	Chloride as Cl	56.31	-	mg/l	IS 3025 (Part 32): 1988 (Reaffirmed 2019)
7.	Total Alkalinity as CaCO ₃	147.89	-	mg/l	IS 3025 (Part 23): 1986 (Reaffirmed -2019)
8.	Total Dissolved Solid at 180°C	312.97	-	mg/l	IS 3025 (Part 16): 1984 (Reaffirmed 2017)
9.	Total Hardness as CaCO ₃	127.44	-	mg/l	IS 3025 (Part 21): 2009 (Reaffirmed 2019)
10.	Turbidity	BDL [DL=1]	-	NTU	IS 3025 (Part 10): 1984 (Reaffirmed 2017)
11.	Electrical Conductivity at 25°C	621.58	-	µS/cm	IS 3025 (Part 14):1984 (Reaffirmed 2019)
12.	Fluoride (as F)	BDL [DL=0.1]	-	mg/l	IS 3025(Part 60): 2008
13.	Sulphate (as SO ₄)	31.27	-	mg/l	IS 3025(Part 24):1986 (Reaffirmed 2009)
14.	Ammonia (as NH ₃)	BDL [DL=0.1]	-	mg/l	APHA 23 rd EDITION:2017 4500-NH ₃ C
15.	Nitrate (as NO ₃ ⁻)	BDL [DL=1]	-	mg/l	IS 3025(Part 34):1988 (Reaffirmed 2019)
16.	Nitrite (as NO ₂ ⁻)	BDL [DL=1]	-	mg/l	IS 3025(Part 34):1988 (Reaffirmed 2019)
17.	Phosphate (as PO ₄)	BDL [DL=1]	-	mg/l	IS 3025(Part 31):1988 (Reaffirmed 2021)
18.	Dissolved Oxygen	7.21	-	mg/l	APHA 23 rd EDITION:2017
19.	Calcium Hardness	89.95	-	mg/l	IS 3025 (Part 40):1991(Reaffirmed 2019)
20.	Phenolphthalein Alkalinity	BDL [DL=5]	-	mg/l	IS 3025 (Part 23): 1986 (Reaffirmed -2019)
21.	Sodium (as Na)	40.58	-	mg/l	IS 3025 (Part 45): 1993 (Reaffirmed -2019)
22.	Potassium (as K)	7.61	-	mg/l	IS 3025 (Part 45): 1993 (Reaffirmed -2019)
23.	Chemical Oxygen Demand (COD)	25.00	-	mg/l	IS 3025 (Part 58) (Reaffirmed - 2017)
24.	Biochemical Oxygen Demand (BOD)	5.30	-	mg/l	IS 3025 (Part 44) (Reaffirmed - 2019)
Biological Testing- 1.1.28. Water (Surface Water)					
1.	Total coliform	90	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)
2.	Faecal coliform	<2	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)
3.	E. coli	Absent	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)

Remark (If Any):

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- The sample will be destroyed after 5 days & 1 month from the date of issue of test report for perishable & non-perishable items respectively.
- The above tested product no way implies that the product, process, services, management and system is approved by NABL.
- Fees not established between the company and the client at the time the order is placed or contract is negotiated shall be at the company's standard rate (Which are subject to change) and all applicable taxes shall be payable by the client.
- MoEF & CC recognition valid till 15/01/2024.

Reviewed By

Lomate (TM Chem) & Pawar (TM Micro)
Authorized Signatory



Authorised By

Raju Ghule (LMR)
Authorized Signatory



AGMARK



RAJAS LABORATORIES

Recognized by AGMARK, MoEF & CC Government of India,
ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 Certified

Registered Laboratory for Soil testing under Agriculture Department, Maharashtra State.



