SHAKAMBHARI GROUP

ELOQUENT STEEL PRIVATE LIMITED

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

Ref: - ESPL/SMC/OCT-2024 TO MAR-2025

Date: 06.06.2025

To,

The Dy. Director General of Forest (DDGF)
GOI, MoEF&CC, Sub Office, Kolkata
IB-198, Salt Lake City, Sector-III, Kolkata – 700106

SUB: Six Monthly (Oct-2024 to March-2025) 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 Oct-2024 to March-2025) 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. Limited**

Authorized Signatory

Eloquent Steel Pvt. Ltd. Salanpur

Encl: as above

Copy to:

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

SIX MONTHLY COMPLIANCE REPORT

Name of the Project	:	**M/s ELOQUENT STEEL PVT. Limited** Village: Nakrajoria, P.O.: Salanpur, Dist.- Paschim Bardhaman, West Bengal.
Environmental Clearance Reference	:	**F. No.: J-11011/188/2011-IA. II(I)dated 16th March, 2023**
Period of Compliance Report	:	**October 2024- March 2025.**

S. No.	CONDITIONS	COMPLIANCE STATUS
	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 complied. Environmental protection measures and safeguards proposed in EIA/EMP in respect to environmental management, and risk mitigation measures are implemented or in the process of implementation. Accordingly, Concretization internal roads has been started and is under progress. Pollution Control Device for SMS, Briquette and Sinter Plant has been done and efficiently operated. Augmentation of existing bag filters has been taken in priority. Renovation of rain water harvesting pond has been done. Water sprinkling on plant and surrounding roads being done during dry weather condition. Social forestry program and developmental activities based on our commitment and public need being carried out.
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/had taken into considerations to adopt more carbon efficient technologies available in the market at planning stage for integrations of new equipment and accordingly procurement of equipment has been initiated. 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. Direct charging of hot billet from SMS unit to rolling mill has been considered and reheating of MS billets not being done, it plays a very significant role in carbon sequestration. Proposed reheating furnace has not been installed yet at this stage.
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 impact due to industrial effluent. Renovation of drainage system of the company is under progress so as to maintain the natural flow parameters and to control the soil erosion.

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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. c) Used refractories shall be recycled as far as possible	Proper handling and storage of solid waste being done. a) No fly ash being generated from the plant operation, therefore fly ash brick making plant is not envisaged. b) Recycle and reuse of solid waste being/shall be ensured with best possible efforts. Ferro Manganese (Fe-Mn) Slag being used for the manufacturing of 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 being/shall be compiled with implementation of new projects. Capacity of pollution control devices has been decided so as to control emission level well within 30 mg/Nm3. Pollution control devices of existing project are already been installed and operated efficiently complying with standards set by 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 is being/shall be complied. Direct Hot charging of MS billets from SMS unit has been started 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 / will 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 outside source. Rain water harvesting pond photographs 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	Noted. Dense plantation towards Dendua village has been done. Regular water sprinkling during dry weather

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	safeguard measures to minimise the impact on the habitation of the locals. The PP shall also include these locations in its environmental monitoring programme.	condition being done. This village has already been taken under environmental monitoring programme.
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 is committed to complete its commitment made for the village. Road side plantation has been started in previous year monsoon season and it shall be continued till the satisfactory growth of the plants. Renovation of village pond at Nakrajoria has been completed for rain water harvesting and other activities has been taken in to consideration to complete in the time bound manner for development of the Nakrajoria village.
xii.	SAFs shall have 4th 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. No any Fe-Cr slag generated during the compliance period. Only Fe-Mn & Si-Mn productions carried out in this compliance period. Latest TCLP test report of the existing generated SAF slag is enclosed as **Annexure-4**
xiv.	Briquetting and Jigging plant shall be installed in Ferro Alloys Plant.	Complied. It has been installed.
xv.	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.	It is being/shall be complied as per E-Waste Management & handling Rules 2016 and it subsequent amendments.
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 and regular maintenance being done. 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 and work is under progress. **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	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

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	for sewage water handling to ensure no contamination of any kind of water body.	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 has been started and it 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. EMP are under implementation with execution of proposed project activities and it shall be implemented as per commitments made during public hearing. Company is regularly contributing towards welfare activities in surrounding villages.
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 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.	It is being complied. Single used plastic 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. Regular campaigning against SUP shall be conducted for more effective compliance of guidelines and notification date 12/08/2021 of Hon'ble Ministry.
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, absorbers, 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	Proper air pollution control device (APCDs) like bag filters, dust extraction system, water sprinklers, are provided to maintain clean air environment. Adequate nos. of water sprinklers are provided in the project area. For the suppression of dust due to vehicular movements on the roads, movable water tanker being deployed during dry weather condition inside the plant and surrounding of the plant area.

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	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.	During transportation of raw material vehicles being/will be covered properly by the tarpaulin to control the spillage and 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). 3x25 T IF, 600TPD rolling mill, 1x25 TPH briquetting plant and 300TPD sinter plant has been installed and CTO obtained from WBPCB Existing project of SAF is already under operation with valid CTO obtained from WBPCB. Copies of CTE and CTOs are 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 31st 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 (fugitive emission) 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, so as to comply prescribed stack emission and fugitive emission standards.	Air pollution control devices i.e. bag filters along with dust extraction system and water sprinkling system for effective dust suppression have been installed and efficiently operated to control emission level well 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.	It is 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 has been provided.

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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.
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 practiced 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 for adequate air changes for all tunnels, motor houses, Oil Cellars.
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 31st 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.	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 Dendua & Nakrajoria village is attached as **Annexure-11.**
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) 31st March 2012 (applicable to IF/EAF) as amended from time to time.	Effluent treatment system has been provided for effluent of rolling mills. Recycle and reuse practice of colling water is adapted with necessary treatment by passing through settling and filtration system.

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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 like coal being kept under the shed, iron stock pills are being covered under tarpaulin. Proper drainage system has been made to trap the contaminated water. Garland drains shall be implemented.
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 be complied. Noise quality monitoring being done on regular basis as per 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 are equipped with LED lights. For the minimization of electric energy consumption company has proposed the installation of solar panel and it shall be installed.
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. Attached as **Annexure-14.** Continued 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		
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 is attached as **Annexure-15**

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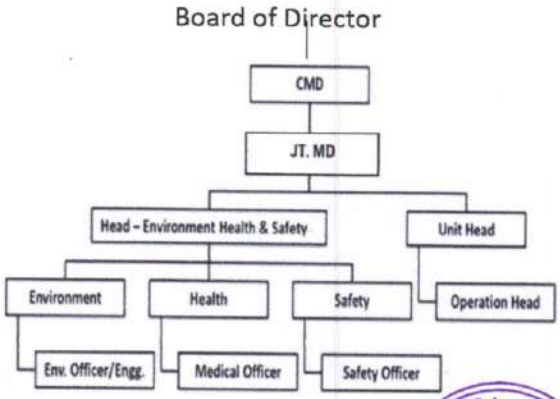
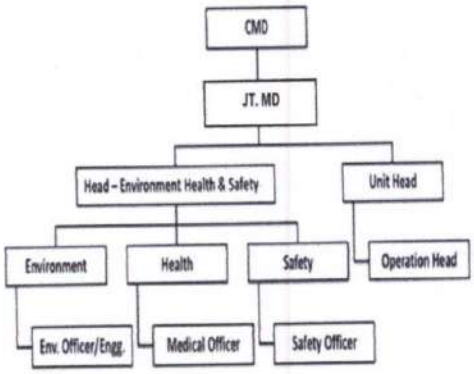
ii.	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	Personal Protection Equipment (PPE) like safety shoes, hand gloves, face shield, apron etc. being provided 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 are 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. Work zone air monitoring being done periodically on regular basis. Reports are attached as **Annexure-10**
IX. Environment Management		
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/youth, tree plantation program etc. It shall be more effectively implemented to comply the directions of socio -economic development for the benefit of local community. Some photographs of public welfare work are attached as **Annexure-17.**
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: 

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.	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- 
X. Miscellaneous		
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.	It has been complied Granted EC copy has been available as 'Environmental Orders' on the company website permanently. http://shakambhariispat.com/environmental-orders
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.	Complied.
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.	Noted It is being/shall be complied. http://shakambhariispat.com/environmental-compliance
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.	It is being/shall be complied. Latest stack monitoring reports & ambient air monitoring report for criteria pollutants level namely; PM_{10}, SO_2, 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 -18.**

v.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	It shall be complied. Six-monthly compliance being submitted to MoEFCC sub office Kolkata on regular basis.
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. The environment statement for FY 2023-24 has been submitted and FY 2024-2025 will be Submitted to WBPCB with copy to MoEF&CC Sub office Kolkata and the report being uploaded on the company website as per direction.
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.	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 continued till its completion.
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 adhered.

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ANNEXURE- 1

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. – Paschim Bardhaman				Sampling Date	:	04.02.2025			
						Period of Analysis	:	18.02.2025 – 19.02.2025			
						Date of Issue	:	21.02.2025			
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/26/Feb./A/II	Report No.	:	ENV/26/Feb./TR(A)/II/24-25			

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	SEAF - No.1			
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	:	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	:	F. D. Cooler and Pulse Jet Bag Filter			

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.		RESULTS
1.	Concentration of SO_2	mg/Nm^3	IS 11255 (Part 2) : 2019	:	264.06
2.	Concentration of CO_2	% (v/v)	IS 13270 : 2019	:	2.2
3.	Concentration of CO	% (v/v)	IS 13270 : 2019	:	<1.0
4.	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	:	25.11

Remarks : Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharyya

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. AJOY PAUL
Quality Manager

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. – Paschim Bardhaman					Sampling Date	:	04.02.2025		
							Period of Analysis	:	18.02.2025 – 19.02.2025		
							Date of Issue	:	21.02.2025		
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/26/Feb./A/III		Report No.	:	ENV/26/Feb./TR(A)/III/24-25		

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	SEAF - No.2			
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	:	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	:	F. D. Cooler and Pulse Jet Bag Filter			

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.		RESULTS
1.	Concentration of SO_2	mg/Nm^3	IS 11255 (Part 2) : 2019	:	309.60
2.	Concentration of CO_2	% (v/v)	IS 13270 : 2019	:	2.6
3.	Concentration of CO	% (v/v)	IS 13270 : 2019	:	<1.0
4.	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	:	24.89

Remarks : Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharyya

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. AJOY PAUL
Quality Manager

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. – Paschim Bardhaman					Sampling Date	:	04.02.2025		
							Period of Analysis	:	18.02.2025 – 19.02.2025		
							Date of Issue	:	21.02.2025		
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/26/Feb./A/I		Report No.	:	ENV/26/Feb./TR(A)/I/24-25		

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	SEAF - No.3			
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	:	F. D. Cooler and Pulse Jet Bag Filter			

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.		RESULTS
1.	Concentration of SO_2	mg/Nm^3	IS 11255 (Part 2) : 2019	:	380.40
2.	Concentration of CO_2	% (v/v)	IS 13270 : 2019	:	2.4
3.	Concentration of CO	% (v/v)	IS 13270 : 2019	:	<1.0
4.	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	:	27.34

Remarks : Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharyya

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. AJOY PAUL
Quality Manager

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. – Paschim Bardhaman				Sampling Date	:	04.02.2025			
						Period of Analysis	:	18.02.2025 – 19.02.2025			
						Date of Issue	:	21.02.2025			
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/26/Feb./A/IV	Report No.	:	ENV/26/Feb./TR(A)/IV/24-25			

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	SEAF - No.4			
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	:	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	:	F. D. Cooler and Pulse Jet Bag Filter			

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.		RESULTS
1.	Concentration of SO_2	mg/Nm^3	IS 11255 (Part 2) : 2019	:	268.64
2.	Concentration of CO_2	% (v/v)	IS 13270 : 2019	:	2.6
3.	Concentration of CO	% (v/v)	IS 13270 : 2019	:	<1.0
4.	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	:	24.09

Remarks : Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharyya

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. AJOY PAUL
Quality Manager

ANNEXURE- 2

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

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

ELOQUENT STEEL PVT. LTD. SALANPUR

पश्चिमबङ्गा पश्चिम बंगाल WEST BENGAL

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.

Rajesh Ranjan
Executive Engineer (C)
Water, Tariff Cell
HQ'S Office, DVC, Kolkata

ANNEXURE- 3

RAIN WATER HARVESTING POND

ANNEXURE- 4

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/1287A/S/M/24-25
4.	Date of sampling	:	05.02.2025
5.	Reporting Date	:	28.02.2025
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	4.30
2.	Zinc (Zn)	EPA 1311 : 1992 / APHA 23rd Ed., 3111 B : 2017	mg./l	3.60
3.	Copper (Cu)	EPA 1311 : 1992 / EPA 3050 B, 1996/EPA 200.6 : 1998	mg./l	1.50
4.	Nickel (Ni)	EPA 1311 : 1992 / APHA 23rd Ed., 3111 B : 2017	mg./l	0.82
5.	Lead (Pb)	EPA 1311 : 1992 / EPA 3050 B, 1996/EPA 200.9 : 1998	mg./l	0.26
6.	Cadmium (Cd)	EPA 1311 : 1992 / EPA 3050 B, 1996/IS 3050 (Part 46)	mg./l	0.16
7.	Chromium (Cr)	APHA 23rd Ed., 3111 B : 2017	mg./l	0.10

Remarks : Result relates only to the sample tested.

