



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

✉ nilanjan.iron7@gmail.com ☎ 0231 - 2305454

Ref no:

Date: 01.06.2022

To,
The Chief Conservator of Forest.
Ministry of Environment and Forest, Climate Change
Regional Office (WCZ), Ground Floor
East Wing, New Secretariat Building,
Civil Line, Nagpur-440001

Sub: Submission of Six-monthly compliance reports for the month of June, 2022.

Dear Sir

This has reference to above subject; we are submitting six monthly compliance reports as per conditions stated in Environmental Clearance.

We are enclosing documents herewith for further reference. Our point wise submission is as under:

- I. Tabular compliance
- II. EC letter
- III. Annexures

We hope submitted details are satisfactory. Kindly acknowledge the same.

Thanking you,

For Nilanjan Iron Pvt Ltd,

Authorized Signatory.



Copy to: MPCB Regional office

SPECIFIC CONDITIONS:
SEAC CONDITIONS

| Sr No | Conditions | Compliance by the industry. |
|-------|--|---|
| 1. | PP to ensure that, no waste water is discharged outside the premises. | Water is mainly required for Colling purpose in the process, water will be cooled and settled ad reused in the process hence waste water will not be generated. |
| 2. | PP to ensure that, slag management system is in place before starting manufacturing of proposed product. | We are installed slag crusher unit and crushed slag is sale to brick manufacturers. |
| 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. | We submitted CER plan to ZP Kolhapur. |
| 4. | PP to provide new and renewable energy for illumination of office buildings, street lights, parking areas and maintain the same regularly. | We installed Solar panels for electricity conservation, energy efficient lights provided at office building and streets solar lights. |
| 5. | PP to include water and carbon foot print monitoring in the Environment Management Plan. | we have incurred 05.00 lacs in EMP budget. |
| 6. | PP to provide Sewage Treatment Plant for the treatment of domestic sewage. | Agreed and complie. |

SEIAA CONDITIONS-

| Sr No | Conditions | Compliance by the industry. |
|-------|--|--|
| 1. | PP submitted MIDC plan dated 07.01.2021. as per the said plan total plot area of the project is 10,174sqm. PP has provided 3459.16sqm as green belt (34%). | We have approved plan with 34% greenbelt. |
| 2. | PP to undertake Miyawaki plantation of native and indigenous trees such as Banyan, Peeple, 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. | As the area of 34 % will be developed green belt in three years or as early as possible. The Plants species selected based on local and pollution reduction efficiency. |
| 3. | PP to ensure that, proposed project is a ZLD unit. | Waste water will not generated from the process. |
| 4. | PP strictly observe the Solid Waste Management Rules 2016 as amended time to time. | We assured you that no hazardous chemicals are being used in the plant. |

| | | |
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| 5. | PP strictly observe the Hazardous and Other Wastes (Management & Transboundary Movement) Rules 2016 as amended time to time. | As per the consent granted by MPCB, industry shall not generate any 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 (Protection) Rules, 1986 amended time to time. | We have installed adequate air pollution control system. Ventury scrubber with stack. |
| 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. | We assured you that no hazardous chemicals are being used in the plant. As per the consent granted by MPCB, industry shall not generate any hazardous waste. |
| 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). | We assured you that no hazardous chemicals are being used in the plant. |
| 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. DIHS licence no: 10004514 dt.01/09/2019. Safety audit is carried out report is available with the us. |
| 10. | PP to Provide solar energy for illumination of Administrative Building, Street Lights and parking Area. | Solar street lights provided. |
| 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. | NA |
| 12. | PP to provide roof top Rain Water Harvesting Facility. | Agreed and complying. |

GENERAL CONDITIONS:

| Sr No | Conditions | Compliance by the industry. |
|--------------|---|---|
| 1. | 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 | Agreed and Complied. English Advertisement:25/042022 Marathi Advertisement: 24/04/2022. Same Is Submitted to SRO Office Kolhapur. |

| | | |
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| | 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 | Acknowledgment Receipt Enclosed. |
| 2. | 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. | Complied with We are submitting the six monthly compliance reports regularly. Same is submitted to SRO Kolhapur. |
| 3. | Separate fund shall be allocated for the implementation of Environmental Management Plan along with item wise break up and specific time line for its completion. The cost shall be included as part of the project cost. The funds earmarked for the environmental protection measures shall not be diverted for other purpose and year-wise expenditure should be reported to the MPCB and SEIAA. | Agreed to Comply. We assured that the Funds made towards Environmental Protection Measures will not be diverted to any other activity. |
| 4. | A separate Environmental Management Cell with qualified personnel shall be set up for implementation of the stipulated environmental safeguards. | Agreed to Comply. An internal cell has been formed for environment management. |
| 5. | 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. | Activities will be stopped in case of any failure in Unit. |
| 6. | PP to strictly follow conditions stipulated in the Consent to Establish/ Operate issued by the Maharashtra Pollution Control Board. | Agreed to Comply |
| 7. | 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. | We have provided Separate drains for storm water. No trade effluent is being generated as water is being used for quenching of hot products. Water is being used for cooling of hot billets, so that during manufacturing process effluent is not generated. |
| 8. | 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. | We are submitting six monthly compliance report regularly since grant of the EC. |
| 9. | 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 | We are providing ear plugs, acoustic encloser to the DG Sets and Green Belt developed along the periphery of the plant. |

| | | |
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| | adequate noise control measures and protective equipment's like ear muff and ear plug etc. | |
| 10. | 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. | Firefighting system has been provided for the plant. The plant operation involves heat / smoke emission so that smoke detection system is not installed. |
| 11. | PP to scrupulously follow the requirements of Maharashtra Factories Act, 1948 & Rules 1963 as amended from time to time. | Agreed to comply. |
| 12. | 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. | Agreed and complied. Industry is submitting Environmental statement to MPCB regularly. |

ANNEXURE 1

EC LETTER



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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PARIVESH
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 and Virtuous Environmental Single-Window Hub)*



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 | | | |
| l | 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 Ground water 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 Exhaust 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 : | MSSEDCL | | |
| | 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 (inflammable/explosive/hazardous/toxic substances) | | | | | | | |
| Description | Status | Location | Storage Capacity in MT | Maximum Quantit y of Storage at any point of time in MT | Consumpti on / Month in MT | Source of Supply | Means of transpor tation |
| 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 as amended time to time & Air (Prevention and Control of Pollution) Act, 1981 as amended time to time.
7. PP to ensure storage of chemicals as per the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as 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-Mhaiskar
(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.

ANNEXURE 2
CONSENT TO OPERATE

MAHARASHTRA POLLUTION CONTROL BOARD

REGIONAL OFFICE KOLHAPUR

Phone : 0231-2652952 /2660448

Fax : 0231-2652952

Email : rokolhapur@mpcb.gov.in



Udyog Bhawan Near Collector Office,

Kolhapur - 416003

Visit At : <http://mpcb.gov.in>

Date: 07/03/2018

Orange/L.S.I/

Consent No: RO-KOLHAPUR/CONSENT/1803000246/079/18

Renewal of Consent 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 / Renewal of Authorization under Rule 5 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

[To be referred as Water Act, Air Act and HW (M&H) Rules respectively].

.....
CONSENT is hereby granted to

M/s. Nilanjan Iron Pvt Ltd,
Pot. No. B-07, KAGAL-5 STAR MIDC,
Tal-Kagal, Dist-Kolhapur.

Located in the area declared under the provisions of the Water Act, Air act and Authorization under the provisions of HW (M&H) Rules and amendments thereto subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following terms and conditions:

1. The Consent to Operate is granted for a period up to: 31.12.2023.

2. The Consent is valid for the manufacture of -

| Sr. No. | Product Name | Maximum Quantity | UOM |
|---------|---------------------------|------------------|------|
| 1 | M.S Ingots /Steel Billets | 3000 | MT/M |

3. CONDITIONS UNDER WATER ACT:

(i) The daily quantity of trade effluent from the factory shall be NIL.

(ii) The daily quantity of sewage effluent from the factory shall not exceed 3.0M³.

(iii) Trade Effluent Treatment: NA

(iv) Trade Effluent Disposal: NA

(v) Sewage Effluent Treatment: The applicant shall provide comprehensive treatment system as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of treated effluent to the following standards.

- | | | |
|-----|-------------------|---------------|
| (1) | Suspended Solids | Not to exceed |
| (2) | BOD 3 days 27° C. | Not to exceed |



- (vi) **Sewage Effluent Disposal:** The treated domestic effluent shall be soaked in a soak pit, which shall be got cleaned periodically. Overflow, if any, shall be used on land for gardening / plantation only.

(vii) **Non-Hazardous Solid Wastes:**

| Sr. No. | Type Of Waste | Quantity | UOM | Disposal |
|---------|---------------|----------|------|----------|
| 1 | Steel Scrap | 300 | MT/M | Sale |

- (viii) **Other Conditions:** Industry shall monitor effluent quality regularly.

4. The applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 (to be referred as Cess Act) and amendment Rules, 2003 there under

The daily water consumption for the following categories is as under:

| | | |
|------------------------------|-----|-----------|
| (i) Domestic | ... | 5.00 CMD |
| (ii) Industrial Processing | ... | 0.00 CMD |
| (iii) Industrial Cooling | ... | 60.00 CMD |
| (iv) Agriculture / Gardening | ... | 0.00 CMD |

The applicant shall regularly submit to the Board the returns of water consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.

5. CONDITIONS UNDER AIR ACT :

- (i) The applicant shall install a comprehensive control system consisting of control equipments as is warranted with reference to generation of emission and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards:

A) Control Equipment:

- The industry shall provide adequate mechanical dust collector, Scrubber to furnace.
- Dust collector of sufficient capacity shall be provided to shot blasting.
- There shall not be any secondary (fugitive) emission.

B) Standards for Emissions of Air Pollutants:

- TPM Not to exceed 150 mg/Nm³.
- So₂ Not to exceed ... Kg/Day.

6. Conditions for D.G. Set : NA

7. Standards for Stack Emissions:

- (i) The applicant shall observe the following fuel pattern:-

| Sr. No. | Type Of Fuel | Quantity | UOM |
|---------|--------------|----------|-----|
| | Electricity | .. | ... |

- (ii) The applicant shall erect the chimney(s) of the following specifications:-

| Sr. No. | Chimney Attached To | Height in Mtrs. |
|---------|---------------------|-----------------|
| 1 | Induction Furnace | 30 |

- (iii) 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.

- (iv) 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.

(vi) **Other Conditions:**

- 1) The industry shall not cause any nuisance in surrounding area.
- 2) The industry shall monitor stack emissions and ambient air Quality Regularly.

8. Conditions Under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 :

- (i) The Industry shall handle hazardous wastes as specified below.
The Industry shall not generate any type of hazardous waste

9. Whenever due to any accident or gas leakage 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 the production process shall be stopped by taking all necessary safety measures. Industry shall also monitor the emission and ensure that the emission do not cause any harm or nuisance in the surrounding. The industry shall not restart the process without permission of the Board and other statutory organization as require under the law.

10. Industry comply with following additional conditions:

- i. The applicant maintain good housekeeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area / inhabitants.
- ii. The applicant bring minimum 33% of the available open land under green coverage/ tree plantation.
- iii. Solid waste – 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 take necessary permissions from civic authorities for disposal to dumping ground.
- iv. The applicant provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the applicant to maintain compliance with the terms and conditions of the consent. In the absence, the applicant stop, reduce or otherwise, control production to abide by terms & conditions of this consent regarding pollution levels.



A handwritten signature in blue ink.

- (vi) **Sewage Effluent Disposal:** The treated domestic effluent shall be soaked in a soak pit, which shall be got cleaned periodically. Overflow, if any, shall be used on land for gardening / plantation only.

(vii) **Non-Hazardous Solid Wastes:**

| Sr. No. | Type Of Waste | Quantity | UOM | Disposal |
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The daily water consumption for the following categories is as under:

| | | |
|------------------------------|-----|-----------|
| (i) Domestic | ... | 5.00 CMD |
| (ii) Industrial Processing | ... | 0.00 CMD |
| (iii) Industrial Cooling | ... | 60.00 CMD |
| (iv) Agriculture / Gardening | ... | 0.00 CMD |

The applicant shall regularly submit to the Board the returns of water consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.

