

Ref: - ESPL/SMC/APRIL-2023 TO SEPT-2023

Date: 29.12.2023

To,
The Inspector General of Forest (IGF)
GOI, MoEF&CC,
Integrated Regional Office, Kolkata
IB-198, Salt Lake City, Sector-III
Kolkata - 700106

SUB: Six Monthly (April-2023 to Sept-2023) Compliance to Environmental Clearance of M/s Eloquent Steel Pvt. Limited, Vill-Nakrajoria, PO & PS-Salanpur, Dist.-Paschim Bardhaman-713357, (WB)

EC Reference: F. No. J-11011/188/2011-IA.II(I) dated 16th March, 2023

Respected Ma'am,
With reference to the above, we are submitting herewith the six-monthly compliance report (Period April-2023 to Sept-2023) for M/s Eloquent Steel Pvt. Limited, Vill-Nakrajoria, PO & PS-Salanpur, Dist.-Paschim Bardhaman (WB) as per the directives of Ministry of Environment Forest and Climate Change, Government of India. Point wise compliance status report along with latest environment monitoring data is enclosed for your kind consideration.

Hard copy of the report has not been sent following MoEF&CC direction vide File No. 106-12/EPE Dated 11.05.2020. Hope you will find the same in order.

Kindly acknowledge our submission.

With regards.

Yours Faithfully,

For **Eloquent Steel Pvt. Ltd.**

Authorized Signatory

Encl: as above

Copy to:

The Environmental Engineer, West Bengal Pollution Control Board, Asansol Regional Office, Kalyanpur Satellite Township Project, Dr. B.C. Roy Road, PO-Dakshin Dhadka, Asansol- 713302, Dist-Paschim Bardhaman (WB)



M/s ELOQUENT STEEL PVT. LIMITED

COMPLIANCE STATUS OF ENVIRONMENTAL CLEARANCE

MoEF&CC. F. No.: J-11011/188/2011-IA.II(I) dated 16th March, 2023

COMPLIANCE PERIOD:

APRIL-2023 to SEPTEMBER -2023

PROJECT LOCATION:

Vill- Nakrajoria, PO&PS-Salanpur, Dist- Paschim Bardhman (WB)-713357



SIX MONTHLY COMPLIANCE REPORT

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| Name of the Project | : M/S ELOQUENT STEEL PVT. LTD. Village: Nakrajoria, P.O.: Salanpur, Dist.- Paschim Bardhaman, West Bengal. |
| Proposal No. | : F. No.: J-11011/188/2011-IA.II(I)dated 16 th March, 2023 |
| Period of Compliance Report | : April 2023 to September 2023. |

| S.No. | CONDITIONS | COMPLIANCE STATUS |
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| A. SPECIFIC CONDITIONS: - | | |
| i. | The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented. | Noted. It is being/shall be complied with project Implementation. |
| ii. | The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard. | Noted. The company has taken into considerations to adopt more carbon efficient technologies available in the market at planning stage for integrations of new equipment. Carbon sequestration resources like dens plantation and its proper maintenance being/shall be done as the plants are good receptor of CO ₂ from atmosphere. |
| iii. | Barakar river and Maithon Dam exists adjacent to the project site. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented. | Recycle & reuse practice being/shall be ensured to maintain the Zero Liquid Discharge. No industrial waste water is allowed to discharge outside the factory premises. Therefore, there shall be no chance of adverse due to industrial effluent. Drainage system of the company is under renovation so as to maintain the natural flow parameters and to control the soil erosion. |
| iv. | Performance test shall be conducted on all pollution control systems every half-yearly and report shall be submitted to Regional Office of the MoEF&CC. | It is being/shall be complied. NABL accredited third party monitoring being conducted periodically to evaluate the emission level of pollution control systems i.e. bag filters. It is also being monitored by West Bengal Pollution Control Board (WBPCB) team time to time. Latest stack monitoring reports are enclosed as Annexure-1 |
| v. | Solid waste utilization a) PP shall install a fly ash brick making plant. b) PP shall recycle/reuse 100% solid waste generated in the plant. | Proper handling and storage of solid waste being done. a) No fly ash being/shall be generated from the plant, therefore fly ash brick making plant is proposed. b) Recycle and reuse of solid waste being/shall be ensured with possible efforts. Ferrous (Fe-Mn) Slag being used for the manufacturing of |



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| | c) Used refractories shall be recycled as far as possible | Silico Manganese (Si-Mn), and Silico Manganese slag being used for land filling and road construction. c) Used refractories shall be recycled as far as possible. |
| vi. | Particulate matter emission from stacks shall be less than 30 mg/Nm ³ . Action plan in this regard shall be strictly implemented. | Noted. It shall be compiled with implementation of new projects. Capacity of pollution control devices to be installed shall be as to control emission level well within 30 mg/Nm ³ . Pollution control devices of existing project are already been installed and operated effereently complying with standards set West Bengal Pollution Control Board. Latest stack monitoring reports are attached as Annexure-1 |
| vii. | 85-90 % rolling shall be done by direct hot charging. Balance 10-15 % may be done through RHF using LDO as fuel. | Noted. It shall be complied as per direction. |
| viii. | The water requirement of 2140 KLD will be sourced from Maithon Reservoir. GW abstraction is not permitted. | Noted & It shall be complied. Water requirement being / well be met from DVC. No ground water being/ will be abstracted. Copy of water agreement is enclose as Annexure-2 |
| ix. | The PP shall also undertake rain water harvesting measures as per the plan submitted in the EIA/EMP report and reduce water dependence from the outside source. | It is being complied. Rain water harvesting pond already been developed to ensure maximum rain water collection and being used to reduce water needs dependence from out side source. Rain water harvesting pond Photograph are attached as Annexure-3 All possible attempts shall be made to ensure optimal rain water harvesting & use of such water to reduce requirements from outside. |
| x. | Dendua (0.03 Km) and Salanpur (1.4 Km) villages are in the vicinity of the project site. Project Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The PP shall also include these locations in its environmental monitoring programme. | Noted and it shall be complied. |
| xi. | As committed by the PP to adopt Nakrajoria Village under Dendua Village Panchayat, project proponent shall prepare and implement a robust plan to develop them into model villages in next 10 years. | Company will ensure to complete its commitment made for the village. Road side plantation has been started in the monsoon season. Renovation of village pond at Nakrajoria has been stared and other activities shall also be done with time bound program for development of the Nakrajoria village. |
| xii. | SAFs shall have 4 th hole extraction system for fume pollution control. | It is complied. |
| xiii. | Fe-Cr slag shall be subjected to TCLP to finalize if it could be used for construction or should be sent to TSDF | Noted and it shall be complied, Latest slag TCLP analysis report are enclosed as Annexure-4 |
| xiv. | Briquetting and Jigging plant shall be installed in Ferro Alloys Plant. | Noted. It has been installed. |



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| xv. | A proper action plan must be implemented to dispose of the electronic waste generated in the industry. | As per E-Waste Management & handling Rules 2016 it is being complied. |
| xvi. | Three tier Green Belt shall be developed in at least 33% in a time frame of one year with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC. | Company has achieved the desired plantation target of 33%. Total plant area is 9.089 Hectare. Based on this company has to develop 3.00 Ha. green belt. Approx. 7800 plants of different type of indigenous species have been planted so far. Selection of species done on the basis of recommendation of DFO as well as the species found suitably growing in local areas. Some photographs of green belt are attached as Annexure 5 . |
| xvii. | Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface. | Paving and concreting and greening of the project area has been started to arrest soil erosion and dust pollution from exposed soil surface. Annexure-6 . |
| xviii. | The proposed project shall be designed as "Zero Liquid Discharge" Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant of required capacity. As committed, suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body. | Recycle and reuse practice has been adapted for industrial waste water. No industrial effluent being discharged outside the factory premises. For domestic sewage effluent treatment septic tank followed by soak pit facilities are provided. STP shall be installed for the treatment of domestic waste water and treated water shall be re-used for greenbelt development and plantation and dust suppression. Effluent analysis report is enclosed as Annexure-7 |
| xix. | All stockyards shall be having impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have provision of garland drains and catch pits to trap run off material. Action plan submitted in the EIA/EMP Report shall be strictly implemented. | Impervious flooring of stockyard shall be ensured with garland drain as per direction so as to trap the run off materials. However raw material like coal is kept under the shed and those kept outside under open sky being covered under tarpaulin. Water sprinkling system is provided for dust suppression. |
| xx. | No parking on road side for any vehicle pertaining to the plant. Proper arrangement for vehicle parking within the plant will be made | Noted. It is being complied |
| xxi. | All the commitments made to the public during the Public Hearing/Public Consultation shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC. | Noted and shall be complied with. |
| xxii. | The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at https://cpcb.nic.in/technical-guidelines-3/ . All the project proponents are hereby | It is being complied. Single used is completely banned inside the plant premises. Our EHS personnel are regularly creating awareness among people working within the factory premises to avoid the single use plastic items. Further campaigning against SUP shall be conducted for more effective compliance of guidelines and notification date 12/08/2021 of Hon'ble Ministry |



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| | requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents. | |
| xxiii. | The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere. | Proper air pollution control device (APCDs) like bag filters, dust extraction system water sprinklers, are/shall be provided to maintain clean air environment. Adequate no. of water sprinklers are provided in the project area and movable water tanker is also deployed for suppression of fugitive dust emission due to vehicular movement on roads inside the plant and surrounding of the plant area. During transportation of raw material vehicles being/will be covered properly by the tarpaulin for control of fugitive dust emission. |
| B. General Conditions | | |
| I. Statutory compliance: | | |
| i. | The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project. | Noted. After getting the Environmental clearance ESPL has obtained the Consent to establish (CTE) from waste Bengal pollution control Board (WBPCB). Project activities for installation of expansion project has been started. Existing project of SAF is already under operation with valid CTO obtained from WBPCB. Copies of CTE and CTO is attached as Annexure-8 |
| II. Air quality monitoring and preservation | | |
| i. | The project proponent shall install 24x7 continuous emission monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31 st March 2012 (Integrated iron & Steel) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. | 24x7 Online Continuous Emission Monitoring System (OCEMS) with all major stacks have been installed and connected to CPCB portal to monitor the air emission. Stack emission status also being monitored periodically through NABL accredited laboratory to evaluated emission level. Ambient Air Quality Monitoring (AAQM) being done periodically through NABL accredited agency. Latest Stack monitoring & Ambient Air Quality Monitoring reports are attached as Annexure-1 & 9. |
| ii. | The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories | Fugitive Emission monitoring is being done through NABL accredited laboratories. Latest Work zone monitoring report are enclosed as Annexure -10. |
| iii. | Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, | Air pollution control devices i.e. bag filters along with dust extraction system and water sprinklers for effective dust suppression have been installed and efficiently operated to control emission. |



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| | so as to comply prescribed stack emission and fugitive emission standards. | within the norms. Water sprinkling being done through water tanker to control the fugitive emission due to vehicular movements. Third party monitoring by NABL accredited laboratory being conducted periodically to evaluate the emission levels. Latest Stack monitoring report & fugitive air emission report is enclosed as Annexure-1 & 10 |
| iv. | The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags. | Being / Shall be complied. Functioning of bag filters being monitored by suitably skilled manpower and observations noticed being promptly attended. Leakage detection and mechanized bag cleaning facilities shall also be provided for upcoming units of expansion projects. |
| v. | Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/agglomeration | It is being complied. To ensure optimum use of raw material & minimal solid waste generation, recycle & reuse practice has already been adopted. The briquetting plant has been installed and ready to operate. |
| vi. | The project proponent shall ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation. | It is being complied. Proper covered transportation of raw materials being/will be done to prevent spillage and dust generation. |
| vii. | The project proponent shall provide primary and secondary fume extraction system at all melting furnaces. | Fume extraction system has been installed at melting furnace attached with spark arrester and bag filter connected with 30-meter stack height. |
| viii. | Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars. | Ventilation for proper air circulation has been provided in such areas and shall also be provided for adequate air changes for all tunnels, motor houses, Oil Cellars with upcoming projects facilities |
| III. Water quality monitoring and preservation | | |
| i. | The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31 st March 2012 (Integrated iron & Steel) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. | It shall be complied. Recycle and reuse practice has been adapted for industrial waste water. No industrial effluent being discharged outside the factory premises. For domestic sewage effluent treatment septic tank followed by soak pit facilities are provided. Last effluent monitoring report analysed by NABL accredited laboratory is enclosed as Annexure-7 . |
| ii. | The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories. | Ground water quality being monitored by NABL accredited laboratory. No ground water being extracted by the company, hence there is no scope of affecting the ground water level due to industrial activities. Latest ground water monitoring report, sample taken from the village is attached as Annexure-8 . |




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| iii. | Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards. | For the treatment of domestic sewage effluent septic tank followed by soak pit facility has been provided. Sewage Treatment Plant shall be installed for domestic waste water and treated water shall be re-used for green belt development. |
| iv. | The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31 st March 2012 (applicable to IF/EAF) as amended from time to time. | Noted. It shall be complied upcoming project. |
| v. | Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off. | Being complied. Raw Material being kept under the shed iron stock pills are being covered under tarpaulin. Gar land drains shall be implemented upcoming project. |
| IV. Noise monitoring and prevention | | |
| i. | Noise quality shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report | It is being / shall complied. Noise quality monitoring being done on regular basis as directives of noise pollution (regulation and control) Rules, 2000. Latest Ambient & Work Zone Noise monitoring reports are enclosed as Annexure-12 & 13. |
| V. Energy Conservation measures | | |
| i. | Energy conservation measures may be adopted such as adoption of solar energy and provision of LED lights etc., to minimize the energy consumption. | It is being/shall be complied. Offices inside the has been equipped with LED lights. For the minimization of electric energy consumption company has proposed the installation of solar panel. |
| VI. Waste management | | |
| i. | Used refractories shall be recycled. | Noted. Efforts shall be done to recycle the refractories as far as possible. |
| ii. | Kitchen waste shall be composted or converted to biogas for further use. | It is being complied. Kitchen waste from canteen is being composted and be used in green belt as a bio-fertilizer. |
| VII. Green Belt | | |
| i. | The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees. | It shall be complied. Carbon footprint & carbon sequestration report of the project is already been prepared and submitted to MoEF & CC. Attached as Annexure-14. Continues efforts being & shall be done to reduce the carbon footprints. |
| ii. | Project proponent shall submit a study report on De-carbonization program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage after offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames. | Noted. It shall be tried to be implemented with best possible efforts and technologies available in the market. Offices inside the has been equipped with LED lights. For the minimization of electric energy consumption company has proposed the installation of solar panel as renewable energy. |

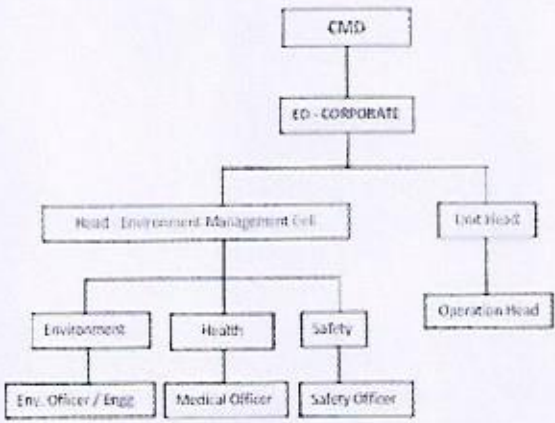


| VIII. Public hearing and Human health issues | | |
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| i. | Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented. | It is being complied. Risk & Disaster Management plan of the company is attached as Annexure-15 . |
| ii. | The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act. | Personal Protection Equipment (PPE) like safety shoes, hand gloves, face shield, apron etc. being provided to the workmen deployed in hot work zone. Heat stress analysis shall be carried out as per direction. |
| iii. | Occupational health surveillance of the workers shall be done on a regular basis and records maintained. | Occupational health surveillance program of the workers being under taken on regular basis and records are maintained. Some photographs of employee health check-up program is attached as Annexure-16 |
| iv. | The Unit is using quartzite and coke and sought EC for expansion for alloy production. Therefore, the industry is recommended to measure silica and coal dust exposures using personal and area air samplers in process plants and to be compared with Permissible exposure limits as per Indian Factories Act, 1948. Report to be submitted to the IRO, MoEFCC. | Personnel's working for the production of Silico Manganese and Ferro Silicon being/shall be provided the PPEs like dust masks eyes safety goggles as protective measures. It shall be monitored as per direction and Indian Factories Act. |

IX. Environment Management

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| i. | The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed. | Company has undertaken various CER activities for the benefit of local community i.e. maintenance of school building, study material distribution to school students, foodstuffs and clothing to underprivileged people, sport organization for children/youths etc. It shall be more effectively implemented to comply the directions of socio -economic development for the benefit of local community. |
| ii. | The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report. | It is compiled. ESPL has implemented standard operating procedure to look into any infringement/ deviation/violation of environmental/ forest/wildlife norms/ conditions. ESPL has also the Hierarchical system/ Administrative order to deal with environmental issues and compliance of EC conditions. There is a reporting system in place to deal with any non-compliance/ violation of environmental norms as follows: Board of Director  <pre> graph TD A[Board of Director] --> B[CMD] B --> C[ED - CORPORATE] C --> D[Head - Environment Management Cell] C --> E[Unit Head] D --> F[Environment] D --> G[Health] D --> H[Safety] F --> I[Env. Officer / Insp.] G --> J[Medical Officer] H --> K[Safety Officer] E --> L[Operation Head] </pre> |



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| iii. | A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization. | <p>An environmental cell has been set up under the supervision of senior executive to look after the day to day activities pertaining to environment & pollution control issues of the company. Hierarchical system/administrative order of the environmental cell is follows-</p>  <pre> graph TD CMD[CMD] --> EOCORPORATE[EO-CORPORATE] EOCORPORATE --> HEMC[Head - Environment Management Cell] EOCORPORATE --> UH[Unit Head] HEMC --> Env[Environment] HEMC --> Health[Health] HEMC --> Safety[Safety] Env --> EnvOff[Env. Officer / Engg] Health --> MedOff[Medical Officer] Safety --> SafOff[Safety Officer] UH --> OpHead[Operation Head] </pre> |
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X. Miscellaneous

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| i. | The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently. | <p>It has been complied Advertisement in newspaper has been done. Newspaper cuttings are attached as Annexure-17</p> <p>Granted EC copy has been available as 'Environmental Orders' on the company website permanently. http://shakambhariispat.com/environmental-orders</p> |
| ii. | The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt. | <p>Complied. Attached as Annexure-18</p> |
| iii. | The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis. | <p>Noted It is being/shall be complied. http://shakambhariispat.com/environmental-compliance</p> |
| iv. | The project proponent shall monitor the criteria pollutants level namely; PM ₁₀ , SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company. | <p>It is being/shall be complied. Latest stack monitoring reports & ambient air monitoring report for criteria pollutants level namely; PM₁₀, SO₂, NO_x being displayed at main gate of the plant and it shall also be uploaded in company website (http://shakambhariispat.com/environmental-compliance) under half yearly compliance report as per direction Environmental display data board attached as Annexure -19.</p> |
| v. | The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website | <p>It shall be complied.</p> |



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| | stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal. | |
| vi. | The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company. | It is being complied on regular basis. Previous year Environment Statement in Form-V for FY 2022-23 has already been submitted to SPCB with a copy to MoEFCC Regional Office Kolkata and also uploaded on company's website. |
| vii. | The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project. | The financial closure of the project is under process with consortium bankers and shall be communicated once received. After obtaining CTE(NOC) vide no. NO 180715 dated 08.05.2023 from WBPCB company has started the project activities w.e.f. 09.05.2023. Copy of CTE attached as Annexure-8 |
| viii. | The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee. | Noted. It shall be complied. The commitments made during public hearing, recommendations made in the EIA/EMP report and also that during presentation to the Expert Appraisal Committee on different aspects are under implementation and shall be with the implementation of the projects. |
| ix. | The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain. | Noted. It shall be complied. EC has been uploaded on company's website http://shakambhariispat.com/environmental-orders |
| x. | No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC). | It shall be followed. No further expansion or modification will be undertaken without prior approval of the MoEF&CC. |
| xi. | The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports. | Noted. It shall be complied. |



ANNEXURE- 1
(Stack Emission Monitoring report.)



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018



TEST REPORT

FORMAT NO : ENV/FM/38

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|---------------------------|--|---|----------------------------|----------------|-----------------------------|
| Name of the Industry | : Eloquent Steel Pvt. Ltd. | Type of Industry | : Ferro Alloy and SMS Unit | | |
| Address | : Vill. – Nakrajoria, P.O. + P.S. – Salanpur, Dist. – PaschimBardhaman | Sampling Date | : 13.09.2023 | | |
| | | Period of Analysis | : 16.09.2023 – 19.09.2023 | | |
| | | Date of Issue | : 21.09.2023 | | |
| Sampling Plan & Procedure | : ENV/SOP/01 | Deviation from the Sampling Method and Plan | : No | Type of Sample | : Stack Emission |
| Sample Condition | : Sealed | Sample ID No. | : ENV/65/Sep./A/I | Report No. | : ENV/65/Sep./TR(A)/I/23-24 |

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

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|---------------------------|-------------------------|--|--------|
| Stack Attached to | : SEAF (No.1) (7.5 MVA) | | |
| Shape of Stack | : Circular | Height of Stack (mtr.) (from G. L.) | : 36.0 |
| Materials of Construction | : M.S. | Stack I.D. at sampling point (mtr.) | : 1.50 |
| Capacity | : 7.5 MVA | Height of sampling port (mtr.) (from G.L.) | : 30.0 |
| Emission Due to | : Reduction of Mn-Ore | | |
| Fuel Used | : Electrically Operated | Permanent Platform & Ladder | : Yes |
| Working Fuel Consumption | : Nil | | |
| Pollution Control Device | : Bag Filter | | |

B. RESULTS

| SL. NO. | PARAMETERS | UNIT | METHOD NO. | RESULTS |
|---------|-------------------------------------|----------------------|--|------------|
| 1. | Flue Gas Temperature | °C | IS : 11255 (Part 1) | : 89.0 |
| 2. | Barometric Pressure | mm of Hg. | -- | : 755.0 |
| 3. | Velocity of Gas flow | m/s | IS : 11255 (Part 3) | : 9.76 |
| 4. | Quantity of Gas flow | Nm ³ /hr. | IS : 11255 (Part III) | : 57709.06 |
| 5. | Concentration of SO ₂ | mg/Nm ³ | IS 11255 (Part 2) : 2019 | : 110.43 |
| 6. | Concentration of CO ₂ | % (v/v) | IS 13270 : 2019 | : 1.8 |
| 7. | Concentration of CO | % (v/v) | IS 13270 : 2019 | : <1.0 |
| 8. | Concentration of Particulate Matter | mg/Nm ³ | IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017 | : 23.45 |

Remarks : Result relates only to the sample tested.

Reviewed By :

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. AJAY PAUL
Quality Manager

H.O. : 63/B, Rastraguru Avenue, Kolkata -700028 ■ Ph. 033 25792891/ 25497490 ■ Fax : 033 25299141
 Laboratory : 189, 190 & 192, Rastraguru Avenue, Kolkata -700028 ■ Ph. 033 25792889
 E-mail : info@envirocheck.in / envirocheck50@gmail.com ■ Website : www.envirocheck.in
 Branch Office : Siliguri ■ Haldia ■ Durgapur ■ Dhanbad ■ Gangtok ■ Port Blair ■ Dehradun ■ New Delhi
 Overseas : UAE ■ Qatar ■ Netherlands



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018



TEST REPORT

FORMAT NO : ENV/FM/38

| | | | | | |
|---------------------------|--|---|----------------------------|----------------|------------------------------|
| Name of the Industry | : Eloquent Steel Pvt. Ltd. | Type of Industry | : Ferro Alloy and SMS Unit | | |
| Address | : Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - PaschimBardhaman | Sampling Date | : 13.09.2023 | | |
| | | Period of Analysis | : 16.09.2023 - 19.09.2023 | | |
| | | Date of Issue | : 21.09.2023 | | |
| Sampling Plan & Procedure | : ENV/SOP/01 | Deviation from the Sampling Method and Plan | : No | Type of Sample | : Stack Emission |
| Sample Condition | : Sealed | Sample ID No. | : ENV/65/Sep./A/II | Report No. | : ENV/65/Sep./TR(A)/II/23-24 |

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| | | | |
|---------------------------|-------------------------|--|--------|
| Stack Attached to | : SEAF (No.2) (7.5 MVA) | | |
| Shape of Stack | : Circular | Height of Stack (mtr.) (from G. L.) | : 36.0 |
| Materials of Construction | : M.S. | Stack I.D. at sampling point (mtr.) | : 1.6 |
| Capacity | : 7.5 MVA | Height of sampling port (mtr.) (from G.L.) | : 30.0 |
| Emission Due to | : Reduction of Mn-Ore | | |
| Fuel Used | : Electrically Operated | Permanent Platform & Ladder | : Yes |
| Working Fuel Consumption | : Nil | | |
| Pollution Control Device | : Bag Filter | | |

B. RESULTS

| SL. NO. | PARAMETERS | UNIT | METHOD NO. | RESULTS |
|---------|-------------------------------------|----------------------|--|------------|
| 1. | Flue Gas Temperature | °C | IS : 11255 (Part 1) | : 95.0 |
| 2. | Barometric Pressure | mm of Hg. | -- | : 755.0 |
| 3. | Velocity of Gas flow | m/s | IS : 11255 (Part 3) | : 9.84 |
| 4. | Quantity of Gas flow | Nm ³ /hr. | IS : 11255 (Part III) | : 57222.85 |
| 5. | Concentration of SO ₂ | mg/Nm ³ | IS 11255 (Part 2) : 2019 | : 161.88 |
| 6. | Concentration of CO ₂ | % (v/v) | IS 13270 : 2019 | : 2.0 |
| 7. | Concentration of CO | % (v/v) | IS 13270 : 2019 | : <1.0 |
| 8. | Concentration of Particulate Matter | mg/Nm ³ | IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017 | : 25.41 |

Remarks : Result relates only to the sample tested.