Reviewed By :

DURBADAL CHAKRABORTY
Dy. Quality Manager

Authorised Signatory :

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

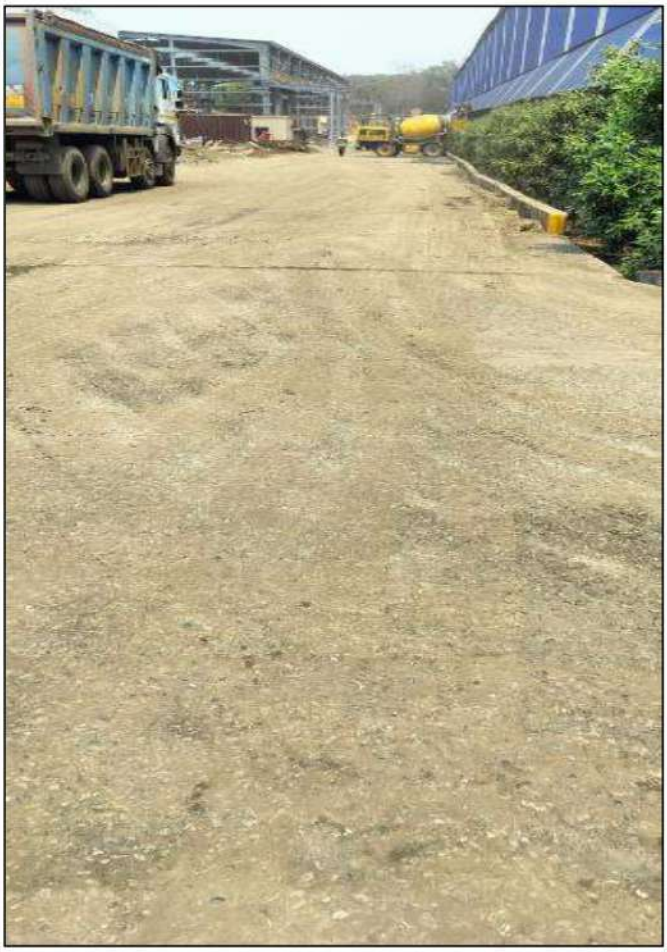
<End of Report>

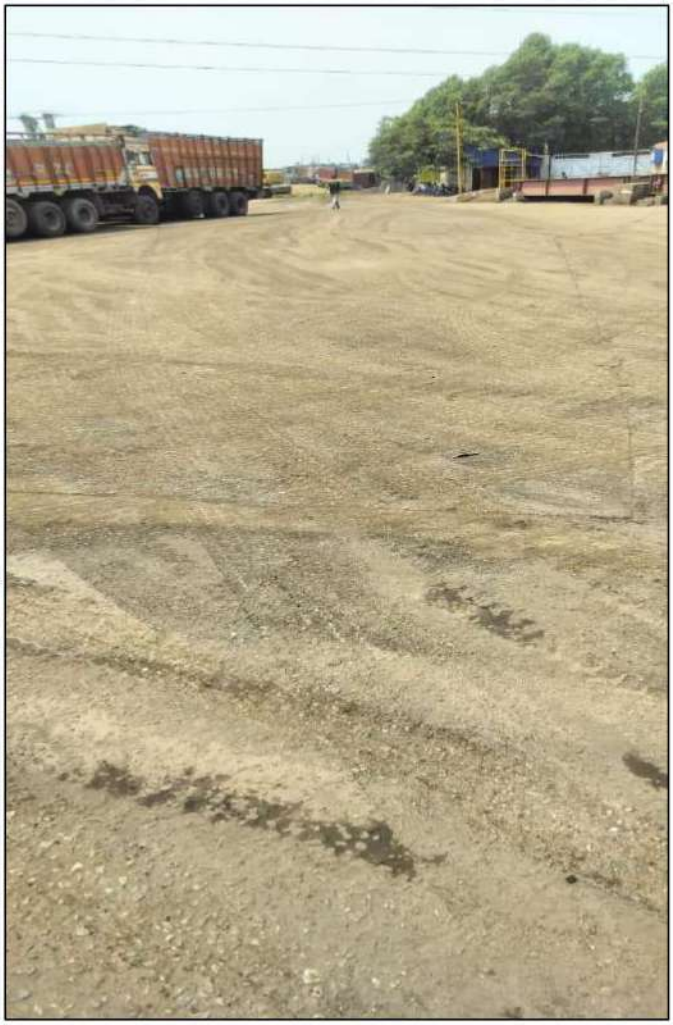
ANNEXURE- 5

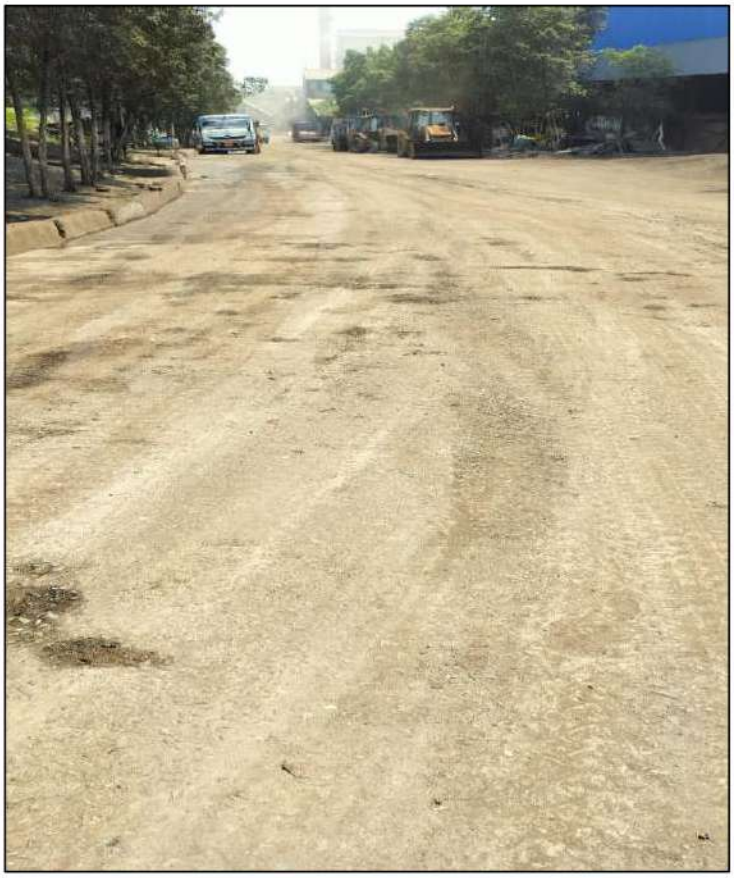
SOME PHOTOGRAPHS OF GREEN BELT

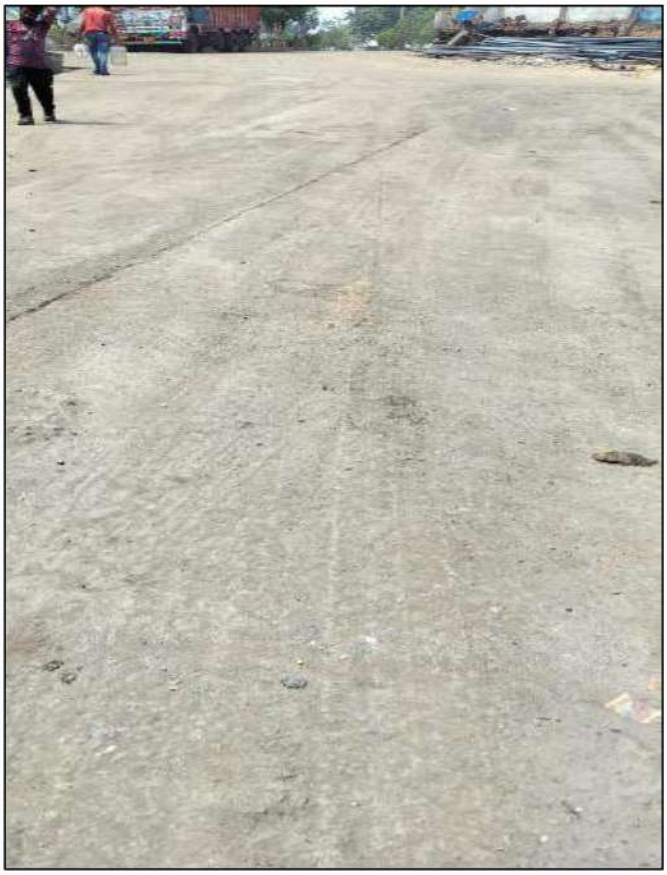
ANNEXURE- 6

RCC ROAD PHOTOGRAPHS









ANNEXURE- 7

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	:	04.02.2025
			Period of Analysis	:	21.02.2025 – 25.02.2025
			Date of Issue	:	26.02.2025

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 (After Treatment)	Sample ID No.	:	ENV/23/Feb./M/W	Report No.	:	ENV/23/Feb./M/TR(W)/24-25

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS
1.	pH	4500 H^+B APHA 23rd Edition, 2017	-	6.94
2.	Total Suspended Solids	2540 D APHA 23rd Edition, 2017	mg/l	31.78
3.	Oil & Grease	5520 B/D APHA 23rd Edition, 2017	mg/l	2.27
4.	Chemical Oxygen Demand	5220 B/C/D APHA 23rd Edition, 2017	mg/l	61.95
5.	Biochemical Oxygen Demand for 5 days at 20^0C	5210 B APHA 23rd Edition, 2017	mg/l	8.0

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 :

Indrani Bhattacharya

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. AJOY PAUL
Quality Manager

<End of Report>

ANNEXURE- 8

SPEED POST

NOC NO180715

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(I) 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 ak 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 factoy 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.

08/05/2023
Chief Engineer
W. B. Pollution Control Board
Dept. of Environment, Govt. of W.B.

NOC NO180715

7. You shall comply with
   (i) Water (Prevention and Control of Pollution) Cess Act, 1977, if applicable.
   (ii) Water (Prevention and Control of Pollution) Cess Act, 1978, if applicable.
   (iii) Environment (Protection) Act, 1986
   (iv) Environment (Protection) Rules, 1986
   (v) Hazardous Wastes (Management and Handling) Rules, 1989 and Amended Rules, 2000
   (vi) Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 and Amended Rules, 2000
   (vii) Manufacture, Use, Import and Storage and Hazardous Micro-Organisms, Genetically Engineered Organisms or Cell Rules, 1989
   (viii) The Public Liability Insurance Act, 1991 and Amended Act, 1992
   (ix) The Public Liability Insurance Rules, 1991 and Amended Rules 1993
   (x) Biomedical Wastes (Management & Handling) Rules, 1998 and Amended Rules 2000 if applicable.
   (xi) Recycled Plastics Manufacture and Usage Rules 1999, if applicable and
   (xii) 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 :

i) Refer to Annexure attached herewith.

ii) 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.

08/05/2023

Member Secretary/Chief Engineer
West Bengal Pollution Control Board (EIM CELL)

Memo No. 241 -2N-68/2021(E) dtd. 08/05/2023 Dated.....

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

Copy forwarded for information to :

1. Chief Inspector of Factories, Government of West Bengal, N. S. Building, Kolkata-700 001
2. Director of Industries/Director of Cottage & Small Scale Industries, Government of West Bengal, N. S. Building. Kolkata-700 001
3. Guard file, West Bengal Pollution Control Board.
4. 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.

5. Alipore Regional Office
"Minority Bhawan", 5th Floor, 12, Biplabi Kanailal Bhattacharya Sarani, Alipore, Kolkata-700 027
Telefax No. 033-2448-5553
Tel No. 033-2448-5554

6. Asansol Regional Office
Kalyanpur Satelite 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

7. Barrackpore Regional Office
Panpur More, Kalyani Expressway, Vill.-Panpur, P.O.-Narayanpur, Dist.: 24-Parganas (N), Pin-743 126
Telefax No. 033-2580 0573

8. Durgapur Reginal Office
Sahid Khudiram Sarani, City Centre, Durgapur, Paschim Bardhaman-713 216.
Tel No. 0343-2546708
Telefax No. (0343) 2544915

9. Haldia Regional Office
Mouza : Raghunathchak, PS : Bhabanipur (Formerly Sutahata), PO : Barghasipur
Dist. Purba Medinipur, Pin : 721 657
Tel No. 03224-291293/94

10. Hooghly Regional Office
Himalaya Bhawan, Delhi Road, Dankuni, Hooghly, Pin : 712 311
Telefax No. 033-2659-0957

11. Howrah Regional Office
"Minority Bhawan", 5th Floor, 12, Biplabi Kanailal Bhattacharya Sarani, Alipore, Kolkata-700 027
Tel No. 033-2448-2219/2220

12. 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

13. Malda Regional Office
Paribesh Bhaban, Vill.: Abhirampur, P.O.: Mokdumpur, P.S.: English Bazar, Malda-732 103
Tel No. 03512-223449

14. 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

15. Siliguri Regional Office
Paribahan Nagar, P.O.: Matigara, Siliguri, Darjeeling, Pin-734 010
Tel No. 0353-257 1115
Telefax No. 0353-257 1113

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/Facility	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				
		Conf. & Capacity	Conf. & Capacity	Conf. & Capacity	Conf. & Capacity	Configuration Capacity TPA	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	600TPD		-
						2,10,000 Rolled Products (TMT Bar, MS Round & Wire Rod)	2,10,000 Rolled Products (TMT Bar, MS Round & Wire Rod)		
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		

08/05/2023

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	

08/05/2023

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.

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, GoI, vide EC Identification No. – EC23A008WB135416 File No. – J-11011/188/2011-IA.II(I) dated 16/03/2023 be strictly compiled with.

XII. This 'Consent to Establish' is valid up to 31.**05.2030** for setting up the unit.

05/05/2023

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 Eloquent 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 - Salanpur, 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.

West Bengal Pollution Control Board ★ Asansol Regional Office Seal

For and on behalf of the State Board

08/5/23

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

ANNEXURE

Consent to M/s Eloquent Steel Private Limited

for its unit at vill- Nakrajoria, PO & PS- Salanpur, 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 4.0 KL.

05. **Daily** discharge of mixed (industrial & domestic) liquid effluent shall not exceed - KL.

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.

08/05/23

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

Continued.....

nt to M/s Eloquent Steel Private Limited

its unit at vill- Nakrajoria, PO & PS- Salanpur, 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.	

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 (Water used for gardening should be included in this category of use) → 367.0 KL
- 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.

08/5/23

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

Continued.....