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- (i) The applicant shall install a comprehensive control system consisting of control equipments as is warranted with reference to generation of emission and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards:

A) Control Equipment:

1. The industry shall provide adequate mechanical dust collector, **Scrubber to furnace.**
2. Dust collector of sufficient capacity shall be provided to shot blasting.
3. There shall not be any secondary (fugitive) emission.

B) Standards for Emissions of Air Pollutants:

- (i) TPM Not to exceed 150 mg/Nm³.
- (ii) So₂ Not to exceed ... Kg/Day.

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- (i) **The applicant shall observe the following fuel pattern:-**

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|---------|--------------|----------|-----|
| | Electricity | .. | ... |

- (ii) **The applicant shall erect the chimney(s) of the following specifications:-**

| Sr. No. | Chimney Attached To | Height in Mtrs. |
|---------|---------------------|-----------------|
| 1 | Induction Furnace | 30 |

- (iii) 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.

- (iv) 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.

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10. Industry comply with following additional conditions:

- i. The applicant maintain good housekeeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area / inhabitants.
- ii. The applicant bring minimum 33% of the available open land under green coverage/ tree plantation.
- iii. Solid waste – 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 take necessary permissions from civic authorities for disposal to dumping ground.
- iv. The applicant provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the applicant to maintain compliance with the terms and conditions of the consent. In the absence, the applicant stop, reduce or otherwise, control production to abide by terms & conditions of this consent regarding pollution levels.

- v. The applicant not change or alter quantity, quality, the rate of discharge, temperature or the mode of the effluent / emissions or hazardous wastes or control equipment's provided for without previous written permission of the Board.
- vi. The applicant provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous wastes to the Board staff at the terminal or designated points and pay to the Board for the services rendered in this behalf.
- vii. The applicant make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.
- viii. The firm submit to this office, the 30th day of September every year, the **Environmental Statement Report** for the financial year ending 31st March in the prescribed Form-V as pre the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- ix. As inspection book be opened and made available to the Board's officers during their visit to the applicant.
- x. The applicant install a separate electric 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 be maintained.
- xi. Separate drainage system be provided for collection of trade and sewage effluents. Terminal manholes be provided at the end of collection system with arrangement for measuring the flow. No effluent be admitted in the pipes / sewers down- stream of the terminal manholes. No effluent find its way other than in designed and provided collection System.
- xii. Neither storm water nor discharge from other premises be allowed to mix with the effluents from the factory.
11. **Board reserves the right to review, amend, suspend, revoke Etc. this consent and the same be binding on the industry.**
12. **This consent shall not be construed as exemption from obtaining necessary NOC/permission from any other Government agencies.**
13. **Industry shall obtain permission of CGWA for use of ground water.**
14. **The industry shall submit B.G. of Rs. 1.0 lacs against O & M of pollution control system to Regional Office, Kolhapur having validity 31.03.2024.**
15. **The Capital investment of the industry is Rs. 1408.51 Lacs.**



(Dilip K. Khedkar)
Regional Officer, Kolhapur

To,
M/s. Nilanjan Iron Pvt Ltd,
Pot. No. B-07, KAGAL 5 STAR MIDC,
Tal-Kagal, Dist-Kolhapur.

Copy submitted to:

1. The Member Secretary, MPC Board, Mumbai.
2. The Chief Accounts Officer, MPC Board, Mumbai.
1. Cess wing/Statistical wing/Air wing/Hazardous Management wing, MPC Board, Mumbai.

Received Consent fee of -

| Sr. No. | Amount(Rs.) | Transaction No. | Date | Drawn On |
|---------|-------------|-----------------|------------|----------|
| 1 | 50,000/- | TXN1711000923 | 10.11.2017 | ... |
| 2 | 115000/- | TXN1712001804 | 21.12.2017 | ... |

Copy to :-

1. The Sub Regional Officer, MPC Board, Kolhapur



ANNEXURE 3

EC LETTER SUBMISSION



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

✉ nilanjan.iron7@gmail.com ☎ 0231 - 2305454

To,

Date: 27/04/2022

To,

The Sub-Regional officer,
Maharashtra Pollution Control Board,
Kolhapur..

Subject: Submission of Environmental Clearance copy granted to our expansion project M/s. **Nilanjan Iron Pvt. Ltd.**, located at Plot No: B - 07, Five Star MIDC- Kagal, Taluka- Karveer, District – Kolhapur, Maharashtra.

Reference: Environmental Clearance granted by Ministry of Environment, Forest and Climate Change. (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

Respected Sir,

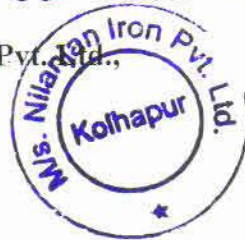
We, **M/s. Nilanjan Iron Pvt. Ltd.** Hereby bring to notice you that, the Ministry of Environment, Forest and Climate Change (MoEF&CC), SEIAA, Maharashtra has granted "Environmental Clearance" to our proposed expansion of MS Billets: 3000 MTM to 15000 MTM (Expansion by 12000 MTM) at Plot no: B-07, Five Star MIDC- Kagal, Taluka- Karveer, District – Kolhapur, Maharashtra.

The copy of the "Environmental Clearance" is available of PARIVESH Portal. This Environmental clearance letter is available at our office.

We are here submitting granted copy of EC to you for kind perusal.

M/s. Nilanjan Iron Pvt. Ltd.,

Director,



Encl: Copy of EC.

29/04/2022
REGIONAL OFFICE
P. C. BOARD
DYOG BHAVAN
4TH FLOOR NEAR COLLECTOR OFFICE
KOLHAPUR - 416 003



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

✉ nilanjan.iron7@gmail.com ☎ 0231 - 2305454

Date: 27/04/2022

To,
The Regional officer,
Maharashtra Pollution Control Board,
Kolhapur.

Subject: Submission of Environmental Clearance copy granted to our expansion project M/s. **Nilanjan Iron Pvt. Ltd.**, located at Plot No: B - 07, Five Star MIDC- Kagal, Taluka- Karveer, District – Kolhapur, Maharashtra.

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M/s. Nilanjan Iron Pvt. Ltd.

Director,

Encl: Copy of EC.



28/04/2022
REGIONAL OFFICE
P. C. BOARD
DYOG BHAVAN
FLOOR NEAR COLLECTOR OFFICE
KOLHAPUR - 416 003

ANNEXURE 4

EC ADVERTISEMENT

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.

ANNEXURE 5
FACTORY ACT LICENCE
2018-23



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

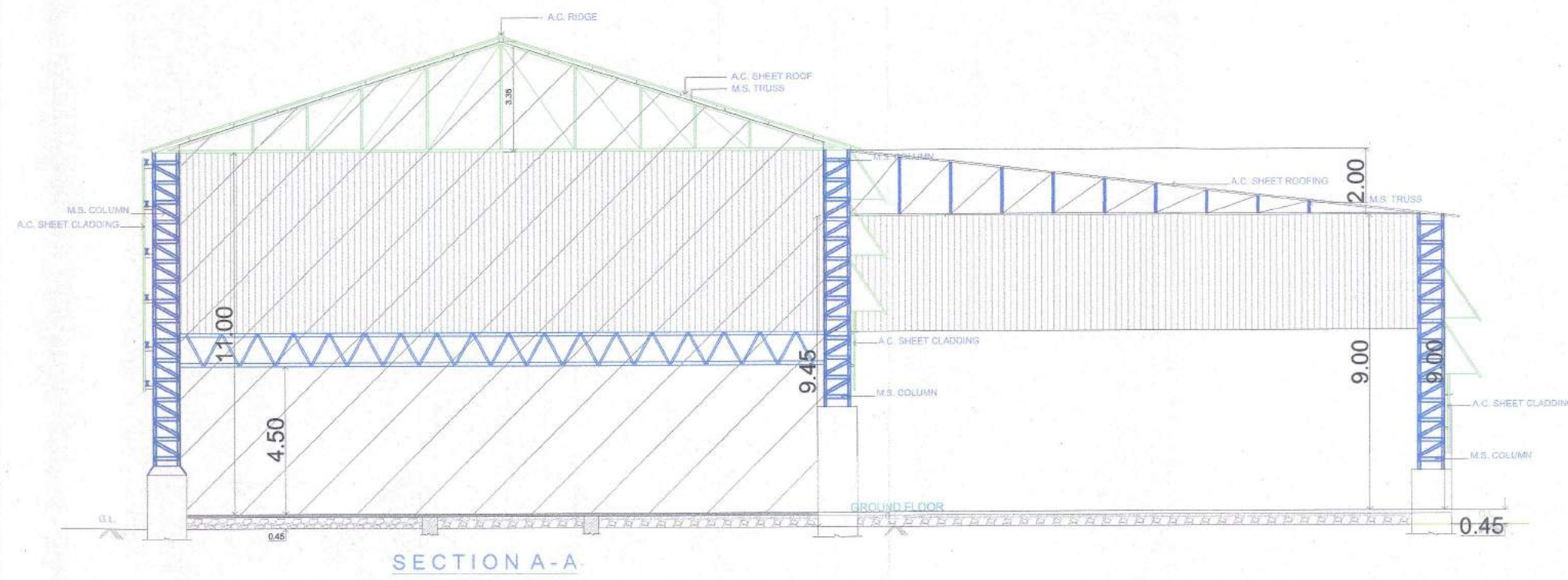
कारखान्याच्या इमारतीचे नकाशे दिनांक १८.०५.२०१८ च्या जावक क्रमांक १२३०००००००१५०४७ खाली मंजूर केले गेले आहेत.