Reviewed By :

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. AJOY PAUL
Quality Manager

H.O. : 63/B, Rastraguru Avenue, Kolkata -700028 ■ Ph. 033 25792891/ 25497490 ■ Fax : 033 25299141
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 E-mail : info@envirocheck.in / envirocheck50@gmail.com ■ Website : www.envirocheck.in
 Branch Office : Siliguri ■ Haldia ■ Durgapur ■ Dhanbad ■ Gangtok ■ Port Blair ■ Dehradun ■ New Delhi
 Overseas : UAE ■ Qatar ■ Netherlands



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018



TEST REPORT

FORMAT NO : ENV/FM/38

| | | | | | |
|---------------------------|--|---|----------------------------|----------------|-------------------------------|
| Name of the Industry | : Eloquent Steel Pvt. Ltd. | Type of Industry | : Ferro Alloy and SMS Unit | | |
| Address | : Vill. – Nakrajoria, P.O. + P.S. – Salanpur, Dist. – PaschimBardhaman | Sampling Date | : 13.09.2023 | | |
| | | Period of Analysis | : 16.09.2023 – 19.09.2023 | | |
| | | Date of Issue | : 21.09.2023 | | |
| Sampling Plan & Procedure | : ENV/SOP/01 | Deviation from the Sampling Method and Plan | : No | Type of Sample | : Stack Emission |
| Sample Condition | : Sealed | Sample ID No. | : ENV/65/Sep./A/III | Report No. | : ENV/65/Sep./TR(A)/III/23-24 |

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| | | | |
|---------------------------|-------------------------|--|--------|
| Stack Attached to | : SEAF (No.3) (7.5 MVA) | | |
| Shape of Stack | : Circular | Height of Stack (mtr.) (from G. L.) | : 36.0 |
| Materials of Construction | : M.S. | Stack I.D. at sampling point (mtr.) | : 1.6 |
| Capacity | : 7.5 MVA | Height of sampling port (mtr.) (from G.L.) | : 30.0 |
| Emission Due to | : Reduction of Mn-Ore | | |
| Fuel Used | : Electrically Operated | Permanent Platform & Ladder | : Yes |
| Working Fuel Consumption | : Nil | | |
| Pollution Control Device | : Bag Filter | | |

B. RESULTS

| SL. NO. | PARAMETERS | UNIT | METHOD NO. | RESULTS |
|---------|-------------------------------------|----------------------|--|------------|
| 1. | Flue Gas Temperature | °C | IS : 11255 (Part 1) | : 84.0 |
| 2. | Barometric Pressure | mm of Hg. | -- | : 755.0 |
| 3. | Velocity of Gas flow | m/s | IS : 11255 (Part 3) | : 9.70 |
| 4. | Quantity of Gas flow | Nm ³ /hr. | IS : 11255 (Part III) | : 58157.57 |
| 5. | Concentration of SO ₂ | mg/Nm ³ | IS 11255 (Part 2) : 2019 | : 146.46 |
| 6. | Concentration of CO ₂ | % (v/v) | IS 13270 : 2019 | : 1.6 |
| 7. | Concentration of CO | % (v/v) | IS 13270 : 2019 | : <1.0 |
| 8. | Concentration of Particulate Matter | mg/Nm ³ | IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017 | : 28.38 |

Remarks : Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharya

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. Ajoy Paul

Dr. AJAY PAUL
Quality Manager

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 Branch Office : Siliguri ■ Haldia ■ Durgapur ■ Dhanbad ■ Gangtok ■ Port Blair ■ Dehradun ■ New Delhi
 Overseas : UAE ■ Qatar ■ Netherlands



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018



TEST REPORT

FORMAT NO : ENV/FM/38

| | | | | | |
|---------------------------|--|---|----------------------------|----------------|------------------------------|
| Name of the Industry | : Eloquent Steel Pvt. Ltd. | Type of Industry | : Ferro Alloy and SMS Unit | | |
| Address | : Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - PaschimBardhaman | Sampling Date | : 13.09.2023 | | |
| | | Period of Analysis | : 16.09.2023 - 19.09.2023 | | |
| | | Date of Issue | : 21.09.2023 | | |
| Sampling Plan & Procedure | : ENV/SOP/01 | Deviation from the Sampling Method and Plan | : No | Type of Sample | : Stack Emission |
| Sample Condition | : Sealed | Sample ID No. | : ENV/65/Sep./A/IV | Report No. | : ENV/65/Sep./TR(A)/IV/23-24 |

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

| | | | |
|---------------------------|-------------------------|--|--------|
| Stack Attached to | : SEAF (No.4) (5.5 MVA) | | |
| Shape of Stack | : Circular | Height of Stack (mtr.) (from G.L.) | : 36.0 |
| Materials of Construction | : M.S. | Stack I.D. at sampling point (mtr.) | : 2.0 |
| Capacity | : 5.5 MVA | Height of sampling port (mtr.) (from G.L.) | : 30.0 |
| Emission Due to | : Reduction of Mn-Ore | | |
| Fuel Used | : Electrically Operated | Permanent Platform & Ladder | : Yes |
| Working Fuel Consumption | : Nil | | |
| Pollution Control Device | : Bag Filter | | |

B. RESULTS

| SL. NO. | PARAMETERS | UNIT | METHOD NO. | RESULTS |
|---------|-------------------------------------|----------------------|--|------------|
| 1. | Flue Gas Temperature | °C | IS : 11255 (Part 1) | : 81.0 |
| 2. | Barometric Pressure | mm of Hg. | -- | : 755.0 |
| 3. | Velocity of Gas flow | m/s | IS : 11255 (Part 3) | : 9.65 |
| 4. | Quantity of Gas flow | Nm ³ /hr. | IS : 11255 (Part III) | : 91152.02 |
| 5. | Concentration of SO ₂ | mg/Nm ³ | IS 11255 (Part 2) : 2019 | : 136.78 |
| 6. | Concentration of CO ₂ | % (v/v) | IS 13270 : 2019 | : 2.0 |
| 7. | Concentration of CO | % (v/v) | IS 13270 : 2019 | : <1.0 |
| 8. | Concentration of Particulate Matter | mg/Nm ³ | IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017 | : 24.88 |

Remarks : Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharya

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. Ajoy Paul

Dr. AJOY PAUL
Quality Manager

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 Branch Office : Siliguri ■ Haldia ■ Durgapur ■ Dhanbad ■ Gangtok ■ Port Blair ■ Dehradun ■ New Delhi
 Overseas : UAE ■ Qatar ■ Netherlands

ANNEXURE- 2
(Copy of water agreement)

DAMODAR VALLEY CORPORATION



AGREEMENT

EXECUTED ON ...*22nd*... day of September-2021

BETWEEN

**DAMODAR VALLEY CORPORATION
AND**

**ELOQUENT STEEL PRIVATE LIMITED
For Supply of RAW WATER**

FOR

INDUSTRIAL PURPOSE

AT
SARKURI

FROM

Maithon Reservoir

**FOR
INDUSTRIAL (USES)**

Allocated Quantity : 0.49 (Zero Point Four Nine) MGD

Ravesh Ranjan
Executive Engineer (C)
Water, Tariff Cell
RO'S Office, DVC, Maithon





पश्चिमवङ्ग पश्चिम बंगाल WEST BENGAL

47 511421

AGREEMENT

Supply of Raw Water

For

Industrial Use

This Agreement is made on this 22nd Day of September-2021

BETWEEN

DAMODAR VALLEY CORPORATION, a Corporation constituted under the Damodar Valley Corporation Act being Act No. XIV of 1948 (hereinafter referred to as "the said Act") and having its Headquarters of DVC Towers, VIP Road, Kolkata -700 054 in the state of West Bengal (hereinafter to as "the First Party", which term shall unless excluded by or repugnant to the subject or context include its successors-in-interest and assigns) of the ONE PART

AND

M/S. ELOQUENT STEEL PRIVATE LIMITED, a Limited Company, having their registered office at DIAMOND PRESTIGE, 41A, AJC BOSE ROAD, 8 TH FLOOR, ROOM 801, KOLKATA 700017 in the state of West Bengal (Hereinafter referred to as "the Second Party" which term shall unless excluded by or repugnant to the subject or context include its successors-in-interest and/or permitted assigns) of OTHER PART.

Rakesh Ranjan
Executive Engineer (C)
Water, Tariff Cell

RO'S Office, DVC, Patna

ANNEXURE- 3
(Photo of Rain water Harvesting pond.)



ANNEXURE- 4

(TCLP Analysis Report of Solid Waste Ferro Slag Analysis Report.)



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Accredited by NABL (ISO/IEC 17025:2017)
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018



TCLP REPORT

1. Name of the Industry : Eloquent Steel Pvt. Ltd.
2. Address : Vill. – Nakrajoria, P.O. + P.S. – Salanpur, Dist. – Paschim Bardhaman
3. Report No. : ENV/397A/S/M/23-24
4. Date of sampling : 13.09.2023
5. Reporting Date : 23.09.2023
6. Type of sample : Slag
7. Location : Ferro Slag

| Sl. No. | PARAMETERS | METHOD | UNIT | RESULTS |
|---------|---------------|---|-------|---------|
| 1. | Iron (Fe) | EPA 1311 : 1992 / EPA 3050 B, 1996/EPA 200.9 : 1998 | mg./l | 2.80 |
| 2. | Zinc (Zn) | EPA 1311 : 1992 / APHA 23 rd Ed., 3111 B : 2017 | mg./l | 2.56 |
| 3. | Copper (Cu) | EPA 1311 : 1992 / EPA 3050 B, 1996/EPA 200.6 : 1998 | mg./l | 2.80 |
| 4. | Nickel (Ni) | EPA 1311 : 1992 / APHA 23 rd Ed., 3111 B : 2017 | mg./l | 1.24 |
| 5. | Lead (Pb) | EPA 1311 : 1992 / EPA 3050 B, 1996/EPA 200.9 : 1998 | mg./l | 1.56 |
| 6. | Cadmium (Cd) | EPA 1311 : 1992 / EPA 3050 B, 1996/IS 3050 (Part 46) | mg./l | 0.5 |
| 7. | Chromium (Cr) | APHA 23 rd Ed., 3111 B : 2017 | mg./l | 0.64 |

Remarks : Result relates only to the sample tested.

Reviewed By :

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. AJOY PAUL
Quality Manager

<End of Report>

ANNEXURE- 5
(Some Photographs of green belt)







ANNEXURE- 6
(Some Photographs of plant Road and Paved road.)





ANNEXURE- 7
(Industrial Effluent Water analysis report.)



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018



FORMAT NO. ENV/FM/40

TEST REPORT

| | | | | | |
|---------------------------|---|---|----------------------------|----------------|------------------------------------|
| Name of the Industry | : Eloquent Steel Pvt. Ltd. | Type of Industry | : Ferro Alloy and SMS Unit | | |
| Address | : Vill. – Nakrajoria, P.O. + P.S. – Salanpur, Dist. – Paschim Bardhaman | Sampling Date | : 13.09.2023 | | |
| | | Period of Analysis | : 14.09.2023 – 20.09.2023 | | |
| | | Date of Issue | : 21.09.2023 | | |
| Sampling Plan & Procedure | : ENV/SOP/01 | Deviation from the Sampling Method and Plan | : No | Type of Sample | : Industrial Effluent Water (Grab) |
| Location | : Recycling Water Tank | Sample ID No. | : ENV/397B/Sep./M/W | Report No. | : ENV/397B/Sep./M/TR(W)/23-24 |

| SL. NO. | PARAMETERS | TEST METHOD | UNIT | RESULTS |
|---------|---|---|------|---------|
| 1. | pH | 4500 H ⁺ B APHA 23 rd Edition, 2017 | - | 6.80 |
| 2. | Total Suspended Solids | 2540 D APHA 23 rd Edition, 2017 | mg/l | 20.0 |
| 3. | Oil & Grease | 5520 B/D APHA 23 rd Edition, 2017 | mg/l | <1.0 |
| 4. | Chemical Oxygen Demand | 5200 B/C/D APHA 23 rd Edition, 2017 | mg/l | 60.0 |
| 5. | Biochemical Oxygen Demand for 5 days at 20 ^o C | 5210 B APHA 23 rd Edition, 2017 | mg/l | <2.0 |

Remarks : a) Sample collected by Envirocheck and sent to lab for testing in sealed condition.
b) Result relates only to the sample tested.

Reviewed By :

DURBADAL CHAKRABORTY
Dy. Quality Manager

Authorised Signatory :

Dr. AJOY PAUL
Quality Manager

<End of Report>

H.O. : 63/B, Rastraguru Avenue, Kolkata -700028 ■ Ph. 033 25792891/ 25497490 ■ Fax : 033 25299141
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E-mail : info@envirocheck.in / envirocheck50@gmail.com ■ Website : www.envirocheck.in
Branch Office : Siliguri ■ Haldia ■ Durgapur ■ Dhanbad ■ Gangtok ■ Port Blair ■ Dehradun ■ New Delhi
Overseas : UAE ■ Qatar ■ Netherlands

ANNEXURE- 8
(Copy of CTE and CTO.)

NOC NO180715

SPEED POST



WEST BENGAL POLLUTION CONTROL BOARD

Paribesh Bhawan
10A, Block-LA, Sector-III
Bidhannagar, Kolkata-700106

Memo No. 241-2N-68/2021(E)

Dated 08.05.2023

From :
Member Secretary,
West Bengal Pollution Control Board

To: M/s. ELOQUENT STEEL PRIVATE LIMITED,
"Diamond Prestige", 41A, A.J. C. Bose Road, 8th Floor, #801,
Kolkata - 700017.

Sub: Consent to Establish (NOC) from Environmental Point of View

Ref: i) Your letter No. NIL Dated 28.04.2023
ii) EC obtained from MOEF&CC vide EC Identification No, EC23A008WB
135416, File No. J-11011/188/2011-IA, II(1) dated 16.03.2023.


Dear Sirs,

In response to the application for Consent to Establish (NOC) for proposed Unit of M/s ELOQUENT Steel Private Limited for manufacturing/storage/installation 336,000TPA Billet Production alongwith Rolling Mill for production of 210,000TPA Rolled Product, Installation of 150,000TPA Briquette plant, 108,000TPA sinter plant and addition of Pig Iron as product from the existing Submerged Arc Furnace in existing*

this is to inform you that this Board hereby grants the Consent to Establish (NOC) from the environmental point of the above subject to the following conditions and special conditions annexed.

* Project site located at Village-Nakrajoria, P.O.-Salanpur, Dist.-Paschim Bardhaman, West Bengal, pin-713357.

1. The quality of sewage and trade effluent to be discharged from your factory shall satisfy the permissible limits as prescribed in IS : 2490 (Pt. I) of 1974, and/or its subsequent amendment and Environment (Protection) Rules 1986.
2. Suitable measures to treat your effluent shall be adopted by you in order to reduce the pollutional load so that the quality of the effluent satisfies the standards mentioned above.
3. You shall have to apply to this Board for its consent to operate and discharge of sewage and trade effluent according to the provisions of the water (Prevention & Control of Pollution) Act, 1974. No sewage or trade effluent shall be discharged by you without prior consent of this Board.
4. All emission from your factory shall conform to the standards as laid by this Board.
5. No emission shall be permitted without prior approval of this Board and you shall apply to this Board for its consent to operate and atmospheric emission as per provision of the Air (Prevention & Control Pollution) act, 1981.
6. No industrial plant, furnace, flues, chimneys, control equipment, etc. shall be constructed/reconstructed/erected/re-erected without prior approval of this Board.


Chief Engineer
W. B. Pollution Control Board
Dept. of Environment, Govt. of W.B.

NOC NO180715

7. You shall comply with
- Water (Prevention and Control of Pollution) Cess Act, 1977, if applicable.
 - Water (Prevention and Control of Pollution) Cess Act, 1978, if applicable.
 - Environment (Protection) Act, 1986
 - Environment (Protection) Rules, 1986
 - Hazardous Wastes (Management and Handling) Rules, 1989 and Amended Rules, 2000
 - Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 and Amended Rules, 2000
 - Manufacture, Use, Import and Storage and Hazardous Micro-Organisms, Genetically Engineered Organisms or Cell Rules, 1989
 - The Public Liability Insurance Act, 1991 and Amended Act, 1992
 - The Public Liability Insurance Rules, 1991 and Amended Rules 1993
 - Biomedical Wastes (Management & Handling) Rules, 1998 and Amended Rules 2000 if applicable.
 - Recycled Plastics Manufacture and Usage Rules 1999, if applicable and
 - Ozone Depleting Substances (Regulation & Control) Rules, 2000, if applicable
8. You will have to abide by any other stipulations as may be prescribed by any authority/local bodies/Government Departments etc.

SPECIAL CONDITION :

- Refer to Annexure attached herewith.
- The Gross Capital Investment for the project is Rs.120 Crores (Rupees One ~~Thousand~~ Hundred and Twenty Crores).

Any violation of the aforesaid conditions shall entail cancellation of this Consent to Establish (NOC)

Yours faithfully,

Mukherjee 08/05/2023
Member Secretary/Chief Engineer
West Bengal Pollution Control Board (EIM CELL)

Dated.....
Chief Engineer
W. B. Pollution Control Board
Dept. of Environment, Govt. of W.B.

Memo No. 241 - 2N-68/2021(E) d/d. 08/05/2023
Copy forwarded for information to :

- Chief Inspector of Factories, Government of West Bengal, N. S. Building, Kolkata-700 001
- Director of Industries/Director of Cottage & Small Scale Industries, Government of West Bengal, N. S. Building, Kolkata-700 001
- Guard file, West Bengal Pollution Control Board.
- Environmental Engineer, I/II/Alipur R.O./Howrah R.O./Hooghly R.O./B.R.O./D.R.O./Haldia R.O./S.R.O./Malda R.O./Asansol R.O./WBPC Board.
- Alipore Regional Office
"Minority Bhawan", 5th Floor, 12, Biplabi
Kanaial Bhattacharya Sarani, Alipore,
Kolkata-700 027
Telefax No. 033-2448-5553
Tel No. 033-2448-5554
- Asansol Regional Office
Kalyanpur Satellite Township Project (KSTP), Dr. B.C. Roy
Road, P.O.- Dakshin Dhadka, P.S. Asansol
(North), Dist.-Paschim Bardhaman,
Asansol-713 302
Telefax No. 0341-2999280
0341-2999281
- Barrackpore Regional Office
Panpur More, Kalyani Expressway,
Vill.-Panpur, P.O.-Narayanpur,
Dist.: 24-Parganas (N), Pin-743 126
Telefax No. 033-2580 0573
- Durgapur Regional Office
Sahid Khudiram Sarani,
City Centre, Durgapur,
Paschim Bardhaman-713 216.
Tel No. 0343-2546708
Telefax No. (0343) 2544915
- Haldia Regional Office
Mouza : Raghunathchak, PS : Bhabanipur
(Formerly Sutahata), PO : Barghasipur
Dist. Purba Medinipur, Pin : 721 657
Tel No. 03224-291293/94
- Hooghly Regional Office
Himalaya Bhawan, Delhi Road, Dankuni,
Hooghly, Pin : 712 311
Telefax No. 033-2659-0957
- Howrah Regional Office
"Minority Bhawan", 5th Floor, 12, Biplabi
Kanaial Bhattacharya Sarani, Alipore,
Kolkata-700 027
Tel No. 033-2448-2219/2220
- Kolkata Regional Office
Mani Square, Block No. 8IT, Western
Side, 8th floor, 164/1, Maniktala Main Road,
Kolkata-700 054
Tel No. 033-2320-0059 / 9836288884
- Malda Regional Office
Paribesh Bhawan,
Vill.: Abhirampur, P.O.: Mokdumpur,
P.S.: English Bazar, Malda-732 103
Tel No. 03512-223449
- Saltlake Regional Office
Mani Square, Block No. 8IT, Western
Side, 8th floor, 164/1, Maniktala Main
Road, Kolkata-700 054
Tel No. 2320-0097 / 9330869729
- Siliguri Regional Office
Paribahan Nagar, P.O.: Matigara, Siliguri,
Darjeeling, Pin-734 010
Tel No. 0353-257 1115
Telefax No. 0353-257 1113

Mukherjee 08/05/2023
Member Secretary/Chief Engineer
West Bengal Pollution Control Board
(EIM CELL)

Chief Engineer
W. B. Pollution Control Board
Dept. of Environment, Govt. of W.B.

Annexure – I to NOC NO180715

Issued to: M/s Eloquent Steel Private Limited, Vill- Nakrajoria, PO- Salanpur, Dist-Paschim Bardhaman, West Bengal – 713357

UNIT CONFIGURATION AND CAPACITY

| Sl. No. | Plant Equipment/F acility | Existing facilities as per EC dated 28.07.2008, 11.12.2008, 03.09.2012 and 20.09.2012 | | | | Proposed Units | Final (Existing + Proposed) | | Remarks |
|---------|---|---|------------------------------|---|-----------------------------|--|--|----------------------------|---------|
| | | Total (A+B) | Implemented (A) | Unimplemented (B) | As per CTO | | Configuration Capacity TPA | Configuration Capacity TPA | |
| | | Conf. & Capacity | Conf. & Capacity | Conf. & Capacity | Conf. & Capacity | Configuration Capacity TPA | | | |
| 1 | Steel Melting Shop (Induction Furnace) | 4x7 Ton | 4x7 Ton | - | 4x7 Ton | Modification of Existing 4x7Ton IF to 4x8 Ton + Installation of 2x8Ton IF with LRF (1x8T) & 1x4/7m CCM | 6x8 Ton Induction Furnace with 1x8 Ton LRF and 2x4/7m CCM | Total 336,000 Billets | - |
| | | 106004TPA MS Ingots | 106004TPA MS Ingots | - | 106004TPA MS Ingots | 164,500 Billets | 164,500 Billets | | |
| | | - | - | - | - | Installation of 2x25Ton IF With 1x25 Ton LRF and 3x6/11m CCM | 2x25 Ton IF with 1x25 Ton LRF and 3x6/11m CCM | | |
| | | - | - | - | - | 171,500 Billets | 171,500 Billets | | |
| 2 | Ferro-Alloy Plant with Metal recovery Plant (Submerged Arc Furnace) | 5x7.5MVA +1x5.5 MVA | 3x7.5MVA +1x5.5 MVA | 2x7.5 MVA | 3x7.5 MVA +1x5.5 MVA | Proposed for addition of Pig Iron production Without adding any additional facilities | 3x7.5 MVA +1x5.5 MVA SAF with metal recovery Plant | - | |
| | | Fe-Mn 76,131 Si-Mn 54,629 Fe-Si 9000 | Fe-Mn 59,052 Si-Mn 43,235 | Fe-Mn 17,079 Si-Mn 11,394 Fe-Si 9,000 | Fe-Mn 59052 Si-Mn 43,235 | Pig Iron-76400 | Fe-Mn- 59,052, or Si. Mn- 43,236, or Fe Si – 22,680, or High Carbon Ferro Chrome –59,052, or Ferro Silico Chrome –33,480, or Pig Iron-76,400, or in combination of any | - | |
| 3 | Rolling Mill | - | - | - | - | 600 TPD 2,10,000 Rolled Products (TMT Bar, MS Round & Wire Rod) | 600TPD 2,10,000 Rolled Products (TMT Bar, MS Round & Wire Rod) | - | |
| | | - | - | - | - | 1 x 25 TPH | 1 x 25 TPH | - | |
| 4 | Reheating Furnace | - | - | - | - | 1 x 25 TPH | 1 x 25 TPH | - | |
| 5 | Sinter Plant | 300 TPD | - | 300 TPD | - | 300 TPD | 300 TPD | - | |
| | | | | | | 1,08,000 | 1,08,000 | - | |
| 6 | Briquette Plant | - | - | - | - | 1x25 TPH | 1x25 TPH | - | |
| | | | | | | 1,50,000 | 1,50,000 | - | |


 Chief Engineer
 W. B. Pollution Control Board
 Dept. of Environment, Govt. of W.B.

Annexure – II to NOC NO180715

Issued to: M/s Eloquent Steel Private Limited, Vill- Nakrajoria, PO- Salanpur, Dist-Paschim Bardhaman, West Bengal – 713357

AIR POLLUTION CONTROL DEVICE DETAILS WITH STAK

| Sl No | Name of the Unit | Configuration | APC Details | Stack Height from GL | Remarks |
|----------|------------------------------|---|-------------|----------------------|--|
| A | FERRO DIVISION | | | | |
| 1 | Sub-merged Arc Furnace (SAF) | 1x7.5 MVA | Bag Filter | 36m | Existing Units |
| 2 | | 1x7.5 MVA | Bag Filter | 36m | |
| 3 | | 1x7.5 MVA | Bag Filter | 36m | |
| 4 | | 1x5.5 MVA | Bag Filter | 36m | |
| B | SMS DIVISION | | | | |
| 1 | Induction Furnace with LRF | 3x8 Ton Ind. Furnace | Bag Filter | 30m | Modification of existing 4x7Ton IF to 4x8 Ton + New Installation of 2x8 Ton IF with LRF (1x8T) |
| 2 | | 3x8 Ton Ind. Furnace with 1x8 Ton LRF | Bag Filter | 30m | |
| 3 | Induction Furnace with LRF | 2x25 Ton Ind. Furnace with 1x25 Ton LRF | Bag Filter | 30m | Proposed Units |
| C | Rolling Mill Division | | | | |
| 1 | Re-Heating Furnace | 1x25 TPH | Bag Filter | 30m | Proposed Units |
| D | Sinter Plant | 1x300 TPD | Bag Filter | 30m | |
| E | Briquette Plant | 1x25 TPH | Bag Filter | 30m | |
| F | DG Set | 2x500 KVA | - | 8.5m | |

Muk
08/05/2022
Chief Engineer
W. B. Pollution Control Board
Dept. of Environment, Govt. of W.B.

Annexure – III to NOC NO180715

Issued to: M/s Eloquent Steel Private Limited, Vill- Nakrajoria, PO- Salanpur, Dist-Paschim Bardhaman, West Bengal – 713357

A) Emission:

- I. The DG sets and Boilers shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.
- II. Storage of raw materials, coal etc. shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
- III. National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R.608(E) dated 21't July,2010 and amended from time to time shall be followed.
- IV. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R.No.826 (E) dated 16th November, 2009 shall be complied with.

B) Effluent :

- I. Process – To be treated in effluent treatment plant (ETP). Zero liquid discharge to be ensured as committed.
- II. Domestic – To be treated in integrated waste water treatment plant (STP). Treated effluent to be reused.

C) Solid Waste & Hazardous Waste:

- I. The PP should comply with the provisions of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 or any amendments thereafter.
- II. Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.
- III. Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
- IV. Municipal solid wastes to be disposed off as per the Solid Waste Management Rules, 2016.

D) General:

- I. Noise Control – Ambient noise & D.G. Set noise level not to exceed the permissible limit.
- II. The standards / guidelines for control of noise from stationary Diesel generator sets prescribed under notification of Ministry of Environment & Forest, Govt. of India, G.S.R.371(E), [17/5/2002] and its amendments should be followed.
- III. Water bodies exist within the project site should not be disturbed.
- IV. Action to be taken to control fugitive emission.
- V. Fire License to be obtained from competent authority.
- VI. The unit should obtain authorization from this Board under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
- VII. Good housekeeping to be maintained.

W. B. Pollution Control Board
Chief Engineer
W. B. Pollution Control Board
Dept. of Environment, Govt. of W.B.

- VIII. No expansion / modification to be carried out without permission from this Board.
- IX. The unit should obtain Consent-to- Operate for the proposed project from the State Board before starting manufacturing activities.
- X. Statutory clearance/license from competent authorities, as applicable to be obtained.
- XI. All conditions laid down in the Environmental Clearance obtained for the project from MoEF & CC, Gol, vide EC Identification No. – EC23A008WB135416 File No. – J-11011/188/2011-IA.II(I) dated 16/03/2023 be strictly complied with.
- XII. This 'Consent to Establish' is valid up to 31.05.2030 for setting up the unit.

Handwritten signature and date: 08/05/2023

Chief Engineer (EIM Cell)

West Bengal Pollution Control Board

Chief Engineer
W. B. Pollution Control Board
Dept. of Environment, Govt. of W.B.