Consent to M/s Eloquent Steel Private Limited

for its unit at vill- Nakrajoria, P.O & P.S- Salanpur, 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 faciliate 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-I	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										

08/05/23

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

Continued.....

nsent to ..... M/s Eloquent Steel Private Limited .....

or 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		2 X 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 09/10 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

08/05/12

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

Continued.....

Consent to M/s Eloquent Steel Private Limited

for its unit at vill- Nakrajoria, 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 w.r.t environmental hazard caused by your permit.
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.

08/05/23

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

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

08/05/17

Environmental Engineer
Asansol Regional Office

Government of West Bengal

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Authorised Signatory
(E-signed)
Department of IT&E

WEST BENGAL POLLUTION CONTROL BOARD
Paribesh Bhawan, 10A, Block LA, Sector III
Salt Lake City, Bidhan Nagar, Kolkata – 700 106, INDIA
Website : www.wbpcb.gov.in, e-mail : wbpcbnet@wbpcb.gov.in

Category of the Industry : RED
Application Type: CTO
CTO No.: WBPCB/4029628/2023 **Date : 23/04/2024**

Consent to Operate (CTO) under 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.

Reference: Application No.: 4029628

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 Consent to **Eloquent Steel Pvt.Ltd** (hereinafter referred to as Applicant) for its unit located at **Vill-Nakrajoria, PO & PS-Salanpur, Dist-Paschim Bardhaman (WB),Pin-713357** for the period from **23/04/2024** to **30/04/2028** to operate the industrial unit/project and to discharge liquid effluent and gaseous emission from the premises / land of the industrial unit/project, in accordance with the conditions as mentioned below, provided that 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 this consent letter and in the Environment (Protection) Act, 1986 and Rules thereunder, as amended.

Breach of the conditions and / or failure to comply with the directions as mentioned below shall render the industry/project liable for prosecution under the provisions 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.

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 industry.

Conditions :

1 This Consent is valid for the following activities :

Sl.No	Name of Activity/Products/By-products	Production Capacity (Per Month)
1	Sinter 300 TPD (Ferro Div.)	9000 Metric Tonnes/Month
2	Briquette 1 X 25 TPH (Ferro Div.)	12500 Metric Tonnes/Month
3	Pig Iron from Existing 3x7.5 MVA+1x5.5 MVA SAFs with Metal Recovery Plant	6367 Metric Tonnes/Month

2 The industry shall remain responsible for quantity and quality of liquid effluent and air emission.

3 Daily waste water generation and discharge shall not exceed :

No. of outlets	Source of Waste Water	Quantity in Kilo Liters/day	Place of discharge
	Process & domestic	Nil	Recycle & reuse

4 To bring into any altered or new outlet / outfall or to change the place of discharge, the industry shall have to inform the Board and obtain prior permission of the Board in this effect.

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5 The industry 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 below:

Outlet No.	Nature of effluent	Parameters and standard			Frequency of sampling
		Parameters	Standards	Unit	

Provisions shall be made to install sensor-based Water Quality monitoring system and flow meter to share the information with the state board on a Real Time basis.

6 Daily water consumption for the following purposes shall not exceed

SL NO.	Purpose of Water Use	Quantity (KL/Day)
1.	Domestic	1.0
2.	Others(Dust Suppression)	6.0

7 The Industry shall install suitable digital device for measuring the volume of water consumed for different purposes as mentioned above giving correct result to the satisfaction of the State Board. The device shall be able to provide information to disseminate the quantity on a real time basis.

8 All the stacks connected to various sources of emissions must be designated by numbers.

9 The industry shall install comprehensive pollution control equipment and operate and maintain the same to conform to the standard as given below:

Stack height from ground level (m	Stack attached to emission sources	Capacity of emission source	Cons up-Unit	Fuel details		Control system(if any)	Concentrations of parameters not to exceed							Frequency of sampling	Remarks
				Fuel used	Quantity		PM(mg/Nm3)	CO(%)	Acid Mist(mg/Nm3)	Pb(mg/Nm3)	SO2(mg/Nm3)	NOX (mg/Nm3)	Others		
8.5	DG Set	500	KVA	HSD	Metric Tonnes/Day		150							Yearly	
8.5	DG Set	500	KVA	HSD	Metric Tonnes/Day		150							Yearly	
30	Furnace	300	Metric Tonnes/Day	Coke Fines	720 Metric Tonnes/Month	Cyclone separator & Bag Filter attached with Sinter Plant	30							Quarterly	
30	Bequeathing Plant	25	Metric Tonnes/Hour	LDO/ LSHS	221 Kilo Liters/ Month	Cyclone Separator and water spraying system attached with Briquette Plant	30							Quarterly	

10 The industry 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 authorized agencies.

11 Waste generation, treatment and disposal shall be as specified below :

S.No	Description of Waste	Quantity	Treatment and Disposal
1	APCD Dust from Sinter Plant	345 Metric Tonnes/Month	Shall be reused in Sinter Plant
2	APCD Dust From Briquetting Plant	580 Metric Tonnes/Month	Shall be reused in Briquetting plant
3	Pig Iron Slag	3100 Metric Tonnes/Month	Used in cement industries as raw material

The Industry shall obtain Authorisation for waste and also register for EPR wherever applicable.

12 The industry shall take adequate measures for control of noise level from its own sources within the premises within the limit given below :

Time	Limit in dB (A) Leq
Day time (06 a.m. to 10 p.m.)	65
Night time (10 p.m. to 06 a.m.)	55

Noise barriers should be installed if the Noise Level is found to be exceeding the desired levels.

13 The industry shall at all times maintain good house-keeping and control pollution (including fugitive emissions) from all sources to maintain clean environment in & around factory premises and in surrounding areas.

14 The Industry shall bring about at least 33% of the total land area under the tree cover.

15 The Industry shall provide sufficient alternate electric power source like Green DG or Storage Battery System etc. to operate all pollution control facilities. In absence of such alternate power source, the production shall be stopped/controlled to conform to the conditions of the Consent.

16 The industry shall install a separate energy meter showing the consumption of energy for operation of pollution control devices and shall install suitable device for measuring the volume of water consumed for different purposes as mentioned in Sl.No. 3.

17 The Industry shall provide drainage system for discharge of industrial and domestic effluent and a separate drainage system for storm-water.

18 The industry shall maintain a separate register showing consumption of chemicals used in pollution control systems.

19 The Industry shall get the samples of hazardous wastes / leachates analysed at least once in a year from a laboratory recognised by the West Bengal Pollution Control Board and ensure that they conform to the limits stipulated. Test reports shall be sent to the Board.

20 The Industry shall submit 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 by 30th September of every year, to the WBPCB.

21 The Industry shall allow the officers of the State Board to enter into the premises of the unit at any reasonable time to inspect the pollution control systems and shall provide adequate and safe facility for collection of air, wastewater and solid waste samples for monitoring by the State Board as well as by authorized agencies of the State Board, as and when required by them.

22 The industry shall maintain an Inspection Book in the factory premises which shall be made available to inspecting officers of the State Board for inspection, review and to write down any direction or observation as is deemed necessary during the inspection.

23 The Industry shall furnish to the State Board all information in respect of quality, quantity, rate of discharge, place of discharge of liquid effluent and air emission.

24 The Industryshall maintain adequate number of qualified and trained personnel among its staff for propermaintenance and operation of the effluent treatment and/or emission control devices and for overallenvironment management of the industry.

25 The Industry shall have to make registration for the use of groundwater if any, with State Water Investigation Directorate (SWID).

26 The Industry 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 quantity 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.

27 If the Industry is using Diesel Generator set or generating any other hazardous waste, it should install a Digital Display Board to discriminate all information as stipulated in this regard.

28 The industry shall make an application to the State Board in the prescribed form for renewal of the consent at lease 120 (one hundred & twenty) days before the date of expiry of this Consent.

29 The industry shall not make any alteration / expansion / modification in the existing manufacturing process and equipment, pollution control system and shall not alter or bring in any new outlet/outfall or stack or change the place of discharge, without prior approval of the Board.

30 The industry shall comply with all applicable Environmental Acts and Rules.

31 The Industry shall comply with the provisions of relevant Waste Management Rules and also submit Annual Returns / Manifests on regular basis.

32 Concealing factual data or submission of false or fabricated data/information may result in revocation of Consent to Operate and attract action under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981.

Special Conditions:

1.The unit shall operate in compliance with the conditions imposed in the EC issued by the MoEF&CC,GoI vide no. J-11011/188/2011-IA.II(I) dt. 16.03.2023 and NOC by the State Board vide no. 241-2N-68/ 2021(E) dt. 08.05.2023.

2.The National Ambient Air Quality Emission Standards issued by the MoEF&CC,GoI vide G.S.R.No.826(E) dt. 16.11.2009 shall be complied with.

3.Good house-keeping shall be maintained.

4.Necessary action shall be taken to control fugitive emission.

5.Green belt shall be developed as per the EC condition and compliance report shall be submitted to the State Board.

6.The EC and CTE conditions including plantation shall be fully complied with.

7.In case of non-compliance in meeting the PM emission standard for the briquette plant, the unit shall have to install bag filter for the same.

Any violation of the aforesaid conditions shall entail cancellation of this Consent for Operate.

For and on behalf of West Bengal Pollution Control Board

R Sinha

23/04/2024

Senior Environmental Engineer
Operation & Execution Cell

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Government of West Bengal

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Authorised Signatory
(E-signed)
Department of IT&E

WEST BENGAL POLLUTION CONTROL BOARD
Paribesh Bhawan, 10A, Block LA, Sector III
Salt Lake City, Bidhan Nagar, Kolkata – 700 106, INDIA
Website : www.wbpcb.gov.in, e-mail : wbpcbnet@wbpcb.gov.in

Category of the Industry : RED

Application Type: CTO

CTO No.: WBPCB/4932864/2024 **Date : 29/04/2024**

Consent to Operate (CTO) under 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.

Reference: Application No.: 4932864

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 Consent to **ELOQUENT STEEL PRIVATE LIMITED** (hereinafter referred to as Applicant) for its unit located at **Vill-Nakrajoria, PO-Salanpur, Dist-Paschim Bardhaman, Pin-713357** for the period from **29/04/2024** to **30/04/2028** to operate the industrial unit/project and to discharge liquid effluent and gaseous emission from the premises / land of the industrial unit/project, in accordance with the conditions as mentioned below, provided that 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 this consent letter and in the Environment (Protection) Act, 1986 and Rules thereunder, as amended.

Breach of the conditions and / or failure to comply with the directions as mentioned below shall render the industry/project liable for prosecution under the provisions 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.

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 industry.

Conditions :

1 This Consent is valid for the following activities :

Sl.No	Name of Activity/Products/By-products	Production Capacity (Per Month)
1	Rolled Product (TMT Bar, MS Round & Wire Rod) through 600TPD Rolling Mill	210000 Metric Tonnes/Year
2	MS Billets through 2x25 Ton Induction Furnace and 3x6/11m CCM	171500 Metric Tonnes/Year

2 The industry shall remain responsible for quantity and quality of liquid effluent and air emission.

3 Daily waste water generation and discharge shall not exceed :

No. of outlets	Source of Waste Water	Quantity in Kilo Liters/day	Place of discharge
	Process & domestic	Nil	Recycle & reuse. Zero discharge shall be maintained.

4 To bring into any altered or new outlet / outfall or to change the place of discharge, the industry shall have to inform the Board and obtain prior permission of the Board in this effect.

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5 The industry 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 below:

Outlet No.	Nature of effluent	Parameters and standard			Frequency of sampling
		Parameters	Standards	Unit	

Provisions shall be made to install sensor-based Water Quality monitoring system and flow meter to share the information with the state board on a Real Time basis.

6 Daily water consumption for the following purposes shall not exceed

SL NO.	Purpose of Water Use	Quantity (KL/Day)
1.	Cooling	1050.0
2.	Others(Dust Suppression)	135.0
3.	Domestic	10.0

7 The Industry shall install suitable digital device for measuring the volume of water consumed for different purposes as mentioned above giving correct result to the satisfaction of the State Board. The device shall be able to provide information to disseminate the quantity on a real time basis.

8 All the stacks connected to various sources of emissions must be designated by numbers.

9 The industry shall install comprehensive pollution control equipment and operate and maintain the same to conform to the standard as given below:

Stack height from ground level (m	Stack attached to emission sources	Capacity of emission source	Cons up-Unit	Fuel details		Control system(if any)	Concentrations of parameters not to exceed							Frequency of sampling	Remarks
				Fuel used	Quantity		PM(mg/Nm3)	CO(%)	Acid Mist(mg/Nm3)	Pb(mg/Nm3)	SO2(mg/Nm3)	NOX (mg/Nm3)	Others		
30	Induction furnace	50	Metric Tonne	Electricity	16 Mega watt		30							Quarterly	Stack & Bag Filter common with 2x25 T Induction Furnace

10 The industry 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 authorized agencies.

11 Waste generation, treatment and disposal shall be as specified below :

S.No	Description of Waste	Quantity	Treatment and Disposal
1	End Cuts/Misroll from Rolling Mill	580 Metric Tonnes/Month	Shall be reused in induction furnace
2	Mill Scale from Rolling Mill	140 Metric Tonnes/Month	Shall be used in IF/SAF/provided to recyclers
3	IF Slag	1755 Metric Tonnes/Month	Shall be used as aggregates for land filling/road making
4	IF Bag Filter Dust	278 Metric Tonnes/Month	Shall be used for land filling
5	MS Scale from SMS CCM	143 Metric Tonnes/Month	Shall be reused in induction furnace/shall be used for production of Fe-Si or Fe-Si-Cr.
6	MS Scrap from SMS CCM	368 Metric Tonnes/Month	Shall be reused in induction furnace

The Industry shall obtain Authorisation for waste and also register for EPR wherever applicable.

12 The industry shall take adequate measures for control of noise level from its own sources within the premises within the limit given below :

Time	Limit in dB (A) Leq
Day time (06 a.m. to 10 p.m.)	65
Night time (10 p.m. to 06 a.m.)	55

Noise barriers should be installed if the Noise Level is found to be exceeding the desired levels.