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

ANNEXURE 6

APPROVED LAYOUT



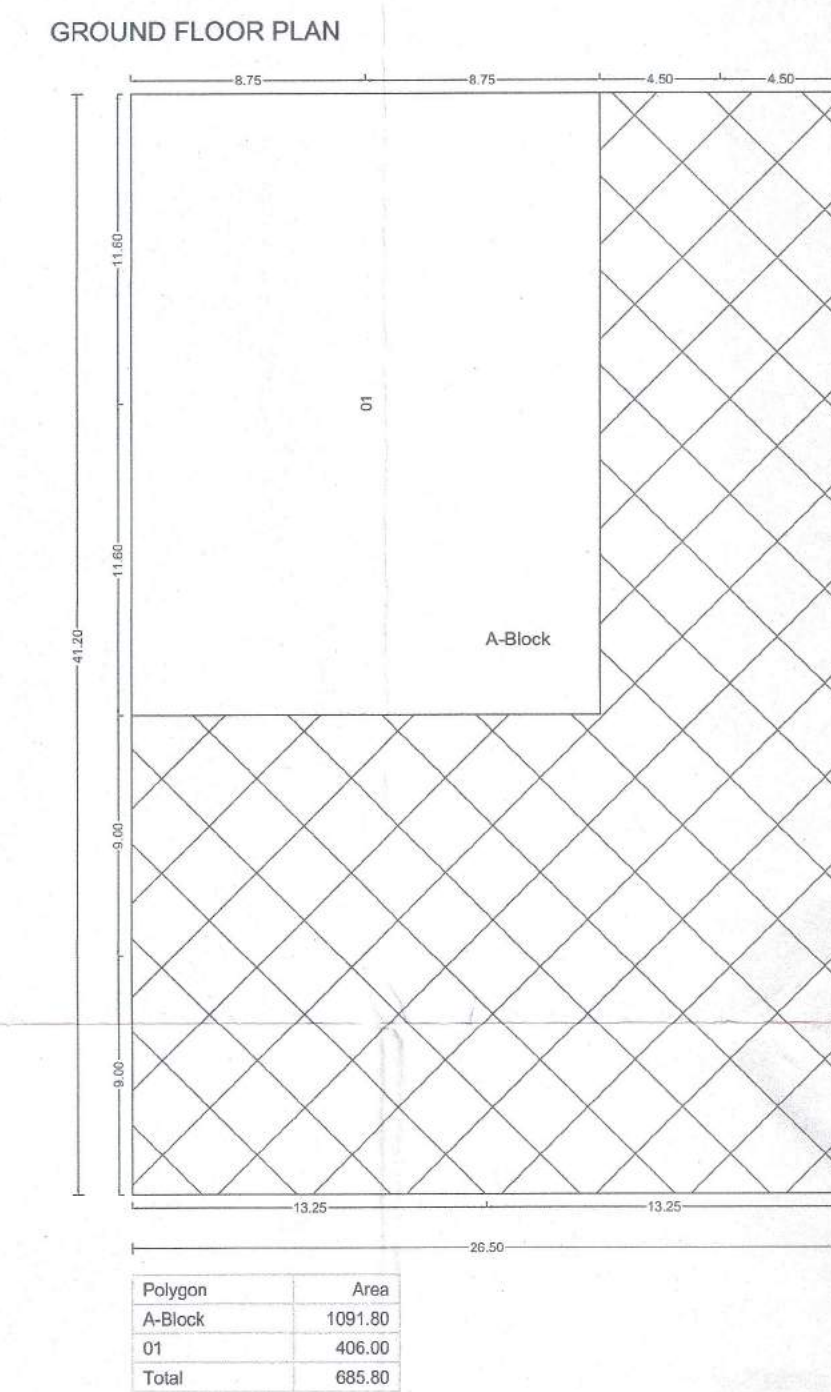
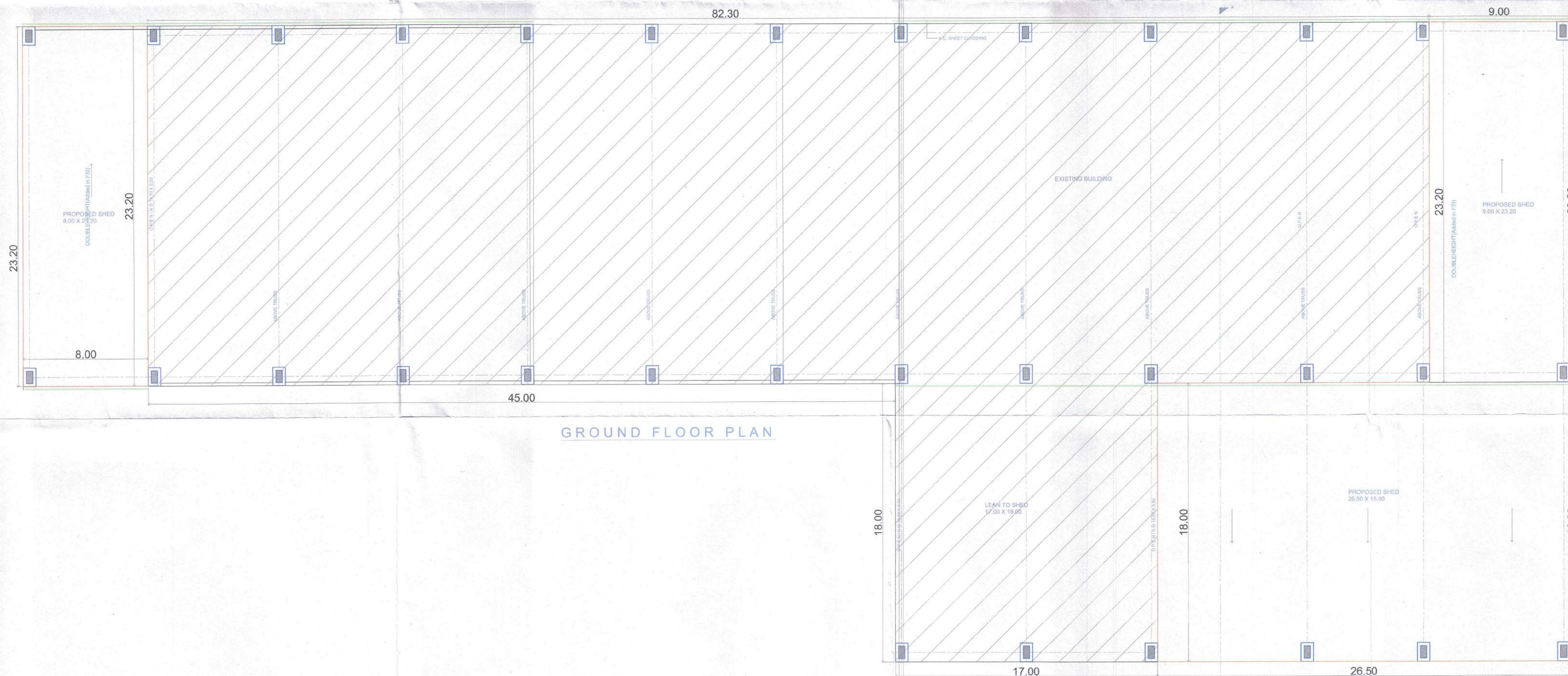
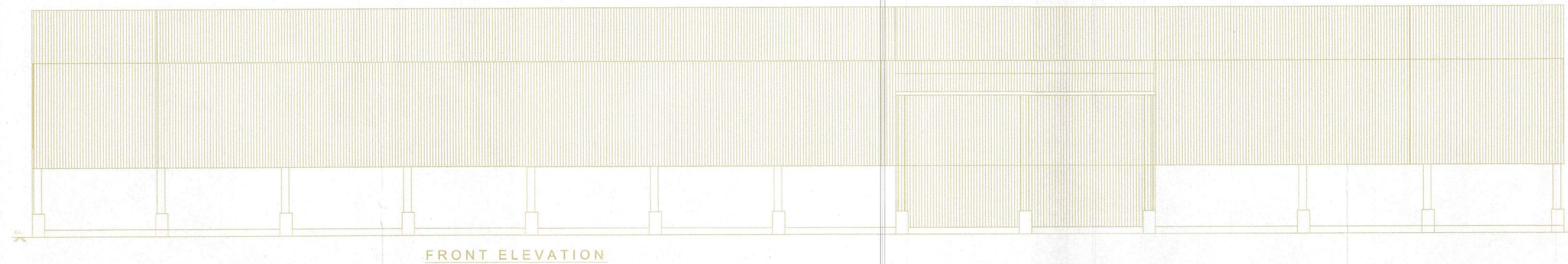
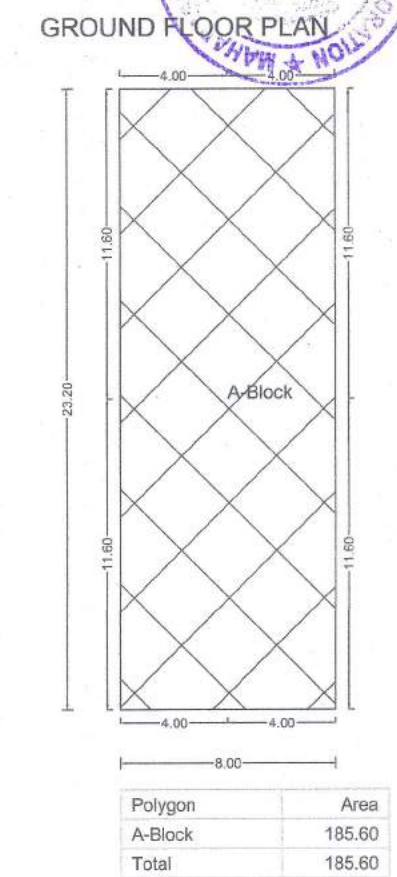
| FLOOR WISE FSI STATEMENT: A (PROPOSED SHED) | | | | | | | | | | | | | | | |
|---|-------------------|-------|--------|-------|-------------------|-------|------|-------|------------|-------|---------|--------|------|------------|-------------|
| FLOORS | PROPOSED FSI AREA | | | | EXISTING FSI AREA | | | | DOUBLE HT. | | BALCONY | | PASS | LIFT LOBBY | STAIR LOBBY |
| | COMM. | RESI. | IND. | SPEC. | COMM. | RESI. | IND. | SPEC. | FSI AREA | PERM. | PROP. | EXCESS | | | |
| GROUND FLOOR | 0.00 | 0.00 | 871.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 435.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 871.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 435.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

STAMP OF APPROVAL

No. DB/KH/FS/B-7/A08646/ OF 2021
DATE : 07/01/2021
SUBHASH
DHONDIRAM
MORE
SPA / EXECUTIVE ENGINEER
MIDC DIVISION KOLHAPUR

BUILDING: A (PROPOSED SHED)

- SUMMARY OF AREA •
- 1) BUILT UP AREA :- 35.81% = 3643.40 (G.C.)
- 2) GREEN BELT AREA :- 34.0% = 3459.16
- 3) PARKING AREA :- 13.0% = 1322.00
- 4) ROAD SPACE :- 17.19% = 1743.44
- 5) TOTAL PLOT AREA :- 100% = 10174.00



OWNER'S NAME: Nilanjan Iron Pvt. Ltd. OWNER'S SIGN: [Signature]

PROJECT: Plot No. : B-7 Survey No. :
Ward : Kolhapur Village :
INDUSTRIAL AREA : Kagal Hattanangale (Five Star)

ARCHITECT: Santosh Pandurang Sutar
A/p - Sangamda, Tal - Karmir, Dist - Kolhapur. ARCHITECT'S SIGN: [Signature]

JOB NO. : DRG.NO. : SCALE : 1:100 DRAWN BY/CHECKED BY :
INWARD NO. : 22970613 DATE : 19-12-2020
KEY NO. : 18 SHEET NO. : 2/2

**ANNEXURE 7
SAFETY AUDIT
REPORT OCT-2021**

**SCHEDULE II
(Rule 8 and 9)**

PART 1

(SCHEDULE II, Rule 8 & 9)

1. Name and address of the factory: **M/S Nilanjan Iron Pvt. Ltd.
Plot no. B -7, five star M. I. D. C., kagal,
Dist. Kolhapur - 416 236**
2. Name of the Occupier: **Shri Devendra Kumar Singal**
3. Date of Audit: **07/10/2021**
4. List of raw material with maximum storage quantity: **Annexure**
5. List of finished products with maximum storage quantity: **Annexure**
6. Manufacturing process flow chart: Attached as **Annexure**
7. P I Diagram of all plants (Chemical Factories): -
8. Name of the Safety Auditor and Certificate No. and name of the person who has carried out safety audit: **Dr. Vikas Vishwas Jadhav-MS/DISH/SLP/J-005/2019**
9. Whether enclosed Safety Audit Report as per IS 14489, or any such standards prevailing at the relevant time, whichever is latest: **Audit Report is as per IS 14489:2018- "Code of Practice on Occupational Safety and Health"**

Date:



Signature of Safety Auditor

I (Occupier) undertake to submit the action taken report on recommendations of Safety Audit on or before

Date:

Signature of the Occupier

ANNEXURE 8

CER BUDGET GIVEN ZP CEO



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

ANNEXURE 9

REVISED EMP BUDGET

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 |

**ANNEXURE 10
ENVIRONMENTAL
STATEMENT-2021**



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000036000

Submitted Date

21-09-2021

PART A

Company Information

Company Name

NILANJAN IRON PVT LTD

Application UAN number

MPCB-CONSENT-0000036072

Address

PLOT NO. B-7, KAGAL FIVE STAR MIDC,
TQ. KAGAL, DIST. KOLHAPUR

Plot no

B-7, KAGAL,MIDC

Taluka

KAGAL

Village

KAGAL

Capital Investment (In lakhs)

1408

Scale

LSI

City

KOLHAPUR

Pincode

416236

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 29 2020 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

29706

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 | 56.00 |
| Domestic | 05.00 | 3.50 |
| All others | 00.00 | 0.00 |
| Total | 65.00 | 59.50 |

| | | | |
|--|------------------|-----------------|-----|
| <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 | 0.6 | 0.5 | 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, PIG IRON | 36107 | 33222.617 | MT/A | |

| | | | |
|----------------------------|------------------|-----------------|-----|
| <u>4) Fuel Consumption</u> | | | |
| Fuel Name | Consent quantity | Actual Quantity | UOM |
| ELECTRICITY | 00 | 39842.895 | 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 | 39 | 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 | 3251 | 3516 | 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 | 3516 | 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) |
|---|-----------------------------------|----------------------------|
| GREEN BELT DEVELOPMENT | PLANTATION | 0.5 |

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection

UP GRADATION IN APC

Environmental Protection Measures

ADQUATE POLUTION CONTROL SYSTEM INSTALLED AND DAY BY DAY UPGRADATION TAKES PLACE

Capital Investment (Lacks)

75

Part-I

Any other particulars for improving the quality of the environment.