WEST BENGAL POLLUTION CONTROL BOARD

'Paribesh Bhawan'
Bldg. No. - 10A, Block - LA, Sector-III
Salt Lake City, Kolkata-700 098



Consent Letter Number : C0134657

Memo Number : 195-WPB/Red/BWAR/cont/581/07

Date : 8.5.2023

Consent to Operate

under

Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974 and
Section 21 of the Air (Prevention and Control of Pollution) Act, 1981

The West Bengal Pollution Control Board (hereinafter referred to as State Board) under the provisions of Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974, as amended and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981, as amended and Rules and Orders made thereunder, hereby grants its consent to :

M/s. Elquent Steel Private Limited

(Address of Regd. office/Head/Office/City Office)

(hereinafter referred to as Applicant) for its unit located at vill - Nakrajonia, PO & PS -

Salampur, Dist - Paschim Bardhaman, PIN - 713357

(Detailed address of the manufacturing unit)

for a period from date of issue to 30/04/2028

to operate the industrial unit and to discharge liquid effluent and to emit gaseous effluent from the premises/land of the industrial unit, in accordance with the conditions as mentioned in the Annexure to this consent letter provided on any day at any instance the quantity and quality of liquid discharge and gaseous emission shall not exceed the permissible limit as specified in the Table I & II of this consent letter and in the Environmental (Protection) Act, 1986.

Breach of the conditions and / or failure to comply with the directions as set out in the Annexure shall render the applicant liable for prosecution under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.

The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alter the conditions of this consent letter giving one month's notice to the applicant.



For and on behalf of the State Board

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

08/05/23

ANNEXURE

Consent to M/s. Eloquent Steel Private Limited
 for its unit at vill- Nakrajoria, PO & PS- Salampur, Dist- Paschim
Bardhaman, PIN- 713357

Conditions :

01. This Consent is valid for the manufacture of :-

| Sl. No. | Name of major products and by-products | Quantity manufactured per month |
|---------|--|---------------------------------|
| 01 | Ferro Manganese | 4921 tonnes or |
| 02 | Silico Manganese | 3603 tonnes or |
| 03 | High Carbon Ferro Chrome | 4921 tonnes or |
| 04 | Ferro Silicon | 1890 tonnes or |
| 05 | Ferro Silico Chrome | 2790 tonnes |
| 06 | Ferro Manganese Slag (by-product) | 4180 tonnes |
| 07 | | |
| 08 | | |
| 09 | | |
| 10 | | |
| 11 | | |
| 12 | | |

02. The Applicant shall remain responsible for quantity and quality of liquid effluent and air emissions.
03. Daily discharge of industrial liquid effluent shall not exceed KL.
04. Daily discharge of domestic liquid effluent shall not exceed 4.0KL.
05. Daily discharge of mixed (industrial & domestic) liquid effluent shall not exceedKL.
06. The Applicant shall discharge liquid effluent to Soak Pit(place of discharge)
 through one (01)nos. outlets / outfalls.
07. To bring into any altered or new outlet/outfall or to change the place of discharge, the Applicant shall have to inform the Board and obtain prior permission of the Board in this effect.
08. The Applicant shall provide comprehensive facility for treatment of industrial liquid waste and domestic liquid waste (sewage, sullage and liquid effluent generated from canteen), and operate and maintain the same continuously so that the quality of final effluent conforms to the Standard as given in Table-I in page 03.

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Continued.....

ent to *M/s Eloquent Steel Private Limited⁽³⁾*
 its unit at *vill- Nakrajoria, PO & PS- Salampur, Dist- Paschim*
Bardhaman, PIN- 713357

Table-I

| Outlet No. | Nature of effluent | Parameters | Standard | Frequency of effluent sampling |
|------------|--------------------|--|---------------------------|--------------------------------|
| 01 | Domestic | pH | Between : 5.5-9.0 | - yearly - |
| | | Total Suspended Solids | Not to exceed : 100 mg/l. | |
| | | Biochemical Oxygen Demand (3day at 27°C) | Not to exceed : 30 mg/l. | |
| | | Chemical Oxygen Demand | Not to exceed : 250mg/l. | |
| | | Oil & Grease | Not to exceed : 10 mg/l. | |
| | | | | |
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| | | | | |
| | | | | |

WEST BENGAL

09. The Applicant falls in the Category of the Water (Prevention and Control of Pollution) Cess Act, 1977 and Rules made thereunder and the Applicant shall comply with the provisions of the said Act and Rules made thereunder.

10. Daily water consumption for the following purposes should not exceed :-
- Industrial cooling, spraying in mine pits and boiler feed water → 367.0 KL
(Water used for gardening should be included in this category of use)
 - Domestic purpose → 15.0 KL
 - Processing whereby water gets polluted and the pollutants are easily biodegradable → - KL
 - Processing whereby water gets polluted and the pollutants are not easily biodegradable → - KL

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.

✓ *08/11/23*

(Member Secretary/Chief Engr./ Sr. Env. Engr./ Env. Engr./ Asst Env. Engr.)

Continued.....

(4)

Consent to M/s Eloquent Steel Private Limited
 for its unit at vill- Nakrajonia, PO & PS- Salampur Dist -
Paschim Bardhaman, PIN- 713357

11. The Applicant shall install suitable device for measuring the volume of water consumed for different purposes as mentioned above giving correct result to the satisfaction of the State Board.
12. All the stacks connected to various sources of emissions must be designated by numbers such as S-1, S-2, S-3, etc., and this must be painted/displayed to facilitate identification.
13. The Applicant shall install comprehensive control system consisting of pollution control equipment as is warranted with reference to generation of air emissions and operate and maintain the same continuously so as to achieve the level of pollutants of the Standard as given in Table-II below :

Table-II

| Stack No. | Stack height from G.L., (in mts.) | Stack attached to (sources and control system, if any): | Volume Nm ³ /hr. | Velocity of gas emission m/sec | Concentrations of parameters not to exceed | | | | Frequency of emission sampling |
|-----------|-----------------------------------|---|-----------------------------|--------------------------------|--|-----------|--|--|--------------------------------|
| | | | | | SPM (mg/Nm ³) | CO (%v/v) | | | |
| S-1 | 36m | 1 X 5.5 MVA SEAF | | | 100 | | | | Quarterly |
| S-2 | 36m | 1 X 7.5 MVA SEAF | | | 100 | | | | Quarterly |
| S-3 | 36m | 1 X 7.5 MVA SEAF | | | 100 | | | | Quarterly |
| S-4 | 36m | 1 X 7.5 MVA SEAF | | | 100 | | | | Quarterly |
| S-5 | 12m | 2 X 250 KVA DG set | | | 150 | | | | yearly |
| S-6 | | | | | | | | | |
| S-7 | | | | | | | | | |
| S-8 | | | | | | | | | |
| S-9 | | | | | | | | | |
| S-10 | | | | | | | | | |

12/08/23

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Continued.....

(5)

Consent to M/s Eloquent Steel Private Limited
for its unit at vill- Nakrajoria, PO & PS- Salanpur, Dist- Paschim Bardhaman, PIN- 713357

14. The Applicant shall provide ports in the stack(s) and other necessary permanent facilities such as ladder, platform, etc. for monitoring/sampling the air emissions and the same shall be made available for inspection and use by the State Board's staff as well as State Board's authorised agencies.

15. The Applicant shall observe the following fuel consumption pattern :-

| Sl. No | Type of fuel | Quantity consumed per day | Fuel burning operation where the fuel is used |
|--------|--------------|---------------------------|---|
| 01 | HSD | | 2X 250 KVA DG Set |
| 02 | | | |
| 03 | | | |
| 04 | | | |
| 05 | | | |

16. The Applicant shall maintain the generation and treatment/disposal of non-hazardous solid waste as specified below :- plz ref to annexure -

| Type of waste | Quantity | Treatment | Disposal |
|---------------|----------|-----------|----------|
| | | | |
| | | | |

17. The Applicant shall take adequate measures for control of noise levels from its own sources within the premises within the limit given below :-

| Time | Limit in dB(A) L _{eq} |
|---------------------------------|--------------------------------|
| Day Time (06 a.m. to 10 p.m.) | 75 |
| Night Time (09 p.m. to 06 a.m.) | 70 |

18. The Applicant shall at all times maintain good house-keeping, proper working order, and operate efficiently for control of pollution from all sources so as not to cause nuisance to surrounding areas/inhabitants and to achieve compliance with the terms and conditions of the consent.

19. The Applicant shall bring about at least 33% of the available open land under the green coverage / plantation.

20. The Applicant shall 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 absence of such an alternate electric power source, the Applicant shall stop, reduce or otherwise control production to abide by the terms and conditions of the Consent regarding pollution level.

21. The Applicant shall install a separate energy meter showing the consumption of energy for operation of pollution control devices.

22. The Applicant shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.

23. The Applicant shall provide drainage system for conveying industrial and domestic liquid waste. Storm-water drain shall be kept separate from the drainage system meant for industrial and domestic liquid waste

[Signature]
(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Consent to M/s Eloquent Steel Private Limited
 for its unit at vill- Nakraporia, PO & PS- Salanpur, Dist- Paschim
Bardhaman, PIN- 713357

24. The Applicant shall maintain a separate register showing consumption of chemicals used in pollution control systems.
25. The Applicant shall get the samples of hazardous wastes/leachates analysed at least once in from the laboratory recognised of the West Bengal Pollution Control Board and ensure that they conform to the limits stipulated. Test reports shall be sent to the Board.
26. The Applicant shall provide adequate and safe facility for collection of air, waste water and solid waste samples by the State Board's staff as well as State Board's authorised agencies.
27. The Applicant shall submit to the State Board by the 30th September of every year the Environmental Statement Report for the financial year ending 31st March of the current year in the prescribed form (Form -V) as required under the provisions of rule 14 of the Environment (Protection) [Second Amendment] rules, 1992.
28. The Applicant shall allow the Officers of the State Board to enter into the applicant's premises at any reasonable time to inspect the pollution control systems as well as monitoring and measuring devices in connection with prevention & control of pollution.
29. The Applicant shall maintain an Inspection Book in the factory premises which shall be made available to Officers & employees of the State Board for inspection, review and to write down any direction or observation as is deemed necessary during the inspection from time to time.
30. The Application shall furnish to the State Board all information in respect of quality, quantity, rate of discharge, place of discharge of liquid effluent and air emissions.
31. The Applicant shall maintain adequate number of qualified and trained personnel among his staff for proper maintenance and operation of the effluent treatment and / or emission control devices and for overall environment management of the industry.
32. The Applicant shall have to make registration for the use of groundwater if any, with Central Ground Water Authority.
33. The Applicant shall intimate to the State Board immediately of any occurrence or apprehension of occurrence of discharge of any poisonous, noxious or pollutants in excess of quality as well as quality as mentioned earlier to any receiving water body/receiving system or to atmosphere owing to accident or other unforeseen incident/event including natural disaster. The Applicant Shall (i) take all steps adequate to prevent such accident discharge/release of poisonous, noxious or pollutants and to limit their consequences to persons and the environment, (ii) provide to the persons working on the site with the information, training and equipment including antidotes necessary to ensure their safety and mitigate the accidental release of poisonous noxious or pollutants to the environment.
34. The Applicant shall make an application to the State Board in the prescribed form for renewal of the consent at least 60 (sixty) days before the date of expiry of this Consent.
35. The Applicant shall not make any alternation/modification/expansion in the existing manufacturing process and equipment as well as the pollution control system without prior approval of the Board.
36. The Applicant shall comply with the conditions as laid down in the Manufacture, Storage and Import of hazardous Chemicals Rules, 1989 and Hazardous Wastes (Management & Handling) Rules, 1989.

Additional Conditions

1. This consent letter may be revoked at any time on ground of valid public complaint against your unit with environmental record caused by your plant.
2. Chrome ore must be stored in a secured place.
3. All precaution to be taken to minimize fugitive emission.
4. No additional machinery to be installed without prior permission from the State Board.


(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

08/05/23

Annexure I

Applicant shall maintain the generation and treatment/disposal of non-hazardous solid waste as specified below:

| Type of Waste | Quantity (Metric Tonnes/Month) | Method for treatment and disposal |
|---|-----------------------------------|---|
| FERRO MANGANESE SLAG OR | 4180.0 | Shall be used for the Production of Silico Manganese |
| SILICO MANGANESE SLAG OR | 3060.0 | Shall be used as aggregate for road making & land filling |
| HIGH CARBON FERRO CHROME SLAG OR | 4180.0 | After Chrome recovery the tailing material shall be used as stone chips & after TCLP test for landfilling purpose |
| FERRO SILICON SLAG OR | 95.0 | Shall be sold to cement industries as raw material and also used for medium carbon Si-Mn production |
| FERRO SILICO CHROME SLAG OR in combination of any | 140.0 | To be sold to cement industries as raw material & after TCLP test for road constructions |
| Bag Filter Dust | 170.0 | Shall be recycled back in the process plant |


Environmental Engineer
Asansol Regional Office

ANNEXURE- 9
(Ambient Air Quality Monitoring Report.)



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018



TEST REPORT

FORMAT NO : ENV/FM/37

| | | | | | |
|---------------------------|--|---|----------------------------|----------------|-----------------------------|
| Name of the Industry | : Eloquent Steel Pvt. Ltd. | Type of Industry | : Ferro Alloy and SMS Unit | | |
| Address | : Vill. – Nakrajoria, P.O. + P.S. – Salanpur, Dist. – PaschimBardhaman | Sampling Date | : 12.09.2023 – 13.09.2023 | | |
| | | Period of Analysis | : 16.09.2023 – 19.09.2023 | | |
| | | Date of Issue | : 21.09.2023 | | |
| Sampling Plan & Procedure | : ENV/SOP/01 | Deviation from the Sampling Method and Plan | : No | Type of Sample | : Ambient Air |
| Sample Condition | : Sealed | Sample ID No. | : ENV/65/Sep./A/V | Report No. | : ENV/65/Sep./TR(A)/V/23-24 |

A] GENERAL INFORMATION

1. Location of Sampling : Near M.C.C Buildings (Back Side of the Plant)
2. Duration of Sampling : 24 hrs. (11:00 a.m. – 11:00 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 30.0
2. Average Relative Humidity (%) : 72.0
3. Barometric Pressure (mm of Hg) : 755.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear

C] RESULTS

| SL. NO. | PARAMETERS | UNIT | METHOD NO. | RESULTS |
|---------|--|-------------------|--|---------|
| 1. | Concentration of PM _{2.5} | µg/m ³ | IS 5182 (Part 24) : 2019 | 45.10 |
| 2. | Concentration of PM ₁₀ | µg/m ³ | IS 5182 (PART 23) : 2019 | 66.72 |
| 3. | Concentration of SO ₂ | µg/m ³ | IS 5182 (Part 2) 2017& ASTM D 2914-01,Sec. 11 (Vol. 11.07) : 2017 | 12.60 |
| 4. | Concentration of NO ₂ | µg/m ³ | IS 5182 (Part 6) 2017& ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018 | 29.20 |
| 5. | Concentration of CO | mg/m ³ | IS 5182 (Part 10): 2019 | 0.42 |
| 6. | Concentration of Pb | µg/m ³ | IS 5182 (Part 22) : 2019 | <0.01 |
| 7. | Benzo (a) Pyrene (BaP) | ng/m ³ | IS 5182 (Part 12) :2019 & ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021/ASTM D 6209-98, Sec. 11 (Vo. 11.07) : 2021 | <0.36 |
| 8. | Benzene (C ₆ H ₆) | µg/m ³ | IS 5182 (Part 11) 2017& ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021 | <0.74 |
| 9. | Ozone (O ₃) | µg/m ³ | IS 5182 (Part-9) : 2019 | 18.50 |
| 10. | Ammonia (NH ₃) | µg/m ³ | IS 5182 (Part 25) : 2018 | <4.18 |
| 11. | Nickel (Ni) | ng/m ³ | EPA IO 3.2, 1999 | <0.02 |
| 12. | Arsenic (As) | ng/m ³ | EPA IO 3.2, 1999& APHA 23 rd Ed 3114C : 2017 | <0.01 |

Remarks : Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharya

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. Ajoy Paul

Dr. AJOY PAUL
Quality Manager

H.O. : 63/B, Rastraguru Avenue, Kolkata -700028 ■ Ph. 033 25792891/ 25497490 ■ Fax : 033 25299141
 Laboratory : 189, 190 & 192, Rastraguru Avenue, Kolkata -700028 ■ Ph. 033 25792889
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 Branch Office : Siliguri ■ Haldia ■ Durgapur ■ Dhanbad ■ Gangtok ■ Port Blair ■ Dehradun ■ New Delhi
 Overseas : UAE ■ Qatar ■ Netherlands



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018



TEST REPORT

FORMAT NO : ENV/FM/37

| | | | | | |
|---------------------------|--|---|----------------------------|----------------|------------------------------|
| Name of the Industry | : Eloquent Steel Pvt. Ltd. | Type of Industry | : Ferro Alloy and SMS Unit | | |
| Address | : Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - PaschimBardhaman | Sampling Date | : 12.09.2023 - 13.09.2023 | | |
| | | Period of Analysis | : 16.09.2023 - 19.09.2023 | | |
| | | Date of Issue | : 21.09.2023 | | |
| Sampling Plan & Procedure | : ENV/SOP/01 | Deviation from the Sampling Method and Plan | : No | Type of Sample | : Ambient Air |
| Sample Condition | : Sealed | Sample ID No. | : ENV/65/Sep./A/VI | Report No. | : ENV/65/Sep./TR(A)/VI/23-24 |

A] GENERAL INFORMATION

1. Location of Sampling : Near Administrative Buildings
2. Duration of Sampling : 24 hrs. (09:10 a.m. - 09:10 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 31.0
2. Average Relative Humidity (%) : 69.0
3. Barometric Pressure (mm of Hg) : 755.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear

C] RESULTS

| SL. NO. | PARAMETERS | UNIT | METHOD NO. | RESULTS |
|---------|--|-------------------|--|---------|
| 1. | Concentration of PM _{2.5} | µg/m ³ | IS 5182 (Part 24) : 2019 | 46.36 |
| 2. | Concentration of PM ₁₀ | µg/m ³ | IS 5182 (PART 23) : 2019 | 71.78 |
| 3. | Concentration of SO ₂ | µg/m ³ | IS 5182 (Part 2) 2017& ASTM D 2914-01,Sec. 11 (Vol. 11.07) : 2017 | 9.03 |
| 4. | Concentration of NO ₂ | µg/m ³ | IS 5182 (Part 6) 2017& ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018 | 26.52 |
| 5. | Concentration of CO | mg/m ³ | IS 5182 (Part 10): 2019 | 0.38 |
| 6. | Concentration of Pb | µg/m ³ | IS 5182 (Part 22) : 2019 | <0.01 |
| 7. | Benzo (a) Pyrene (BaP) | ng/m ³ | IS 5182 (Part 12) :2019 & ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021/ASTM D 6209-98, Sec. 11 (Vo. 11.07) : 2021 | <0.36 |
| 8. | Benzene (C ₆ H ₆) | µg/m ³ | IS 5182 (Part 11) 2017& ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021 | <0.74 |
| 9. | Ozone (O ₃) | µg/m ³ | IS 5182 (Part-9) : 2019 | 15.0 |
| 10. | Ammonia (NH ₃) | µg/m ³ | IS 5182 (Part 25) : 2018 | <4.18 |
| 11. | Nickel (Ni) | ng/m ³ | EPA IO 3.2, 1999 | <0.02 |
| 12. | Arsenic (As) | ng/m ³ | EPA IO 3.2, 1999& APHA 23 rd Ed 3114C : 2017 | <0.01 |

Remarks : Result relates only to the sample tested.

Reviewed By :

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ENVIROCHECK

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TEST REPORT

FORMAT NO : ENV/FM/37

| | | | | | |
|---------------------------|--|---|----------------------------|----------------|-------------------------------|
| Name of the Industry | : Eloquent Steel Pvt. Ltd. | Type of Industry | : Ferro Alloy and SMS Unit | | |
| Address | : Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - PaschimBardhaman | Sampling Date | : 12.09.2023 - 13.09.2023 | | |
| | | Period of Analysis | : 16.09.2023 - 19.09.2023 | | |
| | | Date of Issue | : 21.09.2023 | | |
| Sampling Plan & Procedure | : ENV/SOP/01 | Deviation from the Sampling Method and Plan | : No | Type of Sample | : Ambient Air |
| Sample Condition | : Sealed | Sample ID No. | : ENV/65/Sep./A/VII | Report No. | : ENV/65/Sep./TR(A)/VII/23-24 |

A] GENERAL INFORMATION

1. Location of Sampling : Near Temple at Plant Boundary
2. Duration of Sampling : 24 hrs. (09:30 a.m. - 09:30 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 30.0
2. Average Relative Humidity (%) : 70.0
3. Barometric Pressure (mm of Hg) : 755.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear

C] RESULTS

| SL. NO. | PARAMETERS | UNIT | METHOD NO. | RESULTS |
|---------|--|-------------------|--|---------|
| 1. | Concentration of PM _{2.5} | µg/m ³ | IS 5182 (Part 24) : 2019 | 47.84 |
| 2. | Concentration of PM ₁₀ | µg/m ³ | IS 5182 (PART 23) : 2019 | 77.80 |
| 3. | Concentration of SO ₂ | µg/m ³ | IS 5182 (Part 2) 2017& ASTM D 2914-01,Sec. 11 (Vol. 11.07) : 2017 | 15.12 |
| 4. | Concentration of NO ₂ | µg/m ³ | IS 5182 (Part 6) 2017& ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018 | 36.53 |
| 5. | Concentration of CO | mg/m ³ | IS 5182 (Part 10): 2019 | 0.48 |
| 6. | Concentration of Pb | µg/m ³ | IS 5182 (Part 22) : 2019 | <0.01 |
| 7. | Benzo (a) Pyrene (BaP) | ng/m ³ | IS 5182 (Part 12) :2019 & ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021/ASTM D 6209-98, Sec. 11 (Vo. 11.07) : 2021 | <0.36 |
| 8. | Benzene (C ₆ H ₆) | µg/m ³ | IS 5182 (Part 11) 2017& ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021 | <0.74 |
| 9. | Ozone (O ₃) | µg/m ³ | IS 5182 (Part-9) : 2019 | 25.0 |
| 10. | Ammonia (NH ₃) | µg/m ³ | IS 5182 (Part 25) : 2018 | <4.18 |
| 11. | Nickel (Ni) | ng/m ³ | EPA IO 3.2, 1999 | <0.02 |
| 12. | Arsenic (As) | ng/m ³ | EPA IO 3.2, 1999& APHA 23 rd Ed 3114C : 2017 | <0.01 |

Remarks : Result relates only to the sample tested.

Reviewed By :

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ENVIROCHECK

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TEST REPORT

FORMAT NO : ENV/FM/37

| | | | | | |
|---------------------------|--|---|----------------------------|----------------|--------------------------------|
| Name of the Industry | : Eloquent Steel Pvt. Ltd. | Type of Industry | : Ferro Alloy and SMS Unit | | |
| Address | : Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - PaschimBardhaman | Sampling Date | : 12.09.2023 - 13.09.2023 | | |
| | | Period of Analysis | : 16.09.2023 - 19.09.2023 | | |
| | | Date of Issue | : 21.09.2023 | | |
| Sampling Plan & Procedure | : ENV/SOP/01 | Deviation from the Sampling Method and Plan | : No | Type of Sample | : Ambient Air |
| Sample Condition | : Sealed | Sample ID No. | : ENV/65/Sep./A/VIII | Report No. | : ENV/65/Sep./TR(A)/VIII/23-24 |

A] GENERAL INFORMATION

1. Location of Sampling : Dendua Village (1 Km. Distance From the Plant)
2. Duration of Sampling : 24 hrs. (10:00 a.m. - 10:00 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 30.0
2. Average Relative Humidity (%) : 70.0
3. Barometric Pressure (mm of Hg) : 755.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear

C] RESULTS

| SL. NO. | PARAMETERS | UNIT | METHOD NO. | RESULTS |
|---------|--|-------------------|---|---------|
| 1. | Concentration of PM _{2.5} | µg/m ³ | IS 5182 (Part 24) : 2019 | 46.40 |
| 2. | Concentration of PM ₁₀ | µg/m ³ | IS 5182 (PART 23) : 2019 | 67.89 |
| 3. | Concentration of SO ₂ | µg/m ³ | IS 5182 (Part 2) 2017& ASTM D 2914-01,Sec. 11 (Vol. 11.07) : 2017 | 8.40 |
| 4. | Concentration of NO ₂ | µg/m ³ | IS 5182 (Part 6) 2017& ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018 | 26.44 |
| 5. | Concentration of CO | mg/m ³ | IS 5182 (Part 10) : 2019 | 0.28 |
| 6. | Concentration of Pb | µg/m ³ | IS 5182 (Part 22) : 2019 | <0.01 |
| 7. | Benzo (a) Pyrene (BaP) | ng/m ³ | IS 5182 (Part 12) : 2019 & ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021/ASTM D 6209-98, Sec. 11 (Vo. 11.07) : 2021 | <0.36 |
| 8. | Benzene (C ₆ H ₆) | µg/m ³ | IS 5182 (Part 11) 2017& ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021 | <0.74 |
| 9. | Ozone (O ₃) | µg/m ³ | IS 5182 (Part-9) : 2019 | 16.50 |
| 10. | Ammonia (NH ₃) | µg/m ³ | IS 5182 (Part 25) : 2018 | <4.18 |
| 11. | Nickel (Ni) | ng/m ³ | EPA IO 3.2, 1999 | <0.02 |
| 12. | Arsenic (As) | ng/m ³ | EPA IO 3.2, 1999& APHA 23 rd Ed 3114C : 2017 | <0.01 |

Remarks : Result relates only to the sample tested.

Reviewed By :

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ANNEXURE-10
(Work Zone Air Quality Monitoring Report.)



ENVIROCHECK

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TEST REPORT

FORMAT NO.: ENV/FM/57

| | | | | | |
|---------------------------|--|---|----------------------------|----------------|------------------------------|
| Name of the Industry | : Eloquent Steel Pvt. Ltd. | Type of Industry | : Ferro Alloy and SMS Unit | | |
| Address | : Vill. – Nakrajoria, P.O. + P.S. – Salanpur, Dist. – PaschimBardhaman | Sampling Date | : 13.09.2023 | | |
| | | Period of Analysis | : 16.09.2023 – 19.09.2023 | | |
| | | Date of Issue | : 21.09.2023 | | |
| Sampling Plan & Procedure | : ENV/SOP/01 | Deviation from the Sampling Method and Plan | : No | Type of Sample | : Work Zone Air |
| Sample Condition | : Sealed | Sample ID No. | : ENV/65/Sep./A/IX | Report No. | : ENV/65/Sep./TR(A)/IX/23-24 |

A] GENERAL INFORMATION

1. Location of Sampling : Raw Material Handling Yard
2. Duration of Sampling : 08 hrs. (10:20 a.m. – 06:20 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 30.0
2. Average Relative Humidity (%) : 70.0
3. Barometric Pressure (mm of Hg) : 755.0
4. Smell or Odour : No Remarkable Smell

C] RESULT

| SL. NO. | PARAMETER | UNIT | METHOD NO. | RESULT |
|---------|----------------------|-------------------|-------------------------|--------|
| 1. | Concentration of SPM | µg/m ³ | IS 5182 (Part 4) : 2019 | 310.52 |

Remarks : Result relates only to the sample tested.