13 The industry shall at all times maintain good house-keeping and control pollution (including fugitive emissions) from all sources to maintain clean environment in & around factory premises and in surrounding areas.

14 The Industry shall bring about at least 33% of the total land area under the tree cover.

15 The Industry shall provide sufficient alternate electric power source like Green DG or Storage Battery System etc. to operate all pollution control facilities. In absence of such alternate power source, the production shall be stopped/controlled to conform to the conditions of the Consent.

16 The industry shall install a separate energy meter showing the consumption of energy for operation of pollution control devices and shall install suitable device for measuring the volume of water consumed for different purposes as mentioned in Sl.No. 3.

17 The Industry shall provide drainage system for discharge of industrial and domestic effluent and a separate drainage system for storm-water.

18 The industry shall maintain a separate register showing consumption of chemicals used in pollution control systems.

19 The Industry shall get the samples of hazardous wastes / leachates analysed at least once in a year from a laboratory recognised by the West Bengal Pollution Control Board and ensure that they conform to the limits stipulated. Test reports shall be sent to the Board.

20 The Industry shall submit 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 by 30th September of every year, to the WBPCB.

21 The Industry shall allow the officers of the State Board to enter into the premises of the unit at any reasonable time to inspect the pollution control systems and shall provide adequate and safe facility for collection of air, wastewater and solid waste samples for monitoring by the State Board as well as by authorized agencies of the State Board, as and when required by them.

22 The industry shall maintain an Inspection Book in the factory premises which shall be made available to inspecting officers of the State Board for inspection, review and to write down any direction or observation as is deemed necessary during the inspection.

23 The Industry shall furnish to the State Board all information in respect of quality, quantity, rate of discharge, place of discharge of liquid effluent and air emission.

24 The Industryshall maintain adequate number of qualified and trained personnel among its staff for propermaintenance and operation of the effluent treatment and/or emission control devices and for overallenvironment management of the industry.

25 The Industry shall have to make registration for the use of groundwater if any, with State Water Investigation Directorate (SWID).

26 The Industry 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 quantity 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.

27 If the Industry is using Diesel Generator set or generating any other hazardous waste, it should install a Digital Display Board to discriminate all information as stipulated in this regard.

28 The industry shall make an application to the State Board in the prescribed form for renewal of the consent at lease 120 (one hundred & twenty) days before the date of expiry of this Consent.

29 The industry shall not make any alteration / expansion / modification in the existing manufacturing process and equipment, pollution control system and shall not alter or bring in any new outlet/outfall or stack or change the place of discharge, without prior approval of the Board.

30 The industry shall comply with all applicable Environmental Acts and Rules.

31 The Industry shall comply with the provisions of relevant Waste Management Rules and also submit Annual Returns / Manifests on regular basis.

32 Concealing factual data or submission of false or fabricated data/information may result in revocation of Consent to Operate and attract action under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981.

Special Conditions:

1.The unit shall operate in compliance with the conditions imposed in the EC issued by the MoEF&CC,GoI vide no. J-11011/188/2011-IA.II(I) dt. 16.03.2023 and NOC by the State Board vide no. 241-2N-68/ 2021(E) dt. 08.05.2023.

2.The National Ambient Air Quality Emission Standards issued by the MoEF&CC,GoI vide G.S.R.No.826(E) dt. 16.11.2009 shall be complied with.

3.Good house-keeping shall be maintained.

4.Necessary action shall be taken to control fugitive emission.

5.Green belt shall be developed as per the EC condition and compliance report shall be submitted to the State Board.

6.The EC and CTE conditions including plantation shall be fully complied with.

Any violation of the aforesaid conditions shall entail cancellation of this Consent for Operate.

For and on behalf of West Bengal Pollution Control Board

29/04/2024

Senior Environmental Engineer
Operation & Execution Cell

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Government of West Bengal

This document having UDIN **25-G-GA000004-C-1736947269158** has been created by **WEST BENGAL POLLUTION CONTROL BOARD** with authorised person's Aadhaar no XXXXXXXX7589 on **06:51PM, January 15, 2025.**

This document is available at UDIN platform till 06:51PM, January 15, 2030.

Authorised Signatory
(E-signed)
Department of IT&E

WEST BENGAL POLLUTION CONTROL BOARD
Paribesh Bhawan, 10A, Block LA, Sector III
Salt Lake City, Bidhan Nagar, Kolkata – 700 106, INDIA
Website : www.wbpcb.gov.in, e-mail : wbpcbnet@wbpcb.gov.in

Category of the Industry : RED
Application Type: CTO
CTO No.: WBPCB/6077036/2024 **Date : 15/01/2025**

Consent to Operate (CTO) under 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.

Reference: Application No.: 6077036

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 Consent to **ELOQUENT STEEL PRIVATE LIMITED** (hereinafter referred to as Applicant) for its unit located at **Vill - Nakrajoria, P.O. - Salanpur, Dist. - Paschim Bardhaman, Pin - 713357.** for the period from **15/01/2025** to **30/04/2028** to operate the industrial unit/project and to discharge liquid effluent and gaseous emission from the premises / land of the industrial unit/project, in accordance with the conditions as mentioned below, provided that 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 this consent letter and in the Environment (Protection) Act, 1986 and Rules thereunder, as amended.

Breach of the conditions and / or failure to comply with the directions as mentioned below shall render the industry/project liable for prosecution under the provisions 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.

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 industry.

Conditions :

1 This Consent is valid for the following activities :

Sl.No	Name of Activity/Products/By-products	Production Capacity (Per Month)
1	MS Billet Production from 1x25T Induction Furnace (New Installation)	85677 Metric Tonnes/Year

2 The industry shall remain responsible for quantity and quality of liquid effluent and air emission.

3 Daily waste water generation and discharge shall not exceed :

No. of outlets	Source of Waste Water	Quantity in Kilo Liters/day	Place of discharge
No industrial waste water shall be discharged outside the factory premises	Waste water from cooling tower blowdown & softener backwash	25	Recycle & reuse

4 To bring into any altered or new outlet / outfall or to change the place of discharge, the industry shall have to inform the Board and obtain prior permission of the Board in this effect.

5 The industry 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 below:

Outlet No.	Nature of effluent	Parameters and standard			Frequency of sampling
		Parameters	Standards	Unit	

Provisions shall be made to install sensor-based Water Quality monitoring system and flow meter to share the information with the state board on a Real Time basis.

6 Daily water consumption for the following purposes shall not exceed

SL NO.	Purpose of Water Use	Quantity (KL/Day)
1.	Cooling	275.0

7 The Industry shall install suitable digital device for measuring the volume of water consumed for different purposes as mentioned above giving correct result to the satisfaction of the State Board. The device shall be able to provide information to disseminate the quantity on a real time basis.

8 All the stacks connected to various sources of emissions must be designated by numbers.

9 The industry shall install comprehensive pollution control equipment and operate and maintain the same to conform to the standard as given below:

Stack height from ground level (m	Stack attached to emission sources	Capacity of emission source	Cons up-Unit	Fuel details		Control system(if any)	Concentrations of parameters not to exceed							Frequency of sampling	Remarks
				Fuel used	Quantity		PM(mg/Nm3)	CO(%)	Acid Mist(mg/Nm3)	Pb(mg/Nm3)	SO2(mg/Nm3)	NOX (mg/Nm3)	Others		
30	Induction furnace	1X25	Metric Tonne	Electricity	6.5 Mega watt	Bag Filter	30	1						Quarterly	Common with existing Bag Filter & Stack installed for 2x25 T Induction Furnace Pollution Control System

10 The industry 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 authorized agencies.

11 Waste generation, treatment and disposal shall be as specified below :

S.No	Description of Waste	Quantity	Treatment and Disposal
1	MS Scrap from SMS CCM	2100 Metric Tonnes/Year	Shall be reused in induction furnace
2	IF Slag	10030 Metric Tonnes/Year	Shall be used as aggregates for land filling/road making
3	IF Bag Filter Dust	1585 Metric Tonnes/Year	Shall be used for land filling
4	MS Scale from SMS CCM	810 Metric Tonnes/Year	Shall be reused in induction furnace/for production of Fe-Si or Fe-Si- Cr or shall be used in Sinter Plant

The Industry shall obtain Authorisation for waste and also register for EPR wherever applicable.

12 The industry shall take adequate measures for control of noise level from its own sources within the premises within the limit given below :

Time	Limit in dB (A) Leq
Day time (06 a.m. to 10 p.m.)	65
Night time (10 p.m. to 06 a.m.)	55

Noise barriers should be installed if the Noise Level is found to be exceeding the desired levels.

13 The industry shall at all times maintain good house-keeping and control pollution (including fugitive emissions) from all sources to maintain clean environment in & around factory premises and in surrounding areas.

14 The Industry shall bring about at least 33% of the total land area under the tree cover.

15 The Industry shall provide sufficient alternate electric power source like Green DG or Storage Battery System etc. to operate all pollution control facilities. In absence of such alternate power source, the production shall be stopped/controlled to conform to the conditions of the Consent.

16 The industry shall install a separate energy meter showing the consumption of energy for operation of pollution control devices and shall install suitable device for measuring the volume of water consumed for different purposes as mentioned in Sl.No. 3.

17 The Industry shall provide drainage system for discharge of industrial and domestic effluent and a separate drainage system for storm-water.

18 The industry shall maintain a separate register showing consumption of chemicals used in pollution control systems.

19 The Industry shall get the samples of hazardous wastes / leachates analysed at least once in a year from a laboratory recognised by the West Bengal Pollution Control Board and ensure that they conform to the limits stipulated. Test reports shall be sent to the Board.

20 The Industry shall submit 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 by 30th September of every year, to the WBPCB.

21 The Industry shall allow the officers of the State Board to enter into the premises of the unit at any reasonable time to inspect the pollution control systems and shall provide adequate and safe facility for collection of air, wastewater and solid waste samples for monitoring by the State Board as well as by authorized agencies of the State Board, as and when required by them.

22 The industry shall maintain an Inspection Book in the factory premises which shall be made available to inspecting officers of the State Board for inspection, review and to write down any direction or observation as is deemed necessary during the inspection.

23 The Industry shall furnish to the State Board all information in respect of quality, quantity, rate of discharge, place of discharge of liquid effluent and air emission.

24 The Industryshall maintain adequate number of qualified and trained personnel among its staff for propermaintenance and operation of the effluent treatment and/or emission control devices and for overallenvironment management of the industry.

25 The Industry shall have to make registration for the use of groundwater if any, with State Water Investigation Directorate (SWID).

26 The Industry 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 quantity 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.

27 If the Industry is using Diesel Generator set or generating any other hazardous waste, it should install a Digital Display Board to discriminate all information as stipulated in this regard.

28 The industry shall make an application to the State Board in the prescribed form for renewal of the consent at lease 120 (one hundred & twenty) days before the date of expiry of this Consent.

29 The industry shall not make any alteration / expansion / modification in the existing manufacturing process and equipment, pollution control system and shall not alter or bring in any new outlet/outfall or stack or change the place of discharge, without prior approval of the Board.

30 The industry shall comply with all applicable Environmental Acts and Rules.

31 The Industry shall comply with the provisions of relevant Waste Management Rules and also submit Annual Returns / Manifests on regular basis.

32 Concealing factual data or submission of false or fabricated data/information may result in revocation of Consent to Operate and attract action under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981.

Special Conditions:

1.The unit shall comply with all conditions mentioned in the Consent to Operate issued vide CTO no. - WBPCB/4932864/2024 dt. 29/04/2024.

2. The unit shall operate in compliance with the conditions imposed in the EC issued by the MoEF&CC,GoI vide no. J-11011/188/2011-IA.II(I) dt. 16.03.2023 and NOC by the State Board vide no. 241-2N-68/ 2021(E) dt. 08.05.2023.

3.The National Ambient Air Quality Emission Standards issued by the MoEF&CC,GoI vide G.S.R.No.826(E) dt. 16.11.2009 shall be complied with.

4. The PM emission from the stack shall not exceed 30 mg/Nm^3.

5. Good house-keeping shall be maintained.

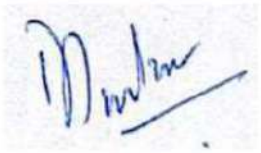
6. Necessary action shall be taken to control fugitive emission.

7. At least 33% of the plot area shall be covered by Green belt.

8. The unit shall not operate the plant with out installation of continuous online stack emission monitoring system.

Any violation of the aforesaid conditions shall entail cancellation of this Consent for Operate.

For and on behalf of West Bengal Pollution Control Board



15/01/2025

Chief Engineer
Environment Impact Management Cell

ANNEXURE- 9

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. – Paschim Bardhaman				Sampling Date	:	04.02.2025 – 05.02.2025			
						Period of Analysis	:	18.02.2025 – 19.02.2025			
						Date of Issue	:	21.02.2025			
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/26/Feb./A/V	Report No.	:	ENV/26/Feb./TR(A)/V/24-25			

A] GENERAL INFORMATION

1.	Location of Sampling	:	Near Administrative Building
2.	Duration of Sampling	:	24 hrs. (09:00 a.m. – 09:00 a.m.)

B] METEOROLOGICAL INFORMATION

1.	Average Temperature (^{0}C)	:	25.0
2.	Average Relative Humidity (%)	:	62.0
3.	Barometric Pressure (mm of Hg)	:	758.0
4.	Smell or Odour	:	No Remarkable Smell
5.	Weather Condition	:	Clear

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of $PM_{2.5}$	$\mu g/m^3$	IS 5182 (Part 24) : 2019	46.27
2.	Concentration of PM_{10}	$\mu g/m^3$	IS 5182 (PART 23) : 2019	70.93
3.	Concentration of SO_2	$\mu g/m^3$	IS 5182 (Part 2) 2017& ASTM D 2914-01,Sec. 11 (Vol. 11.07) : 2017	12.37
4.	Concentration of NO_2	$\mu g/m^3$	IS 5182 (Part 6) 2017& ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	25.05
5.	Concentration of CO	mg/m^3	IS 5182 (Part 10): 2019	0.28
6.	Concentration of Pb	$\mu g/m^3$	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	<0.36
8.	Benzene (C_6H_6)	$\mu g/m^3$	IS 5182 (Part 11) 2017& ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.74
9.	Ozone (O_3)	$\mu g/m^3$	IS 5182 (Part-9) : 2019	18.50
10.	Ammonia (NH_3)	$\mu g/m^3$	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 23rd 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
Quality Manager

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. – Paschim Bardhaman				Sampling Date	:	04.02.2025 – 05.02.2025			
						Period of Analysis	:	18.02.2025 – 19.02.2025			
						Date of Issue	:	21.02.2025			
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/26/Feb./A/VI	Report No.	:	ENV/26/Feb./TR(A)/VI/24-25			

A] GENERAL INFORMATION

1.	Location of Sampling	:	Near M.C.C Buildings (Back Side of the Plant)
2.	Duration of Sampling	:	24 hrs. (09:20 a.m. – 09:20 a.m.)