Particulars

ADQUATE POLUTION CONTROL SYSTEM INSTALLED AND DAY BY DAY UPGRADATION TAKES PLACE, INDUSTRY ALSO MAINTAINING THE GREEN BELT AREA AS PER DIRECTION

Name & Designation

ANKUSH SINGLA (DIRECTOR)

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000036000

Submitted On:

21-09-2021

ANNEXURE 11

MONITORING REPORTS



Recognised by Ministry of Environment, Forest & Climate Change (MoEF) Govt. of India and ISO 9001:2015, ISO 45001 : 2018 Certified Company

AMBIENT AIR QUALITY MONITORING REPORT

| | | | | |
|---|----------------------------------|----------------------------------|---------------------------|----------------------|
| Client's Name & Address | | Report No. | GESEC/PRO/2021-22/10/1268 | |
| M/s. Nilanjan Iron Pvt. Ltd. Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur-416216. | | Date | 14/10/2021 | |
| | | Date Of Sampling | 05/10/2021 | |
| | | Time Of Sampling | 11:20 AM | |
| | | Sampling Duration | 24 Hrs. | |
| | | Date of Analysis | 07/10/2021 | |
| | | Sample Collected By | GESEC | |
| Sample volume | SO ₂ (Plastic bottle) | NO ₂ (Plastic bottle) | PM10 (Filter paper) | PM2.5 (Filter paper) |
| | 30ml x1 No. | 30ml x1 No. | 1X1 No. | 1X1 No. |

RESULTS

| Sr. No | Description | Unit | Main Gate | Furnace shed | Rolling mill area | NAAQ 2009 Standards |
|--------|----------------------|-------------------|-----------|--------------|-------------------|---------------------|
| 01 | Ambient Temperature | °C | 24 | 26 | 25 | |
| 02 | Dry Bulb Temperature | °C | 25 | 24 | 23 | |
| 03 | Wet Bulb Temperature | °C | 22 | 25 | 26 | |
| 04 | Relative Humidity | % RH | 65 | 70 | 68 | |
| 05 | PM 10 | µg/m ³ | 46.2 | 41.2 | 40.5 | 100 |
| 06 | PM 2.5 | µg/m ³ | 18.1 | 14.5 | 13.6 | 60 |
| 07 | Sulphur Dioxide | µg/m ³ | 12.5 | 16.0 | 17.5 | 80 |
| 08 | Oxides of Nitrogen | µg/m ³ | 22.3 | 24.5 | 21.6 | 80 |
| 09 | Carbon Monoxide | mg/m ³ | 0.06 | 0.02 | 0.01 | ≤ 02 |
| 10 | Lead | µg/m ³ | <0.06 | <0.06 | <0.06 | ≤ 1.0 |
| 11 | Ammonia | µg/m ³ | 12.3 | 14.2 | 14.3 | ≤ 400 |
| 12 | Benzene | µg/m ³ | <0.02 | <0.02 | <0.02 | ≤ 05 |
| 13 | Benzopyrene | µg/m ³ | <0.002 | <0.002 | <0.002 | ≤ 01 |
| 14 | Nickel | µg/m ³ | <0.007 | <0.007 | <0.007 | ≤ 20 |
| 15 | Arsenic | µg/m ³ | <0.03 | <0.03 | <0.03 | ≤ 06 |
| 16 | Ozone | µg/m ³ | 11.0 | 9.5 | 7.5 | ≤ 180 |

REMARKS/ OBSERVATIONS:

- All above results are within the limit National Ambient Air Quality Standards.
- BDL: Below Detection Limit.

| | | |
|------------------|------|----------------------------|
| ANALYZED BY- | | AUTHORIZED SIGNATORY - |
|------------------|------|----------------------------|

Terms and conditions

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**GREEN ENVIROSAFE**

Engineers & Consultant Pvt Ltd.

Survey No-1405/06, Mayuri Residency, Shop No-16, 2nd Floor, Sanaswadi, Tal-Shirur, Pune-412208.

Mob.: 8421365421 / 7028089005 | E-mail: gesec12@gmail.com | www.greenenvirosafe.co.in

CIN No. : U74900PN2013PTC149666

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AMBIENT NOISE LEVEL MONITORING REPORT

| | | |
|---|--------------------------|---------------------------|
| Client's Name & Address | Report No. | GESEC/PRO/2021-22/10/1269 |
| M/s. Nilanjan Iron Pvt Ltd. Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur-416216. | Date | 14/10/2021 |
| | Date Of Sampling | 05/10/2021 |
| | Sampling Duration | 15 Min. |

RESULTS

| Sr. No. | LOCATION | UNIT | READINGS | |
|---------|-----------------|-------|----------|------------|
| | | | DAY TIME | NIGHT TIME |
| 1. | Main Gate | dB(A) | 68.5 | 56.1 |
| 2. | Furnace Shed | dB(A) | 64.2 | 57.3 |
| 3. | Green Belt area | dB(A) | 63.6 | 53.5 |

OBSERVATION / REMARKS:

- All above results are within MPCB Limits
- Limits: MPCB has prescribed 75 dB(A) as an upper limit of noise level during daytime <70 dB(A) as an upper limit during night time

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WORKZONE NOISE LEVEL MONITORING REPORT

| | | |
|---|-------------------|---------------------------|
| Client's Name & Address | Report No. | GESEC/PRO/2021-22/10/1270 |
| M/s. Nilanjan Iron Pvt Ltd. Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur-416216. | Date | 14/10/2021 |
| | Date Of Sampling | 05/10/2021 |
| | Sampling Duration | 15 Min. |

RESULTS

| Sr. No. | LOCATION | UNIT | READINGS | |
|---------|----------------------------|-------|----------|------------|
| | | | DAY TIME | NIGHT TIME |
| 1. | Furnace Shed | dB(A) | 68.5 | 53.6 |
| 2. | Casting Area | dB(A) | 64.2 | 56.8 |
| 3. | Raw material handling unit | dB(A) | 63.8 | 52.4 |

OBSERVATION / REMARKS:

- All above results are within MPCB Limits
- Limits:** MPCB has prescribed 75 dB(A) as an upper limit of noise level during daytime <70 dB(A) as an upper limit during night time

| | | |
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SOURCE EMISSION MONITORING REPORT

| | | |
|--|--------------------------|---------------------------|
| Client's Name & Address | Report No. | GESEC/PRO/2021-22/10/1271 |
| M/s. Nilanjan Iron Pvt Ltd. Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur-416216. | Date | 14/10/2021 |
| | Date Of Sampling | 05/10/2021 |
| | Time Of Sampling | 11:10 am |
| | Sampling Duration | 30 Min |
| | Date of Analysis | 07/10/2021 |
| | Test Location | Furnace |

RESULTS

| Sr. No. | Description | Unit | Results | As per MPCB |
|---------|------------------------|---------------------|---------|-------------|
| 01 | Material of Stack | | MS | |
| 02 | Stack Height from G.L. | Mtr. | 35 | |
| 03 | Type of Stack | | Round | |
| 04 | Flue Gas Temperature | °C | 73 | |
| 05 | Differential Pressure | MmWG | 2.38 | |
| 06 | Velocity | M/s | 7.27 | |
| 07 | Dimensions of Stack | Mtr. | 1.5 | |
| 08 | Stack Area | M ² | 1 | |
| 09 | Gas Volume | Nm ³ /Hr | 3127 | |
| 10 | Particulate Matter | mg/Nm ³ | 62 | 150 |
| 11 | SO ₂ | Ppm | 29 | 80 |
| 12 | NO _x | Ppm | 30 | 80 |

REMARKS/ OBSERVATIONS:

All Above Results are within limits as per MPCB.

| | | |
|---|---|---|
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|---|---|---|

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WATER ANALYSIS COMPILE REPORT

| | | |
|--|----------------------------|----------------------------|
| Client's Name & Address | Report No. | GESEC/PRO/2021-22/10/1272 |
| M/s. Nilanjan Iron Pvt Ltd. Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur-416216. | Date | 14/10/2021 |
| | Date Of Sampling | 05/10/2021 |
| | Nature Of Sample | Liquid |
| | Sample Collected By | GESEC |
| | Date of Analysis | 07/10/2021 |
| | Volume of Sample | 2lit x 1 No. (Plastic Bag) |

| Sr. No | Parameters | Surface water (Project site) | Ground water (Halsavade) | Standards (IS 10500:2012) | Units |
|--------|-------------------------------|------------------------------|--------------------------|---------------------------|--------|
| 1. | Colour | Colorless | Colorless | | Hazen |
| 2. | Temperature | 25 | 24 | - | °C |
| 3. | Turbidity | 0.24 | 0.21 | 1 | NTU |
| 4. | pH | 7.6 | 7.2 | 6.5-8.5 | --- |
| 5. | Conductivity | 342 | 315 | - | mS/cm |
| 6. | TDS | 265 | 248 | 500 | mg/l |
| 7. | Dissolved Oxygen | 2.34 | 2.65 | - | mg/l |
| 8. | Total Hardness | 128 | 131 | 200 | mg/l |
| 9. | Ca-Hardness | 63 | 45 | | mg/l |
| 10. | Calcium as Ca ²⁺ | 26 | 54 | 75 | mg/l |
| 11. | Magnesium as Mg ²⁺ | 20.8 | 14.3 | 30 | mg/l |
| 12. | Chlorides | 131 | 125 | 250 | mg/l |
| 13. | Total Alkalinity | 126 | 154 | 200 | mg/l |
| 14. | Phenolphthalein Alkalinity | Absent | Absent | | mg/l |
| 15. | Ammonical Nitrogen | Absent | Absent | - | mg/l |
| 16. | Sulphate | 54 | 46 | 200 | mg/l |
| 17. | Nitrites | 1.6 | 2.3 | - | mg/l |
| 18. | Phosphate | 0.31 | 0.64 | - | mg/l |
| 19. | Fluoride | 0.08 | 0.05 | 1.0 | mg/l |
| 20. | Sodium | 2.14 | 2.45 | - | mg/l |
| 21. | Potassium | 2.25 | 2.31 | - | mg/l |
| 22. | COD | 19 | 26 | - | mg/l |
| 23. | BOD | 5.7 | 7.2 | - | mg/l |
| 24. | MPN | BDL | BDL | 00 | Org/dl |
| 25. | F. coli. | BDL | BDL | Absent | Org/dl |

Note: All the parameters are within permissible limit as per IS – 10500 Standards, BDL – Below Detection Limit.