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ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
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Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018



TEST REPORT

FORMAT NO : ENV/FM/57

| | | | | | |
|---------------------------|--|---|----------------------------|----------------|------------------------------|
| Name of the Industry | : Eloquent Steel Pvt. Ltd. | Type of Industry | : Ferro Alloy and SMS Unit | | |
| Address | : Vill. – Nakrajoria, P.O. + P.S. – Salanpur, Dist. – PaschimBardhaman | Sampling Date | : 13.09.2023 | | |
| | | Period of Analysis | : 16.09.2023 – 19.09.2023 | | |
| | | Date of Issue | : 21.09.2023 | | |
| Sampling Plan & Procedure | : ENV/SOP/01 | Deviation from the Sampling Method and Plan | : No | Type of Sample | : Work Zone Air |
| Sample Condition | : Sealed | Sample ID No. | : ENV/65/Sep./A/IX | Report No. | : ENV/65/Sep./TR(A)/IX/23-24 |

A] GENERAL INFORMATION

1. Location of Sampling : Raw Material Handling Yard
2. Duration of Sampling : 08 hrs. (10:20 a.m. – 06:20 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 30.0
2. Average Relative Humidity (%) : 70.0
3. Barometric Pressure (mm of Hg) : 755.0
4. Smell or Odour : No Remarkable Smell

C] RESULTS

| SL. NO. | PARAMETERS | UNIT | METHOD NO. | RESULTS |
|---------|----------------------------------|-------------------|---|---------|
| 1. | Concentration of SO ₂ | µg/m ³ | IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11 (Vol. 11.07) : 2017 | 16.52 |
| 2. | Concentration of NO ₂ | µg/m ³ | IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018 | 26.20 |

Remarks : Result relates only to the sample tested.

Reviewed By :

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TEST REPORT

FORMAT NO : ENV/FM/57

| | | | | | |
|---------------------------|--|---|----------------------------|----------------|-----------------------------|
| Name of the Industry | : Eloquent Steel Pvt. Ltd. | Type of Industry | : Ferro Alloy and SMS Unit | | |
| Address | : Vill. – Nakrajoria, P.O. + P.S. – Salanpur, Dist. – PaschimBardhaman | Sampling Date | : 13.09.2023 | | |
| | | Period of Analysis | : 16.09.2023 – 19.09.2023 | | |
| | | Date of Issue | : 21.09.2023 | | |
| Sampling Plan & Procedure | : ENV/SOP/01 | Deviation from the Sampling Method and Plan | : No | Type of Sample | : Work Zone Air |
| Sample Condition | : Sealed | Sample ID No. | : ENV/65/Sep./A/X | Report No. | : ENV/65/Sep./TR(A)/X/23-24 |

A] GENERAL INFORMATION

1. Location of Sampling : Inside the Ferro Division (North Side)
2. Duration of Sampling : 08 hrs. (10:00 a.m. – 06:00 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 32.0
2. Average Relative Humidity (%) : 74.0
3. Barometric Pressure (mm of Hg) : 755.0
4. Smell or Odour : No Remarkable Smell

C] RESULT

| SL. NO. | PARAMETER | UNIT | METHOD NO. | RESULT |
|---------|----------------------|-------------------|-------------------------|--------|
| 1. | Concentration of SPM | µg/m ³ | IS 5182 (Part 4) : 2019 | 360.16 |

Remarks : Result relates only to the sample tested.

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Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018



TEST REPORT

FORMAT NO : ENV/FM/57

| | | | | | |
|---------------------------|--|---|----------------------------|----------------|-----------------------------|
| Name of the Industry | : Eloquent Steel Pvt. Ltd. | Type of Industry | : Ferro Alloy and SMS Unit | | |
| Address | : Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - PaschimBardhaman | Sampling Date | : 13.09.2023 | | |
| | | Period of Analysis | : 16.09.2023 - 19.09.2023 | | |
| | | Date of Issue | : 21.09.2023 | | |
| Sampling Plan & Procedure | : ENV/SOP/01 | Deviation from the Sampling Method and Plan | : No | Type of Sample | : Work Zone Air |
| Sample Condition | : Sealed | Sample ID No. | : ENV/65/Sep./A/X | Report No. | : ENV/65/Sep./TR(A)/X/23-24 |

A] GENERAL INFORMATION

1. Location of Sampling : Inside the Ferro Division (North Side)
2. Duration of Sampling : 08 hrs. (10:00 a.m. - 06:00 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 32.0
2. Average Relative Humidity (%) : 74.0
3. Barometric Pressure (mm of Hg) : 755.0
4. Smell or Odour : No Remarkable Smell

C] RESULTS

| SL. NO. | PARAMETERS | UNIT | METHOD NO. | RESULTS |
|---------|----------------------------------|-------------------|---|---------|
| 1. | Concentration of SO ₂ | µg/m ³ | IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11 (Vol. 11.07) : 2017 | 11.26 |
| 2. | Concentration of NO ₂ | µg/m ³ | IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018 | 26.50 |

Remarks : Result relates only to the sample tested.

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TEST REPORT

FORMAT NO : ENV/FM/57

| | | | | | |
|---------------------------|---|---|----------------------------|----------------|------------------------------|
| Name of the Industry | : Eloquent Steel Pvt. Ltd. | Type of Industry | : Ferro Alloy and SMS Unit | | |
| Address | : Vill. - Nakraoria, P.O. + P.S. - Salanpur, Dist. - PaschimBardhaman | Sampling Date | : 13.09.2023 | | |
| | | Period of Analysis | : 16.09.2023 - 19.09.2023 | | |
| | | Date of Issue | : 21.09.2023 | | |
| Sampling Plan & Procedure | : ENV/SOP/01 | Deviation from the Sampling Method and Plan | : No | Type of Sample | : Work Zone Air |
| Sample Condition | : Sealed | Sample ID No. | : ENV/65/Sep./A/XI | Report No. | : ENV/65/Sep./TR(A)/XI/23-24 |

A] GENERAL INFORMATION

1. Location of Sampling : Inside Ferro Division (South Side)
2. Duration of Sampling : 08 hrs. (10:10 a.m. - 06:10 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 31.0
2. Average Relative Humidity (%) : 72.0
3. Barometric Pressure (mm of Hg) : 755.0
4. Smell or Odour : No Remarkable Smell

C] RESULT

| SL. NO. | PARAMETER | UNIT | METHOD NO. | RESULT |
|---------|----------------------|-------------------|-------------------------|--------|
| 1. | Concentration of SPM | µg/m ³ | IS 5182 (Part 4) : 2019 | 262.56 |

Remarks : Result relates only to the sample tested.

Reviewed By :

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TEST REPORT

FORMAT NO : ENV/FM/57

| | | | | | |
|---------------------------|--|---|----------------------------|----------------|------------------------------|
| Name of the Industry | : Eloquent Steel Pvt. Ltd. | Type of Industry | : Ferro Alloy and SMS Unit | | |
| Address | : Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - PaschimBardhaman | Sampling Date | : 13.09.2023 | | |
| | | Period of Analysis | : 16.09.2023 - 19.09.2023 | | |
| | | Date of Issue | : 21.09.2023 | | |
| Sampling Plan & Procedure | : ENV/SOP/01 | Deviation from the Sampling Method and Plan | : No | Type of Sample | : Work Zone Air |
| Sample Condition | : Sealed | Sample ID No. | : ENV/65/Sep./A/XI | Report No. | : ENV/65/Sep./TR(A)/XI/23-24 |

A] GENERAL INFORMATION

1. Location of Sampling : Inside Ferro Division (South Side)
2. Duration of Sampling : 08 hrs. (10:10 a.m. - 06:10 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 31.0
2. Average Relative Humidity (%) : 72.0
3. Barometric Pressure (mm of Hg) : 755.0
4. Smell or Odour : No Remarkable Smell

C] RESULTS

| SL. NO. | PARAMETERS | UNIT | METHOD NO. | RESULTS |
|---------|----------------------------------|-------------------|---|---------|
| 1. | Concentration of SO ₂ | µg/m ³ | IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11 (Vol. 11.07) : 2017 | 12.52 |
| 2. | Concentration of NO ₂ | µg/m ³ | IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018 | 25.0 |

Remarks : Result relates only to the sample tested.

Reviewed By :

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TC-6014

TEST REPORT

FORMAT NO : ENV/FM/57

| | | | | | |
|---------------------------|--|---|----------------------------|----------------|-------------------------------|
| Name of the Industry | : Eloquent Steel Pvt. Ltd. | Type of Industry | : Ferro Alloy and SMS Unit | | |
| Address | : Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - PaschimBardhaman | Sampling Date | : 13.09.2023 | | |
| | | Period of Analysis | : 16.09.2023 - 19.09.2023 | | |
| | | Date of Issue | : 21.09.2023 | | |
| Sampling Plan & Procedure | : ENV/SOP/01 | Deviation from the Sampling Method and Plan | : No | Type of Sample | : Work Zone Air |
| Sample Condition | : Sealed | Sample ID No. | : ENV/65/Sep./A/XII | Report No. | : ENV/65/Sep./TR(A)/XII/23-24 |

A] GENERAL INFORMATION

1. Location of Sampling : Near MRP
2. Duration of Sampling : 08 hrs. (10:22 a.m. - 06:22 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 29.0
2. Average Relative Humidity (%) : 72.0
3. Barometric Pressure (mm of Hg) : 755.0
4. Smell or Odour : No Remarkable Smell

C] RESULT

| SL. NO. | PARAMETER | UNIT | METHOD NO. | RESULT |
|---------|----------------------|-------------------|-------------------------|--------|
| 1. | Concentration of SPM | µg/m ³ | IS 5182 (Part 4) : 2019 | 230.12 |

Remarks : Result relates only to the sample tested.

Reviewed By :

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. AJOY PAUL
Quality Manager

H.O. : 63/B, Rastraguru Avenue, Kolkata -700028 ■ Ph. 033 25792891/ 25497490 ■ Fax : 033 25299141
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Branch Office : Siliguri ■ Haldia ■ Durgapur ■ Dhanbad ■ Gangtok ■ Port Blair ■ Dehradun ■ New Delhi
Overseas : UAE ■ Qatar ■ Netherlands



ENVIROCHECK

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Accredited by NABL (ISO/IEC 17025:2017)
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018



TEST REPORT

FORMAT NO : ENV/FM/57

| | | | | | |
|---------------------------|--|---|----------------------------|----------------|-------------------------------|
| Name of the Industry | : Eloquent Steel Pvt. Ltd. | Type of Industry | : Ferro Alloy and SMS Unit | | |
| Address | : Vill. – Nakrajoria, P.O. + P.S. – Salanpur, Dist. – PaschimBardhaman | Sampling Date | : 13.09.2023 | | |
| | | Period of Analysis | : 16.09.2023 – 19.09.2023 | | |
| | | Date of Issue | : 21.09.2023 | | |
| Sampling Plan & Procedure | : ENV/SOP/01 | Deviation from the Sampling Method and Plan | : No | Type of Sample | : Work Zone Air |
| Sample Condition | : Sealed | Sample ID No. | : ENV/65/Sep./A/XII | Report No. | : ENV/65/Sep./TR(A)/XII/23-24 |

A] GENERAL INFORMATION

1. Location of Sampling : Near MRP
2. Duration of Sampling : 08 hrs. (10:22 a.m. – 06:22 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 29.0
2. Average Relative Humidity (%) : 72.0
3. Barometric Pressure (mm of Hg) : 755.0
4. Smell or Odour : No Remarkable Smell

C] RESULTS

| SL. NO. | PARAMETERS | UNIT | METHOD NO. | RESULTS |
|---------|----------------------------------|-------------------|---|---------|
| 1. | Concentration of SO ₂ | µg/m ³ | IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11 (Vol. 11.07) : 2017 | 7.80 |
| 2. | Concentration of NO ₂ | µg/m ³ | IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018 | 23.52 |

Remarks : Result relates only to the sample tested.

Reviewed By :

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. AJOY PAUL
Quality Manager

<End of Report>

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 Branch Office : Siliguri ■ Haldia ■ Durgapur ■ Dhanbad ■ Gangtok ■ Port Blair ■ Dehradun ■ New Delhi
 Overseas : UAE ■ Qatar ■ Netherlands

ANNEXURE-11
(Ground Water Monitoring Report)



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018



FORMAT NO. ENV/FM/55

TEST REPORT

| | | | | | |
|---------------------------|--|---|---------------------------|----------------|-----------------------|
| Name of the Industry | : Eloquent Steel Pvt. Ltd. (Formerly Known as - Hira Concast Ltd.) | Type of Industry | : Steel & Power Unit | | |
| Address | : Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - Paschim Bardhaman | Sampling Date | : 13.09.2023 | | |
| | | Period of Analysis | : 16.09.2023 - 23.09.2023 | | |
| | | Date of Issue | : 25.09.2023 | | |
| Sampling Plan & Procedure | : ENV/SOP/01 | Deviation from the Sampling Method and Plan | : No | Type of Sample | : Ground Water |
| Location | : Dendua Village | Sample Condition | : Sealed | Sample ID No. | : ENV/397/Sep./W/M(i) |
| Report No. | : ENV/397/Sep./TR(W)/M(i)/23-24 | | | | |

| PARAMETERS | | METHOD | UNIT | RESULTS |
|------------|------------------------|---|-------|------------|
| 1. | Colour | APHA 23 rd Ed., 3111 B : 2017 | Hazen | 1.0 |
| 2. | Odour | APHA 23 rd Ed., 2150 B : 2017 | -- | Odourless |
| 3. | pH | APHA 23 rd Ed., 4500 - H+B : 2017 | -- | 6.80 |
| 4. | Taste | APHA 23 rd Ed., 2160 B : 2017 | -- | Acceptable |
| 5. | Turbidity | APHA 23 rd Ed., 2130 B : 2047 | NTU | 1.61 |
| 6. | Total Dissolved Solids | APHA 23 rd Ed., 2540 B : 2017 | mg./l | 580.0 |
| 7. | Calcium | APHA 23 rd Ed., 3500 Ca-B : 2017 | mg./l | 40.88 |
| 8. | Chloride | APHA 23 rd Ed., 4500 Cl-B/D : 2017 | mg./l | 47.19 |
| 9. | Iron | APHA 23 rd Ed., 3111 B : 2017 | mg./l | 0.62 |
| 10. | Magnesium | APHA 23 rd Ed., 3500 Mg-B : 2017 | mg./l | 9.36 |
| 11. | Nitrate | APHA 23 rd Ed., NO ₃ -E : 2017 | mg./l | 1.60 |
| 12. | Sulphate | APHA 23 rd Ed., 4500 SO ₄ -E : 2017 | mg./l | 41.80 |
| 13. | Total Alkalinity | APHA 23 rd Ed., 2320 B : 2017 | mg./l | 180.0 |
| 14. | Total Hardness | APHA 23 rd Ed., 2340 C : 2017 | mg./l | 141.0 |
| 15. | Arsenic | IS 3025 (Part 37) : 1988 : 2014 | mg./l | <0.01 |
| 16. | Chromium | APHA 23 rd Ed., 3111 Cr-B : 2017 | mg./l | <0.02 |
| 17. | Boron | APHA 23 rd Ed., 4500 B-C : 2017 | mg./l | <0.1 |

Remarks : a) Sample collected by Envirocheck and sent to lab for testing in sealed condition.
b) Result relates only to the sample tested.

Reviewed By :

DURBADAL CHAKRABORTY
Dy. Quality Manager

Authorised Signatory :

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

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Branch Office : Siliguri ■ Haldia ■ Durgapur ■ Dhanbad ■ Gangtok ■ Port Blair ■ Dehradun ■ New Delhi
Overseas : UAE ■ Qatar ■ Netherlands



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018



FORMAT NO. ENV/FM/55

TEST REPORT

| | | | | | |
|---------------------------|--|---|---------------------------|----------------|------------------------|
| Name of the Industry | : Eloquent Steel Pvt. Ltd. (Formerly Known as - Hira Concast Ltd) | Type of Industry | : Steel & Power Unit | | |
| Address | : Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - Paschim Bardhaman | Sampling Date | : 13.09.2023 | | |
| | | Period of Analysis | : 16.09.2023 - 23.09.2023 | | |
| | | Date of Issue | : 25.09.2023 | | |
| Sampling Plan & Procedure | : ENV/SOP/01 | Deviation from the Sampling Method and Plan | : No | Type of Sample | : Ground Water |
| Location | : Nakrajoria Village | Sample Condition | : Sealed | Sample ID No. | : ENV/397/Sep./W/M(ii) |
| Report No. | : ENV/397/Sep./TR(W)/M(ii)/23-24 | | | | |

| PARAMETERS | METHOD | UNIT | RESULTS |
|---------------------------|---|-------|------------|
| 1. Colour | APHA 23 rd Ed., 3111 B : 2017 | Hazen | 1.0 |
| 2. Odour | APHA 23 rd Ed., 2150 B : 2017 | -- | Odourless |
| 3. pH | APHA 23 rd Ed., 4500 - H+B : 2017 | -- | 6.84 |
| 4. Taste | APHA 23 rd Ed., 2160 B : 2017 | -- | Acceptable |
| 5. Turbidity | APHA 23 rd Ed., 2130 B : 2047 | NTU | 1.80 |
| 6. Total Dissolved Solids | APHA 23 rd Ed., 2540 B : 2017 | mg./l | 620.0 |
| 7. Calcium | APHA 23 rd Ed., 3500 Ca-B : 2017 | mg./l | 44.08 |
| 8. Chloride | APHA 23 rd Ed., 4500 Cl-B/D : 2017 | mg./l | 55.81 |
| 9. Iron | APHA 23 rd Ed., 3111 B : 2017 | mg./l | 0.70 |
| 10. Magnesium | APHA 23 rd Ed., 3500 Mg-B : 2017 | mg./l | 13.92 |
| 11. Nitrate | APHA 23 rd Ed., NO ₃ -E : 2017 | mg./l | 1.72 |
| 12. Sulphate | APHA 23 rd Ed., 4500 SO ₄ -E : 2017 | mg./l | 46.50 |
| 13. Total Alkalinity | APHA 23 rd Ed., 2320 B : 2017 | mg./l | 186.50 |
| 14. Total Hardness | APHA 23 rd Ed., 2340 C : 2017 | mg./l | 168.0 |
| 15. Arsenic | IS 3025 (Part 37) : 1988 : 2014 | mg./l | <0.01 |
| 16. Chromium | APHA 23 rd Ed., 3111 Cr-B : 2017 | mg./l | <0.02 |
| 17. Boron | APHA 23 rd Ed., 4500 B-C : 2017 | mg./l | <0.1 |

Remarks : a) Sample collected by Envirocheck and sent to lab for testing in sealed condition.
b) Result relates only to the sample tested.

Reviewed By :

DURBADAL CHAKRABORTY
Dy. Quality Manager

Authorised Signatory :

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

<End of Report>

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Branch Office : Siliguri ■ Haldia ■ Durgapur ■ Dhanbad ■ Gangtok ■ Port Blair ■ Dehradun ■ New Delhi
Overseas : UAE ■ Qatar ■ Netherlands

ANNEXURE-12
(Ambient Noise Monitoring Report)



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Accredited by NABL (ISO/IEC 17025:2017)
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001 : 2018



NOISE MONITORING REPORT

Eloquent Steel Pvt. Ltd.

Vill. – Nakrajoria, P.O + P.S – Salanpur, District – Paschim Burdwan

MONITORED BY :

ENVIROCHECK
189, Rastraguru Avenue,
Calcutta - 700 028

Report No : ENV/15/Sep/(TR)N/I/23-24

| | | | |
|----------------------|------------------------------|-----------------|---------------|
| Sampling Locations : | Near Administrative Building | Date of Study : | 12/9/2023 |
| Category : | Ferro Alloy and SMS Unit | Day time : | 6 AM to 10 PM |

| Time (hrs.) | L _{min} | L _{max} | L _{eq} | Day time L _{eq} |
|----------------------|------------------|------------------|-----------------|--------------------------|
| 6:00 AM to 7:00 AM | 62.0 | 64.8 | 63.62 | 62.39 |
| 7:00 AM to 8:00 AM | 63.1 | 66.2 | 64.92 | |
| 8:00 AM to 9:00 AM | 62.8 | 67.2 | 65.53 | |
| 9:00 AM to 10:00 AM | 61.2 | 66.4 | 64.54 | |
| 10:00 AM to 11:00 AM | 58.4 | 63.9 | 61.97 | |
| 11:00 AM to 12:00 PM | 59.7 | 62.2 | 61.13 | |
| 12:00 PM to 1:00 PM | 56.9 | 61.4 | 59.71 | |
| 1:00 PM to 2:00 PM | 57.1 | 62.9 | 60.90 | |
| 2:00 PM to 3:00 PM | 54.3 | 61.2 | 59.00 | |
| 3:00 PM to 4:00 PM | 58.6 | 63.4 | 61.63 | |
| 4:00 PM to 5:00 PM | 60.3 | 62.9 | 61.79 | |
| 5:00 PM to 6:00 PM | 60.5 | 64.8 | 63.16 | |
| 6:00 PM to 7:00 PM | 60.8 | 62.9 | 61.98 | |
| 7:00 PM to 8:00 PM | 59.9 | 62.5 | 61.39 | |
| 8:00 PM to 9:00 PM | 59.2 | 61.9 | 60.76 | |
| 9:00 PM to 10:00 PM | 58.5 | 60.2 | 59.43 | |

| | | | |
|-----------------|--------------------------|--------------|---------------|
| Date of Study : | 12/09/2023 To 13/09/2023 | Night time : | 10 PM to 6 AM |
|-----------------|--------------------------|--------------|---------------|

| Time(hrs.) | L _{min} | L _{max} | L _{eq} | Night time L _{eq} |
|----------------------|------------------|------------------|-----------------|----------------------------|
| 10:00 PM to 11:00 PM | 56.5 | 59.9 | 58.52 | 59.14 |
| 11:00 PM to 12:00 AM | 55.1 | 58.3 | 56.99 | |
| 12:00 AM to 1:00 AM | 54.2 | 57.5 | 56.16 | |
| 1:00 AM to 2:00 AM | 53.7 | 56.4 | 55.26 | |
| 2:00 AM to 3:00 AM | 54.1 | 58.6 | 56.91 | |
| 3:00 AM to 4:00 AM | 58.2 | 61.5 | 60.16 | |
| 4:00 AM to 5:00 AM | 59.4 | 62.9 | 61.49 | |
| 5:00 AM to 6:00 AM | 60.4 | 63.5 | 62.22 | |

L_{min} : Minimum Noise level

L_{max} :Maximum Noise level

L_{eq} :Equivalent sound energy

Compiled by : (Signature)
Dr. Ajoy Paul

Envirocheck Seal
Date : 18/09/2023



Certified by : (Signature)
Dr. S. B. Chowdhury

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Branch Office : - Siliguri - Haldia - Durgapur - Dhanbad - Gangtok - Port Blair - Dehradun - New Delhi
Overseas : - UAE - Qatar - Netherlands



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Accredited by NABL (ISO/IEC 17025:2017)
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001 : 2018



NOISE MONITORING REPORT

Eloquent Steel Pvt. Ltd.

Vill. – Nakrajoria, P.O + P.S – Salanpur, District – Paschim Burdwan

MONITORED BY :

ENVIROCHECK
189, Rastraguru Avenue,
Calcutta - 700 028

Report No : ENV/15/Sep/(TR)N/11/23-24

| | | | |
|----------------------|--|-----------------|---------------|
| Sampling Locations : | Near D.V.C Meter Room (Back Side of the Plant) | Date of Study : | 12/9/2023 |
| Category : | Ferro Alloy and SMS Unit | Day time : | 6 AM to 10 PM |

| Time (hrs.) | L _{min} | L _{max} | L _{eq} | Day time L _{eq} |
|----------------------|------------------|------------------|-----------------|--------------------------|
| 6:00 AM to 7:00 AM | 60.5 | 62.8 | 61.80 | 66.17 |
| 7:00 AM to 8:00 AM | 61.3 | 64.8 | 63.39 | |
| 8:00 AM to 9:00 AM | 63.4 | 65.6 | 64.64 | |
| 9:00 AM to 10:00 AM | 62.8 | 65.9 | 64.62 | |
| 10:00 AM to 11:00 AM | 62.6 | 64.3 | 63.53 | |
| 11:00 AM to 12:00 PM | 61.8 | 64.1 | 63.10 | |
| 12:00 PM to 1:00 PM | 64.3 | 66.8 | 65.73 | |
| 1:00 PM to 2:00 PM | 64.0 | 68.2 | 66.59 | |
| 2:00 PM to 3:00 PM | 68.2 | 71.4 | 70.09 | |
| 3:00 PM to 4:00 PM | 68.8 | 72.2 | 70.82 | |
| 4:00 PM to 5:00 PM | 65.4 | 69.1 | 67.63 | |
| 5:00 PM to 6:00 PM | 64.9 | 68.5 | 67.06 | |
| 6:00 PM to 7:00 PM | 63.1 | 67.4 | 65.76 | |
| 7:00 PM to 8:00 PM | 62.7 | 66.2 | 64.79 | |
| 8:00 PM to 9:00 PM | 61.4 | 65.1 | 63.63 | |
| 9:00 PM to 10:00 PM | 60.2 | 64.5 | 62.86 | |

| | | | |
|-----------------|--------------------------|--------------|---------------|
| Date of Study : | 12/09/2023 To 13/09/2023 | Night time : | 10 PM to 6 AM |
|-----------------|--------------------------|--------------|---------------|

| Time(hrs.) | L _{min} | L _{max} | L _{eq} | Night time L _{eq} |
|----------------------|------------------|------------------|-----------------|----------------------------|
| 10:00 PM to 11:00 PM | 59.4 | 62.3 | 61.09 | 62.48 |
| 11:00 PM to 12:00 AM | 58.2 | 61.4 | 60.09 | |
| 12:00 AM to 1:00 AM | 57.8 | 60.6 | 59.42 | |
| 1:00 AM to 2:00 AM | 56.3 | 60.4 | 58.82 | |
| 2:00 AM to 3:00 AM | 59.4 | 62.5 | 61.22 | |
| 3:00 AM to 4:00 AM | 60.6 | 63.8 | 62.49 | |
| 4:00 AM to 5:00 AM | 62.8 | 65.9 | 64.62 | |
| 5:00 AM to 6:00 AM | 63.0 | 68.1 | 66.26 | |

L_{min} : Minimum Noise level

L_{max} : Maximum Noise level

L_{eq} : Equivalent sound energy

Compiled by : (Signature)
Dr. Ajoy Paul

Envirocheck Seal
Date : 18/09/2023



Certified by : (Signature)
Dr. S. B. Chowdhury

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Overseas : UAE • Qatar • Netherlands



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Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001 : 2018



NOISE MONITORING REPORT

Eloquent Steel Pvt. Ltd.