B] METEOROLOGICAL INFORMATION

1.	Average Temperature (^{0}C)	:	25.5
2.	Average Relative Humidity (%)	:	63.0
3.	Barometric Pressure (mm of Hg)	:	758.0
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	42.55
2.	Concentration of PM_{10}	µg/m^3	IS 5182 (PART 23) : 2019	78.48
3.	Concentration of SO_2	µg/m^3	IS 5182 (Part 2) 2017& ASTM D 2914-01,Sec. 11 (Vol. 11.07) : 2017	11.26
4.	Concentration of NO_2	µg/m^3	IS 5182 (Part 6) 2017& ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	20.0
5.	Concentration of CO	mg/m^3	IS 5182 (Part 10): 2019	0.20
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	<0.36
8.	Benzene (C_6H_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 23rd 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
Quality Manager

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. – Paschim Bardhaman				Sampling Date	:	05.02.2025 – 06.02.2025			
						Period of Analysis	:	18.02.2025 – 19.02.2025			
						Date of Issue	:	21.02.2025			
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/26/Feb./A/VII	Report No.	:	ENV/26/Feb./TR(A)/VII/24-25			

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 (^{0}C)	:	24.0
2.	Average Relative Humidity (%)	:	65.0
3.	Barometric Pressure (mm of Hg)	:	758.0
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	42.11
2.	Concentration of PM_{10}	µg/m^3	IS 5182 (PART 23) : 2019	71.06
3.	Concentration of SO_2	µg/m^3	IS 5182 (Part 2) 2017& ASTM D 2914-01,Sec. 11 (Vol. 11.07) : 2017	8.28
4.	Concentration of NO_2	µg/m^3	IS 5182 (Part 6) 2017& ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	20.0
5.	Concentration of CO	mg/m^3	IS 5182 (Part 10): 2019	0.16
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	<0.36
8.	Benzene (C_6H_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 23rd 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
Quality Manager

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. – Paschim Bardhaman				Sampling Date	:	05.02.2025 – 06.02.2025			
						Period of Analysis	:	18.02.2025 – 19.02.2025			
						Date of Issue	:	21.02.2025			
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/26/Feb./A/VIII	Report No.	:	ENV/26/Feb./TR(A)/VIII/24-25			

A] GENERAL INFORMATION

1.	Location of Sampling	:	Nakrajoria Village (1 Km Distance From the Plant)
2.	Duration of Sampling	:	24 hrs. (09:30 a.m. – 09:30 a.m.)

B] METEOROLOGICAL INFORMATION

1.	Average Temperature (^{0}C)	:	24.0
2.	Average Relative Humidity (%)	:	65.0
3.	Barometric Pressure (mm of Hg)	:	758.0
4.	Smell or Odour	:	No Remarkable Smell
5.	Weather Condition	:	Clear

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of $PM_{2.5}$	$\mu g/m^3$	IS 5182 (Part 24) : 2019	41.26
2.	Concentration of PM_{10}	$\mu g/m^3$	IS 5182 (PART 23) : 2019	73.45
3.	Concentration of SO_2	$\mu g/m^3$	IS 5182 (Part 2) 2017& ASTM D 2914-01,Sec. 11 (Vol. 11.07) : 2017	7.38
4.	Concentration of NO_2	$\mu g/m^3$	IS 5182 (Part 6) 2017& ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	16.50
5.	Concentration of CO	mg/m^3	IS 5182 (Part 10): 2019	0.12
6.	Concentration of Pb	$\mu g/m^3$	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	<0.36
8.	Benzene (C_6H_6)	$\mu g/m^3$	IS 5182 (Part 11) 2017& ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.74
9.	Ozone (O_3)	$\mu g/m^3$	IS 5182 (Part-9) : 2019	<10.0
10.	Ammonia (NH_3)	$\mu g/m^3$	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 23rd 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
Quality Manager

ANNEXURE-10

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. – Paschim Bardhaman					Sampling Date	:	06.02.2025		
							Period of Analysis	:	18.02.2025 – 19.02.2025		
							Date of Issue	:	21.02.2025		
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/26/Feb./A/IX		Report No.	:	ENV/26/Feb./TR(A)/IX/24-25		

A] GENERAL INFORMATION

1.	Location of Sampling	:	Near Ferro Division (Dispatch Yard)
2.	Duration of Sampling	:	08 hrs. (09:00 a.m. – 05:00 p.m.)

B] METEOROLOGICAL INFORMATION

1.	Average Temperature (^{0}C)	:	30.0
2.	Average Relative Humidity (%)	:	68.0
3.	Barometric Pressure (mm of Hg)	:	758.0
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	461.48

Remarks : Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharya

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. AJOY PAUL
Quality Manager

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. – Paschim Bardhaman					Sampling Date	:	06.02.2025		
							Period of Analysis	:	18.02.2025 – 19.02.2025		
							Date of Issue	:	21.02.2025		
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/26/Feb./A/IX		Report No.	:	ENV/26/Feb./TR(A)/IX/24-25		

A] GENERAL INFORMATION

1.	Location of Sampling	:	Near Ferro Division (Dispatch Yard)
2.	Duration of Sampling	:	08 hrs. (09:00 a.m. – 05:00 p.m.)

B] METEOROLOGICAL INFORMATION

1.	Average Temperature (^{0}C)	:	30.0
2.	Average Relative Humidity (%)	:	68.0
3.	Barometric Pressure (mm of Hg)	:	758.0
4.	Smell or Odour	:	No Remarkable Smell

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SO_2	$\mu g/m^3$	IS 5182 (Part 2) 2017& ASTM D 2914-01,Sec. 11 (Vol. 11.07) : 2017	18.28
2.	Concentration of NO_2	$\mu g/m^3$	IS 5182 (Part 6) 2017& ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	28.21

Remarks : Result relates only to the sample tested.28.21

Reviewed By :

Indrani Bhattacharyya

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. AJOY PAUL
Quality Manager

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. – Paschim Bardhaman					Sampling Date	:	06.02.2025		
							Period of Analysis	:	18.02.2025 – 19.02.2025		
							Date of Issue	:	21.02.2025		
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/26/Feb./A/X		Report No.	:	ENV/26/Feb./TR(A)/X/24-25		

A] GENERAL INFORMATION

1.	Location of Sampling	:	Near MRP
2.	Duration of Sampling	:	08 hrs. (09:25 a.m. – 05:25 p.m.)

B] METEOROLOGICAL INFORMATION

1.	Average Temperature (^{0}C)	:	30.0
2.	Average Relative Humidity (%)	:	66.0
3.	Barometric Pressure (mm of Hg)	:	758.0
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	485.40

Remarks : Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharyya

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. AJOY PAUL
Quality Manager

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. – Paschim Bardhaman					Sampling Date	:	06.02.2025		
							Period of Analysis	:	18.02.2025 – 19.02.2025		
							Date of Issue	:	21.02.2025		
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/26/Feb./A/X		Report No.	:	ENV/26/Feb./TR(A)/X/24-25		

A] GENERAL INFORMATION

1.	Location of Sampling	:	Near MRP
2.	Duration of Sampling	:	08 hrs. (09:25 a.m. – 05:25 p.m.)

B] METEOROLOGICAL INFORMATION

1.	Average Temperature (^{0}C)	:	30.0
2.	Average Relative Humidity (%)	:	66.0
3.	Barometric Pressure (mm of Hg)	:	758.0
4.	Smell or Odour	:	No Remarkable Smell

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SO_2	$\mu g/m^3$	IS 5182 (Part 2) 2017& ASTM D 2914-01,Sec. 11 (Vol. 11.07) : 2017	11.08
2.	Concentration of NO_2	$\mu g/m^3$	IS 5182 (Part 6) 2017& ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	24.88

Remarks : Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharyya

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. AJOY PAUL
Quality Manager

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. – Paschim Bardhaman					Sampling Date	:	05.02.2025		
							Period of Analysis	:	18.02.2025 – 19.02.2025		
							Date of Issue	:	21.02.2025		
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/26/Feb./A/XI		Report No.	:	ENV/26/Feb./TR(A)/XI/24-25		

A] GENERAL INFORMATION

1.	Location of Sampling	:	Raw Materials Handling Yard
2.	Duration of Sampling	:	08 hrs. (10:00 a.m. – 06:00 p.m.)

B] METEOROLOGICAL INFORMATION

1.	Average Temperature (^{0}C)	:	28.0
2.	Average Relative Humidity (%)	:	65.0
3.	Barometric Pressure (mm of Hg)	:	758.0
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	482.40

Remarks : Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharyya

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. AJOY PAUL
Quality Manager

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. – Paschim Bardhaman					Sampling Date	:	05.02.2025		
							Period of Analysis	:	18.02.2025 – 19.02.2025		
							Date of Issue	:	21.02.2025		
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/26/Feb./A/XI		Report No.	:	ENV/26/Feb./TR(A)/XI/24-25		

A] GENERAL INFORMATION

1.	Location of Sampling	:	Raw Materials Handling Yard
2.	Duration of Sampling	:	08 hrs. (10:00 a.m. – 06:00 p.m.)

B] METEOROLOGICAL INFORMATION

1.	Average Temperature (^{0}C)	:	28.0
2.	Average Relative Humidity (%)	:	65.0
3.	Barometric Pressure (mm of Hg)	:	758.0
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	9.41
2.	Concentration of NO_2	µg/m^3	IS 5182 (Part 6) 2017& ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	24.62

Remarks : Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharyya

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. AJOY PAUL
Quality Manager

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. – Paschim Bardhaman				Sampling Date	:	04.02.2025			
						Period of Analysis	:	18.02.2025 – 19.02.2025			
						Date of Issue	:	21.02.2025			
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/26/Feb./A/XII	Report No.	:	ENV/26/Feb./TR(A)/XII/24-25			

A] GENERAL INFORMATION

1.	Location of Sampling	:	Near Ferro Division Control Room
2.	Duration of Sampling	:	08 hrs. (10:30 a.m. – 06:30 p.m.)

B] METEOROLOGICAL INFORMATION

1.	Average Temperature (^{0}C)	:	30.0
2.	Average Relative Humidity (%)	:	67.0
3.	Barometric Pressure (mm of Hg)	:	758.0
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	482.76

Remarks : Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharya

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. AJOY PAUL
Quality Manager

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. – Paschim Bardhaman				Sampling Date	:	04.02.2025			
						Period of Analysis	:	18.02.2025 – 19.02.2025			
						Date of Issue	:	21.02.2025			
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/26/Feb./A/XII	Report No.	:	ENV/26/Feb./TR(A)/XII/24-25			

A] GENERAL INFORMATION

1.	Location of Sampling	:	Near Ferro Division Control Room
2.	Duration of Sampling	:	08 hrs. (10:30 a.m. – 06:30 p.m.)

B] METEOROLOGICAL INFORMATION

1.	Average Temperature (^{0}C)	:	30.0
2.	Average Relative Humidity (%)	:	67.0
3.	Barometric Pressure (mm of Hg)	:	758.0
4.	Smell or Odour	:	No Remarkable Smell

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SO_2	$\mu g/m^3$	IS 5182 (Part 2) 2017& ASTM D 2914-01,Sec. 11 (Vol. 11.07) : 2017	7.75
2.	Concentration of NO_2	$\mu g/m^3$	IS 5182 (Part 6) 2017& ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	20.0

Remarks : Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharyya

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. AJOY PAUL
Quality Manager

<End of Report>

ANNEXURE-11

FORMAT NO. ENV/FM/55

TEST REPORT

Name of the Industry	:	Eloquent Steel Pvt. Ltd.		Type of Industry	:	Steel & Power Unit	
Address	:	Vill. – Nakrajoria, P.O. + P.S. – Salanpur, Dist. – Paschim Bardhaman		Sampling Date	:	05.02.2025	
				Period of Analysis	:	21.02.2025 – 28.02.2025	
				Date of Issue	:	01.03.2025	
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/1287B/Feb./W/M(i)
Report No.	:	ENV/12287A/Feb./TR(W)/M(i)/24-25					

	PARAMETERS	METHOD	UNIT	RESULTS
1.	Colour	APHA 23rd Ed., 3111 B : 2017	Hazen	1.0
2.	Odour	APHA 23rd Ed., 2150 B : 2017	--	Odourless
3.	pH	APHA 23rd Ed., 4500 – H^+B : 2017	--	6.89
4.	Taste	APHA 23rd Ed., 2160 B : 2017	--	Acceptable
5.	Turbidity	APHA 23rd Ed., 2130 B : 2047	NTU	1.60
6.	Total Dissolved Solids	APHA 23rd Ed., 2540 B : 2017	mg./l	650.0
7.	Calcium	APHA 23rd Ed., 3500 Ca-B : 2017	mg./l	42.50
8.	Chloride	APHA 23rd Ed., 4500 Cl-B/D : 2017	mg./l	62.50
9.	Iron	APHA 23rd Ed., 3111 B : 2017	mg./l	0.60
10.	Magnesium	APHA 23rd Ed., 3500 Mg-B : 2017	mg./l	7.20
11.	Nitrate	APHA 23rd Ed., NO_3-E : 2017	mg./l	2.30
12.	Sulphate	APHA 23rd Ed., 4500 SO_4-E : 2017	mg./l	52.50
13.	Total Alkalinity	APHA 23rd Ed., 2320 B : 2017	mg./l	112.0
14.	Total Hardness	APHA 23rd Ed., 2340 C : 2017	mg./l	100.0
15.	Arsenic	IS 3025 (Part 37) : 1988 : 2014	mg./l	<0.01
16.	Chromium	APHA 23rd Ed., 3111 Cr-B : 2017	mg./l	<0.02
17.	Boron	APHA 23rd 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