ANALYZED BY-

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AUTHORIZED SIGNATORY

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CIN No. : U74900PN2013PTC149666

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AMBIENT AIR QUALITY MONITORING REPORT

| | | | | |
|---|----------------------------------|----------------------------------|---------------------------|----------------------|
| Client's Name & Address | | Report No. | GESEC/PRO/2021-22/11/1260 | |
| M/s. Nilanjan Iron Pvt Ltd. Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur-416216. | | Date | 20/11/2021 | |
| | | Date Of Sampling | 11/11/2021 | |
| | | Time Of Sampling | 10:30 AM | |
| | | Sampling Duration | 24 Hrs. | |
| | | Date of Analysis | 13/11/2021 | |
| | | Sample Collected By | GESEC | |
| Sample volume | SO ₂ (Plastic bottle) | NO ₂ (Plastic bottle) | PM10 (Filter paper) | PM2.5 (Filter paper) |
| | 30ml x1 No. | 30ml x1 No. | 1X1 No. | 1X1 No. |

RESULTS

| Sr. No | Description | Unit | Main Gate | Furnace shed | Rolling mill area | NAAQ 2009 Standards |
|--------|----------------------|-------------------|-----------|--------------|-------------------|---------------------|
| 01 | Ambient Temperature | °C | 23 | 25 | 24 | |
| 02 | Dry Bulb Temperature | °C | 24 | 23 | 22 | |
| 03 | Wet Bulb Temperature | °C | 23 | 26 | 24 | |
| 04 | Relative Humidity | % RH | 70 | 68 | 72 | |
| 05 | PM 10 | µg/m ³ | 46.8 | 47.5 | 41.3 | 100 |
| 06 | PM 2.5 | µg/m ³ | 16.2 | 18.6 | 20.4 | 60 |
| 07 | Sulphur Dioxide | µg/m ³ | 18.1 | 19.8 | 21.7 | 80 |
| 08 | Oxides of Nitrogen | µg/m ³ | 26.7 | 22.1 | 24.2 | 80 |
| 09 | Carbon Monoxide | mg/m ³ | 0.01 | 0.02 | 0.01 | ≤ 02 |
| 10 | Lead | µg/m ³ | <0.05 | <0.05 | <0.05 | ≤ 1.0 |
| 11 | Ammonia | µg/m ³ | 10.5 | 13.5 | 12.3 | ≤ 400 |
| 12 | Benzene | µg/m ³ | <0.02 | <0.02 | <0.02 | ≤ 05 |
| 13 | Benzopyrene | µg/m ³ | <0.002 | <0.002 | <0.002 | ≤ 01 |
| 14 | Nickel | µg/m ³ | <0.007 | <0.007 | <0.007 | ≤ 20 |
| 15 | Arsenic | µg/m ³ | <0.03 | <0.03 | <0.03 | ≤ 06 |
| 16 | Ozone | µg/m ³ | 8.0 | 10.4 | 9.5 | ≤ 180 |

REMARKS/ OBSERVATIONS:

- All above results are within the limit National Ambient Air Quality Standards.
- BDL: Below Detection Limit.

| | | |
|---|---|---|
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AMBIENT NOISE LEVEL MONITORING REPORT

| | | |
|-------------------------------------|-------------------|---------------------------|
| Client's Name & Address | Report No. | GESEC/PRO/2021-22/11/1261 |
| M/s. Nilanjan Iron Pvt Ltd. | Date | 20/11/2021 |
| Plot No. B-7, Kagal Five Star MIDC, | Date Of Sampling | 11/11/2021 |
| Kagal, Kolhapur-416216. | Sampling Duration | 15 Min. |

RESULTS

| Sr. No. | LOCATION | UNIT | READINGS | |
|---------|-----------------|-------|----------|------------|
| | | | DAY TIME | NIGHT TIME |
| 1. | Main Gate | dB(A) | 71.3 | 64.8 |
| 2. | Furnace Shed | dB(A) | 68.5 | 63.4 |
| 3. | Green Belt area | dB(A) | 65.8 | 61.2 |

OBSERVATION / REMARKS:

- All above results are within MPCB Limits
- Limits:** MPCB has prescribed 75 dB(A) as an upper limit of noise level during daytime <70 dB(A) as an upper limit during night time

| | |
|---|---|
|  ANALYZED BY- |  AUTHORIZED SIGNATORY |
|---|---|

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WORKZONE NOISE LEVEL MONITORING REPORT

| | | |
|---|-------------------|---------------------------|
| Client's Name & Address | Report No. | GESEC/PRO/2021-22/11/1262 |
| M/s. Nilanjan Iron Pvt Ltd. Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur-416216. | Date | 20/11/2021 |
| | Date Of Sampling | 11/11/2021 |
| | Sampling Duration | 15 Min. |

RESULTS

| Sr. No. | LOCATION | UNIT | READINGS | |
|---------|----------------------------|-------|----------|------------|
| | | | DAY TIME | NIGHT TIME |
| 1. | Furnace Shed | dB(A) | 68.2 | 62.8 |
| 2. | Casting Area | dB(A) | 65.8 | 56.1 |
| 3. | Raw material handling unit | dB(A) | 62.4 | 52.7 |

OBSERVATION / REMARKS:

- All above results are within MPCB Limits
- Limits:** MPCB has prescribed 75 dB(A) as an upper limit of noise level during daytime <70 dB(A) as an upper limit during night time

| | | |
|---|---|---|
|  ANALYZED BY- |  |  AUTHORIZED SIGNATORY |
|---|---|---|

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SOURCE EMISSION MONITORING REPORT

| | | |
|--|--------------------------|---------------------------|
| Client's Name & Address | Report No. | GESEC/PRO/2021-22/11/1263 |
| M/s. Nilanjan Iron Pvt Ltd. Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur-416216. | Date | 20/11/2021 |
| | Date Of Sampling | 11/11/2021 |
| | Time Of Sampling | 11:15 am |
| | Sampling Duration | 30 Min |
| | Date of Analysis | 13/11/2021 |
| | Test Location | Furnace |

RESULTS

| Sr. No. | Description | Unit | Results | As per MPCB |
|---------|------------------------|---------------------|---------|-------------|
| 01 | Material of Stack | | MS | |
| 02 | Stack Height from G.L. | Mtr. | 35 | |
| 03 | Type of Stack | | Round | |
| 04 | Flue Gas Temperature | °C | 70 | |
| 05 | Differential Pressure | MmWG | 1.38 | |
| 06 | Velocity | M/s | 5.25 | |
| 07 | Dimensions of Stack | Mtr. | 1.5 | |
| 08 | Stack Area | M ² | 1 | |
| 09 | Gas Volume | Nm ³ /Hr | 3127 | |
| 10 | Particulate Matter | mg/Nm ³ | 61 | 150 |
| 11 | SO ₂ | Ppm | 40 | 80 |
| 12 | NO _x | Ppm | 38 | 80 |

REMARKS/ OBSERVATIONS:

All Above Results are within limits as per MPCB.

| | | |
|---|---|---|
|  ANALYZED BY- |  |  AUTHORIZED SIGNATORY |
|---|---|---|

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WATER ANALYSIS COMPILE REPORT

| | | |
|---|----------------------------|----------------------------|
| Client's Name & Address | Report No. | GESEC/PRO/2021-22/11/1264 |
| M/s. Nilanjan Iron Pvt Ltd. Plot No. B-7,Kagal Five Star MIDC, Kagal, Kolhapur-416216. | Date | 20/11/2021 |
| | Date Of Sampling | 11/11/2021 |
| | Nature Of Sample | Liquid |
| | Sample Collected By | GESEC |
| | Date of Analysis | 13/11/2021 |
| | Volume of Sample | 2lit x 1 No. (Plastic Bag) |

| Sr. No | Parameters | Surface water (Project site) | Ground water (Halsavade) | Standards (IS 10500:2012) | Units |
|--------|-------------------------------|------------------------------|--------------------------|---------------------------|--------|
| 1. | Colour | Colorless | Colorless | | Hazen |
| 2. | Temperature | 22 | 23 | - | °C |
| 3. | Turbidity | 10.3 | 9.5 | 1 | NTU |
| 4. | pH | 7.1 | 7.5 | 6.5-8.5 | --- |
| 5. | Conductivity | 352 | 387 | - | mS/cm |
| 6. | TDS | 264 | 241 | 500 | mg/l |
| 7. | Dissolved Oxygen | 1.65 | 2.0 | - | mg/l |
| 8. | Total Hardness | 151 | 138 | 200 | mg/l |
| 9. | Ca-Hardness | 64 | 58 | | mg/l |
| 10. | Calcium as Ca ²⁺ | 16 | 21 | 75 | mg/l |
| 11. | Magnesium as Mg ²⁺ | 11.8 | 17.2 | 30 | mg/l |
| 12. | Chlorides | 162 | 154 | 250 | mg/l |
| 13. | Total Alkalinity | 138 | 127 | 200 | mg/l |
| 14. | Phenolphthalein Alkalinity | Absent | Absent | | mg/l |
| 15. | Ammonical Nitrogen | Absent | Absent | - | mg/l |
| 16. | Sulphate | 79 | 38 | 200 | mg/l |
| 17. | Nitrites | 2.46 | 2.73 | - | mg/l |
| 18. | Phosphate | 2.32 | 2.87 | - | mg/l |
| 19. | Fluoride | 0.25 | 0.63 | 1.0 | mg/l |
| 20. | Sodium | 0.41 | 0.38 | - | mg/l |
| 21. | Potassium | 0.46 | 0.52 | - | mg/l |
| 22. | COD | 18.2 | 20.6 | - | mg/l |
| 23. | BOD | 5 | 6 | - | mg/l |
| 24. | MPN | BDL | BDL | 00 | Org/dl |
| 25. | F. coli. | BDL | BDL | Absent | Org/dl |

Note: All the parameters are within permissible limit as per IS – 10500 Standards, BDL – Below Detection Limit.

ANALYZED BY-

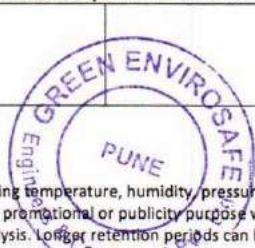
Prinde

AUTHORIZED SIGNATORY

Prinde

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AMBIENT AIR QUALITY MONITORING REPORT

| | | | | |
|---|----------------------------------|----------------------------------|---------------------------|----------------------|
| Client's Name & Address | | Report No. | GESEC/PRO/2021-22/12/1970 | |
| M/s. Nilanjan Iron Pvt Ltd. Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur-416216. | | Date | 16/12/2021 | |
| | | Date Of Sampling | 07/12/2021 | |
| | | Time Of Sampling | 10:45 AM | |
| | | Sampling Duration | 24 Hrs. | |
| | | Date of Analysis | 09/12/2021 | |
| | | Sample Collected By | GESEC | |
| Sample volume | SO ₂ (Plastic bottle) | NO ₂ (Plastic bottle) | PM10 (Filter paper) | PM2.5 (Filter paper) |
| | 30ml x1 No. | 30ml x1 No. | 1X1 No. | 1X1 No. |

RESULTS

| Sr. No | Description | Unit | Main Gate | Furnace shed | Rolling mill area | NAAQ 2009 Standards |
|--------|----------------------|-------------------|-----------|--------------|-------------------|---------------------|
| 01 | Ambient Temperature | °C | 26 | 24 | 25 | |
| 02 | Dry Bulb Temperature | °C | 24 | 25 | 24 | |
| 03 | Wet Bulb Temperature | °C | 25 | 23 | 26 | |
| 04 | Relative Humidity | % RH | 79 | 81 | 75 | |
| 05 | PM 10 | µg/m ³ | 42.3 | 45.7 | 46.1 | 100 |
| 06 | PM 2.5 | µg/m ³ | 18.9 | 13.5 | 16.8 | 60 |
| 07 | Sulphur Dioxide | µg/m ³ | 17.5 | 12.4 | 18.1 | 80 |
| 08 | Oxides of Nitrogen | µg/m ³ | 29.8 | 21.7 | 22.3 | 80 |
| 09 | Carbon Monoxide | mg/m ³ | 0.01 | 0.03 | 0.04 | ≤ 02 |
| 10 | Lead | µg/m ³ | <0.06 | <0.06 | <0.06 | ≤ 1.0 |
| 11 | Ammonia | µg/m ³ | 13.9 | 16.2 | 17.6 | ≤ 400 |
| 12 | Benzene | µg/m ³ | <0.02 | <0.02 | <0.02 | ≤ 05 |
| 13 | Benzopyrene | µg/m ³ | <0.002 | <0.002 | <0.002 | ≤ 01 |
| 14 | Nickel | µg/m ³ | <0.007 | <0.007 | <0.007 | ≤ 20 |
| 15 | Arsenic | µg/m ³ | <0.03 | <0.03 | <0.03 | ≤ 06 |
| 16 | Ozone | µg/m ³ | 11.6 | 8.5 | 9.0 | ≤ 180 |

REMARKS/ OBSERVATIONS:

- All above results are within the limit National Ambient Air Quality Standards.
- BDL: Below Detection Limit.

| | | |
|--|---|--|
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**GREEN ENVIROSAFE**

Engineers & Consultant Pvt Ltd.