Vill. – Nakrajoria, P.O + P.S – Salanpur, District – Paschim Burdwan

MONITORED BY :

ENVIROCHECK

189, Rastraguru Avenue,
Calcutta - 700 028

Report No : ENV/15/Sep/(TR)N/III/23-24

| | | | |
|----------------------|-------------------------------------|-----------------|---------------|
| Sampling Locations : | Near Temple Plant at Plant Boundary | Date of Study : | 12/9/2023 |
| Category : | Ferro Alloy and SMS Unit | Day time : | 6 AM to 10 PM |

| Time (hrs.) | L _{min} | L _{max} | L _{eq} | Day time L _{eq} |
|----------------------|------------------|------------------|-----------------|--------------------------|
| 6:00 AM to 7:00 AM | 66.9 | 70.1 | 68.79 | 67.56 |
| 7:00 AM to 8:00 AM | 68.5 | 72.3 | 70.80 | |
| 8:00 AM to 9:00 AM | 70.1 | 74.6 | 72.91 | |
| 9:00 AM to 10:00 AM | 68.2 | 71.4 | 70.09 | |
| 10:00 AM to 11:00 AM | 68.8 | 72.2 | 70.82 | |
| 11:00 AM to 12:00 PM | 65.4 | 69.1 | 67.63 | |
| 12:00 PM to 1:00 PM | 64.9 | 68.5 | 67.06 | |
| 1:00 PM to 2:00 PM | 63.4 | 65.6 | 64.64 | |
| 2:00 PM to 3:00 PM | 62.8 | 65.9 | 64.62 | |
| 3:00 PM to 4:00 PM | 62.6 | 64.3 | 63.53 | |
| 4:00 PM to 5:00 PM | 61.8 | 64.1 | 63.10 | |
| 5:00 PM to 6:00 PM | 62.4 | 64.8 | 63.76 | |
| 6:00 PM to 7:00 PM | 62.9 | 63.5 | 63.21 | |
| 7:00 PM to 8:00 PM | 61.5 | 63.0 | 62.31 | |
| 8:00 PM to 9:00 PM | 60.2 | 62.8 | 61.69 | |
| 9:00 PM to 10:00 PM | 60.0 | 61.9 | 61.05 | |

| | | | |
|-----------------|--------------------------|--------------|---------------|
| Date of Study : | 12/09/2023 To 13/09/2023 | Night time : | 10 PM to 6 AM |
|-----------------|--------------------------|--------------|---------------|

| Time(hrs.) | L _{min} | L _{max} | L _{eq} | Night time L _{eq} |
|----------------------|------------------|------------------|-----------------|----------------------------|
| 10:00 PM to 11:00 PM | 59.5 | 60.2 | 59.86 | 61.17 |
| 11:00 PM to 12:00 AM | 57.4 | 59.1 | 58.33 | |
| 12:00 AM to 1:00 AM | 56.5 | 59.8 | 58.46 | |
| 1:00 AM to 2:00 AM | 55.3 | 59.4 | 57.82 | |
| 2:00 AM to 3:00 AM | 53.2 | 58.8 | 56.85 | |
| 3:00 AM to 4:00 AM | 59.6 | 61.2 | 60.47 | |
| 4:00 AM to 5:00 AM | 62.5 | 65.8 | 64.46 | |
| 5:00 AM to 6:00 AM | 63.4 | 66.1 | 64.96 | |

num Noise level

L_{max} :Maximum Noise level

L_{eq} :Equivalent sound energy

Compiled by : (Signature)
Dr. Ajoy Paul

Envirocheck Seal
Date : 18/09/2023



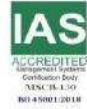
Certified by : (Signature)
Dr. S. B. Chowdhury

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ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Accredited by NABL (ISO/IEC 17025:2017)
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001 : 2018



NOISE MONITORING REPORT

Eloquent Steel Pvt. Ltd.

Vill. – Nakrajoria, P.O + P.S – Salanpur, District – Paschim Burdwan

MONITORED BY :

ENVIROCHECK

189, Rastraguru Avenue,
Calcutta - 700 028

Report No : ENV/15/Sep/(TR)N/IV/23-24

| | | | |
|----------------------|--|-----------------|---------------|
| Sampling Locations : | Near M.C.C Building (Back Side of Plant) | Date of Study : | 12/9/2023 |
| Category : | Ferro Alloy and SMS Unit | Day time : | 6 AM to 10 PM |

| Time (hrs.) | L _{min} | L _{max} | L _{eq} | Day time L _{eq} |
|----------------------|------------------|------------------|-----------------|--------------------------|
| 6:00 AM to 7:00 AM | 71.3 | 75.4 | 73.82 | 70.52 |
| 7:00 AM to 8:00 AM | 72.3 | 77.2 | 75.41 | |
| 8:00 AM to 9:00 AM | 68.2 | 75.9 | 73.57 | |
| 9:00 AM to 10:00 AM | 64.6 | 69.1 | 67.41 | |
| 10:00 AM to 11:00 AM | 62.8 | 65.9 | 64.62 | |
| 11:00 AM to 12:00 PM | 60.5 | 62.6 | 61.68 | |
| 12:00 PM to 1:00 PM | 73.6 | 76.8 | 75.49 | |
| 1:00 PM to 2:00 PM | 65.9 | 72.8 | 70.60 | |
| 2:00 PM to 3:00 PM | 64.7 | 72.1 | 69.82 | |
| 3:00 PM to 4:00 PM | 64.9 | 68.6 | 65.96 | |
| 4:00 PM to 5:00 PM | 63.9 | 70.8 | 65.15 | |
| 5:00 PM to 6:00 PM | 63.0 | 68.2 | 66.34 | |
| 6:00 PM to 7:00 PM | 62.8 | 69.4 | 67.25 | |
| 7:00 PM to 8:00 PM | 63.1 | 70.8 | 68.47 | |
| 8:00 PM to 9:00 PM | 62.8 | 69.4 | 67.25 | |
| 9:00 PM to 10:00 PM | 61.5 | 67.2 | 65.22 | |

| | | | |
|-----------------|--------------------------|--------------|---------------|
| Date of Study : | 12/09/2023 To 13/09/2023 | Night time : | 10 PM to 6 AM |
|-----------------|--------------------------|--------------|---------------|

| Time(hrs.) | L _{min} | L _{max} | L _{eq} | Night time L _{eq} |
|----------------------|------------------|------------------|-----------------|----------------------------|
| 10:00 PM to 11:00 PM | 59.5 | 62.5 | 61.25 | 62.06 |
| 11:00 PM to 12:00 AM | 58.4 | 60.8 | 59.76 | |
| 12:00 AM to 1:00 AM | 57.3 | 59.4 | 58.48 | |
| 1:00 AM to 2:00 AM | 53.7 | 57.8 | 56.22 | |
| 2:00 AM to 3:00 AM | 52.4 | 56.8 | 55.13 | |
| 3:00 AM to 4:00 AM | 60.4 | 62.9 | 61.83 | |
| 4:00 AM to 5:00 AM | 63.4 | 66.1 | 64.96 | |
| 5:00 AM to 6:00 AM | 65.2 | 67.5 | 66.50 | |

Handwritten signature mum Noise level

L_{eq} :Equivalent sound energy

Handwritten signature

Compiled by : (Signature)
Dr. Ajoy Paul

Envirocheck Seal
Date : 18/09/2023



Certified by : (Signature)
Dr. S. B. Chowdhury

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792891/25497490, Fax : 033-25299141
 Laboratory : 189,190&192 Rastraguru Avenue, Kolkata - 700028 (033-25792889
 Email : envcheck@cal2.vsnl.net.in/envirocheck50@gmail.com / Website : www.envirocheck.org
 Branch Office : Siliguri • Haldia • Durgapur • Dhanbad • Gangtok • Port Blair • Dehradun • New Delhi
 Overseas : UAE • Qatar • Netherlands

ANNEXURE-13
(Work Zone Noise Monitoring Report)



ENVIROCHECK

Recognised by MoEF&CC, WBPCB, JSPCB & OSPCB
Accredited by NABL (ISO/IEC 17025:2005)
Certified by ISO 9001:2008, ISO 14001 : 2015 & OHSAS 18001:2007



Certificate No. TC-6014

FORMAT NO. : ENV/FM/53

TEST REPORT

| | | | |
|-----|---|---|---|
| 1. | Name of the Industry / Project | : | Eloquent Steel Pvt. Ltd. |
| 2. | Address | : | Vill. - Nakrajoria, P.O + P.S - Salanpur, District - PaschimBurdwan |
| 3. | Type of Industry | : | Ferro Alloy and SMS Unit |
| 4. | Sampling Plan & Procedure | : | ENV/SOP/02 |
| 5. | Deviation from the Sampling Method & Plan | : | No |
| 6. | Type of Sample | : | Work Zone Noise |
| 7. | Sample ID | : | ENV/15/Sep/N/1/23-24 |
| 8. | Date of Study | : | 12/09/2023 |
| 9. | Reporting Date | : | 18/09/2023 |
| 10. | Method No. | : | IS 15575 (Part 2), 2022 |
| 11. | Time of Duration of Noise | : | 20 Minutes |
| 12. | Height from Ground Level | : | 4 feet |
| 13. | Sample Monitoring by | : | Mr. Rohit Haldar |

RESULT OF NOISE LEVEL STUDY

Time :10:00 - 10:20A.M

DAY TIME

| 1. Location : R.M.H Yard | | | | | |
|--------------------------|-------|---------------|---------------|-----------|------------|
| Sl. No. | Unit | Minimum dB(A) | Maximum dB(A) | Leq dB(A) | Remarks |
| 01. | dB(A) | 70.3 | 72.5 | 71.54 | East Side |
| 02. | dB(A) | 70.8 | 73.6 | 72.42 | West Side |
| 03. | dB(A) | 69.9 | 72.4 | 71.33 | North Side |
| 04. | dB(A) | 68.5 | 71.2 | 70.06 | South Side |
| Average dB(A) Leq | | | | 71.33 | |

Reviewed By:

Approved By:

Dy. Quality Manager

Quality Manager

>End of Report<



ENVIROCHECK

Recognised by MoEF&CC, WBPCB, JSPCB & OSPCB
Accredited by NABL (ISO/IEC 17025:2005)
Certified by ISO 9001:2008, ISO 14001 : 2015 & OHSAS 18001:2007



FORMAT NO. : ENV/FM/53

TEST REPORT

| | | |
|-----|---|---|
| 1. | Name of the Industry / Project | : Eloquent Steel Pvt. Ltd. |
| 2. | Address | : Vill. - Nakrajoria, P.O + P.S - Salanpur, District - PaschimBurdwan |
| 3. | Type of Industry | : Ferro Alloy and SMS Unit |
| 4. | Sampling Plan & Procedure | : ENV/SOP/02 |
| 5. | Deviation from the Sampling Method & Plan | : No |
| 6. | Type of Sample | : Work Zone Noise |
| 7. | Sample ID | : ENV/15/Sep/N/II/23-24 |
| 8. | Date of Study | : 12/09/2023 |
| 9. | Reporting Date | : 18/09/2023 |
| 10. | Method No. | : IS 15575 (Part 2), 2022 |
| 11. | Time of Duration of Noise | : 20 Minutes |
| 12. | Height from Ground Level | : 4 feet |
| 13. | Sample Monitoring by | Mr. Rohit Haldar |

RESULT OF NOISE LEVEL STUDY

Time : 10:30 - 10:50 A.M

DAY TIME

2. Location : Inside the Ferro Division (North Side)

| Sl. No. | Unit | Minimum dB(A) | Maximum dB(A) | Leq dB(A) | Remarks |
|-------------------|-------|---------------|---------------|-----------|------------|
| 01. | dB(A) | 74.1 | 79.5 | 77.59 | East Side |
| 02. | dB(A) | 72.5 | 76.9 | 75.23 | West Side |
| 03. | dB(A) | 73.2 | 78.0 | 76.23 | North Side |
| 04. | dB(A) | 69.8 | 73.8 | 72.25 | South Side |
| Average dB(A) Leq | | | | 75.32 | |

Reviewed By:

Dy. Quality Manager

Approved By:

Quality Manager

>End of Report<



ENVIROCHECK

Recognised by MoEF&CC, WBPCB, JSPCB & OSPCB
Accredited by NABL (ISO/IEC 17025:2005)
Certified by ISO 9001:2008, ISO 14001 : 2015 & OHSAS 18001:2007



Certificate No. TC-6014

FORMAT NO. : ENV/FM/53

TEST REPORT

| | | |
|-----|---|--|
| 1. | Name of the Industry / Project | : Eloquent Steel Pvt. Ltd. |
| 2. | Address | : Vill. - Nakraoria, P.O + P.S - Salanpur, District - PaschimBurdwan |
| 3. | Type of Industry | : Ferro Alloy and SMS Unit |
| 4. | Sampling Plan & Procedure | : ENV/SOP/02 |
| 5. | Deviation from the Sampling Method & Plan | : No |
| 6. | Type of Sample | : Work Zone Noise |
| 7. | Sample ID | : ENV/15/Sep/N/III/23-24 |
| 8. | Date of Study | : 12/09/2023 |
| 9. | Reporting Date | : 18/09/2023 |
| 10. | Method No. | : IS 15575 (Part 2), 2022 |
| 11. | Time of Duration of Noise | : 20 Minutes |
| 12. | Height from Ground Level | : 4 feet |
| 13. | Sample Monitoring by | Mr. Rohit Haldar |

RESULT OF NOISE LEVEL STUDY

Time : 11:00 - 11:20A.M

DAY TIME

3. Location : Inside the Ferro Division (South Side)

| Sl. No. | Unit | Minimum dB(A) | Maximum dB(A) | Leq dB(A) | Remarks |
|-------------------|-------|---------------|---------------|-----------|------------|
| 01. | dB(A) | 70.8 | 75.6 | 73.83 | East Side |
| 02. | dB(A) | 72.4 | 76.8 | 75.13 | West Side |
| 03. | dB(A) | 74.3 | 77.5 | 76.19 | North Side |
| 04. | dB(A) | 71.2 | 73.5 | 72.50 | South Side |
| Average dB(A) Leq | | | | 74.41 | |

Reviewed By:

Approved By:

Jalanka
Dy. Quality Manager

Rohit
Quality Manager

>End of Report<



ENVIROCHECK

Recognised by MoEF&CC, WBPCB, JSPCB & OSPCC
Accredited by NABL (ISO/IEC 17025:2005)
Certified by ISO 9001:2008, ISO 14001 : 2015 & OHSAS 18001:2007



FORMAT NO. : ENV/FM/53

TEST REPORT

| | | |
|-----|---|---|
| 1. | Name of the Industry / Project | : Eloquent Steel Pvt. Ltd. |
| 2. | Address | : Vill. - Nakrajoria, P.O + P.S - Salanpur, District - PaschimBurdwan |
| 3. | Type of Industry | : Ferro Alloy and SMS Unit |
| 4. | Sampling Plan & Procedure | : ENV/SOP/02 |
| 5. | Deviation from the Sampling Method & Plan | : No |
| 6. | Type of Sample | : Work Zone Noise |
| 7. | Sample ID | : ENV/15/Sep/N/IV/23-24 |
| 8. | Date of Study | : 12/09/2023 |
| 9. | Reporting Date | : 18/09/2023 |
| 10. | Method No. | : IS 15575 (Part 2), 2022 |
| 11. | Time of Duration of Noise | : 20 Minutes |
| 12. | Height from Ground Level | : 4 feet |
| 13. | Sample Monitoring by | Mr. Rohit Haldar |

RESULT OF NOISE LEVEL STUDY

Time :11:30 - 11:50A.M

DAY TIME

4. Location : Near MRP

| Sl. No. | Unit | Minimum dB(A) | Maximum dB(A) | Leq dB(A) | Remarks |
|-------------------|-------|---------------|---------------|-----------|------------|
| 01. | dB(A) | 70.5 | 72.6 | 71.68 | East Side |
| 02. | dB(A) | 69.3 | 71.8 | 70.73 | West Side |
| 03. | dB(A) | 75.5 | 77.2 | 76.43 | North Side |
| 04. | dB(A) | 70.4 | 74.9 | 73.21 | South Side |
| Average dB(A) Leq | | | | 73.01 | |

Reviewed By:

Dy. Quality Manager

Approved By:

Quality Manager

>End of Report<

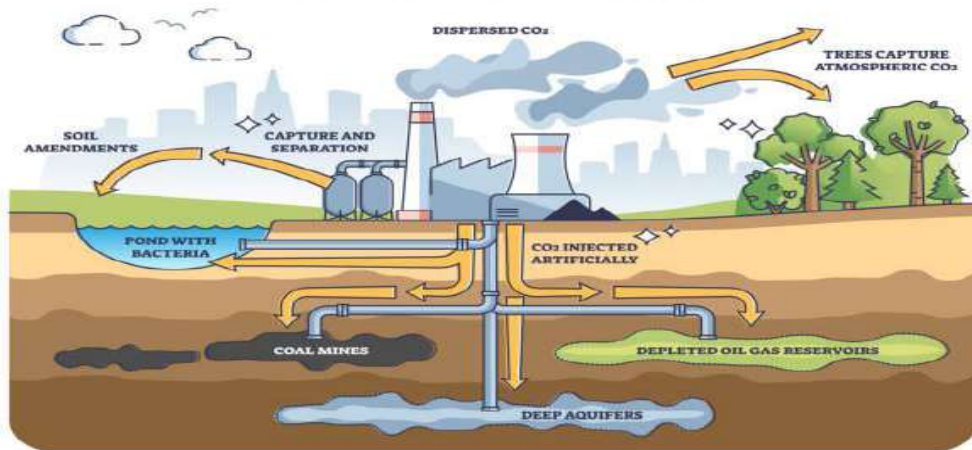
ANNEXURE-14
(Carbon Footprint & Carbon Sequestration Report.)

ELOQUENT STEEL PRIVATE LIMITED

STUDY REPORT



CARBON SEQUESTRATION



CARBON FOOTPRINT & CARBON SEQUESTRATION

Expansion of SMS for 336,000TPA Billet Production along with installation of Rolling Mill for production of 210,000TPA Rolled Product, Installation of 150,000TPA Briquette Plant, 108000TPA Sinter Plant and addition of Pig Iron as product from the Existing Submerged Arc Furnaces

CARBON FOOTPRINT AND CARBON SEQUESTRATION STUDY

Introduction

In 2015, the global response to the threat of climate change took a step forward when 190 nations adopted the Paris Agreement. In 2019, the United Nations announced that over 60 countries including the United Kingdom and the European Union (with the exception of Poland) had committed to carbon neutrality by 2050. Moreover, some nations have pledged to work toward earlier dates. Together, these agreements have led to growing pressure to pursue decarbonization across all industrial sectors.

India's Nationally Determined Contribution (NDC's) primarily targets by 2030 a reduction in the emissions intensity of Gross Domestic Product (GDP) by 33 to 35 percent; achieving about 40 percent installed power capacity from non-fossil fuel-based energy resources; energy efficiency; and creating an additional carbon sink of 2.5-3 billion tonnes of carbon dioxide equivalent through additional forest and tree cover.

Steel is one of the core pillars of today's society and, as one of the most important engineering and construction materials, it is present in many aspects of our lives. However, the industry now needs to cope with pressure to reduce its carbon footprint from both environmental and economic perspectives. Currently the steel industry is among the three biggest producers of carbon dioxide, with emissions being produced by a limited number of locations; steel plants are therefore a good candidate for decarbonization. While the industry must adapt to these new circumstances, it can also use them as a chance to safeguard its license to continue operating in the long term.

The direct CO₂ intensity of crude steel production has been relatively constant in the past few years. In contrast, in the Net Zero Emissions by 2050 Scenario it falls an average 4% annually between 2020 and 2030. Achieving this reduction and maintaining it after 2030 will not be easy. Potential for energy efficiency improvements will likely soon be exhausted. Thus, innovation in the upcoming decade will be crucial to commercialise new low-emissions processes, including those that integrate CCUS and hydrogen, to realise the long-term transformational change required. Governments can help by providing RD&D funding, creating a market for near-zero-emissions steel, adopting policies for mandatory CO₂ emissions reductions, expanding international co-operation and developing supporting infrastructure.

In this report, the carbon footprints from different factors of Eloquent Steel Private Limited (ESPL) will be determined and the carbon sequestration data from the units will be accessed to have an insight on annual carbon emissions from the works. This report also provides measures to further reduce the carbon emissions from the unit through implementation of new cleaner technological advances and sustainable environment methods.

Eloquent Steel Private Limited has relied on following reference for arriving CO₂ Emission Factors for steel industry

- *Report on Greenhouse Gas Emissions from Major Industrial Sources –III Iron and Steel Production by International Energy Agency and USEPA; Technical Support Document for the Ferroalloy Production Sector: Proposed Rule for Mandatory Reporting of Greenhouse Gases;*), the CO₂ emissions are calculated and carbon footprints are tracked in the unit.
- 2006 IPCC Guidelines for National Greenhouse Gas Inventories, Volume 3, Industrial Processes and Product Use

Carbon Footprint

Carbon Footprint (CF) is used to measure the impact of human activities on natural ecosystems, the relative size of human consumption on ecosystems, and it emphasizes on the effect of carbon emission of human energy activities on atmospheric environment. Based on different industries, different levels have been formulated and different greenhouse gases have been considered. Six kinds of greenhouse gas emissions such as CO₂, CH₄ and N₂O produced by human activities in the country have been estimated. The carbon footprint is characterized in three levels:

- The first level comes from the direct carbon emissions of the institution itself
- The second level expands the boundary to the direct carbon emissions of the Department that provides the energy sector
- The third level includes the direct and indirect carbon emissions of the whole life cycle of the supply chain.

Overall Carbon footprint finding after completion of expansion projects

Following is the Division wise carbon emission calculations from Eloquent Steel Private Limited based on the emission factors.

1. Induction Furnace

Following table shows the CO₂ emissions from the induction furnace operation after proposed expansion.

Table 1: CO₂ e Emission from SMS Division

| Unit | Required Raw Materials | Quantity (TPA) | Carbon Content (W/W) | Total Carbon (TPA) | Carbon Retained in Billet (TPA) | Carbon Burnt (TPA) | CO ₂ e Emissions after proposed expansion of the plant (TPA) |
|---|------------------------|-----------------|----------------------|--------------------|---------------------------------|--------------------|---|
| SMS (IF-6x8T & 2x25 T) for production of 3,36,000 | Pig Iron | 65,684 | 0.04 | 2627 | 504 | 7574.075 | 27,796.86 |
| | Sponge Iron | 3,00,125 | 0.015 | 4502 | | | |
| | Ferro Alloys | 4,116 | 0.02 | 82 | | | |
| | Scrap | 43,326 | 0.020 | 867 | | | |
| Total | | | | 8078.075 | | | |

2. Rolling Mill Division

Reheating Furnace

Following table shows the CO₂ emissions from the reheating furnace operation using LDO or LSHS as Fuel for the proposed plant. The production for this unit is taken considering 10% production of rolled products through Reheating furnace and rest production (90%) through hot charging directly from SMS to rolling mills.

Table 2: CO₂ e Emission from Rolling Mill Division

| Unit | Fuel Type | Quantity (KL/Year) | Quantity (Kg/Year) | Heat Value | Total Heat Generation (Kcal) | Total Heat Generation (mmBTU) | Emission Factor (T/mmBTU) | CO ₂ e Emission (TPA) |
|-------------------|-----------|--------------------|--------------------|------------|------------------------------|-------------------------------|---------------------------|----------------------------------|
| Reheating Furnace | LSHS | 735 | 712.95 | 10550 | 7521622.50 | 29.83 | 72.93 | 2,175 |

3. *Ferro Division*

Following table shows the CO₂ emissions from the induction furnace operation after proposed expansion.

Table 3: CO₂ e Emission from SEAF

| Unit | Product | Quantity (TPA) | Emission Factor (T/T) | CO ₂ e Emission (TPA) |
|------------------------------------|----------|----------------|-----------------------|----------------------------------|
| SEAF (3x7.5 MVA & 1x5.5 MVA) | Fe-Mn | 59,052 | 1.3 | 76767.6 |
| | Si-Mn | 43,236 | 1.4 | 60530.4 |
| | Fe-Cr | 59,052 | 1.3 | 76767.6 |
| | Fe-Si | 22,680 | 2.5 | 56700.0 |
| | Fe-Si-Cr | 33,480 | 1.4 | 47516.9 |
| | Pig Iron | 76,400 | 1.4 | 1,03,306.1 |

Table 2: CO₂ e Emission from Sinter Plant

| Unit | Product | Quantity (TPA) | Emission Factor (T/T) | CO ₂ e Emission (TPA) |
|--------------|---------|----------------|-----------------------|----------------------------------|
| Sinter Plant | Sinter | 1,08,000 | 0.2 | 21,600 |

Table 5: CO₂ e Emission from Briquetting Plant

| Unit | Fuel Type | Quantity (KL/Year) | Quantity (Kg/Year) | Heat Value | Total Heat Generation (Kcal) | Total Heat Generation (mmBTU) | Emission Factor | CO ₂ e Emission |
|-------------------|-----------|--------------------|--------------------|------------|------------------------------|-------------------------------|-----------------|----------------------------|
| Briquetting Plant | LSHS | 1911.60 | 1954.25 | 10550 | 19562358.60 | 77.58 | 72.93 | 5,658 |

Thus, the cumulative CO₂e emitted from the project after proposed expansion with sum of table 1-5 is **1,60,535.96 tons CO₂e/Annum**.

[Reference Point: Source: Report on Greenhouse Gas Emissions from Major Industrial Sources –III Iron and Steel Production by International Energy Agency and USEPA; Technical Support Document for the Ferroalloy Production Sector: Proposed Rule for Mandatory Reporting of Greenhouse Gases;]

Mitigation measures to reduce Carbon Footprints

With the growing concern over climate change, steel makers are faced with the challenge of finding ways of lowering CO₂ emissions without seriously undermining process efficiency or considerably adding to costs. The iron and steel industry are the largest industrial source of CO₂ emissions due to the energy intensity of steel production, its reliance on carbon-based fuels and reductants.