TEST REPORT

RL-R20-01A

Report No.: RL/TR/2023/03-412

Issue Date: 31/03/2023

Name of Customer: M/S. NILANJAN IRON PVT. LTD Address of Customer: Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur - 416216. Mobile- 9970788278 GSTIN- 27AACCN1645H1ZK			SAMPLE REFERENCE		
			Sample Name	Ground Water	
			Nature of Sample	Colourless Clear Liquid	
			Brand Name	-	
			Batch No.	-	
			Sample Container	Plastic Container	
			Sample Quantity	Chemical-5 Liters	
Sampling Method: RL-MSP-P38			Mfg. Dt./Used By	-	
Sampling Plan: 10/03			Date of Sampling & Time	25/03/2023, 10:35 AM	
Unique Identification of the item: NA.			Location of Sampling	Halsavade Village	
Codification No: RLC- 03/434 & RLM-03/210			Environmental Condition	Stored at 2-8°C	
Sample Collected By: RAJAS LABORATORIES			Expiry Date	-	
Sample Received On: 25/03/2023			Mfg. By: -		
Analysis Start On: 25/03/2023			Completion of Analysis: 30/03/2023		
Sr. No.	Parameters	Results	Standard Values	Unit	Analysis Method
Chemical Testing- 1.2.42. Water (Surface Water)					
1.	Colour	BDL [DL=1]	-	Hazen	IS 3025(Part 4):2021
2.	Temperature	24.0	-	°C	APHA 23 rd EDITION:2017
3.	pH at 25°C	7.17	-	-	IS 3025 (Part 11):1983 (Reaffirmed 2017)
4.	Calcium as Ca	39.57	-	mg/l	IS 3025 (Part 40):1991(Reaffirmed 2019)
5.	Magnesium as Mg	25.45	-	mg/l	APHA 23 rd EDITION:2017
6.	Chloride as Cl	138.98	-	mg/l	IS 3025 (Part 32): 1988 (Reaffirmed 2019)
7.	Total Alkalinity as CaCO ₃	201.56	-	mg/l	IS 3025 (Part 23): 1986 (Reaffirmed -2019)
8.	Total Dissolved Solid at 180°C	352.11	-	mg/l	IS 3025 (Part 16): 1984 (Reaffirmed 2017)
9.	Total Hardness as CaCO ₃	196.37	-	mg/l	IS 3025 (Part 21): 2009 (Reaffirmed 2019)
10.	Turbidity	BDL [DL=1]	-	NTU	IS 3025 (Part 10): 1984 (Reaffirmed 2017)
11.	Electrical Conductivity at 25°C	758.41	-	µS/cm	IS 3025 (Part 14):1984 (Reaffirmed 2019)
12.	Fluoride (as F)	BDL [DL=0.1]	-	mg/l	IS 3025(Part 60): 2008
13.	Sulphate (as SO ₄)	41.59	-	mg/l	IS 3025(Part 24):1986 (Reaffirmed 2009)
14.	Ammonia (as NH ₃)	BDL [DL=0.1]	-	mg/l	APHA 23 rd EDITION:2017 4500-NH ₃ C
15.	Nitrate (as NO ₃ ⁻)	1.06	-	mg/l	IS 3025(Part 34):1988 (Reaffirmed 2019)
16.	Nitrite (as NO ₂ ⁻)	BDL [DL=1]	-	mg/l	IS 3025(Part 34):1988 (Reaffirmed 2019)
17.	Phosphate (as PO ₄)	1.33	-	mg/l	IS 3025(Part 31):1988 (Reaffirmed 2021)
18.	Dissolved Oxygen	2.07	-	mg/l	APHA 23 rd EDITION:2017
19.	Calcium Hardness	91.63	-	mg/l	IS 3025 (Part 40):1991(Reaffirmed 2019)
20.	Phenolphthalein Alkalinity	BDL [DL=5]	-	mg/l	IS 3025 (Part 23): 1986 (Reaffirmed -2019)
21.	Sodium (as Na)	41.78	-	mg/l	IS 3025 (Part 45): 1993 (Reaffirmed -2019)
22.	Potassium (as K)	9.89	-	mg/l	IS 3025 (Part 45): 1993 (Reaffirmed -2019)
23.	Chemical Oxygen Demand (COD)	21.00	-	mg/l	IS 3025 (Part 58) (Reaffirmed - 2017)
24.	Biochemical Oxygen Demand (BOD)	7.00	-	mg/l	IS 3025 (Part 44) (Reaffirmed - 2019)
Biological Testing- 1.1.28. Water (Surface Water)					
1.	Total coliform	110	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)
2.	Faecal coliform	<2	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)
3.	E. coli	Absent	-	MPN/100ml	IS 1622-1981 (Reaffirmed-2019)

Remark (If Any):

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Reviewed By

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Authorized Signatory



Page 1 Of 1
END OF REPORT

Authorized By

Raju Ghule (LMR)
Authorized Signatory