Survey No-1405/06, Mayuri Residency, Shop No-16, 2nd Floor, Sanaswadi, Tal-Shirur, Pune-412208.

Mob.: 8421365421 / 7028089005 | E-mail: gesec12@gmail.com | www.greenenvirosafe.co.in

CIN No. : U74900PN2013PTC149666

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AMBIENT NOISE LEVEL MONITORING REPORT

| | | |
|--|--------------------------|---------------------------|
| Client's Name & Address | Report No. | GESEC/PRO/2021-22/12/1971 |
| M/s. Nilanjan Iron Pvt Ltd. | Date | 16/12/2021 |
| Plot No. B-7, Kagal Five Star MIDC, | Date Of Sampling | 07/12/2021 |
| Kagal, Kolhapur-416216. | Sampling Duration | 15 Min. |

RESULTS

| Sr. No. | LOCATION | UNIT | READINGS | |
|---------|-----------------|-------|----------|------------|
| | | | DAY TIME | NIGHT TIME |
| 1. | Main Gate | dB(A) | 69.7 | 61.8 |
| 2. | Furnace Shed | dB(A) | 66.4 | 60.3 |
| 3. | Green Belt area | dB(A) | 62.6 | 52.5 |

OBSERVATION / REMARKS:

- All above results are within MPCB Limits
- Limits: MPCB has prescribed 75 dB(A) as an upper limit of noise level during daytime <70 dB(A) as an upper limit during night time

| | |
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WORKZONE NOISE LEVEL MONITORING REPORT

| | | |
|-------------------------------------|-------------------|---------------------------|
| Client's Name & Address | Report No. | GESEC/PRO/2021-22/12/1972 |
| M/s. Nilanjan Iron Pvt Ltd. | Date | 16/12/2021 |
| Plot No. B-7, Kagal Five Star MIDC, | Date Of Sampling | 07/12/2021 |
| Kagal, Kolhapur-416216. | Sampling Duration | 15 Min. |

RESULTS

| Sr. No. | LOCATION | UNIT | READINGS | |
|---------|----------------------------|-------|----------|------------|
| | | | DAY TIME | NIGHT TIME |
| 1. | Furnace Shed | dB(A) | 70.4 | 61.8 |
| 2. | Casting Area | dB(A) | 66.2 | 58.3 |
| 3. | Raw material handling unit | dB(A) | 64.7 | 52.7 |

OBSERVATION / REMARKS:

- All above results are within MPCB Limits
- Limits: MPCB has prescribed 75 dB(A) as an upper limit of noise level during daytime <70 dB(A) as an upper limit during night time

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SOURCE EMISSION MONITORING REPORT

| | | |
|---|--------------------------|---------------------------|
| Client's Name & Address | Report No. | GESEC/PRO/2021-22/12/1973 |
| M/s. Nilanjan Iron Pvt Ltd. Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur-416216. | Date | 16/12/2021 |
| | Date Of Sampling | 07/12/2021 |
| | Time Of Sampling | 11:10 am |
| | Sampling Duration | 30 Min |
| | Date of Analysis | 09/12/2021 |
| | Test Location | Furnace |

RESULTS

| Sr. No. | Description | Unit | Results | As per MPCB |
|---------|------------------------|---------------------|---------|-------------|
| 01 | Material of Stack | | MS | |
| 02 | Stack Height from G.L. | Mtr. | 35 | |
| 03 | Type of Stack | | Round | |
| 04 | Flue Gas Temperature | °C | 72 | |
| 05 | Differential Pressure | MmWG | 1.40 | |
| 06 | Velocity | M/s | 6.23 | |
| 07 | Dimensions of Stack | Mtr. | 1.5 | |
| 08 | Stack Area | M ² | 1 | |
| 09 | Gas Volume | Nm ³ /Hr | 3126 | |
| 10 | Particulate Matter | mg/Nm ³ | 69 | 150 |
| 11 | SO ₂ | Ppm | 25 | 80 |
| 12 | NO _x | Ppm | 21 | 80 |

REMARKS/ OBSERVATIONS:

All Above Results are within limits as per MPCB.

| | |
|---|---|
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WATER ANALYSIS COMPILE REPORT

| | | |
|---|---------------------|----------------------------|
| Client's Name & Address M/s. Nilanjan Iron Pvt Ltd. Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur-416216. | Report No. | GESEC/PRO/2021-22/12/1974 |
| | Date | 16/12/2021 |
| | Date Of Sampling | 07/12/2021 |
| | Nature Of Sample | Liquid |
| | Sample Collected By | GESEC |
| | Date of Analysis | 09/12/2021 |
| | Volume of Sample | 2lit x 1 No. (Plastic Bag) |

| Sr. No | Parameters | Surface water (Project site) | Ground water (Halsavade) | Standards (IS 10500:2012) | Units |
|--------|-------------------------------|------------------------------|--------------------------|---------------------------|--------|
| 1. | Colour | Colorless | Colorless | | Hazen |
| 2. | Temperature | 24 | 25 | - | °C |
| 3. | Turbidity | 0.86 | 0.58 | 1 | NTU |
| 4. | Ph | 7.3 | 7.5 | 6.5-8.5 | --- |
| 5. | Conductivity | 258 | 287 | - | mS/cm |
| 6. | TDS | 420 | 323 | 500 | mg/l |
| 7. | Dissolved Oxygen | 2.64 | 2.42 | - | mg/l |
| 8. | Total Hardness | 138 | 151 | 200 | mg/l |
| 9. | Ca-Hardness | 34 | 28 | | mg/l |
| 10. | Calcium as Ca ²⁺ | 23 | 21 | 75 | mg/l |
| 11. | Magnesium as Mg ²⁺ | 21.8 | 15.5 | 30 | mg/l |
| 12. | Chlorides | 165 | 137 | 250 | mg/l |
| 13. | Total Alkalinity | 136 | 153 | 200 | mg/l |
| 14. | Phenolphthalein Alkalinity | Absent | Absent | | mg/l |
| 15. | Ammonical Nitrogen | Absent | Absent | - | mg/l |
| 16. | Sulphate | 76 | 85 | 200 | mg/l |
| 17. | Nitrites | 1.31 | 1.68 | - | mg/l |
| 18. | Phosphate | 0.98 | 3.75 | - | mg/l |
| 19. | Fluoride | 2.64 | 1.75 | 1.0 | mg/l |
| 20. | Sodium | 1.34 | 1.28 | - | mg/l |
| 21. | Potassium | 1.98 | 1.65 | - | mg/l |
| 22. | COD | 18 | 27 | - | mg/l |
| 23. | BOD | 4 | 6.8 | - | mg/l |
| 24. | MPN | BDL | BDL | 00 | Org/dl |
| 25. | F. coli. | BDL | BDL | Absent | Org/dl |

Note: All the parameters are within permissible limit as per IS - 10500 Standards, BDL - Below Detection Limit.

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AMBIENT AIR QUALITY MONITORING REPORT

| | | | | |
|---|----------------------------------|----------------------------------|------------------------------|----------------------|
| Client's Name & Address M/s. Nilanjan Iron Pvt Ltd. Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur-416216. | | Report No. | GESEC/PRO/01/2021-22/01/1332 | |
| | | Date | 21/01/2022 | |
| | | Date Of Sampling | 12/01/2022 | |
| | | Time Of Sampling | 12:00 AM | |
| | | Sampling Duration | 24 Hrs. | |
| | | Date of Analysis | 14/01/2022 | |
| | | Sample Collected By | GESEC | |
| Sample volume | SO ₂ (Plastic bottle) | NO ₂ (Plastic bottle) | PM10 (Filter paper) | PM2.5 (Filter paper) |
| | 30ml x1 No. | 30ml x1 No. | 1X1 No. | 1X1 No. |

RESULTS

| Sr. No | Description | Unit | Main Gate | Furnace shed | Rolling mill area | NAAQ 2009 Standards |
|--------|----------------------|-------------------|-----------|--------------|-------------------|---------------------|
| 01 | Ambient Temperature | °C | 32 | 33 | 30 | |
| 02 | Dry Bulb Temperature | °C | 31 | 30 | 29 | |
| 03 | Wet Bulb Temperature | °C | 32 | 31 | 32 | |
| 04 | Relative Humidity | % RH | 42 | 43 | 48 | |
| 05 | PM 10 | µg/m ³ | 51.2 | 46.5 | 49.2 | 100 |
| 06 | PM 2.5 | µg/m ³ | 18.3 | 17.5 | 19.2 | 60 |
| 07 | Sulphur Dioxide | µg/m ³ | 25.6 | 23.1 | 28.3 | 80 |
| 08 | Oxides of Nitrogen | µg/m ³ | 29.5 | 26.2 | 21.8 | 80 |
| 09 | Carbon Monoxide | mg/m ³ | 0.06 | 0.06 | 0.06 | ≤ 02 |
| 10 | Lead | µg/m ³ | <0.06 | <0.06 | <0.06 | ≤ 1.0 |
| 11 | Ammonia | µg/m ³ | 12.8 | 11.8 | 15.7 | ≤ 400 |
| 12 | Benzene | µg/m ³ | <0.02 | <0.02 | <0.02 | ≤ 05 |
| 13 | Benzopyrene | µg/m ³ | <0.002 | <0.002 | <0.002 | ≤ 01 |
| 14 | Nickel | µg/m ³ | <0.007 | <0.007 | <0.007 | ≤ 20 |
| 15 | Arsenic | µg/m ³ | <0.03 | <0.03 | <0.03 | ≤ 06 |
| 16 | Ozone | µg/m ³ | 11.6 | 14.3 | 13.0 | ≤ 180 |

REMARKS/ OBSERVATIONS:

- All above results are within the limit National Ambient Air Quality Standards.
- BDL: Below Detection Limit.

[Signature]
ANALYZED BY-



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AMBIENT NOISE LEVEL MONITORING REPORT

| | | |
|--|--------------------------|------------------------------|
| Client's Name & Address | Report No. | GESEC/PRO/01/2021-22/01/1333 |
| M/s. Nilanjan Iron Pvt Ltd. Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur-416216. | Date | 21/01/2022 |
| | Date Of Sampling | 12/01/2022 |
| | Sampling Duration | 15 Min. |

RESULTS

| Sr. No. | LOCATION | UNIT | READINGS | |
|---------|-----------------|-------|----------|------------|
| | | | DAY TIME | NIGHT TIME |
| 1. | Main Gate | dB(A) | 68.2 | 60.3 |
| 2. | Furnace Shed | dB(A) | 65.8 | 59.2 |
| 3. | Green Belt area | dB(A) | 67.5 | 52.8 |

OBSERVATION / REMARKS:

- All above results are within MPCB Limits
- Limits:** MPCB has prescribed 75 dB(A) as an upper limit of noise level during daytime <70 dB(A) as an upper limit during night time

ANALYZED BY-

H. Indle



AUTHORIZED SIGNATORY

P. Rande

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WORKZONE NOISE LEVEL MONITORING REPORT

| | | |
|---|-------------------|------------------------------|
| Client's Name & Address | Report No. | GESEC/PRO/01/2021-22/01/1334 |
| M/s. Nilanjan Iron Pvt Ltd. Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur-416216. | Date | 21/01/2022 |
| | Date Of Sampling | 12/01/2022 |
| | Sampling Duration | 15 Min. |

RESULTS

| Sr. No. | LOCATION | UNIT | READINGS | |
|---------|----------------------------|-------|----------|------------|
| | | | DAY TIME | NIGHT TIME |
| 1. | Furnace Shed | dB(A) | 68.2 | 55.6 |
| 2. | Casting Area | dB(A) | 64.8 | 57.5 |
| 3. | Raw material handling unit | dB(A) | 61.1 | 52.3 |

OBSERVATION / REMARKS:

- All above results are within MPCB Limits
- Limits: MPCB has prescribed 75 dB(A) as an upper limit of noise level during daytime <70 dB(A) as an upper limit during night time

| | |
|---|---|
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SOURCE EMISSION MONITORING REPORT

| | | |
|---|--------------------------|------------------------------|
| Client's Name & Address | Report No. | GESEC/PRO/01/2021-22/01/1335 |
| M/s. Nilanjan Iron Pvt Ltd. Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur-416216. | Date | 21/01/2022 |
| | Date Of Sampling | 12/01/2022 |
| | Time Of Sampling | 11:15 am |
| | Sampling Duration | 30 Min |
| | Date of Analysis | 14/01/2022 |
| | Test Location | Furnace |

RESULTS

| Sr. No. | Description | Unit | Results | As per MPCB |
|---------|------------------------|---------------------|---------|-------------|
| 01 | Material of Stack | | MS | |
| 02 | Stack Height from G.L. | Mtr. | 35 | |
| 03 | Type of Stack | | Round | |
| 04 | Flue Gas Temperature | °C | 72 | |
| 05 | Differential Pressure | MmWG | 1.42 | |
| 06 | Velocity | M/s | 5.28 | |
| 07 | Dimensions of Stack | Mtr. | 1.5 | |
| 08 | Stack Area | M ² | 1 | |
| 09 | Gas Volume | Nm ³ /Hr | 3128 | |
| 10 | Particulate Matter | mg/Nm ³ | 62 | 150 |
| 11 | SO ₂ | Ppm | 33 | 80 |
| 12 | NO _x | Ppm | 24 | 80 |

REMARKS/ OBSERVATIONS:

All Above Results are within limits as per MPCB.

| | | |
|---|---|---|
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WATER ANALYSIS COMPILE REPORT

| | | |
|--|---------------------|------------------------------|
| Client's Name & Address M/s. Nilanjan Iron Pvt Ltd. Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur-416216. | Report No. | GESEC/PRO/01/2021-22/01/1336 |
| | Date | 21/01/2022 |
| | Date Of Sampling | 12/01/2022 |
| | Nature Of Sample | Liquid |
| | Sample Collected By | GESEC |
| | Date of Analysis | 14/01/2022 |
| | Volume of Sample | 2lit x 1 No. (Plastic Bag) |

| Sr. No | Parameters | Surface water (Project site) | Ground water (Halsavade) | Standards (IS 10500:2012) | Units |
|--------|-------------------------------|------------------------------|--------------------------|---------------------------|--------|
| 1. | Colour | Colorless | Colorless | | Hazen |
| 2. | Temperature | 29 | 28 | - | °C |
| 3. | Turbidity | 0.14 | 0.52 | 1 | NTU |
| 4. | Ph | 7.6 | 7.3 | 6.5-8.5 | --- |
| 5. | Conductivity | 251 | 284 | - | mS/cm |
| 6. | TDS | 173 | 128 | 500 | mg/l |
| 7. | Dissolved Oxygen | 2.28 | 2.62 | - | mg/l |
| 8. | Total Hardness | 134 | 112 | 200 | mg/l |
| 9. | Ca-Hardness | 56 | 68 | | mg/l |
| 10. | Calcium as Ca ²⁺ | 16 | 21 | 75 | mg/l |
| 11. | Magnesium as Mg ²⁺ | 12.4 | 13.3 | 30 | mg/l |
| 12. | Chlorides | 116 | 138 | 250 | mg/l |
| 13. | Total Alkalinity | 122 | 119 | 200 | mg/l |
| 14. | Phenolphthalein Alkalinity | Absent | Absent | | mg/l |
| 15. | Ammonical Nitrogen | Absent | Absent | - | mg/l |
| 16. | Sulphate | 67 | 72 | 200 | mg/l |
| 17. | Nitrites | 1.28 | 2.41 | - | mg/l |
| 18. | Phosphate | 0.35 | 1.20 | - | mg/l |
| 19. | Fluoride | 0.01 | 0.03 | 1.0 | mg/l |
| 20. | Sodium | 1.12 | 1.28 | - | mg/l |
| 21. | Potassium | 1.87 | 1.93 | - | mg/l |
| 22. | COD | 21 | 18 | - | mg/l |
| 23. | BOD | 6.1 | 5.2 | - | mg/l |
| 24. | MPN | BDL | BDL | 00 | Org/dl |
| 25. | F. coli. | BDL | BDL | Absent | Org/dl |

Note: All the parameters are within permissible limit as per IS - 10500 Standards, BDL - Below Detection Limit.

ANALYZED BY-

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AMBIENT AIR QUALITY MONITORING REPORT




| | | | | |
|--|----------------------------------|----------------------------------|---------------------------|----------------------|
| Client's Name & Address M/s. Nilanjan Iron Pvt Ltd. Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur-416216. | | Report No. | GESEC/PRO/2021-22/02/1244 | |
| | | Date | 24/02/2022 | |
| | | Date Of Sampling | 15/02/2022 | |
| | | Time Of Sampling | 11:30 AM | |
| | | Sampling Duration | 24 Hrs. | |
| | | Date of Analysis | 17/02/2022 | |
| | | Sample Collected By | GESEC | |
| Sample volume | SO ₂ (Plastic bottle) | NO ₂ (Plastic bottle) | PM10 (Filter paper) | PM2.5 (Filter paper) |
| | 30ml x1 No. | 30ml x1 No. | 1X1 No. | 1X1 No. |

RESULTS

| Sr. No | Description | Unit | Main Gate | Furnace shed | Rolling mill area | NAAQ 2009 Standards |
|--------|----------------------|-------------------|-----------|--------------|-------------------|---------------------|
| 01 | Ambient Temperature | °C | 32 | 35 | 31 | |
| 02 | Dry Bulb Temperature | °C | 33 | 34 | 35 | |
| 03 | Wet Bulb Temperature | °C | 32 | 36 | 32 | |
| 04 | Relative Humidity | % RH | 38 | 40 | 37 | |
| 05 | PM 10 | µg/m ³ | 51.3 | 52.6 | 55.7 | 100 |
| 06 | PM 2.5 | µg/m ³ | 34.2 | 36.1 | 28.3 | 60 |
| 07 | Sulphur Dioxide | µg/m ³ | 20.6 | 21.5 | 19.8 | 80 |
| 08 | Oxides of Nitrogen | µg/m ³ | 14.8 | 16.2 | 17.0 | 80 |
| 09 | Carbon Monoxide | mg/m ³ | 0.05 | 0.05 | 0.05 | ≤ 02 |
| 10 | Lead | µg/m ³ | <0.06 | <0.06 | <0.06 | ≤ 1.0 |
| 11 | Ammonia | µg/m ³ | 10.0 | 12.8 | 14.0 | ≤ 400 |
| 12 | Benzene | µg/m ³ | <0.02 | <0.02 | <0.02 | ≤ 05 |
| 13 | Benzopyrene | µg/m ³ | <0.002 | <0.002 | <0.002 | ≤ 01 |
| 14 | Nickel | µg/m ³ | <0.007 | <0.007 | <0.007 | ≤ 20 |
| 15 | Arsenic | µg/m ³ | <0.03 | <0.03 | <0.03 | ≤ 06 |
| 16 | Ozone | µg/m ³ | 10.2 | 9.8 | 7.0 | ≤ 180 |

REMARKS/ OBSERVATIONS:

- All above results are within the limit National Ambient Air Quality Standards.
- BDL: Below Detection Limit.

| | | |
|--|---|--|
| ANALYZED BY-  |  | AUTHORIZED SIGNATORY -  |
|--|---|--|

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**GREEN ENVIROSAFE**

Engineers & Consultant Pvt Ltd.

Survey No-1405/06, Mayuri Residency, Shop No-16, 2nd Floor, Sanaswadi, Tal-Shirur, Pune-412208.

Mob.: 8421365421 / 7028089005 | E-mail: gesec12@gmail.com | www.greenenvirosafe.co.in

CIN No. : U74900PN2013PTC149666

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AMBIENT NOISE LEVEL MONITORING REPORT

| | | |
|--|--------------------------|---------------------------|
| Client's Name & Address | Report No. | GESEC/PRO/2021-22/02/1245 |
| M/s. Nilanjan Iron Pvt Ltd. | Date | 24/02/2022 |
| Plot No. B-7, Kagal Five Star MIDC, | Date Of Sampling | 15/02/2022 |
| Kagal, Kolhapur-416216. | Sampling Duration | 15 Min. |

RESULTS

| Sr. No. | LOCATION | UNIT | READINGS | |
|---------|-----------------|-------|----------|------------|
| | | | DAY TIME | NIGHT TIME |
| 1. | Main Gate | dB(A) | 71.1 | 62.0 |
| 2. | Furnace Shed | dB(A) | 66.8 | 53.5 |
| 3. | Green Belt area | dB(A) | 69.4 | 58.6 |

OBSERVATION / REMARKS:

- All above results are within MPCB Limits
- Limits: MPCB has prescribed 75 dB(A) as an upper limit of noise level during daytime <70 dB(A) as an upper limit during night time

| | | |
|---|---|---|
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WORKZONE NOISE LEVEL MONITORING REPORT

| | | |
|---|-------------------|---------------------------|
| Client's Name & Address | Report No. | GESEC/PRO/2021-22/02/1246 |
| M/s. Nilanjan Iron Pvt Ltd. Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur-416216. | Date | 24/02/2022 |
| | Date Of Sampling | 15/02/2022 |
| | Sampling Duration | 15 Min. |

RESULTS

| Sr. No. | LOCATION | UNIT | READINGS | |
|---------|----------------------------|-------|----------|------------|
| | | | DAY TIME | NIGHT TIME |
| 1. | Furnace Shed | dB(A) | 68.4 | 56.2 |
| 2. | Casting Area | dB(A) | 67.0 | 57.8 |
| 3. | Raw material handling unit | dB(A) | 62.9 | 50.5 |

OBSERVATION / REMARKS:

- All above results are within MPCB Limits
- Limits: MPCB has prescribed 75 dB(A) as an upper limit of noise level during daytime <70 dB(A) as an upper limit during night time

| | | |
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SOURCE EMISSION MONITORING REPORT

| | | |
|---|--------------------------|---------------------------|
| Client's Name & Address M/s. Nilanjan Iron Pvt Ltd. Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur-416216. | Report No. | GESEC/PRO/2021-22/02/1247 |
| | Date | 24/02/2022 |
| | Date Of Sampling | 15/02/2022 |
| | Time Of Sampling | 10:00 am |
| | Sampling Duration | 30 Min |
| | Date of Analysis | 17/02/2022 |
| | Test Location | Furnace |

RESULTS

| Sr. No. | Description | Unit | Results | As per MPCB |
|---------|------------------------|---------------------|---------|-------------|
| 01 | Material of Stack | | MS | |
| 02 | Stack Height from G.L. | Mtr. | 35 | |
| 03 | Type of Stack | | Round | |
| 04 | Flue Gas Temperature | °C | 73 | |
| 05 | Differential Pressure | MmWG | 1.42 | |
| 06 | Velocity | M/s | 7.21 | |
| 07 | Dimensions of Stack | Mtr. | 1.5 | |
| 08 | Stack Area | M ² | 1 | |
| 09 | Gas Volume | Nm ³ /Hr | 3127 | |
| 10 | Particulate Matter | mg/Nm ³ | 66 | 150 |
| 11 | SO ₂ | Ppm | 44 | 80 |
| 12 | NOx | Ppm | 32 | 80 |

REMARKS/ OBSERVATIONS:

All Above Results are within limits as per MPCB.