The technological compendium of industries suggests the need to shift from traditional carbon intensive technologies for iron and steel production to low-carbon environment friendly technologies. Following are the measures which shall be adopted in coming years by the industries to reduce the overall carbon footprints

- Energy Monitoring & Management System
- Secondary Fume Extraction System in Steel Melting Shop
- Regenerative Burners in Re-heating Furnaces of Rolling Mills

- Hot charging process of continuously cast products at higher temperature directly to Rolling Mills
- Direct Rolling Process eliminating the need for Re-heating furnaces
- Adoption of Variable Voltage Variable Frequency (VVVF) Drives for high capacity electric motors
- Minimising energy consumption and improving the energy efficiency of the process
- Changing to a fuel and/or reducing agent with a lower CO₂ emission factor;
- Capturing the CO₂ and storing it underground.
- Sufficient and affordable renewable energy needs to be implemented in the industry
- Installing state of art cleaner technologies
- Afforestation and Plantation
- Metallurgical wastes (Slag, Sludge, scales, fines, dust) into Sintering contributes significantly for reducing carbon dioxide emissions
- Availability of supporting infrastructure (Carbon capture and storage (CCS) and Hydrogen networks) needs to be accelerated, especially for industries, to support the transition to low-carbon/carbon neutral technologies
- Supporting the deployment of Digital Product Passports (DPPs) in the downstream products and applications of steel (e.g., in construction and transportation industries) can improve the process of steel recovery and reuse. The design of DPPs usually contains product related information by manufacturers, including instructions on disassembly and dismantling. If followed correctly during the recycling or end-of-life phase of steel products, steel recovery rates can be enhanced.
- The continuation and reinforcement of the promotion of sustainable means of transport for commuters, such as bicycles, public transport and, most of all, car-pooling would contribute to reducing carbon emissions

IMMEDIATE MEASURES TO BE TAKEN BY ELOQUENT STEEL PRIVATE LIMITED

The Company has taken some plan under this expansion proposal, which shall be considered as attempts towards clean technology.

- Direct hot charging of billets from SMS to rolling mill.
- Only 01 no. Re-heating Furnace as backup support. Company shall always prefer direct hot charging of billets from SMS to rolling mills
- Promoting minimum use of vehicles during plant visit.
- Installation solar light system on the roof top of administrative building for office lighting purpose.
- Increasing afforestation in and around the factory premises.

Attempts to reduce Carbon emission/to bring down Carbon intensity

Eloquent Steel Private Limited shall prefer direct charging of hot billets to rolling mills from SMS. This attempt will remarkably reduce dependency on Re-heating furnace and burning of fossil fuel like LSHS/LDO and consequently reduce the CO₂ emission. These moves should be considered as its positive attempts to bring down Carbon intensity.

Moreover, the company proposes uses of Variable Frequency Drive ID Fans, Energy Monitoring & Management System, Regenerative Burners in Re-heating Furnace of Rolling Mills, Adoption of Variable Voltage Variable Frequency (VVVF) Drives for high capacity electric motors, Installing state of art cleaner technologies.

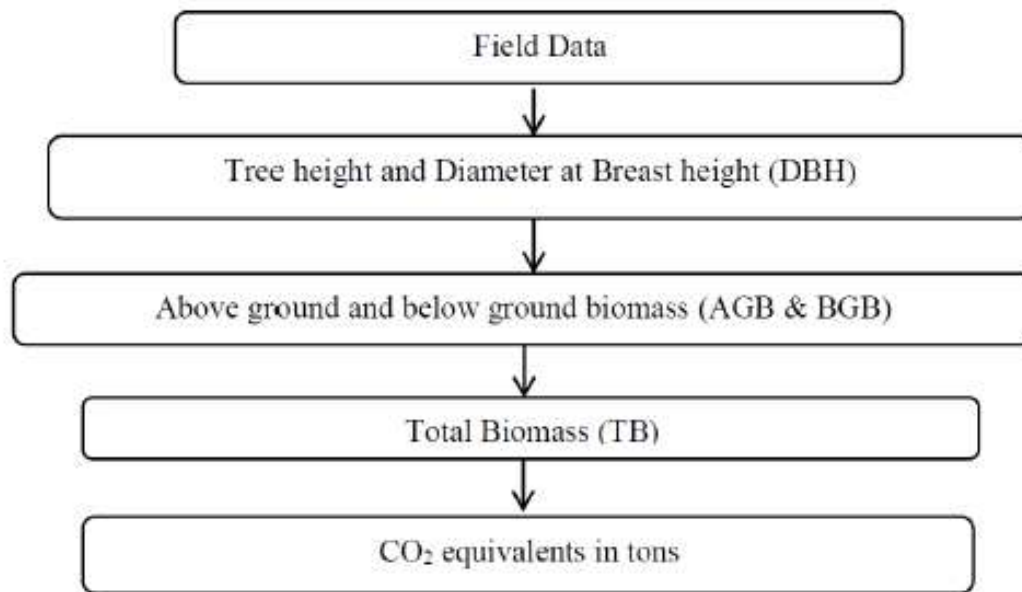
Carbon Sequestration

Carbon sequestration is defined as the removal of carbon dioxide from the atmosphere and storage in a system. Carbon sequestration is gaining its importance in carbon credit and trading. Identification of many CDM (Clean Development Mechanism) projects has offered special flexibility and relevance in the carbon reduction and has helped improve the national economy. These projects have estimated the quantity of carbon in various systems and their dynamics associated with it. With these estimations, several strategies and formulations have evolved quantifying and reducing the carbon foot print.

No doubt carbon sequestration can be achieved through various systems, but trees form to be the largest terrestrial sink of carbon dioxide. Therefore, the plantation is granted as the most efficient and biggest terrestrial carbon sequestration method. Out of the five most important terrestrial carbon sequestration system (above ground biomass, below ground biomass, litter, wood debris, and soil organic carbon), the above and below ground biomass are the top two in the pool. Biomass of trees develops when plants take in carbon dioxide from the atmosphere in the presence of sunlight and convert them into starch in their tissues. Several studies have revealed that the carbon content in these tissues is half their biomass. So, with their growth and development, trees go on sequestering CO₂ from the atmosphere and store in their tissues as carbohydrates. This continues until the death of the tree. The rate of carbon sequestration is however maximum during the early stages of growth in trees when trees try to produce more and more amount of food to grow, meet the energy required by them and to stabilize in their respective environmental conditions.

Estimation of Carbon Sequestration Potential of trees

There are generally two methods to estimate carbon sequestration in plant biomass. Direct method that involves cutting of the tree and Indirect method that is calculated through the above ground biomass and below ground biomass method without slashing the tree. Being ethically and ecologically sound, the second method was preferred for the present study.



Methodology for Carbon Sequestration from Trees

The girth at breast height (GBH) of the trees was measured using a measuring tape at a height of 1.96 m from the ground surface. The height of the trees was measured using reference method (referring to the height of a nearby building or tower), pencil method and angle method as per the convenience. The above ground biomass (AGB) and below ground biomass (BGB) were then calculated as per the formula is given below.

$$\text{Basal area (m}^2\text{)} = (\text{GBH})^2/4\pi$$

$$\text{Bio-volume (m}^3\text{)} = \text{Basal area} \times \text{Height of the tree}$$

$$\text{AGB (kg)} = \text{Bio-volume} \times \text{Wood density (kg/m}^3\text{)}$$

$$\text{BGB (kg)} = \text{AGB} \times 0.26 \text{ (Where } 0.26 = \text{Root to Shoot ratio)}$$

$$\text{Total Biomass (TB) in kg/tree} = \text{AGB} + \text{BGB}$$

$$\text{Total Carbon Sequestered (TC) in kg/tree} = \text{TB}/2$$

The Carbon content in trees was taken on an average as 50% of the tree biomass. The wood density of the individual tree species was derived from secondary sources. The CO₂ equivalent was calculated using the following formula:

$$\text{CO}_2\text{e} = (\text{TC} \times 44)/12$$

Where, 44 and 12 are the molecular and atomic weight of CO₂ and C, respectively.

Eloquent Steel Pvt. Ltd. has cover 33% (3.0 ha.) land of total project area with plantation 7150 plants. The company shall 600 more plantation in the plant existing premises for gap filling.

Further, company has proposed plantation of 4000 nos. plant in surrounding area of the factory at different location as social forestry mission, which shall also be considered for carbon sequestration study.

Therefore, Total plantation will be $7,750 + 4,000 = 11,750$ tress.

The Carbon sequestration by plantation study is provided in following table:

**CARBON SEQUESTRATION THROUGH GREENBELT DEVELOPMENT IN AND AROUND THE PLANT PREMISES OF
ELOQUENT STEEL PRIVATE LIMITED**

| Sl. No. | Plant Species | Local Name | Periphery (cm.) | Basal Area (M2) | Height (M) | Basal Volume (M3) | Density (Kg/M3) | AGB (Kg) | BGB (Kg) | TB (Kg) | TC (Kg) | CO2e (Kg) | No. Tree | Total CO2e (Kg) | |
|---------|--------------------------|---------------|-----------------|-----------------|------------|-------------------|-----------------|----------|----------|---------|---------|-----------|--------------|-----------------|------------------|
| 1 | Azadirachta indica | Neem | 68 | 0.037 | 6.5 | 0.239 | 900 | 215.37 | 56.00 | 271.37 | 135.68 | 497.50 | 158 | 78,606 | |
| 2 | Polyalthia longifoila | Debdaru | 30 | 0.007 | 4 | 0.029 | 875 | 25.08 | 6.52 | 31.60 | 15.80 | 57.93 | 193 | 11,181 | |
| 3 | Acacia auriculiformis | Sonajhuri | 48 | 0.018 | 5 | 0.092 | 625 | 57.32 | 14.90 | 72.23 | 36.11 | 132.42 | 525 | 69,521 | |
| 4 | Dalbergia sissoo | Shishu | 59 | 0.028 | 8 | 0.222 | 800 | 177.38 | 46.12 | 223.49 | 111.75 | 409.74 | 980 | 4,01,543 | |
| 5 | Ficus benghalensis | Bot | 78 | 0.048 | 7 | 0.339 | 700 | 237.35 | 61.71 | 299.07 | 149.53 | 548.29 | 125 | 68,536 | |
| 6 | Ficus religiosa | Peepal | 95 | 0.072 | 10 | 0.719 | 700 | 502.99 | 130.78 | 633.76 | 316.88 | 1161.90 | 140 | 1,62,666 | |
| 7 | Anthocephalus cadamba | Kadam | 59 | 0.028 | 6 | 0.166 | 600 | 99.77 | 25.94 | 125.72 | 62.86 | 230.48 | 120 | 27,657 | |
| 8 | Mimusops elengi | Bakul | 58 | 0.027 | 3.5 | 0.094 | 1008 | 94.49 | 24.57 | 119.06 | 59.53 | 218.28 | 250 | 54,569 | |
| 9 | Albizzia lebeck | Sreesh | 85 | 0.058 | 8 | 0.460 | 630 | 289.92 | 75.38 | 365.30 | 182.65 | 669.72 | 940 | 6,29,533 | |
| 10 | Cono Carpus | Cono Carpus | 54 | 0.023 | 7 | 0.163 | 580 | 94.26 | 24.51 | 118.77 | 59.38 | 217.74 | 1410 | 3,07,012 | |
| 11 | Caesalpinia pulcherrima | Radhachura | 64 | 0.033 | 4.5 | 0.147 | 530 | 77.78 | 20.22 | 98.00 | 49.00 | 179.67 | 890 | 1,59,904 | |
| 12 | Delonix regia | Krishnachura | 54 | 0.023 | 4.5 | 0.104 | 510 | 53.28 | 13.85 | 67.14 | 33.57 | 123.08 | 210 | 25,847 | |
| 13 | Lagerstroemia speciosa | Jarul | 45 | 0.016 | 3 | 0.048 | 700 | 33.86 | 8.80 | 42.66 | 21.33 | 78.21 | 140 | 10,950 | |
| 14 | Millettia pinnata | Karanj | 61 | 0.030 | 4 | 0.119 | 680 | 80.58 | 20.95 | 101.53 | 50.77 | 186.14 | 945 | 1,75,907 | |
| 15 | Eucalyptus globulus | Eucalyptus | 48 | 0.018 | 8 | 0.147 | 582 | 85.41 | 22.21 | 107.62 | 53.81 | 197.30 | 165 | 32,554 | |
| 16 | Alstonia scholaris | Chhatim | 72 | 0.041 | 4 | 0.165 | 700 | 115.57 | 30.05 | 145.61 | 72.81 | 266.96 | 120 | 32,035 | |
| 17 | Wodyetiabifurcata | Fox Tail Palm | 45 | 0.016 | 2.8 | 0.045 | 540 | 24.38 | 6.34 | 30.72 | 15.36 | 56.31 | 28 | 1,577 | |
| 18 | Artocarpus heterophyllus | Katahal | 68 | 0.037 | 4.5 | 0.166 | 600 | 99.40 | 25.84 | 125.25 | 62.62 | 229.62 | 45 | 10,333 | |
| 19 | Syzygiumcumini | Jamun | 68 | 0.037 | 4.2 | 0.155 | 700 | 108.24 | 28.14 | 136.38 | 68.19 | 250.03 | 165 | 41,255 | |
| 20 | Terminalia arjuna | Arjun | 68 | 0.037 | 7 | 0.258 | 750 | 193.28 | 50.25 | 243.53 | 121.77 | 446.48 | 125 | 55,810 | |
| 21 | Areca catechu | Areca | 68 | 0.037 | 3 | 0.110 | 880 | 97.19 | 25.27 | 122.46 | 61.23 | 224.51 | 125 | 28,064 | |
| 22 | Tecoma stans | Ttikoma | 68 | 0.037 | 3 | 0.110 | 580 | 64.06 | 16.66 | 80.71 | 40.36 | 147.98 | 15 | 2,220 | |
| 23 | Swietenia | Mehguni | 68 | 0.037 | 5 | 0.184 | 750 | 138.06 | 35.89 | 173.95 | 86.98 | 318.91 | 35 | 11,162 | |
| 24 | Hibiscus rosa-sinensis | Hibiscus | 38 | 0.011 | 2.5 | 0.029 | 700 | 20.12 | 5.23 | 25.35 | 12.68 | 46.48 | 140 | 6,507 | |
| 25 | Hyophorbe lagenicaulis | Bottle palm | 68 | 0.037 | 6 | 0.221 | 900 | 198.80 | 51.69 | 250.49 | 125.25 | 459.23 | 28 | 12,859 | |
| | | | | | | | | | | | | | TOTAL | 8,017 | 24,17,805 |

Total Corban Sequestration by tree plantation shall be 2417805kg or 2417.805 tons CO₂e/Annum

ESPL has proposed to install 20 KVA Solar panel produce non-conventional green energy for office auxiliary use. It will be helpful in carbon sequestration as follows shown in Table-7

| | |
|---|----------------|
| Capacity of Solar Panel | 20KVA |
| Av. Power Generation | 0.02 MWh |
| Power generation in 24 hours | 0.48 MWh |
| Power generation in a year | 175.00MW |
| CARBON SEQUESTRATION | |
| Av Coal consumption per MW | 0.90T |
| Total Coal consumption for 175 MW | 157.50 T |
| Total Carbon as FC | 105.53 T |
| Total CO₂e emission Sequestration | 387.28T |

Table-7

From the above tables, it is understood that total CO₂e sequestration potential from greenbelt development (8017 no. trees) is estimated to be **2417.805 tons CO₂e/Annum**. This number can be increased on yearly basis target to reduce additional CO₂e emission by planting a greater number of trees over additional area.

In addition to afforestation installation of solar panel shall contribute carbon sequestration **387.28T CO₂e/Annum** i.e. more than 01Ton/day. Though it is very less in an industrial scenario but shall be a step forward towards carbon sequestration.

Conclusion

Eloquent Steel Private Limited is committed for reducing the overall Green House Gases and Ambient pollution levels through its cleaner technologies and Ecological development activities. The company is solemnly interested on reducing the carbon emissions by introducing different energy efficient technologies available in Indian market with usages of renewable energy resources,

To conclude, no single option can yield the necessary CO₂ emission reductions but a combination of technologies available can be retrofitted to achieve significant reductions, which is possible after commercial deployment of the same by the Government of India.

If Carbon capture and storage (CCS) plant is implemented then steel plants could become near zero emitters of CO₂. The commercial viability of CCS partly depends on the price of carbon emissions which is set by government policy. More large-scale demonstration projects, such as the Florange project in France could lead to lower costs in the future. If all technical, financial and cost barriers are overcome, then CCS could be more widely deployed in the steel industry. Developing new technologies, such as the HISarna process, that are designed to generate a nitrogen-free and CO₂ rich off gas which will make CO₂ capture easier and cheaper.

ANNEXURE-15
(Risk and Disaster Management Plan.)



SHAKAMBHARI
GROUP

ELOQUENT STEEL & PVT. LTD.

Vill: Nakrajoria, PO& PS: Salanpur, Dist: Paschim Bardhaman,
West Bengal- 713357

RISK & DISASTER MANAGEMENT PLAN



M/S Eloquent Steel Pvt. Limited,

Vill: Nakrajoria, PO. & PS: Salanpur, Dist: Paschim Bardhaman, (WB)

Page No.
1

Risk and Disaster Management Plan

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| 3 | Manpower and working shift | 4 |
| 4 | Nature of Hazards | 4 |
| 5 | Process Description | 4 |
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Risk and Disaster Management Plan

Introduction:

The project site of M/s Eloquent Steel Pvt. Limited (ESPL) is located at Village: Nakraoria, PO-Salanpur, District-Pachim Bardhaman in the state of West Bengal having Latitude: 23° 46' 33.06" N & Longitude: 86°51'43.02" E.

Project site of ESPL is well connected by road and rail. The nearest railway station is Salanpur which about 2 km from project site. Nearest Town/City/District Headquarter is Pachim Bardhaman at the distance of 14 km.

The last two decades have seen many technological innovations that have contributed to automated, more reliable and cost effective safety management techniques, equipment and systems. Responsiveness & competence needs to be created among the Indian industry about tools & methodologies of safety techniques to understand and mitigate the hazards they are dealing with on a day-to-day basis, and create a safe working environment, for its own machinery, employees and community around. The code of practice on safety management system will be very useful for engineering industries in order to eliminate hazards and for providing safe work environment to employees.

The safety and protection of people, equipment and the environment is a serious concern in the Engineering industries. Many industries have recognized the advantages of Safe Work Environment and are progressively adopting Safety Management System to prevent hazardous events, avoid production & manpower losses and other fallouts associated with industrial accidents. Safety management system also assists industries to enhance employee knowledge of operations, improve technical procedures, maintain accurate process safety information and increase overall facility productivity.

GENERAL INFORMATION ABOUT THE FACTORY:

Eloquent Steel Private Limited was incorporated in the year 2012 as per Certificate of Incorporation having Corporate Identity Number U51909WB2012PTC185734, 2012-13 dated 11.09.2012, issued by the Registrar of Companies, Kolkata.

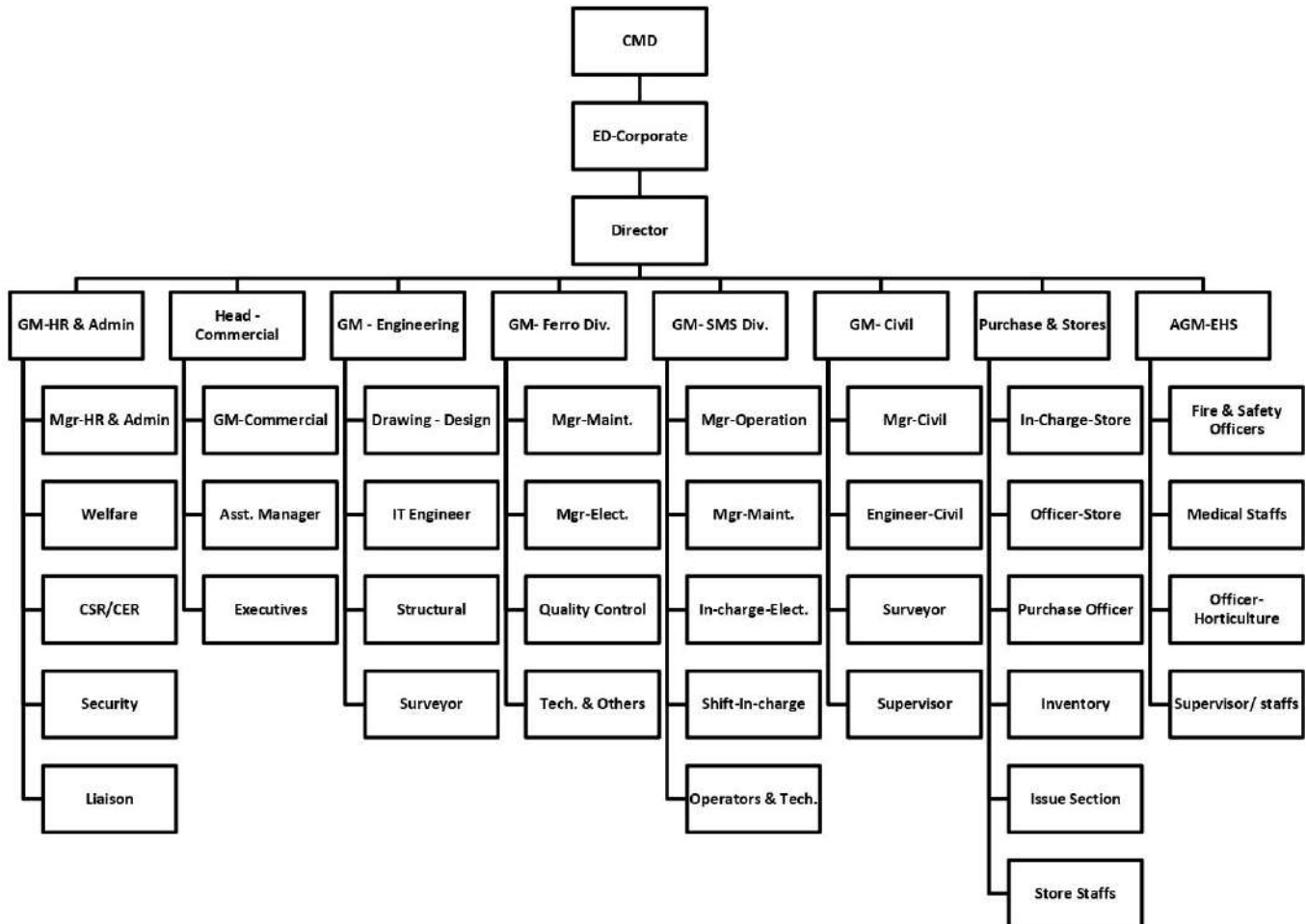
For the purpose of setting up Ferro Alloy Plant, ESPL has acquired two existing Ferro Alloy Plants M/s Hira Concast Ltd and M/s Impex Ferro Steel Ltd., adjacent to each other, located at village: Nakraoria, P.S. Salanpur, Dist: Paschim Bardhaman, West Bengal and taken possession in November, 2017 and April 2018 respectively and now under the ownership of ESPL a unit of Shakambhari Group who is having vast experience in the line of steel manufacturing.

Presently, the company is having following facilities in operation:

- 3x7.5MVA + 5.5MVA SAF
- 4x7T Induction Furnace with CCM

Risk and Disaster Management Plan

Organizational Structure



Risk and Disaster Management Plan

Man Power

Maximum number of persons available in the plant at any point of time is as follows:

Persons working under various shifts

| SL. NO. | SHIFT | PERIOD | AVERAGE EMPLOYMENT/DAY |
|--------------|-------|---|------------------------|
| 1. | A | 06:00-14:00 Hrs | 45 |
| 2. | B | 14:00-22:00 Hrs | 29 |
| 3. | C | 22:00-06:00 Hrs | 30 |
| 4. | R | | 41 |
| 5. | G | 09:00-18:00 Hrs (Lunch Break: 13:00-14:00 Hrs) | 47 |
| Total | | | 192 |

Depending on requirements employees are called in different shifts and few employees are called on duty during national/festival holidays and off days.

Nature of Hazards in ESPL

A steel industry is hazardous by its very nature. The nature of various hazards in ESPL Plant is detailed below:

| Hazards | Source |
|---|--|
| Fire Hazard | Spillage of fuel oil, |
| Explosion due to spillage of hot metal coming in contact with water | Spillage/Transfer of hot metal, or liquid steel |
| Heat radiation due to hot metal handling | Spillage of liquid metal, hot steel and hot slag |
| Accidents due to failure of Material Handling(lifting & carrying) Equipment | Connected with all Material Handling Equipments through EOT cranes |

PROCESS DESCRIPTION (in brief)

➤ **Ferro Alloys Plant**

Generally Ferro Alloys are used for making steels to improve the performance of steel as industrial product.

The Ferro alloys division comprises of following four types of alloys:

- Ferro-Manganese
- Silico-manganese
- Ferro-silicon

The facilities within the ferro alloy plant comprises of the following major units:

- Raw material handling system
- Furnace feeding system
- Submerged Arc Furnace
- Furnace tapping and casting
- Product handling system
- Electrical system

Risk and Disaster Management Plan

▪ Air Pollution Control System

Conveyor system is provided to feed the day bins for different Ferro Alloys Product. Vibrating feeders are located below each ground hopper, which transport the material on a vibratory screen through conveyor. In order to store the materials in individual bunker a reversible shuttle conveyor is provided on top of bunker.

Furnace feeding system

A conveyor is provided to collect the screened mixture of material from surge hopper on ground level and dump the same in to a feed hopper. The material from this hopper is being collected by a conveyor and transported to the telfer. By way of rotation this telfer gets aligned with charging bins and correction bins, which are located around the circumference of this rotation. Pneumatically operated slide gates are provided in each chute. These gates are operated from the central control desk.

Submerged arc furnace

Four submerged arc furnaces of capacity 3x7.5 MVA+1x5.5MVA, total 04 SAF have been considered. The furnaces are equipped with charge feeding hoppers, chutes, transformer, electrodes and Air pollution control system.

Furnace tapping and casting

The furnaces are tapped at an interval of about two and half hours considering eight numbers of heats per day. The tap hole is opened by oxygen lancing. Skimmer tapping arrangement provided to separate slag and metal. The liquid metal is being cast in moulds or in sand bed. The slag from the furnace is collected, cooled and disposed at suitable area allocated for slag disposal.

Product handling system

The solid cakes are broken in to smaller pieces manually in to required sizes. Suitable adjustment of breaking can change the product sizes to suit customer's requirement.

The products, classified according to sizes and grades of different Ferro Alloys will be stored in the dedicated storage areas. Sized product will be weighted, packed and kept ready for dispatch.

➤ **STEEL MELTING SHOP (SMS):**

In the SMS section scrap and pig iron are charged in Induction Furnace along with DRI in which heat is applied by induction heating and melted by electrical eddy current in a crucible placed in a water cooled alternating current solenoid coil. After achieving the desired composition and temperature, slag is scooped out from the top of hot metal and hot metal is poured into transfer ladle crucible and sent to CCM after addition of requisite amount of Ferro alloys. Induction furnaces are provided with matching billet casters.

In CCM liquid steel is casted to billets.

Risk and Disaster Management Plan

INVENTORY OF RAW MATERIALS

The inventories of raw materials used in the process are listed in the table below, which gives details of material stored. It contains maximum one month storage for each substance in process and transferred to unit where it is consumed.

Maximum storage of capacity of raw materials

| SL. NO. | OPERATING UNIT | RAW MATERIALS | MAX. STORAGE CAPACITY (METRIC TONS/MONTH) |
|---------|--------------------|---------------------|---|
| 1. | Ferro Alloys Plant | Mn-ore | 20,000 MT |
| | | LAM Coke | 12,500 MT |
| | | Quartz | 2000 MT |
| | | Dolomite | 1000 MT |
| 2. | Induction Furnace | Sponge Iron | 7500 MT |
| | | Pig iron | 1800 MT |
| | | Scrap | 2500 MT |
| | | Ferro Alloy | 120 MT |
| | | coal fines @25% ash | 25 MT |

ONSITE EMERGENCY PLAN

In a steel plant, the steel making process involves a number of hazardous processes starting from raw material handling, melting of sponge iron , ping iron, manganese ore, quartz and dolomite, scrape etc. and converting ferro alloys and into steel till the finished products. Also, the by-product plants, utilities & other auxiliary plants use considerable amount of combustible materials and these materials are stored in bulk storages like cylinders, drums, and gas holders etc. inthe plant posing major risks.