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

FORMAT NO. ENV/FM/55

TEST REPORT

Name of the Industry	:	Eloquent Steel Pvt. Ltd.		Type of Industry	:	Steel & Power Unit	
Address	:	Vill. – Nakrajoria, P.O. + P.S. – Salanpur, Dist. – Paschim Bardhaman		Sampling Date	:	05.02.2025	
				Period of Analysis	:	21.02.2025 – 28.02.2025	
				Date of Issue	:	01.03.2025	
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/1287B/Feb./W/M(ii)
Report No.	:	ENV/12287A/Feb./TR(W)/M(ii)/24-25					

	PARAMETERS	METHOD	UNIT	RESULTS
1.	Colour	APHA 23rd Ed., 3111 B : 2017	Hazen	1.0
2.	Odour	APHA 23rd Ed., 2150 B : 2017	--	Odourless
3.	pH	APHA 23rd Ed., 4500 – H^+B : 2017	--	6.86
4.	Taste	APHA 23rd Ed., 2160 B : 2017	--	Acceptable
5.	Turbidity	APHA 23rd Ed., 2130 B : 2047	NTU	1.60
6.	Total Dissolved Solids	APHA 23rd Ed., 2540 B : 2017	mg./l	510.0
7.	Calcium	APHA 23rd Ed., 3500 Ca-B : 2017	mg./l	32.50
8.	Chloride	APHA 23rd Ed., 4500 Cl-B/D : 2017	mg./l	65.10
9.	Iron	APHA 23rd Ed., 3111 B : 2017	mg./l	0.60
10.	Magnesium	APHA 23rd Ed., 3500 Mg-B : 2017	mg./l	7.80
11.	Nitrate	APHA 23rd Ed., NO_3-E : 2017	mg./l	3.80
12.	Sulphate	APHA 23rd Ed., 4500 SO_4-E : 2017	mg./l	70.0
13.	Total Alkalinity	APHA 23rd Ed., 2320 B : 2017	mg./l	120.0
14.	Total Hardness	APHA 23rd Ed., 2340 C : 2017	mg./l	132.50
15.	Arsenic	IS 3025 (Part 37) : 1988 : 2014	mg./l	<0.01
16.	Chromium	APHA 23rd Ed., 3111 Cr-B : 2017	mg./l	<0.02
17.	Boron	APHA 23rd 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

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

<End of Report>

ANNEXURE-12

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/08/Feb/(TR)N/I/24-25

Sampling Locations :	Near Administrative Buildings	Date of Study :	04/2/2025
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	44.3	55.9	53.18	
7:00 AM to 8:00 AM	45.1	56.2	53.51	
8:00 AM to 9:00 AM	46.4	57.9	55.19	
9:00 AM to 10:00 AM	47.2	58.3	55.61	
10:00 AM to 11:00 AM	48.6	59.4	56.74	
11:00 AM to 12:00 PM	47.4	59.3	56.56	
12:00 PM to 1:00 PM	46.2	53.8	51.49	
1:00 PM to 2:00 PM	44.8	56.8	54.06	53.42
2:00 PM to 3:00 PM	47.4	56.3	53.82	
3:00 PM to 4:00 PM	46.2	54.2	51.83	
4:00 PM to 5:00 PM	44.6	56.8	54.04	
5:00 PM to 6:00 PM	42.2	54.6	51.83	
6:00 PM to 7:00 PM	40.6	52.5	49.76	
7:00 PM to 8:00 PM	40.3	51.8	49.09	
8:00 PM to 9:00 PM	40.0	50.2	47.59	
9:00 PM to 10:00 PM	39.9	48.5	46.05	

Date of Study :	04/02/2025 to 05/02/2025	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	38.2	45.4	43.15	
11:00 PM to 12:00 AM	38.0	43.2	41.34	
12:00 AM to 1:00 AM	37.4	42.5	40.66	
1:00 AM to 2:00 AM	36.9	41.8	40.01	44.99
2:00 AM to 3:00 AM	40.0	44.8	42.71	
3:00 AM to 4:00 AM	41.2	46.8	44.85	
4:00 AM to 5:00 AM	43.5	49.2	47.22	
5:00 AM to 6:00 AM	46.8	51.5	49.76	

L_{min} : Minimum Noise level L_{max} :Maximum Noise level L_{eq} :Equivalent sound energy

Compiled by : (Signature)
Dr. Ajoy Paul

Envirocheck Seal
Date : 07/02/2025

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

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 Phone (033-25792891/25497490
Laboratory : 51, 185, 186, 189,190, 192 & 326/3 Rastraguru Avenue, Kolkata - 700028
Email : envirocheck50@gmail.com / info@envirocheck.in/ / Website : www.envirocheck.in

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/08/Feb/(TR)N/II/24-25

Sampling Locations :	Dendua Village (1 km distance from the Plant)	Date of Study :	04/02/2025
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	49.1	55.3	53.22	
7:00 AM to 8:00 AM	50.2	57.8	55.49	
8:00 AM to 9:00 AM	51.4	58.2	56.01	
9:00 AM to 10:00 AM	45.3	51.8	49.67	
10:00 AM to 11:00 AM	44.3	50.6	48.50	
11:00 AM to 12:00 PM	45.2	52.9	50.57	
12:00 PM to 1:00 PM	47.5	55.3	52.96	
1:00 PM to 2:00 PM	50.4	56.9	54.77	53.26
2:00 PM to 3:00 PM	48.8	53.7	51.91	
3:00 PM to 4:00 PM	48.2	54.6	52.49	
4:00 PM to 5:00 PM	48.8	53.2	51.53	
5:00 PM to 6:00 PM	47.2	54.6	52.32	
6:00 PM to 7:00 PM	49.1	53.9	52.46	
7:00 PM to 8:00 PM	48.8	55.1	52.13	
8:00 PM to 9:00 PM	48.6	56.3	53.97	
9:00 PM to 10:00 PM	49.9	58.7	56.23	

Date of Study :	04/02/2025 to 05/02/2025	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	40.7	47.6	45.40	
11:00 PM to 12:00 AM	39.9	42.6	41.46	
12:00 AM to 1:00 AM	38.6	41.5	40.29	
1:00 AM to 2:00 AM	37.2	41.2	39.65	44.64
2:00 AM to 3:00 AM	38.4	42.6	40.99	
3:00 AM to 4:00 AM	41.2	45.4	43.79	
4:00 AM to 5:00 AM	42.6	49.1	46.97	
5:00 AM to 6:00 AM	43.8	51.2	48.92	

L_{min} : Minimum Noise level L_{max} :Maximum Noise level L_{eq} :Equivalent sound energy

Compiled by : (Signature)
Dr. Ajoy Paul

Envirocheck Seal
Date : 07/02/2025

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

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/08/Feb/(TR)N/III/24-25

Sampling Locations :	Nakrajoria Village (1 km distance from the Plant)	Date of Study :	04/02/2025
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	51.2	55.8	54.08	
7:00 AM to 8:00 AM	52.6	54.9	53.90	
8:00 AM to 9:00 AM	53.4	60.2	58.01	
9:00 AM to 10:00 AM	51.8	59.4	57.09	
10:00 AM to 11:00 AM	50.6	57.5	55.30	
11:00 AM to 12:00 PM	50.2	59.9	57.33	
12:00 PM to 1:00 PM	52.6	58.3	56.32	
1:00 PM to 2:00 PM	55.9	59.1	57.79	54.93
2:00 PM to 3:00 PM	52.6	55.4	54.22	
3:00 PM to 4:00 PM	51.0	56.3	54.41	
4:00 PM to 5:00 PM	51.9	55.2	53.86	
5:00 PM to 6:00 PM	50.3	54.9	53.18	
6:00 PM to 7:00 PM	46.2	53.2	50.98	
7:00 PM to 8:00 PM	45.8	53.0	50.75	
8:00 PM to 9:00 PM	44.2	52.8	50.35	
9:00 PM to 10:00 PM	43.4	51.3	48.94	

Date of Study :	04/02/2025 to 05/02/2025	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	42.1	49.6	47.30	
11:00 PM to 12:00 AM	41.8	48.3	46.17	
12:00 AM to 1:00 AM	40.3	47.5	45.25	
1:00 AM to 2:00 AM	41.4	44.3	42.54	45.72
2:00 AM to 3:00 AM	40.9	43.8	42.59	
3:00 AM to 4:00 AM	41.3	45.2	43.67	
4:00 AM to 5:00 AM	43.6	49.1	47.17	
5:00 AM to 6:00 AM	44.2	49.6	47.69	

L_{min} : Minimum Noise level L_{max} :Maximum Noise level L_{eq} :Equivalent sound energy

Compiled by : (Signature)
Dr. Ajoy Paul

Envirocheck Seal
Date : 07/02/2025

Kolkata 700 028 ENVIROCHECK 189, Rastraguru Avenue

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

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/08/Feb/(TR)N/IV/24-25

Sampling Locations :	Near M.C.C Building (Back side of the Plant)	Date of Study :	04/02/2025
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	51.5	54.2	53.06	
7:00 AM to 8:00 AM	52.8	55.3	54.23	
8:00 AM to 9:00 AM	53.2	56.4	55.09	
9:00 AM to 10:00 AM	54.2	57.3	56.02	
10:00 AM to 11:00 AM	53.2	56.4	55.09	
11:00 AM to 12:00 PM	52.3	54.6	53.60	
12:00 PM to 1:00 PM	52.0	53.4	51.82	
1:00 PM to 2:00 PM	53.7	56.3	55.19	53.73
2:00 PM to 3:00 PM	52.1	54.8	53.66	
3:00 PM to 4:00 PM	51.5	55.3	53.80	
4:00 PM to 5:00 PM	52.4	54.3	53.45	
5:00 PM to 6:00 PM	51.9	53.2	52.60	
6:00 PM to 7:00 PM	51.0	53.0	52.11	
7:00 PM to 8:00 PM	51.2	54.9	53.43	
8:00 PM to 9:00 PM	50.3	53.4	52.12	
9:00 PM to 10:00 PM	49.9	52.2	51.20	

Date of Study :	04/02/2025 to 05/02/2025	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	46.5	51.6	49.76	
11:00 PM to 12:00 AM	45.8	50.3	48.61	
12:00 AM to 1:00 AM	44.2	50.0	48.00	
1:00 AM to 2:00 AM	41.4	44.3	42.54	47.93
2:00 AM to 3:00 AM	40.9	43.8	42.59	
3:00 AM to 4:00 AM	43.2	48.5	46.61	
4:00 AM to 5:00 AM	44.8	51.2	49.09	
5:00 AM to 6:00 AM	45.3	52.4	50.16	

L_{min} : Minimum Noise level

L_{eq} : Equivalent sound energy

Compiled by : (Signature)
Dr. Ajoy Paul

Envirocheck Seal
Date : 07/02/2025

ENVIROCHECK Kolkata 700 028 189, Rastraguru Avenue

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

ANNEXURE-13

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 – Paschim Burdwan
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/08/Sep/(TR)N/I/24-25
8.	Date of Study	:	04/02/2025
9.	Reporting Date	:	07/02/2025
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. Kuntal Saha

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)	68.8	71.9	70.62	East Side
02.	dB(A)	70.8	74.6	73.10	West Side
03.	dB(A)	69.6	74.1	72.41	North Side
04.	dB(A)	69.8	70.6	70.22	South Side
			Average dB(A) Leq	71.58	

>End of Report<

Reviewed By:

Dy. Quality Manager

Approved By:

Quality Manager

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 – Paschim Burdwan
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/08/Sep/(TR)N/II/24-25
8.	Date of Study	:	04/02/2025
9.	Reporting Date	:	07/02/2025
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. Kuntal Saha

RESULT OF NOISE LEVEL STUDY — **Time :10:30 – 10:50 A.M**

DAY TIME

2. Location : Inside the Ferro Division Control Room

Sl. No.	Unit	Minimum dB(A)	Maximum dB(A)	Leq dB(A)	Remarks
01.	dB(A)	70.8	80.1	77.57	East Side
02.	dB(A)	70.6	76.2	74.25	West Side
03.	dB(A)	72.9	75.9	74.65	North Side
04.	dB(A)	71.2	76.4	74.54	South Side
			Average dB(A) Leq	75.25	

>End of Report<

Reviewed By:

Dy. Quality Manager

Approved By:

Quality Manager

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 – Paschim Burdwan
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/08/Sep/(TR)N/III/24-25
8.	Date of Study	:	04/02/2025
9.	Reporting Date	:	07/02/2025
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. Kuntal Saha

RESULT OF NOISE LEVEL STUDY — **Time :11:00 – 11:20A.M**

DAY TIME

3. Location : Near Ferro Division Dispatch Yard

Sl. No.	Unit	Minimum dB(A)	Maximum dB(A)	Leq dB(A)	Remarks
01.	dB(A)	72.8	76.5	75.03	East Side
02.	dB(A)	71.6	77.9	75.80	West Side
03.	dB(A)	73.9	76.2	75.20	North Side
04.	dB(A)	72.6	75.8	74.49	South Side
			Average dB(A) Leq	75.13	

>End of Report<

Reviewed By:

Dy. Quality Manager

Approved By:

Quality Manager

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 – Paschim Burdwan
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/08/Sep/(TR)N/IV/24-25
8.	Date of Study	:	04/02/2025
9.	Reporting Date	:	07/02/2025
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. Kuntal Saha