| | | |
|---|---|---|
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WATER ANALYSIS COMPILE REPORT

| | | |
|---|----------------------------|----------------------------|
| Client's Name & Address | Report No. | GESEC/PRO/2021-22/02/1248 |
| M/s. Nilanjan Iron Pvt Ltd. Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur-416216. | Date | 24/02/2022 |
| | Date Of Sampling | 24/02/2022 |
| | Nature Of Sample | Liquid |
| | Sample Collected By | GESEC |
| | Date of Analysis | 24/02/2022 |
| | Volume of Sample | 2lit x 1 No. (Plastic Bag) |

| Sr. No | Parameters | Surface water (Project site) | Ground water (Halsavade) | Standards (IS 10500:2012) | Units |
|--------|-------------------------------|---------------------------------|-----------------------------|------------------------------|--------|
| 1. | Colour | Colorless | Colorless | | Hazen |
| 2. | Temperature | 31 | 30 | - | °C |
| 3. | Turbidity | 0.05 | 0.12 | 1 | NTU |
| 4. | pH | 6.8 | 7.5 | 6.5-8.5 | --- |
| 5. | Conductivity | 385 | 463 | - | mS/cm |
| 6. | TDS | 289 | 254 | 500 | mg/l |
| 7. | Dissolved Oxygen | 1.63 | 2.81 | - | mg/l |
| 8. | Total Hardness | 106 | 117 | 200 | mg/l |
| 9. | Ca-Hardness | 57 | 64 | | mg/l |
| 10. | Calcium as Ca ²⁺ | 31 | 25 | 75 | mg/l |
| 11. | Magnesium as Mg ²⁺ | 10 | 9.3 | 30 | mg/l |
| 12. | Chlorides | 187 | 172 | 250 | mg/l |
| 13. | Total Alkalinity | 124 | 138 | 200 | mg/l |
| 14. | Phenolphthalein Alkalinity | Absent | Absent | | mg/l |
| 15. | Ammonical Nitrogen | Absent | Absent | - | mg/l |
| 16. | Sulphate | 82 | 95 | 200 | mg/l |
| 17. | Nitrites | 1.34 | 1.62 | - | mg/l |
| 18. | Phosphate | 1.85 | 1.28 | - | mg/l |
| 19. | Fluoride | 0.06 | 0.09 | 1.0 | mg/l |
| 20. | Sodium | 1.72 | 1.32 | - | mg/l |
| 21. | Potassium | 2.63 | 1.80 | - | mg/l |
| 22. | COD | 25 | 27 | - | mg/l |
| 23. | BOD | 8.1 | 9.5 | - | mg/l |
| 24. | MPN | BDL | BDL | 00 | Org/dl |
| 25. | F. coli. | BDL | BDL | Absent | Org/dl |

Note: All the parameters are within permissible limit as per IS - 10500 Standards, BDL - Below Detection Limit.

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AMBIENT AIR QUALITY MONITORING REPORT

| | | | | |
|---|----------------------------------|----------------------------------|---------------------------|----------------------|
| Client's Name & Address | | Report No. | GESEC/PRO/2021-22/03/1922 | |
| M/s. Nilanjan Iron Pvt Ltd. Plot No. B-7,Kagal Five Star MIDC, Kagal, Kolhapur-416216. | | Date | 18/03/2022 | |
| | | Date Of Sampling | 08/03/2022 | |
| | | Time Of Sampling | 10:00 AM | |
| | | Sampling Duration | 24 Hrs. | |
| | | Date of Analysis | 10/03/2022 | |
| | | Sample Collected By | GESEC | |
| Sample volume | SO ₂ (Plastic bottle) | NO ₂ (Plastic bottle) | PM10 (Filter paper) | PM2.5 (Filter paper) |
| | 30ml x1 No. | 30ml x1 No. | 1X1 No. | 1X1 No. |

RESULTS

| Sr. No | Description | Unit | Main Gate | Furnace shed | Rolling mill area | NAAQ 2009 Standards |
|--------|----------------------|-------------------|-----------|--------------|-------------------|---------------------|
| 01 | Ambient Temperature | °C | 34 | 33 | 35 | |
| 02 | Dry Bulb Temperature | °C | 35 | 34 | 36 | |
| 03 | Wet Bulb Temperature | °C | 32 | 33 | 34 | |
| 04 | Relative Humidity | % RH | 27 | 31 | 29 | |
| 05 | PM 10 | µg/m ³ | 33.1 | 41.2 | 40.8 | 100 |
| 06 | PM 2.5 | µg/m ³ | 15.3 | 17.4 | 14.6 | 60 |
| 07 | Sulphur Dioxide | µg/m ³ | 19.2 | 16.7 | 24.5 | 80 |
| 08 | Oxides of Nitrogen | µg/m ³ | 31.5 | 30.8 | 28.4 | 80 |
| 09 | Carbon Monoxide | mg/m ³ | 0.06 | 0.06 | 0.06 | ≤ 02 |
| 10 | Lead | µg/m ³ | <0.05 | <0.05 | <0.05 | ≤ 1.0 |
| 11 | Ammonia | µg/m ³ | 10.8 | 11.8 | 15.7 | ≤ 400 |
| 12 | Benzene | µg/m ³ | <0.02 | <0.02 | <0.02 | ≤ 05 |
| 13 | Benzopyrene | µg/m ³ | <0.002 | <0.002 | <0.002 | ≤ 01 |
| 14 | Nickel | µg/m ³ | <0.007 | <0.007 | <0.007 | ≤ 20 |
| 15 | Arsenic | µg/m ³ | <0.03 | <0.03 | <0.03 | ≤ 06 |
| 16 | Ozone | µg/m ³ | 10.5 | 9.5 | 11.2 | ≤ 180 |

REMARKS/ OBSERVATIONS:

- All above results are within the limit National Ambient Air Quality Standards.
- BDL: Below Detection Limit.

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AMBIENT NOISE LEVEL MONITORING REPORT

| | | |
|--|--------------------------|---------------------------|
| Client's Name & Address | Report No. | GESEC/PRO/2021-22/03/1923 |
| M/s. Nilanjan Iron Pvt Ltd. | Date | 18/03/2022 |
| Plot No. B-7, Kagal Five Star MIDC, | Date Of Sampling | 08/03/2022 |
| Kagal, Kolhapur-416216. | Sampling Duration | 15 Min. |

RESULTS

| Sr. No. | LOCATION | UNIT | READINGS | |
|---------|-----------------|-------|----------|------------|
| | | | DAY TIME | NIGHT TIME |
| 1. | Main Gate | dB(A) | 69.0 | 54.1 |
| 2. | Furnace Shed | dB(A) | 68.4 | 56.8 |
| 3. | Green Belt area | dB(A) | 65.8 | 53.5 |

OBSERVATION / REMARKS:

- All above results are within MPCB Limits
- Limits: MPCB has prescribed 75 dB(A) as an upper limit of noise level during daytime <70 dB(A) as an upper limit during night time

| | |
|--|--|
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WORKZONE NOISE LEVEL MONITORING REPORT

| | | |
|-------------------------------------|-------------------|---------------------------|
| Client's Name & Address | Report No. | GESEC/PRO/2021-22/03/1924 |
| M/s. Nilanjan Iron Pvt Ltd. | Date | 18/03/2022 |
| Plot No. B-7, Kagal Five Star MIDC, | Date Of Sampling | 08/03/2022 |
| Kagal, Kolhapur-416216. | Sampling Duration | 15 Min. |

RESULTS

| Sr. No. | LOCATION | UNIT | READINGS | |
|---------|----------------------------|-------|----------|------------|
| | | | DAY TIME | NIGHT TIME |
| 1. | Furnace Shed | dB(A) | 69.8 | 58.2 |
| 2. | Casting Area | dB(A) | 67.3 | 52.4 |
| 3. | Raw material handling unit | dB(A) | 65.2 | 54.6 |

OBSERVATION / REMARKS:

- All above results are within MPCB Limits
- Limits: MPCB has prescribed 75 dB(A) as an upper limit of noise level during daytime <70 dB(A) as an upper limit during night time

| | | |
|---|---|---|
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SOURCE EMISSION MONITORING REPORT

| | | |
|---|--------------------------|---------------------------|
| Client's Name & Address | Report No. | GESEC/PRO/2021-22/03/1925 |
| M/s. Nilanjan Iron Pvt Ltd. Plot No. B-7, Kagal Five Star MIDC, Kagal, Kolhapur-416216. | Date | 18/03/2022 |
| | Date Of Sampling | 08/03/2022 |
| | Time Of Sampling | 11:30 AM |
| | Sampling Duration | 30 Min |
| | Date of Analysis | 10/03/2022 |
| | Test Location | Furnace |

RESULTS

| Sr. No. | Description | Unit | Results | As per MPCB |
|---------|------------------------|---------------------|---------|-------------|
| 01 | Material of Stack | | MS | |
| 02 | Stack Height from G.L. | Mtr. | 35 | |
| 03 | Type of Stack | | Round | |
| 04 | Flue Gas Temperature | °C | 72 | |
| 05 | Differential Pressure | MmWG | 2.35 | |
| 06 | Velocity | M/s | 5.24 | |
| 07 | Dimensions of Stack | Mtr. | 1.5 | |
| 08 | Stack Area | M ² | 1 | |
| 09 | Gas Volume | Nm ³ /Hr | 3322 | |
| 10 | Particulate Matter | mg/Nm ³ | 59 | 150 |
| 11 | SO ₂ | Ppm | 24 | 80 |
| 12 | NO _x | Ppm | 30 | 80 |

REMARKS/ OBSERVATIONS:

All Above Results are within limits as per MPCB.

| | |
|---|---|
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WATER ANALYSIS COMPILE REPORT

| | | |
|--|----------------------------|----------------------------|
| Client's Name & Address | Report No. | GESEC/PRO/2021-22/03/1926 |
| M/s. Nilanjan Iron Pvt Ltd. | Date | 18/03/2022 |
| Plot No. B-7, Kagal Five Star MIDC, | Date Of Sampling | 08/03/2022 |
| Kagal, Kolhapur-416216. | Nature Of Sample | Liquid |
| | Sample Collected By | GESEC |
| | Date of Analysis | 10/03/2022 |
| | Volume of Sample | 2lit x 1 No. (Plastic Bag) |

| Sr. No | Parameters | Surface water (Project site) | Ground water (Halsavade) | Standards (IS 10500:2012) | Units |
|--------|-------------------------------|---------------------------------|-----------------------------|------------------------------|--------|
| 1. | Colour | 1.0 | 1.3 | | |
| 2. | Temperature | 28 | 30 | - | °C |
| 3. | Turbidity | 0.30 | 0.25 | 1 | NTU |
| 4. | pH | 8.0 | 7.6 | 6.5-8.5 | --- |
| 5. | Conductivity | 341 | 356 | - | mS/cm |
| 6. | TDS | 316 | 320 | 500 | mg/l |
| 7. | Dissolved Oxygen | 2.1 | 1.58 | - | mg/l |
| 8. | Total Hardness | 126 | 154 | 200 | mg/l |
| 9. | Ca-Hardness | 24 | 28 | | mg/l |
| 10. | Calcium as Ca ²⁺ | 31 | 28 | 75 | mg/l |
| 11. | Magnesium as Mg ²⁺ | 21.5 | 16.4 | 30 | mg/l |
| 12. | Chlorides | 115 | 126 | 250 | mg/l |
| 13. | Total Alkalinity | 138 | 154 | 200 | mg/l |
| 14. | Phenolphthalein Alkalinity | Absent | Absent | | mg/l |
| 15. | Ammonical Nitrogen | Absent | Absent | - | mg/l |
| 16. | Sulphate | 64 | 51 | 200 | mg/l |
| 17. | Nitrites | 1.15 | 2.20 | - | mg/l |
| 18. | Phosphate | 3.46 | 6.21 | - | mg/l |
| 19. | Fluoride | 0.03 | 0.02 | 1.0 | mg/l |
| 20. | Sodium | 0.05 | 0.04 | - | mg/l |
| 21. | Potassium | 0.07 | 0.08 | - | mg/l |
| 22. | COD | 53 | 45 | - | mg/l |
| 23. | BOD | 15.2 | 13.1 | - | mg/l |
| 24. | MPN | Nil | Nil | 00 | Org/dl |
| 25. | F. coli. | | - | Absent | Org/dl |

Note: All the parameters are within permissible limit as per IS – 10500 Standards, BDL – Below Detection Limit.

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| ANALYZED BY-  | AUTHORIZED SIGNATORY  |
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- MoEF approved Lab by Govt. of India. From date. 16/02/2022 to 04/12/2022.