The detailed study with concern to various possible hazards and their associated processes & equipment's has been identified. The list of these identified hazardous equipment in the plant is given in the following pages. The potential hazards from the above identified equipment and from the various hazardous operations/processes in the plant have been analyzed and the possible causes for occurrence of such hazards, likely consequences and the remedial action required are recommended.

Emergency Action Plan:

Emergency Planning begins with the identification and assessment of the principal hazards which are normally fire, explosion and toxic release. With the growing complexity of the process plants, more systematic and searching methods for risk identification and quantification have been developed over the years. Generally the emergencies that occur in process plants are classified into two categories. The one whose effects remain within the boundary limits of the plant is known as On-Site Emergency and the one where the effects go beyond the boundary limits is known as Off-Site Emergency. In ESPL, the requirements of the On-Site Emergency Plan are addressed due to fire hazard only.

This On-Site Emergency Plan is prepared for Eloquent Steel Pvt. Ltd in accordance with the guidelines provided by the Ministry of Environment & Forests& Climate Change (MoEF& CC), Govt. of India, covering the various hazardous processes and the bulk storages of hazardous materials etc., in different departments.

Risk and Disaster Management Plan

HAZARD IDENTIFICATION AND DETAILS OF PROPOSED SAFETY SYSTEMS

Identification of Hazards

Hazard is in fact the characteristics of a system/plant/storage that presents potential for an accident and risk is the probability of occurrence of hazard. Hence hazard identification is of prime significance for the quantification of risk and for cost-effective control of accidents in any industrial installation. Various techniques of predictive hazard evaluation and quantitative risk analysis suggest identification of hazard has very important role in estimation of probability of an undesired event and its consequences on the basis of risk quantification in terms of damage to personnel, property and environment.

Hazards are mostly manifested in the form of fire/ explosion/ toxic release. Each anticipated hazard scenario associated in the unit is described along with its assessment of impact on plant and locality in the following table:

ANTICIPATED HAZARD SCENARIO:

| Type of Hazard | Areas | Preventive / Mitigation measures |
|----------------|---|---|
| Fire | SAF & Induction Furnace and Store | Regular monitoring being done to check out the leakage/spillage if any. Fire protection measures (Foam Trolley, DCP cylinder and hydrant system) are provided. Area is as "No Smoking Zone". Sufficient space and barricading are provided with restriction of un-authorized persons movement in the area. |
| Dust | Raw material handling & storage yard | Raw materials are transported in the trucks with tarpaulin covers. Raw materials like sponge iron and coke are kept under the shed and other like Mn-ore are kept on concreted land with tarpaulin cover. Water sprinkling facility is provided for dust suppression during material handling in the yard. Conveyor belts used for raw material feeding are properly covered. PPEs like nose mask, safety helmet, safety shoes and safety goggles are provided to persons, deployed for working in this area. |
| Noise | Blower house, Air compressor house, DG & Pump houses. | Equipment's are suitably covered in building with adequate ventilation, Silent type DG sets are provided to attenuate the noise level against outside exposure and area keeps generally unmanned, however working personnel are provided with ear plugs and ear muffs during inspections. |
| Heat Exposure | Ferro Alloys & SMS | Providing proper PPE like leg guards with shoes, Face shield, leather hand gloves, Leather/Asbestos Aprons, helmets etc. cooling fans, air blower etc. |
| Acid exposure | Laboratory | Acid and Base used are being kept on isolated place with proper leveling. Personnel handling these chemical being well equipped with PPEs like rubber hand gloves, apron, nose mask, face shield/safety goggles, safety shoes etc. Once any person gets exposed to acid or base the affected parts are thoroughly washed with cold water and necessary first/medical aid is given to the victim. |

Risk and Disaster Management Plan

IDENTIFICATION OF MOST CREDIBLE HAZARD SCENARIOS

All the anticipated hazard scenarios associated with the factory (as listed above) are critically analyzed and identified credible scenario is fire hazard which may take place during opening of tape hole of SAF and carrying hot metal in induction Furnace to CCM. Whenever the HSD comes in contact with flame or it may auto ignite at 225°C temperature. Flash point of HSD is 66°C and it is not a flammable liquid. Tank fire spreads vertically taking a conical shape due to rush of air from all directions.

Since the suitable firefighting system are provided to control emergency situations. On the basis of above consideration, identified fire hazard or the pool fire due to fire hazard in the storage tank is not considered as most credible scenario.

But in case of disaster due to natural calamities a disaster management team will come to action.

KEY PERSONNEL

Key personnel are the directed and nominated people, each having specified responsibilities as a part of a coordinated plan.

The main key personnel are:

- Works Incident Controller.
- Site Incident Controller.
- Works Main Controller.
- Other key personnel who have the key Role to play are senior personnel from all sections e.g. production, maintenance, laboratory, medical, transport, safety, security etc.

Role of Key Persons

Works Incident Controller (WIC)

The Works Incident Controllers are the departmental heads of respective divisions for SAF and SMS whose duties include the direction of the efforts and lead to onsite emergency response team to control the situation.

Since in the initial stages of emergency, the Works Incident Controller may be called on to take decisions involving the operations of other plants, it is necessary for the person selected to have a thorough knowledge of the overall works situation.

The person working as shift in-charge/manager i. e., an individual having overall control of the works processes for a shift shall work in the authority of WIC when the Works Incident Controller (WIC) may be off-site or affected by the emergency.

Site Incident Controller (SIC)

He will be available at the factory or in the colony nearby. At any point of time and on being informed about an accident, he has to:

- Intimate the Works Main Controller (WMC) and proceed to the emergency site.
- Take the necessary information from Combat Team Leader (CTL), assess the situation and call Rescue Team Leader (RTL) and Auxiliary Team Leader (ATL).

Risk and Disaster Management Plan

- Inform Works Main Controller (WMC) regarding the situation.
- Take necessary steps and provide guidance to Combat Team, Rescue Team, and Auxiliary Team Leaders to mitigate the emergency situation.
- Examine for major emergency shutdown operation activities, decide safe escape route and announce for evacuation to Assembly Point.
- Inform Works Main Controller (WMC) about the status of the situation at regular intervals.

Works Main Controller (WMC)

The Works Main Controller is the Director of the unit and is generally available in the factory or reside in the nearby except on tours. On emergency, he can reach work site at any odd hour within 30-45minutes time. In his absence, GM at Plant shall take up his charge as Works Main Controller (WMC)

In the major situation, decisions will have to be taken by Works Main Controller (WMC) by collaboration with the senior managers at works which may affect the whole or a substantial part of the works and senior officers of the outside services as per site situation.

After getting informed of an emergency situation WMC will rush to the emergency site, collect all information from SIC and

- Decide if emergency is to be declared and advise Site Incident Controller (SIC) accordingly and reach Emergency Control Room (ECR).
- Take decision to shut-down the plant if necessary to take up repair and other combating measures.
- Advise Rescue Team Leader (RTL)/Security Gate to blow the siren with appropriate code for declaration of emergency.

Emergency Siren

Twenty Seconds with a pause of Five Seconds for 5 times

- Advice (Auxiliary Team Leader) ATL for communication to statutory authorities and for mutual aid as required.
- Through Auxiliary Team Leader (ATL) shall ensure constant communication to statutory authorities and to mutual aid partners as required.
- Maintain continuous communication with Site Incident Controller (SIC) to review the situation and assess the possible course of action for emergency operations.
- To declare normalcy at the end of operation and advise Rescue Team Leader (RTL)/Security Gate to blow “**all clear siren**”

All Clear Siren will be blown for 1 minute continuously.

- Ensure the record keeping of emergency operations chronologically.

Essential Personnel

The Works Incident Controller/Main Controller will be supported by a Task Force of suitably trained people. The nature of essential works to be performed is:

- Shutdown of Plants

Risk and Disaster Management Plan

- Isolation, repairing of the affected equipment /pipeline etc.
- First Aid and removal of the injured persons to hospital.

COMBAT TEAM LEADER

He is the leader to attend to the emergency and is available in the factory or in the colony at any instant.

On being informed about an accident, he has to:

- Immediately rush to the site and lead the rescue team to control the situation.
- Inform Site incident controller (SIC) about the incident and request him to rush to the spot.
- Give the necessary instructions to the rescue team to combat the situation
- Co-ordinate the activities of team members and combat the emergency, so as to eliminate the root cause of the hazard.
- To arrest the leakage and spillage from various equipment, shut down the concerned equipment.
- Take necessary action to remove unwanted persons from the site of the incident.
- Keep informed about the developments to Site Incident Controller (SIC).

RESCUE TEAM LEADER

He is the person who conducts rescue operations and should be available at any instant. On receiving the information about the incident he has to:

- Rush to site of emergency through safe route.
- Ensure presence of all his team members, availability of firefighting facilities and take necessary action to arrest the fires/leakage of gas.
- Arrange for safe escape of entrapped persons.
- Make necessary arrangements to send the affected persons for immediately medical attention through the medical officer.
- Search for the missing persons on the basis of role call taken by Auxiliary team leader (ATL).
- Give the feedback to the site incident controller (SIC) about the developments.

AUXILIARY TEAM LEADER

He is the communication manager for the crisis management. On being informed of the emergency, he should proceed to Emergency Control Room (ECR) and:

- Keep in constant touch with works main controller (WMC) and Site Incident Controller (SIC).
- Inform the Statutory Authorities and District Administration.
- Communicate to mutual Aid Partners, Fire service stations at Asansol
- Send communications to District Hospital Paschim Bardhaman at Asansol for rendering services.

Risk and Disaster Management Plan

- Inform the relatives of casualties and send them to their residence or hospital as the case may be.
- Take care of visit of the authorities to the Emergency site.
- Give feed back to work main controller (WMC) about the status with respect to his areas of activities.

ACTION PLAN FOR RISK AND DISASTER MANAGEMENT

| SL. NO. | INITIATOR | ACTION TO TAKE |
|---------|-----------------------------------|---|
| 1. | The person noticing the emergency | <ul style="list-style-type: none"> • Inform the Security Gate and concerned Shift-in-charge immediately. Shift-in-charge will inform immediately to Combat Team Leader of concerned area. |
| 2. | Combat team Leader (CTL) | <ul style="list-style-type: none"> • Inform Site Incident Controller (SIC) and rush to spot and organize his team. • Take charge of the situation, arrange for firefighting and medical first-aid available at site. • To start combating, shut-down equipments, arrest the leakage of gas/fire. |
| 3. | Site Incident Controller (SIC) | <ul style="list-style-type: none"> • Inform works Main Controller (WMC) and rush to emergency site. • Discuss with Combat Team Leader (CTL), assesses the situation and call the Rescue Team Leader (RTL) & Auxiliary Team Leader (ATL). • Organize the Rescue Team and Auxiliary Team and send the rescue Team to site. • Arrange to evacuate the unwanted persons and call for additional help. • Pass information to the works main controller (WMC) periodically about the position at site. |
| 4. | Works main Controller (WMC) | <ul style="list-style-type: none"> • Rush to emergency site and observe the ongoing activities. • Take stock of the situation in consultation with the SIC. • Move to Emergency Control Room. • Take decision on declaration of emergency. • Advise Auxiliary Team Leader to inform the statutory authorities and seek help of mutual aid from partners as required. • Decide on declaration of cessation of emergency. • Ensure that the emergency operations are recorded chronologically. |
| 5. | Rescue Team Leader (RTL) | <ul style="list-style-type: none"> • Consult with Site incident controller (SIC) and organize his team with amenities to arrest firefighting and medical treatment. • Rush to Emergency Site through safe route along with the team members. • Arrange to set off the fire by firefighting equipments and hydrant points to arrest the fire or to evacuate the area. • Shift the injured persons to hospital by ambulance after providing necessary first aid. • To inform the auxiliary team Leader for necessary help from |

Risk and Disaster Management Plan

| SL. NO. | INITIATOR | ACTION TO TAKE |
|---------|----------------------|--|
| | | mutual aid Partners. |
| 6. | Auxiliary Team (ATL) | <ul style="list-style-type: none"> • On being directed by works main Controller (WMC) informs about the emergency to statutory authorities. • Seek help of Mutual Aid partners and Coordinate with Mutual Aid partners to render their services. • Arrange to inform the relatives of casualties. • Take care of visit of the authorities to the emergency site. |
| 7. | Team members | Each of the team members should follow the instruction of concerned team leader to mitigate the emergency. |

Salient Hour Command Structure

- The Senior Officers/ Key Persons of the plant remain during day time i.e. 8A.M. to 8P.M. Hence the timing of 8P.M. to 8A.M. is considered as silent hour that to 10P.M. to 8A.M. is the crucial time. Still each and every unit/section of the plant is headed by shift in charge in the rank of Officer, Engineer or Sr. Engineer or Asst. Manager, who shall be responsible for handling the emergency. The other supporting/services and emergency sections like Fire Service, Ambulance, Security, Personnel, Water Supply, Transport departments etc. are also running for 24 hours shift wise with shift in charge and crew to handle emergency during the silent hour till main command personnel arrives. However, most of the key persons of the main command structure reside in nearby area and can reach within minimum time.
- The command structure of the silent hour shall be same as during normal hour, however, during the silent hour, the operation Shift-in charge of the concerned area where the fire or leakage of gas has taken place, shall act as SIC-in-charge, till the arrival of actual designation members.

ACTIVATION & CLOSING PROCEDURE FOR ON-SITE EMERGENCY ACTIVATION PROCEDURE

The person noticing the incident of fire or leakage of gas, shall inform about the location & nature of fire to the combat team Leader (CTL), security Gate and concerned Shift-in-charge.

Combat team Leader (CTL) shall inform site incident controller (SIC) and shall rush to the site immediately. He shall arrange for firefighting and first aid available at site. He shall arrange to take necessary steps to eliminate the root cause of fire.

Site incident controller (SIC) on getting information shall inform the WMC and reach the site at the earliest. He shall take over the charge and shall direct Rescue Team Leader (RTL) to carry out rescue operations including firefighting and medical attention. Site incident controller (SIC) shall co-ordinate with Combat team leader (CTL) to eliminate the root cause of fire.

- Work main controller (WMC), on arrival at site shall take stock of the situation from site incident controller (SIC) and then rush to emergency control room (ECR) to declare emergency on the basis of assessment made by (Site incident controller (SIC). He shall give direction to the security gate/ (Rescue Team Leader) RTL to activate siren.
- Twenty seconds with a pause of five seconds for 5 times for fire Accident.

Risk and Disaster Management Plan

- Thirty seconds with a pause of five seconds for 5 times for leakage of gas.
- Rescue Team Leader (RTL) shall mobilize fire-fighting and medical resources to site and shall assist (Site incident Controller) SIC.
- Auxiliary Team Leader (ATL) shall take charge of Emergency Control Room (ECR), shall ensure smooth operation of ECR and shall inform relatives of casualties. Informs mutual Aid partners and ensures their arrival at site if required.
- Auxiliary Team Leader (ATL) informs statutory authorities and district administration regarding emergency suitably and coordinates their visit at site.
- Works main controller (WMC) coordinates and keeps the track of all the activities at site and off the site and arranges the recording of the activities in a chronological manner for review of the Onsite emergency Plan.

FACILITIES AVAILABLE FOR ON-SITE EMERGENCYPLAN:

Assembly Point

In any emergency it will be necessary to evacuate people from affected zones or the zones likely to be affected, to a safer place. Safer places are identified and designated as Assembly Points. Taking the area and hazard zones into consideration four assembly points have been marked in four different areas these are:

- 1- Near Administrative Building (Assembly Point-1)
- 2- Near OHC Area (Assembly Point-2)
- 3- Between SMS & Ferro Metal Yard (Assembly Point-3)
- 4- Near Plant Main Gate (Assembly Point-4)

Above the points are well connectable to the plant road and facilities like drinking water, temporary shelter and first aid is available there. These points are displayed at different places inside plant and near administrative building.

Escape routes:

Escape routes are those that, allow reasonably safe passage of persons from the work area to assembly point during emergency situation. These routes would be different depending on wind direction, Fire and explosion scenario. Escape routes are ear marked on the drawings as well as on the routes, which will facilitate all for safe evacuation.

Emergency Control Room (ECR):

The emergency Control Room is a place from which all emergency management operation are directed and coordinated. Also it is the place from where all communication will be established, with outside agencies and district authority also.

Facilities Available at ECR:

- Plant general Layout, ear marked with hazard zone, Assembly points and escape routes.
- List of working personnel in various shifts and general shift.
- Mobile telephone Nos., of emergency command structure personnel.
- Emergency command structure.
- Rhythmical siren code for different emergency situation.

Risk and Disaster Management Plan

- Relevant material safety data sheet.
- Emergency Control Room Register.
- First Aid Box with antidotes.
- Required personal protective equipment's with self-carrying breathing apparatus.

Fire Extinguishers

Required types of fire extinguishers are provided at different locations of the plant.

Fire Buckets

Fire buckets filled with dry sand are provided in different locations of the plant.

Siren

Company Has Siren/ hooter arrangement, which can be activated manually during fire related emergency.

Communication

Public address system and EPABX telephone are available for effective communication inside the plant. Telephone directory is available in all the departments.

Dispensary

An organized First-aid centre with ambulance, stretchers, oxygen cylinder etc. is placed inside the factory. The First-aid centre is manned by one Doctor/pharmacist and one attendant. An external Ambulance service is hired to meet emergency situation. The first-aid center is manned round the clock. In the case of emergency, affected employees are being referred to nearby Govt. hospital at Pithaikeyari Block Hospital or Asansol as required and in serious case to the hospital tied up with the company.

First Aid Box

Company has provided First Aid boxes with required first aid medicines at different locations inside the plant to address minor injuries. First aid boxes are checked by the pharmacists once in a month & and medicines are filled/replaced. The first aid boxes are provided in the following locations:

SAF, Administrative building, SMS and Security Office.

Risk and Disaster Management Plan

DISASTER MANAGENENTPLAN

Introduction:

Disaster may be defined as a sudden occurrence of incidence in such a magnitude as to affect the normal pattern of life inside or in the vicinity of plant which has the potential of causing extensive injury of loss of life or damage to property and tend to cause disruption inside/outside the site.

Hazardous substances are being handled, generated and stored in increasing quantities a various manufacturing facilities in recent years. This has posed a serious risk for the plant, persons and the environment encompassing thereof. The disasters following incidents in some industrial units handling hazardous substances in the last 2 to 3 decades has made it imperative for all concerned to device measures and implement them immediately and effectively to mitigate their adverse effects, if not, to totally eliminate them. The need to protect human being, the flora and fauna as well as our bio-diversity against these potential dangers has prompted the government for promulgation of various statutory provisions for preparation of hazard mitigation plans based on their risk impacts.

The Factories (Amendment) Act 1987 and manufacture storage and Import of Hazardous Chemical Rules- 1989 has provided regulation making mandatory for all owners of hazardous undertakings to prepare for their Onsite Emergency Plan in a pragmatic way and keep those well re-harassed for rapid action in actual crisis situation.

The goal of DMP is the effective containment of the emergency situation by proper mitigative action at the place of occurrence, cautioning people in adjoining affected localities; prompt rescue and provisions of medical aid to affected persons and communication to civil authorities for rushing in help from outside.

This objective being achieved by defining the functions and responsibilities of all concerned managerial, operational and supporting services department personnel with respect to detection and effective implementation of emergency action plan.

Objectives of Disaster Management Plan (DMP):

The objectives of DMP is to describe and spell out industry's emergency response actions that requires to be initiated to deal with various emergencies that could occur at the facility, with the response organization structure deployed in the shortest possible time. Thus the objective of emergency response plan can be summarized as:

- ✓ Rapid control and containment of the hazardous situation.
- ✓ Minimization of the risk and impact of event / accident.
- ✓ Effective rehabilitation of the affected persons and prevention of damage to property.

Elements of DMP:

In order to effectively achieve the above mentioned objectives, the critical elements of the DMP are:

- Reliable and early detection of an emergency and careful planning.
- The command, co-ordination, and response organization structure along with clearly demarcated line and staff function.
- The availability of resources for handling emergencies.
- Appropriate emergency response actions forecasted with least margin of error.

Risk and Disaster Management Plan

- Effective notification and communication facilities.
- Proper training of the concerned personnel.
- Regular review and updating of the DMP.

The DMP has been opened up with a foreword duly signed by the plant-in-charge.

Responsibility of Implementation of DMP:

Responsibility for establishing and maintaining an Emergency Preparedness Plan/DMP belongs to the Plant-in-charge. He is responsible for the control of the plan, and for ensuring that the plan is applicable and implementing procedures are operated during emergency situation and are reviewed and revised annually.

As a member of top management he is responsible for the training of personnel to ensure that adequate emergency response capabilities are maintained in accordance with the plan. He is also responsible for ensuring the regular conduct of drills and other measures, as outlined in the DMP.

Risk and Disaster Management Plan

EMERGENCY COMMAND STRUCTURE

Works Main Controller (WMC)
Mr. K Venkateswara Rao - Director



Site Incident Controller (SIC)
Mr. Kartick Chandra Pan (GM-Ferro)
Mr. Jai Prakash Singh (GM-SMS)



| <u>Auxiliary Team Leader (ATL)</u> | <u>Combat Team Leader (CTL)</u> | <u>Rescue Team Leader (RTL)</u> |
|---|--|---|
| <ol style="list-style-type: none"> Mr. M. Chattopadhaya (GM, HR & Admin) Mr. T. N. Patro (GM-Ferro, Production) Mr. Sanjay K Singh (Sr. Manager – SMS, Production) R. K. Mishra (AGM-EHS) | <ol style="list-style-type: none"> Mr. Abhijit Ghosh (Manager – Ferro, Mechanical) Mr. Chandan Chakraborty (Manager – Ferro, Electrical) Mr. Anand K Burnwal (Manager – SMS, Maintenance) | <ol style="list-style-type: none"> Mr. Partha Chakraborty (HoD, HR & Admin) Mr. Jagannath Bera (Asst. Safety Officer) |



| <u>Members</u> | <u>Members</u> | <u>Members</u> |
|--|--|---|
| <ol style="list-style-type: none"> Mr. Abhay Srivastava (Ferro Production) Mr. Yogendra Kumar (Ferro Production) Mr. Arun K Yadav (Ferro Production) Mr. Munna Hela (Ferro Production) Mr. Suraj Agarwal (Despatch) Mr. Surendra Mishra (Security) | <ol style="list-style-type: none"> Mr. Parimal Bouri (Ferro Mechanical) Mr. Md. Aslam (Ferro Mechanical) Mr. Chanchal Kundu (Ferro Electrical) Mr. Rajesh K Nandi (SMS Maintenance) Mr. Jiten Barman (SMS Electrical) | <ol style="list-style-type: none"> Mr. Niraj Tiwari (HR) Mr. Sanjeev K Singh (Administration) Mr. Rahul Chatterjee (Administration) Mr. Prasenjit Bouri (Store) Mr. Arun Paul (Security) |

Risk and Disaster Management Plan
TELEPHONE NUMBERS OF EMERGENCY COMMAND TEAM

| Sl No. | Name | Position in Team | Mob. Number |
|--------|-------------------------|--------------------------------|--------------------------|
| 1 | Mr. K Venkateswara Rao | Works Main Controller (WMC) | 9963237076 |
| 2 | Mr. Kartick Chandra Pan | Site Incident Controller (SIC) | 9378363100 |
| 3 | Mr. Jai Prakash Singh | | 9832889395 |
| 4 | Mr. M. Chattopadhaya | Auxiliary Team Leader (ATL) | 8367850085 |
| 5 | Mr. T. N. Patro | | 9233340408 |
| 6 | Mr. Sanjay Kumar Singh | | 6204366508 |
| 7 | Mr. R. K. Mishra | | 8695621900 |
| 8 | Mr. Abhijit Ghosh | | Combat Team Leader (CTL) |
| 9 | Mr. Chandan Chakraborty | 8373819925 | |
| 10 | Mr. Anand K Burnwal | 9572564278 | |
| 11 | Mr. Partha Chakraborty | Rescue Team Leader (RTL) | 8250708382 |
| 12 | Mr. Jagannath Bera | | 9775293539 |

EMERGENCY CONTACT NUMBERS:

| Sl No. | Name | Mob. Number | PAX. No. |
|--------|---|----------------|--------------|
| 1 | Factory Main Gate | 7605089199 | |
| 2 | Factory Security In-charge | 7605089199 | |
| 3 | Factory Medical Unit/Ambulance | 7605089103 | |
| 4 | Govt. Ambulance Service | 101 | |
| 5 | Factory Safety officer | 7605089168 | |
| 6 | District Magistrate Paschim Bardhaman | - | 0341-2554545 |
| 7 | Superintendent of Police | - | 0341-2257962 |
| 8 | Additional Superintend of Police, Asansol | - | 0341-2252640 |
| 9 | Asansol Police Control | - | 0341-2203287 |
| 10 | Chief Medical Officer | 9474782394 | |
| 11 | Sub Divisional Hospital, Asansol | - | 0341-2252176 |
| 12 | ADM (G), | - | 0341-2253010 |
| 13 | OC Disaster Management | 8777860955 | |
| 14 | Dy. Chief Inspector of Factories | 9433649808 | 0341-2252644 |
| 15 | Sub Divisional Officer, Asansol | | 0341-2252222 |
| 16 | Fire Station Ragnathpur | 8584027313/314 | 03251-203550 |
| 17 | Fire Station Asansol | - | 0341-2304506 |
| 18 | Asansol District Hospital | - | 0341-2304040 |
| 19 | Pithaikeyari Block Hospital | 7547945591 | - |
| 20 | Pithaikeyari, BMHO | 9547687716 | - |
| 21 | Police Station Salanpur | - | 0341-2531118 |

ANNEXURE-16
(Employees' Health Check-up Report)



Shot on OnePlus
By Prithwish 2023.07.26 12:24



Shot on OnePlus
By Prithwish 2023.07.26 14:21



Shot on OnePlus
By Prithwish 2023.07.26 14:17



Shot on OnePlus
By Prithwish 2023.07.26 12:25





ANNEXURE-17
(EC Newspaper Advertisement)

WHAT'S ON PAPER MATTERS.

To book your copy,

SMS reachbs to 57575 or email us at order@bsmail.in

Business Standard Insight Out

CHHATNA PANCHAYAT SAMIT CHHATNA : BANKURA

Please visit at www.wbtenders.gov.in for participating in the mentioned "New Construction of Su-Swasthya Kendra (H) Parashbana (5th Cell)" floated by Chhatna Panchayat Sar...

NOTICE

We would like to inform everyone that we have obtained Environmental Clearance (EC) from Ministry of Environment, Forest and Climate Change...