RESULT OF NOISE LEVEL STUDY — **Time :11:30 – 11:50A.M**

DAY TIME

4. Location : Near MRP Plant

Sl. No.	Unit	Minimum dB(A)	Maximum dB(A)	Leq dB(A)	Remarks
01.	dB(A)	70.2	74.8	73.08	East Side
02.	dB(A)	68.8	72.2	70.82	West Side
03.	dB(A)	75.7	78.6	77.39	North Side
04.	dB(A)	71.9	75.1	73.79	South Side
			Average dB(A) Leq	73.77	

>End of Report<

Reviewed By:

Dy. Quality Manager

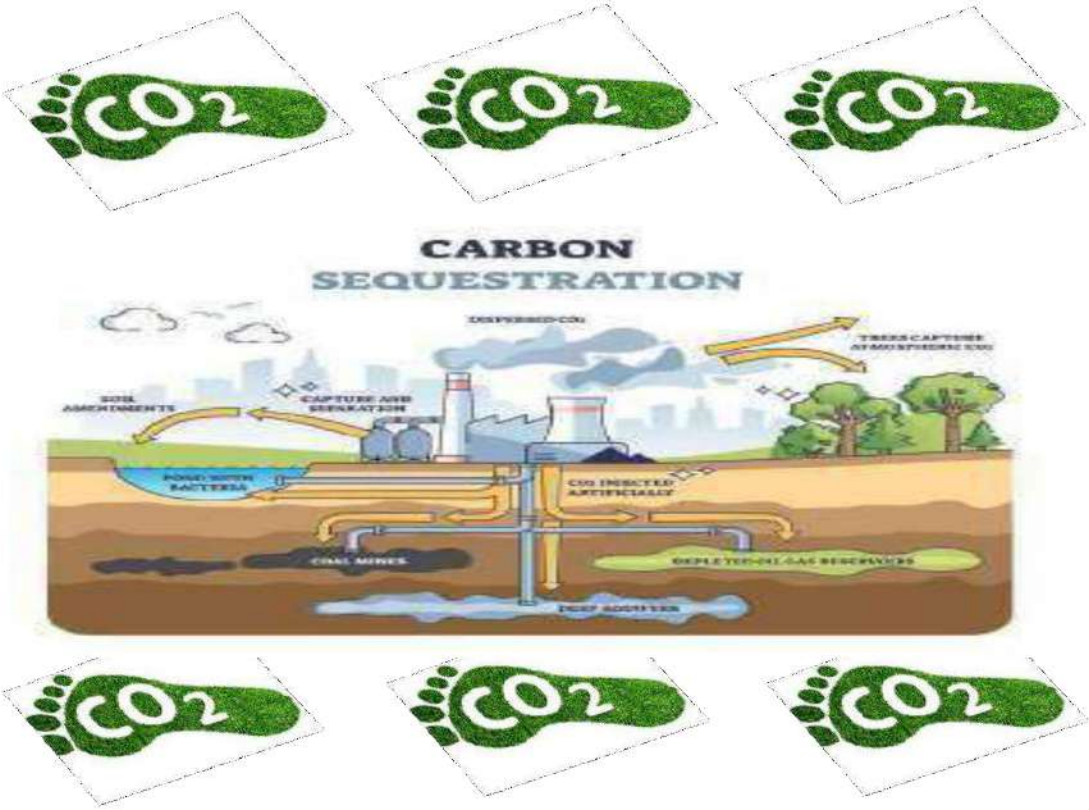
Approved By:

Quality Manager

ANNEXURE-14

ELOQUENT STEEL PRIVATE LIMITED

Vill. - Nakrajoria, PO&PS-Salanpur,
Dist. – Paschim Bardhaman (WB) -713357



STUDY REPORT

ON

CARBON FOOTPRINT & CARBON SEQUESTRATION

Expansion of SMS for 257177 TPA Billet Production along with installation of Rolling Mill for production of 210,000 TPA Rolled Product, Installation of 150,000 TPA Briquette Plant, 108000 TPA 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 tons 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 CO_2 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 CO_2 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 CO_2 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 CO_2 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 FOOT PRINT

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 CO_2, CH_4 and N_2O 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.

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 CO_2 emissions from the induction furnace operation after proposed expansion.

Table 1: CO_2e 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_2e Emissions (TPA)
SMS (3x25 T)	Pig Iron	21,044.00	0.04	2627	357.53	2554.39	9374.62
	Sponge Iron	1,01,648.00	0.015	4502			
	Ferro Alloys	1,860.00	0.02	82			
	Scrap	20,057.00	0.020	867			
TOTAL BILLET				**119175.5**			

2. Ferro Division:

Following table shows the CO_2 emissions from the induction furnace operation after proposed expansion.

Table 2: CO_2 e Emission from SEAF

Unit	Product	Quantity (TPA)	Emission Factor (T/T)	CO_2e Emission (TPA)
SEAF (3x7.5 MVA & 1x5.5 MVA)	Fe-Mn	26,564	1.3	34533.20
	Si-Mn	25,980	1.4	36372.00
	Total			**70905.20**

3. Sinter Plant:

Table 3: CO_2 e Emission from Sinter Plant

Unit	Product	Quantity (TPA)	Emission Factor (T/T)	CO_2e Emission (TPA)
Sinter Plant	Sinter	0	0.2	0

4. Briquetting Plant:

Table 4: CO_2 e Emission from Briquetting Plant

Unit	Fuel Type	Quantity (KL/Year)	Quantity (Kg/Year)	Heat Value	Total Heat Generation (Kcal)	Total Heat Generation (mm BTU)	Emission Factor	CO_2e Emission
Briquetting Plant	LSHS	0	0	10550	0	77.58	72.93	0

Thus, the cumulative CO_2e emitted from the project after proposed expansion with sum of table 1-4 is 50,194.32 tons CO_2e/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 CO_2 emissions without seriously undermining process efficiency or considerably adding to costs. The iron and steel industry are the largest industrial source of CO_2 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
- Minimizing energy consumption and improving the energy efficiency of the process
- Changing to a fuel and/or reducing agent with a lower CO_2 emission factor;
- Capturing the CO_2 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 CO_2 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.

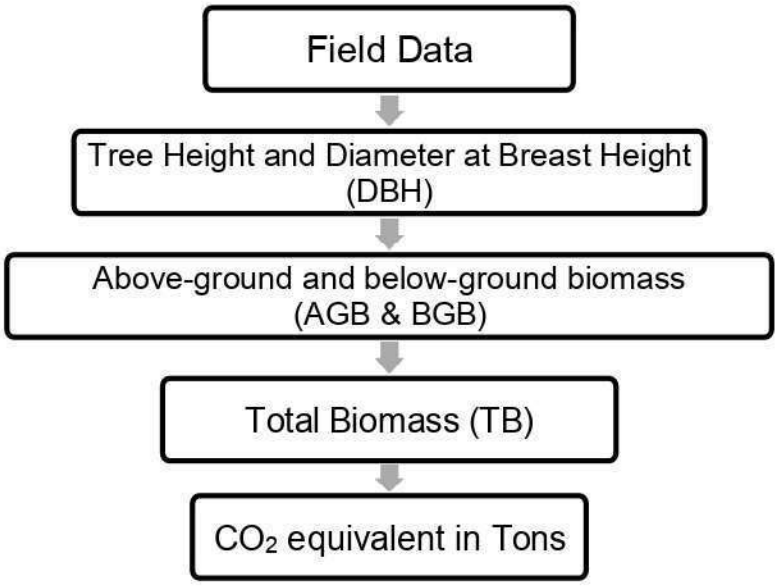
Carbon Sequestration

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 CO_2 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.

Basal area (m2) = (GBH)2/4π

Bio-volume (m3) = Basal area x Height of the tree

AGB (kg) = Bio-volume x Wood density (kg/m^3)

BGB (kg) = AGB x 0.26 (Where 0.26 = Root to Shoot ratio)

Total Biomass (TB) in kg/tree = AGB + BGB

Total Carbon Sequestered (TC) in kg/tree = 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:

CO2e = (TC x 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 longifolia	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 lebbeck	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	Syzgiumcumini	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 2417805 kg or *2417.805 tons CO_2e/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	20 KVA
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 CO_2e emission Sequestration	**387.28 T**

Table-7

From the above tables, it is understood that total CO_2e sequestration potential from greenbelt development (8017 no. trees) is estimated to be ***2417.805 tons CO_2e/Annum***. This number can be increased on yearly basis target to reduce additional CO_2e 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 CO_2e/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 CO_2 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 CO_2. 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 CO_2 rich off gas which will make CO_2 capture easier and cheaper.

==◇==

ANNEXURE-15

SHAKAMBHARI
GROUP

ELOQUENT STEEL & PVT. LTD.

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

RISK & DISASTER MANAGEMENT PLAN

Introduction:

The project site of M/s Eloquent Steel Pvt. Limited (ESPL) is located at Village: Nakrajoria, 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 toemployees.

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:

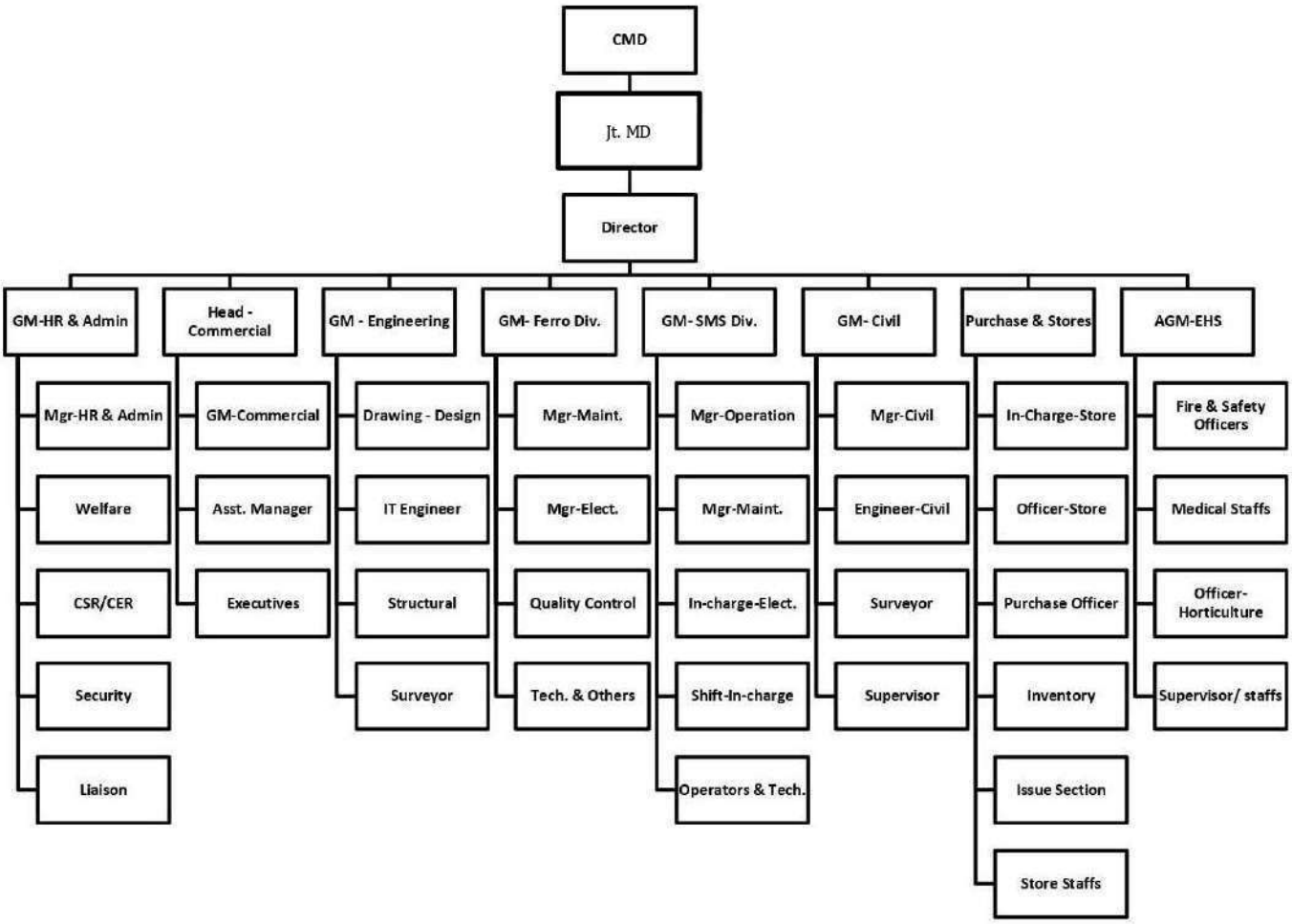
Eloquent Steel Private Limited was incorporated in the year 2012 as per Certificate of Incorporation having Corporate Identity Number U51909WB2012PTC185734, 2012-13 dated 11.09.2012, issued by the Registrar of Companies, Kolkata.

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: Nakrajoria, 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
- 2x25T Induction Furnace with CCM

Organizational Structure



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 Equipment's 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

- 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 hopperis being collected by a conveyor and transported to the telpher. By way of rotation this telpher 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, electrodesand 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.

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.

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.

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).

- 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

- 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.

- Inform the relatives of causalities and send them to their residence or hospital as the case maybe.
- 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	• Inform the Security Gate and concerned Shift-in-charge immediately. Shift-in-charge will inform immediately to Comba Team Leader of concerned area.
2.	Combat team Leader (CTL)	• 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)	• 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	• 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)	• 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

SL. NO.	INITIATOR	ACTION TO TAKE
		mutual aid Partners.
6.	Auxiliary Team (ATL)	• 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-SITEEMERGENCYACTIVATION 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.

- 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 orthe 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.

- 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.

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.

- 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 annualy.

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.