OFFICE OF THE RA PANCHAYAT SAMITY CHATRA, BANKURA

Inviting e-Tender No. 24/2022-23 dated 20.03.2023

GOVERNMENT OF WEST BENGAL Joint Administrative Building, 6th Floor, Block-HC-7, Sector-II, Salt Lake City, Kolkata - 700 106

ABRIGED NOTICE NIQ No. : 01/SRDA/N/1/2022-23. Dated: 20.03.2023. The Executive Engineer for and on behalf of WBSRDA, invites Notice Inviting...

CHANGE OF NAME

Vide Affidavit Dated : 27.01.2023 at Jamshedpur, I Reena Chatterjee, Dipu Late Ranjit Kumar Chatterjee & W/o Debashish Chakraborty, R/O: 7 Chandra Prabha Nagar, Dimna, P.O:MG Medical College, Jamshedpur - 831018 Changed My Name As - Reena Chakravarty & Both is Same Person.

e-Tender

Sealed e-tenders is hereby invited from the eligible bidders in connection with the execution of 07 (Seven) nos of works. The details of the Nil/No. 10/9/2022-23 is available in the district website https://murshidabad.gov.in/ also available in the website http://wbtenders.gov.in

FORM NO. 142 (See Regulation 30) OFFICE OF THE RECOVERY OFFICER - DEBTS DEBTS RECOVERY TRIBUNAL KOLKATA (DR) 3 8th Floor, Jeevan Swaha Building, 42-C, Jawaharlal Nehru Road, Kolkata-700071.

DEMAND NOTICE UNDER SECTIONS 25 TO 28 OF THE RECOVERY OF DEBTS & BANKRUPTCY ACT, 1983 AND RULE 2 OF SECOND SCHEDULE TO THE INCOME TAX ACT, 1961.

STATE BANK OF INDIA

VS AMIT KUMAR DAS (CO) AMIT KUMAR DAS, LATE ASIT DAS RESIDING AT - JANANAGAR, EAST TARAPURKUR MAIN ROAD, AGARPARA, PIN - 700109 NORTH TWENTY FOUR PARGANAS

Change of Name

I. Brindarani Saha W/o. Ex. No. 13817756, SEP, Jagannath Saha resided at Vill.-Kalitalla, P. O. - Maniknagar, P. S. - Belganga, Dist-MSD. I have changed my name from Binda Rani Saha & D.O.B-16/11/1948 to Brindarani Saha & D.O.B-10/11/1955 vide affidavit dt-14/03/2023 before SDEM (S) Court, Berhampore, Murshidabad.

e-Tender Notice

e-Tender is invited by the undersigned for 1-6 serials in NIET for Construction of AWC Building N.I.E.T. No.-08/HBD/0A/2022-23. Documents and other details is available in the website wbtenders.gov.in.

OFFICE OF THE BLOCK DEVELOPMENT OFFICER MOYNA DEVELOPMENT BLOCK

E-Tender On and behalf of Moyna Development Block the undersigned invites E-tender for NIT 09/RDO/2022-2023 vide this office memo no 753, dated-20.03.2023 on non-advance and non-advance outside contractors. Tender ID: 2023_ZPHD_496468_2. 2023_ZPHD_496468_2. 2023_ZPHD_496468_3. Bid start date:- 21.03.2023. Bid closing date:- 04.04.2023. For details please visit www.wbtenders.gov.in

CHANGE OF NAME

Vide Affidavit Dated : 27.01.2023 at Jamshedpur, I Reena Chatterjee, Dipu Late Ranjit Kumar Chatterjee & W/o Debashish Chakraborty, R/O: 7 Chandra Prabha Nagar, Dimna, P.O:MG Medical College, Jamshedpur - 831018 Changed My Name As - Reena Chakravarty & Both is Same Person.

NOTICE

That my client Tapan Dey presently residing at Borehi Bagadia, Bankura, West Bengal-722136, Director of Tashi Lhendup Enterprises Pvt. Ltd. has lost one Original Copy dated 27.08.2010 bearing No. 0684 of the year 2010 and also lodged a General Diary in the Bishnupur Police Station on 20.03.2023 vide GD Entry No. 1906 of 2023.

FOR THE RECOVERY OFFICER - DEBTS DEBTS RECOVERY TRIBUNAL KOLKATA (DR) 3 8th Floor, Jeevan Swaha Building, 42-C, Jawaharlal Nehru Road, Kolkata-700071.

STATE BANK OF INDIA

VS AMIT KUMAR DAS (CO) AMIT KUMAR DAS, LATE ASIT DAS RESIDING AT - JANANAGAR, EAST TARAPURKUR MAIN ROAD, AGARPARA, PIN - 700109 NORTH TWENTY FOUR PARGANAS

CHANGE OF NAME

I. Arati Mondal W/o. Ex. No. 13852703X, NK, Birendra Nath Mondal resided at Vill.-Bromantar Krishnagar, P.O.-Dinur, P.S.-Lalgola, Dist.-MSD I have changed my name from Arati Rani & age 1952 to Arati Mondal & D.O.B-01/01/1962 vide affidavit dt-14/03/2023 before SDEM (S) Court, Berhampore, Murshidabad.

NOTICE

That my client Tapan Dey presently residing at Borehi Bagadia, Bankura, West Bengal-722136, Director of Tashi Lhendup Enterprises Pvt. Ltd. has lost one Original Copy dated 27.08.2010 bearing No. 0684 of the year 2010 and also lodged a General Diary in the Bishnupur Police Station on 20.03.2023 vide GD Entry No. 1906 of 2023.

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STATE BANK OF INDIA

VS AMIT KUMAR DAS (CO) AMIT KUMAR DAS, LATE ASIT DAS RESIDING AT - JANANAGAR, EAST TARAPURKUR MAIN ROAD, AGARPARA, PIN - 700109 NORTH TWENTY FOUR PARGANAS

Pharmaceuticals & Medical Devices Bureau of India (PMBI) (Under Department of Pharmaceuticals, Govt. of India) e-TENDER FOR SUPPLY OF DRUGS ON RATE CONTRACT BASIS FOR TWO YEARS

Employees' State Insurance Corporation (Ministry of Labour & Employment, Govt. of India) CORRIGENDUM / EXTENSION OF LAST DATE FOR SUBMISSION OF TENDER

NOTICE

I is notified that Calstar Sponge Limited has its Registered Office at 15, R.N. Mukherjee Road, Post Office - Kolkata GPO, Police Station - Hare Street, Kolkata-700021 is the owner of ALL THAT the piece and parcel of land at Mouza-Iraiz, J.I. No.38, L.R. Dug. Nos. 3/2141, 3/2285, 4, 5, 15, 16, 26, 29, 32, 31, 123, 124, 125, 59/2026, 126, 6, 17, 18, 32/143, 3/2445, 12, 24, 25, 35, 9/2156, 9/2146, 9/2147, 9/2149, 45, 46, 47, 9, 9/2145, 43, 37, 38, 40, 41, 6, 10/3029/7, 42, 44, 36, 21, 22, 23, 33, 34, Police Station-Jamunia, District - Paschim Bardhaman, West Bengal.

NOTICE INVITING TENDER

No. 02 of 2022-23 of the Assistant Engineer (A-I) Kalra-II (A-I) Sub-Division On behalf of the Governor of West Bengal 01 (One) no. sealed tender against 06 (Six) slips for supply of different Store materials for maintenance of DTW/MDTW/MDTW under Kalra-II (A-I) Sub-Division in Purba Bardhaman district in WB. Form No. 2608 is invited by the Assistant Engineer (A-I), Kalra-II (A-I) Sub-Division, Siramouk Purba Bardhaman from the bonafied and resourceful agencies with sound technical and financial capabilities and having experience of similar type of work as mentioned in the said N.I.T. For details of each group like Name of work, Eligibility criteria, Earnest money, Estimated amount etc. may be available from this office on any working day from 11:00 A.M. to 2:00 P.M. Last Date of Application is 03.04.2023 up to 2.00 P.M. and availability of tender documents for the NIT is 06.04.2023 up to 2.00 P.M.

EASTERN RAILWAY

E-Tender Notice No.: EA/TCT/149/22-23 Inviting Date: 17.03.2023. Tenders (Open) are invited by the Divisional Railway Manager, Eastern Railway, Asansol Station Road, Pin-713301 for the following work: Case No. : 1-05-AC-1149-22-23. 01 lot of work: Gown tender for bonafide work of all zonal works from Jasidih (including) to Jhajha (excluding) in STN-I/A Sub-Division (including) to Bahadurganj (including) & Bmp; Dugha (including) to Bunkal (including) includes all service buildings & emp. colonies etc. and including level crossing, road work, wood works, pipe laying and sanitary works under SDE/Works/Jasidih in zone no. 21 of Asansol Division for the period ending on 30.06.2023. Tender value: ₹ 72,36,234.92. Earnest money: ₹ 1,44,700. Completion period for the work: 03 months. Date and time of closure: 14.04.2023 at 12.00 hrs. Complete details can be seen in the Railways website www.rosp.gov.in

FOSECO INDIA LIMITED Regd. Office: Gat Nos. 922 & 923, Sanaswadvi, Taluka Shirur, District Pune - 412 208, INDIA. Website: www.fosecoindia.com. Email id: investor@fosecovision.com

NOTICE

I. Arati Mondal W/o. Ex. No. 13852703X, NK, Birendra Nath Mondal resided at Vill.-Bromantar Krishnagar, P.O.-Dinur, P.S.-Lalgola, Dist.-MSD I have changed my name from Arati Rani & age 1952 to Arati Mondal & D.O.B-01/01/1962 vide affidavit dt-14/03/2023 before SDEM (S) Court, Berhampore, Murshidabad.

NOTICE

That my client Tapan Dey presently residing at Borehi Bagadia, Bankura, West Bengal-722136, Director of Tashi Lhendup Enterprises Pvt. Ltd. has lost one Original Copy dated 27.08.2010 bearing No. 0684 of the year 2010 and also lodged a General Diary in the Bishnupur Police Station on 20.03.2023 vide GD Entry No. 1906 of 2023.

FOR THE RECOVERY OFFICER - DEBTS DEBTS RECOVERY TRIBUNAL KOLKATA (DR) 3 8th Floor, Jeevan Swaha Building, 42-C, Jawaharlal Nehru Road, Kolkata-700071.

STATE BANK OF INDIA

VS AMIT KUMAR DAS (CO) AMIT KUMAR DAS, LATE ASIT DAS RESIDING AT - JANANAGAR, EAST TARAPURKUR MAIN ROAD, AGARPARA, PIN - 700109 NORTH TWENTY FOUR PARGANAS

FOR THE RECOVERY OFFICER - DEBTS DEBTS RECOVERY TRIBUNAL KOLKATA (DR) 3 8th Floor, Jeevan Swaha Building, 42-C, Jawaharlal Nehru Road, Kolkata-700071.

STATE BANK OF INDIA

VS AMIT KUMAR DAS (CO) AMIT KUMAR DAS, LATE ASIT DAS RESIDING AT - JANANAGAR, EAST TARAPURKUR MAIN ROAD, AGARPARA, PIN - 700109 NORTH TWENTY FOUR PARGANAS

NOTICE

A. RECORD DATE FOR INCOME DISTRIBUTION CUM CAPITAL WITHDRAWAL (IDCW) NOTICE is hereby given that Sundaram Trustee Company Limited, the Trustee to Sundaram Mutual Fund, has declared Income Distribution cum capital withdrawal (IDCW) on the face value of ₹ 10/- under the following scheme:

NOTICE

B. NOTICE - cum - ADDENDUM to the Scheme Information Document / Key Information Memorandum / Statement of Additional Information to the schemes of Sundaram

FOR THE RECOVERY OFFICER - DEBTS DEBTS RECOVERY TRIBUNAL KOLKATA (DR) 3 8th Floor, Jeevan Swaha Building, 42-C, Jawaharlal Nehru Road, Kolkata-700071.

STATE BANK OF INDIA

VS AMIT KUMAR DAS (CO) AMIT KUMAR DAS, LATE ASIT DAS RESIDING AT - JANANAGAR, EAST TARAPURKUR MAIN ROAD, AGARPARA, PIN - 700109 NORTH TWENTY FOUR PARGANAS

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STATE BANK OF INDIA

VS AMIT KUMAR DAS (CO) AMIT KUMAR DAS, LATE ASIT DAS RESIDING AT - JANANAGAR, EAST TARAPURKUR MAIN ROAD, AGARPARA, PIN - 700109 NORTH TWENTY FOUR PARGANAS

Table with columns: Scheme Name, Plan-Option, Record Date, Amount of IDCW* (₹ Per Unit), NAV per unit as on March 20, 2023 (₹). Rows include Sundaram Diversified Equity with Regular-IDCW and Direct-IDCW options.

Table with columns: Branch, Existing Address, New Address with effect from April 1, 2023. Lists Sundaram Asset Management Company Ltd. branches in Dehradun and Baroda.

For Sundaram Asset Management Company Ltd R Ajith Kumar Company Secretary & Compliance Officer

ANNEXURE-18

To,
The District Magistrate,
Dist-Paschim Bardhaman

Date: 24.03.2023

Sub: Information on grant of Environmental Clearance (EC) for the "Amalgamation & Modification cum Expansion by M/s Eloquent Steel Pvt. Ltd. For 336,000 TPA Billet Production along with Rolling Mill for production of 210,000 TPA Rolled Product, Installation of 150,000 TPA Briquette Plant, 108,000 TPA Sinter Plant and addition of Pig Iron as product from the Existing Submerged Arc Furnace, located at Village: Nakrajoria, P.O.: Salanpur, District: Paschim Bardhaman, West Bengal."

Ref: EC Letter vide F. No. - J-11011/188/2011-IA.II(I), dated 16.03.2023


Dear Sir,

With respect to the subject and above cited reference this to inform that we have obtained Environmental Clearance (EC) from Ministry of Environment, Forest and Climate Change, Govt. of India, vide F. No. J-11011/188/2011-IA.II(I), dated 016.03.2023, for Amalgamation & Modification cum Expansion by M/s Eloquent Steel Pvt. Ltd. For 336,000 TPA Billet Production along with Rolling Mill for production of 210,000 TPA Rolled Product, Installation of 150,000 TPA Briquette Plant, 108,000 TPA Sinter Plant and addition of Pig Iron as product from the Existing Submerged Arc Furnace, located at Village: Nakrajoria, P.O.: Salanpur, District: Paschim Bardhaman, West Bengal."

In compliance of the directions stipulated in the 'Miscellaneous Condition No. ii' a copy of obtained Environmental Clearance is attached herewith for your kind information and necessary consideration please.

Thanking you and with regards,

For Eloquent Steel Pvt. Limited


(Authorized Signatory)



Encl: As mentioned above

To,
The General Manager,
D.I.C., Paschim Bardhaman.

Date: 24.03.2023

Sub: Information on grant of Environmental Clearance (EC) for the "Amalgamation & Modification cum Expansion by M/s Eloquent Steel Pvt. Ltd. For 336,000 TPA Billet Production along with Rolling Mill for production of 210,000 TPA Rolled Product, Installation of 150,000 TPA Briquette Plant, 108,000 TPA Sinter Plant and addition of Pig Iron as product from the Existing Submerged Arc Furnace, located at Village: Nakrajoria, P.O.: Salanpur, District: Paschim Bardhaman, West Bengal."

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In compliance of the directions stipulated in the 'Miscellaneous Condition No. ii' a copy of obtained Environmental Clearance is attached herewith for your kind information and necessary consideration please.

Thanking you and with regards,

For Eloquent Steel Pvt. Limited

(Authorized Signatory)

GDOJ
27-03-2023
Received (Contents not Verified)
Ann. Ind. Dev. Cell & Sub-DIC, Durgapur
Durgapur, Govt. of West Bengal

Encl: As mentioned above

To,

Date: 24.03.2023

The Pradhan

Salanpur Gram Panchayat,

Dist-Paschim Bardhaman

Sub: Information on grant of Environmental Clearance (EC) for the "Amalgamation & Modification cum Expansion by M/s Eloquent Steel Pvt. Ltd. For 336,000 TPA Billet Production along with Rolling Mill for production of 210,000 TPA Rolled Product, Installation of 150,000 TPA Briquette Plant, 108,000 TPA Sinter Plant and addition of Pig Iron as product from the Existing Submerged Arc Furnace, located at Village: Nakrajoria, P.O.: Salanpur, District: Paschim Bardhaman, West Bengal."

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In compliance of the directions stipulated in the 'Miscellaneous Condition No. ii' a copy of obtained Environmental Clearance is attached herewith for your kind information and necessary consideration please.

Thanking you and with regards,

For Eloquent Steel Pvt. Limited

(Authorized Signatory)



Encl: As mentioned above

To,
The Block Development Officer,
Salanpur Development Block,
Dist-Paschim Bardhaman.

Date: 24.03.2023

Sub: **Information on grant of Environmental Clearance (EC) for the "Amalgamation & Modification cum Expansion by M/s Eloquent Steel Pvt. Ltd. For 336,000 TPA Billet Production along with Rolling Mill for production of 210,000 TPA Rolled Product, Installation of 150,000 TPA Briquette Plant, 108,000 TPA Sinter Plant and addition of Pig Iron as product from the Existing Submerged Arc Furnace, located at Village: Nakrajoria, P.O.: Salanpur, District: Paschim Bardhaman, West Bengal."**

Ref: EC Letter vide F. No. - J-11011/188/2011-IA.II(I), dated 016.03.2023


Dear Sir,

With respect to the subject and above cited reference this to inform that we have obtained Environmental Clearance (EC) from Ministry of Environment, Forest and Climate Change, Govt. of India, vide F. No. J-11011/188/2011-IA.II(I), dated 016.03.2023, for Amalgamation & Modification cum Expansion by M/s Eloquent Steel Pvt. Ltd. For 336,000 TPA Billet Production along with Rolling Mill for production of 210,000 TPA Rolled Product, Installation of 150,000 TPA Briquette Plant, 108,000 TPA Sinter Plant and addition of Pig Iron as product from the Existing Submerged Arc Furnace, located at Village: Nakrajoria, P.O.: Salanpur, District: Paschim Bardhaman, West Bengal."

In compliance of the directions stipulated in the 'Miscellaneous Condition No. ii' a copy of obtained Environmental Clearance is attached herewith for your kind information and necessary consideration please.

Thanking you and with regards,

For Eloquent Steel Pvt. Limited


(Authorized Signatory)

Encl: As mentioned above

To,
The Sub-Divisional Officer,
Asansol Sub-Division,
Dist - Paschim Bardhaman.

Date: 24.03.2023

Sub: Information on grant of Environmental Clearance (EC) for the "Amalgamation & Modification cum Expansion by M/s Eloquent Steel Pvt. Ltd. For 336,000 TPA Billet Production along with Rolling Mill for production of 210,000 TPA Rolled Product, Installation of 150,000 TPA Briquette Plant, 108,000 TPA Sinter Plant and addition of Pig Iron as product from the Existing Submerged Arc Furnace, located at Village: Nakrajoria, P.O.: Salanpur, District: Paschim Bardhaman, West Bengal."

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In compliance of the directions stipulated in the 'Miscellaneous Condition No. ii' a copy of obtained Environmental Clearance is attached herewith for your kind information and necessary consideration please.

Thanking you and with regards,

For Eloquent Steel Pvt. Limited


(Authorized Signatory)

Encl: As mentioned above

Govt. of West Bengal
Office of the S. D. M., Asansol
24.03.2023
Signature of [Name]



SHAKAMBHARI
GROUP

ELOQUENT STEEL PRIVATE LIMITED

CIN: U51909WB2012PTC185734 | GSTIN: 19AADCE1766F1ZN | PAN: AADCE1766F | State: West Bengal | State Code: 19

To,

Date: 24.03.2023

The Salanpur Panchayat Samity,

Dist – Paschim Bardhaman

Sub: **Information on grant of Environmental Clearance (EC) for the “Amalgamation & Modification cum Expansion by M/s Eloquent Steel Pvt. Ltd. For 336,000 TPA Billet Production along with Rolling Mill for production of 210,000 TPA Rolled Product, Installation of 150,000 TPA Briquette Plant, 108,000 TPA Sinter Plant and addition of Pig Iron as product from the Existing Submerged Arc Furnace, located at Village: Nakrajoria, P.O.: Salanpur, District: Paschim Bardhaman, West Bengal.”**

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In compliance of the directions stipulated in the ‘Miscellaneous Condition No. ii’ a copy of obtained Environmental Clearance is attached herewith for your kind information and necessary consideration please.

Thanking you and with regards,

For Eloquent Steel Pvt. Limited


(Authorized Signatory)



Encl: As mentioned above

ANNEXURE-19
(Environmental data information display)

ENVIRONMENTAL DATA INFORMATION DISPLAY BOARD



M/S ELOQUENT STEEL PVT. LIMITED
VILL- NARRATORBA, P.O. & P.S. - SALANPUR, DIST., PASCHIM BARDHAMAN, WB-713317

ENVIRONMENTAL INFORMATION

CONSENT TO OPERATE:
I- MEMO NO. 195-WPBA/Red/Swa/Cont/581/97 DATED: 08.05.2023

HAZARDOUS WASTE AUTHORIZATION:
I- MEMO NO. 112/25 (HW)-35/20/2022 DATED 29.09.2022

STACK ANALYSIS REPORT AS ON:

| PARAMETERS | SEAF No.1 (75 MVA) | SEAF No.2 (75 MVA) | SEAF No.3 (75 MVA) | SEAF No.4 (55 MVA) |
|--------------------------|--------------------|--------------------|--------------------|--------------------|
| PM (mg/Nm ³) | 23.45 | 25.41 | 28.38 | 24.88 |

FUGITIVE EMISSION ANALYSIS REPORT AS ON:

| PARAMETERS | Raw Material Handling Yard | Inside the Puro Division (North Side) | Inside the Puro Division (South Side) | Scrap Metal Recovery Plant (MRP) |
|--------------------------------------|----------------------------|---------------------------------------|---------------------------------------|----------------------------------|
| SPM (µg/m ³) | 310.52 | 380.16 | 262.56 | 230.12 |
| SO _x (µg/m ³) | 16.52 | 11.26 | 12.52 | 7.80 |
| NO _x (µg/m ³) | 26.20 | 26.60 | 25.0 | 29.62 |

EFFLUENT WATER TEST REPORT AS ON:


| PARAMETERS | pH Value | TS (mg/l) | Oil & Grease (mg/l) | Chemical Oxygen Demand (mg/l) | Biochemical Oxygen Demand (mg/l) |
|------------|----------|-----------|---------------------|-------------------------------|----------------------------------|
| RESULTS | 6.90 | 20.0 | <1.0 | 60.0 | 2.0 |

AMBIENT AIR ANALYSIS REPORT (INDUSTRIAL) AS ON:

| PARAMETERS RESULTS | PM ₁₀ (µg/m ³) | PM _{2.5} (µg/m ³) | SO _x (µg/m ³) | NO _x (µg/m ³) |
|--------------------|---------------------------------------|--|--------------------------------------|--------------------------------------|
| MINIMUM | 45.10 | 66.72 | 12.60 | 29.20 |
| MAXIMUM | 47.84 | 77.80 | 15.12 | 36.53 |

AMBIENT NOISE STUDY (INDUSTRIAL) AS ON:

| PARAMETERS RESULTS | Day Time (dB(A)) | Night Time (dB(A)) |
|--------------------|------------------|--------------------|
| MINIMUM | 62.39 | 59.14 |
| MAXIMUM | 70.52 | 62.06 |



মেসার্স ইলোকোয়েন্ট স্টিল প্রাইভেট লিমিটেড
গ্রাম- নাররাজিয়া, পোষ্ট ও প.স- সালানপুর, জেলা- পশ্চিম বর্ধমান, পশ্চিমবঙ্গ- ৭১৩৩১৭

পরিবেশ সংক্রান্ত তথ্য

পরিচালনার জন্য সম্মতি:
1- MEMO NO. 195-WPBA/Red/Swa/Cont/581/97 DATED: 08.05.2023

বিপজ্জনক বর্জ্যের অনুমোদন:
1- MEMO NO. 152/25 (HW)-3675/2020 DATED 23.12.2022

চিমনী থেকে নির্গত গ্যাসীয় পদার্থের বিশ্লেষণাত্মক ফলাফল, তারিখ:

| প্যারামিটার | SEAF No.1 (75 MVA) এর নিঃস্র | SEAF No.2 (75 MVA) এর নিঃস্র | SEAF No.3 (75 MVA) এর নিঃস্র | SEAF No.4 (55 MVA) এর নিঃস্র |
|--------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| PM (mg/Nm ³) | 23.45 | 25.41 | 28.38 | 24.88 |

ফিউগিভিট এমিশনের বিশ্লেষণাত্মক ফলাফল, তারিখ:

| প্যারামিটার | স্ক্রাপ মেটাল হ্যান্ডলিং ইয়ার্ড | কোরোনা বিভাগের ভিতরে (উত্তর দিকে) | কোরোনা বিভাগের ভিতরে (দক্ষিণ দিকে) | স্ক্রাপ মেটাল হ্যান্ডলিং ইয়ার্ডের কাছে (পশ্চিম দিকে) |
|--------------------------------------|----------------------------------|-----------------------------------|------------------------------------|---|
| SPM (µg/m ³) | 310.52 | 380.16 | 262.56 | 230.12 |
| SO _x (µg/m ³) | 16.52 | 11.26 | 12.52 | 7.80 |
| NO _x (µg/m ³) | 26.20 | 26.60 | 25.0 | 29.62 |

বর্জ্য জলের বিশ্লেষণাত্মক ফলাফল, তারিখ:

| প্যারামিটার | pH মূল্য | টোটাল সলিডস (TSS) (mg/l) | অয়েল ও গ্রিেস (mg/l) | কেমিক্যাল অক্সিজেন ডিমান্ড (COD) (mg/l) | বায়োকেমিক্যাল অক্সিজেন ডিমান্ড (BOD) (mg/l) |
|-------------|----------|--------------------------|-----------------------|---|--|
| ফলাফল | 6.90 | 20.0 | <1.0 | 60.0 | 2.0 |

পরিবেষ্টিত বায়ুর বিশ্লেষণাত্মক ফলাফল (ইন্ডাস্ট্রিয়াল), তারিখ:

| প্যারামিটার ফলাফল | PM ₁₀ (µg/m ³) | PM _{2.5} (µg/m ³) | SO _x (µg/m ³) | NO _x (µg/m ³) |
|-------------------|---------------------------------------|--|--------------------------------------|--------------------------------------|
| সর্বনিম্ন | 45.10 | 66.72 | 12.60 | 29.20 |
| সর্বোচ্চ | 47.84 | 77.80 | 15.12 | 36.53 |

শব্দের মাত্রা অনুযায়ী (ইন্ডাস্ট্রিয়াল), তারিখ:

| প্যারামিটার ফলাফল | দিনের সময় (dB(A)) | রাতের সময় (dB(A)) |
|-------------------|--------------------|--------------------|
| সর্বনিম্ন | 62.39 | 59.14 |
| সর্বোচ্চ | 70.52 | 62.06 |