EMERGENCY COMMAND STRUCTURE

Works Main Controller (WMC)
Mr. Nand Lal Maurya- VP

↓

Site Incident Controller (SIC)
Mr. T.N. Patro (GM-Ferro)
Mr. Ajit Kr. Dixit (AGM-SMS)

↓

Auxiliary Team Leader (ATL)	Combat Team Leader (CTL)	Rescue Team Leader (RTL)
1. Mr. M. Chattopadhaya (GM, HR & Admin) 2. Mr. T. N. Patro (GM-Ferro, Production) 3. Mr. Ajit Kr. Dixit 4. (AGM – SMS, Production) 5. R. K. Mishra (GM-EHS)	1. Mr. Abhijit Ghosh (Manager – Ferro, Mechanical) 2. Mr. Chandan Chakraborty (Manager – Ferro, Electrical) 3. Mr. Anand K Burnwal (Manager – SMS, Maintenance)	1. Mr. Jitendra Kr. Jha (HoD, HR & Admin) 2. Mr. Prithwish Jana (Sr. Safety Officer)
↓	↓	↓
Members	**Members**	**Members**
1. Mr. Abhay Srivastava (Ferro Production) 2. Mr. Yogendra Kumar (Ferro Production) 3. Mr. Arun K Yadav (Ferro Production) 4. Mr. Munna Hela (Ferro Production) 5. Mr. Suraj Agarwal (Despatch) 6. Mr. Surendra Mishra (Security)	1. Mr. Parimal Bouri (Ferro Mechanical) 2. Mr. Md. Aslam (Ferro Mechanical) 3. Mr. Chanchal Kundu (Ferro Electrical) 4. Mr. Rajesh K Nandi (SMS Maintenance) 5. Mr. Jiten Barman (SMS Electrical)	1. Mr. Niraj Tiwari (HR) 2. Mr. Sanjeev K Singh (Administration) 3. Mr. Rahul Chatterjee (Administration) 4. Mr. Prasenjit Bouri (Store) 5. Mr. Arun Paul (Security)

TELEPHONE NUMBERS OF EMERGENCY COMMAND TEAM

Sl No.	Name	Position in Team	Mob. Number
1	Mr. Nand Lal Maurya	Works Main Controller (WMC)	9748737733
2	Mr. T.N. Patro	Site Incident Controller (SIC)	7605089102
3	Mr. Jai Prakash Singh		9832889395
4	Mr. M. Chattopadhaya	Auxiliary Team Leader (ATL)	8367850085
5	Mr. Gajendra Singh		8210254029
6	Mr. Ajit Kr. Dixit		9163845533
7	Mr. R. K. Mishra		8695621900
8	Mr. Abhijit Ghosh	Combat Team Leader (CTL)	8170003749
9	Mr. Chandan Chakraborty		8373819925
10	Mr. Anand K Burnwal		9572564278
11	Mr. Jagannath Bera	Rescue Team Leader (RTL)	8250708382

EMERGENCY CONTACT NUMBERS:

Sl No.	Name	Mob. Number	FAX. 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 Raghnathpur	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

SHAKAMBHARI GROUP
#SteelWithin

ELOQUENT STEEL PRIVATE LIMITED

Health Checkup Summery Under Form 17

NAKRAJORIA, PO. & PS. SALANPUR, DIST. WEST BURDWAN, WEST BENGAL, PIN-713357

Periodical Health checkup details of Employees From Dated 03.12.2024-10.12.2024

OFF ROLL EMPLOYEE

Sl. No.	Name of the Employees	Name of the Contractor	Designation	Employee Code	AGE	PARAMETERS								
						Weight	RBS	BP	Blood Group	RH factor	Audiometry	Pulmonary Function Test	Chest x-ray	Remarks
1	TAPAS BAURI	JAY MAA LAXMI	HELPER	C10373	31	61	104	130/90	B	POSITIVE	NAD	NAD	NAD	
2	SONWA SOREN	SAJJAN ENTERPRISE	DRIVER	SSC001	34	71	92	130/80	B	POSITIVE	NAD	NAD	NAD	
3	NITESH BAURI	SARKAR ENTERPRISE	LAB HELPER	C11275	23	55	70	140/80	B	POSITIVE	NAD	NAD	NAD	
4	KARAN KUMAR RAM	MAA BHAWANI CONSTRUCTION-2	SUPERVISOR	C11969	26	68	98	121/75	B	POSITIVE	NAD	NAD	NAD	
5	RAHUL BHATTACHARYA	MAA BHAWANI CONSTRUCTION-2	HELPER	C11971	29	58	95	110/70	B	POSITIVE	NAD	NAD	NAD	
6	RAJ KUMAR	MAA VASNAWI	SHIFT INCHARGE	C10573	37	67	81	125/82	B	POSITIVE	NAD	NAD	NAD	
7	SUBODH KUMAR MONDAL	MAA VASNAWI	TRIMMER MAN	C11829	42	70	92	130/90	B	POSITIVE	NAD	NAD	NAD	
8	KRISHNA NANDAN RAY	MAA VASNAWI	MOULD OPERATOR	C11066	35	72	84	110/70	O	POSITIVE	NAD	NAD	NAD	
9	MODAN MURMU	MAA BHAWANI CONSTRUCTION-2	HELPER	C11973	50	69	105	130/80	B	POSITIVE	NAD	NAD	NAD	
10	NOOR MURMU	MAA BHAWANI CONSTRUCTION-2	HELPER	C11970	28	57	77	110/70	AB	POSITIVE	NAD	NAD	NAD	
11	SUMON HANSDA	SARKAR ENTERPRISE	INCHARGE	C10704	25	72	101	110/80	O	POSITIVE	NAD	NAD	NAD	
12	SWARNA KAMAL KARMAKAR	M.A ENTERPRISE	MANAGER(FERRO-PRODUCTION)	C10385	49	75	102	130/90	O	POSITIVE	NAD	NAD	NAD	
13	BIKRAM SINGH	DASMESH TRANSPORT	DRIVER	DMS09	45	77	95	160/90	O	POSITIVE	NAD	NAD	NAD	
14	AVINANDAN RAJAK	MAA VASNAWI	PUMP OPERATOR	C11033	32	62	118	120/70	B	POSITIVE	NAD	NAD	NAD	
15	ANIL ROY	PYSRM	KUNDI MAN	C12076	43	69	129	130/70	O	POSITIVE	NAD	NAD	NAD	
16	ANIL KHARWAR	PYSRM	COLD SHEAR	C11048	32	63	124	120/70	O	POSITIVE	NAD	NAD	NAD	
17	SANKAR RAJAK	UNITECH	BELT	C10799	29	68	81	130/80	B	POSITIVE	NAD	NAD	NAD	
18	AJAY ROY	M.A ENTERPRISE	FORKRIP OPERATOR	C10421	27	72	78	112/80	B	POSITIVE	NAD	NAD	NAD	
19	ANUP KUMAR SHARMA	M.A ENTERPRISE	SUPERVISOR	C10398	58	83	99	120/80	B	POSITIVE	NAD	NAD	NAD	
20	BIKASH HARI	M.A ENTERPRISE	CRANE OPERATOR	C10433	38	59	105	110/79	A	POSITIVE	NAD	NAD	NAD	
21	DEEPAK GORAI	M.A ENTERPRISE	CRANE OPERATOR	C10402	62	92	109	108/89	A	POSITIVE	NAD	NAD	NAD	
22	SANTOSH SINGH	M.A ENTERPRISE	FITTER	C10466	37	69	94	110/72	AB	POSITIVE	NAD	NAD	NAD	
23	GOUTAM BOURI	M.A ENTERPRISE	OPERATOR	C10445	40	84	83	145/76	O	POSITIVE	NAD	NAD	NAD	
24	GOUTAM DAS	M.A ENTERPRISE	MANAGER(FERRO-PRODUCTION)	C10438	38	83	87	125/80	B	POSITIVE	NAD	NAD	NAD	
25	HARE KRISHNA ROY	M.A ENTERPRISE	OPERATOR	C10386	27	79	120	120/91	AB	POSITIVE	NAD	NAD	NAD	
26	MD. NADIM	M.A ENTERPRISE	OPERATOR	C10403	32	72	105	129/88	B	POSITIVE	NAD	NAD	NAD	
27	MD. SAMSUDDIN	M.A ENTERPRISE	EXECUTIVE	C10436	26	68	98	119/72	B	POSITIVE	NAD	NAD	NAD	
28	NARENDRA ROY	M.A ENTERPRISE	TAPPER	C10388	58	91	130	120/80	B	POSITIVE	NAD	NAD	NAD	
29	PINTU KUMAR	M.A ENTERPRISE	OPERATOR	C10437	30	66	127	140/80	AB	POSITIVE	NAD	NAD	NAD	
30	RAHUL RUI DAS	M.A ENTERPRISE	CRANE OPERATOR	C10417	33	71	80	121/75	O	POSITIVE	NAD	NAD	NAD	
31	SANDEEP DEY	M.A ENTERPRISE	SHIFT INCHARGE	C10393	34	75	73	110/70	B	POSITIVE	NAD	NAD	NAD	
32	SAROJ BAURI	M.A ENTERPRISE	TAPPERMAN	C10418	40	88	109	125/82	O	POSITIVE	NAD	NAD	NAD	
33	BINOD MURMU	M.A ENTERPRISE	C.R.O	C10451	28	58	82	130/90	B	POSITIVE	NAD	NAD	NAD	
34	HARADHAN MANJI	M.A ENTERPRISE	FITTER	C10383	38	81	108	121/95	O	POSITIVE	NAD	NAD	NAD	
35	KAJI JINNA	M.A ENTERPRISE	FITTER	C10435	42	90	98	120/88	O	POSITIVE	NAD	NAD	NAD	
36	HOSSAIN CHOUDHURY	M.A ENTERPRISE	FITTER	C10424	35	77	100	126/80	AB	POSITIVE	NAD	NAD	NAD	
37	MD. IMRAN ANSARI	M.A ENTERPRISE	HELPER	C10382	28	82	70	133/92	B	POSITIVE	NAD	NAD	NAD	
38	MD ARWAJ	M.A ENTERPRISE	HELPER	C10408	28	55	98	145/91	B	POSITIVE	NAD	NAD	NAD	
39	PRASANTA BOURI	M.A ENTERPRISE	HELPER	C10404	35	75	95	120/75	A	POSITIVE	NAD	NAD	NAD	
40	SUMAN PAL	M.A ENTERPRISE	WELDER	C10413	32	80	105	128/78	AB	POSITIVE	NAD	NAD	NAD	

NOTE
RBS:-Random blood sugar
BP:-BLOOD PRESSURE
WMR:- WORK RELATED MEDICAL REHABILITATION.
NAD:- NO ABNORMALITY DETECTED.

Dr. Santanu Mondal
MBBS (Cal) D.C.H. (Del.)
Authorised Medical Attendant
Regn. No. - 53861 (WB MC)

SHAKAMBHARI GROUP
#SteelWithin

ELOQUENT STEEL PRIVATE LIMITED

Health Checkup Summery Under Form 17

NAKRAJORIA, PO. & PS. SALANPUR, DIST. WEST BURDWAN, WEST BENGAL, PIN-713357

Periodical Health checkup details of Employee Dated From 03.12.2024 - 10.12.2024

ON ROLL EMPLOYEE

Sl. No.	Name of the Employees	Employee Code	Designation	AGE	PARAMETERS								
					Weight	RBS	BP	Blood Group	RH factor	Audiomatry	Pulmonary Function Test	Chest x-ray	Remarks
1	MUKUL CHANDRA ROY	E10000465	ACCOUNT EXECUTIVE	57	72	102	130/80	A	POSITIVE	NAD	NAD	NAD	
2	SUMAN KUMAR	E10000525	FITTER	33	56	98	110/70	B	POSITIVE	NAD	NAD	NAD	
3	RAMESH YADAV	E10000659	TURNER	30	55	81	100/70	O	POSITIVE	NAD	NAD	NAD	
4	DHIRAJ KR VARMA	E10000678	FITTER	35	65	73	110/70	O	POSITIVE	NAD	NAD	NAD	
5	VIJAY KUMAR	E10000504	TURNER	30	58	82	140/80	O	POSITIVE	NAD	NAD	NAD	
6	SEKHAR LAL	E10000520	SHAPERMAN	28	72	76	120/80	O	POSITIVE	NAD	NAD	NAD	
7	AKASH MAHATO	E10000497	FITTER	25	54	86	110/70	O	POSITIVE	NAD	NAD	NAD	
8	BHUNILAL YADAV	E10000662	SHAPERMAN	29	67	85	120/70	B	POSITIVE	NAD	NAD	NAD	
9	SONTOSH YADAV	E10000628	TURNER	29	51	88	110/80	B	POSITIVE	NAD	NAD	NAD	
10	DEBASISH SEN	E10000543	SR. CHEMIST	37	66	88	100/70	B	NEGATIVE	NAD	NAD	NAD	
11	NAND LAL MAURYA	E10000521	PLANT HEAD	48	77	87	110/70	B	POSITIVE	NAD	NAD	NAD	
12	SASTI DUTTA	E10000122	SUPERVISOR	54	63	80	140/77	B	POSITIVE	NAD	NAD	NAD	
13	T.N PATRA	E10000002	GM	40	85	115	130/80	O	POSITIVE	NAD	NAD	NAD	
14	ABHAY KUMAR SHRIVASTAVA	E10000003	PRODUCTION MANAGER	39	92	98	120/80	O	POSITIVE	NAD	NAD	NAD	
15	SANTOSH MITRA	E10000622	AGM COM	41	71	84	120/90	O	POSITIVE	NAD	NAD	NAD	
16	JITENDER JHA	E10000527	AGM HR	42	65	101	130/70	O	POSITIVE	NAD	NAD	NAD	
17	SANJEEV SINGH	E10000191	ASSISTAANT MANAGER	48	81	87	120/72	B	POSITIVE	NAD	NAD	NAD	
18	MUNNA HELA	E10000045	BATCH OPERATOR	40	61	208	130/80	AB	POSITIVE	NAD	NAD	NAD	
19	GOPAL YADAV	E10000355	EXECUTIVE	47	65	69	110/80	A	POSITIVE	NAD	NAD	NAD	
20	PRASENJIT BISWAS	E10000612	DEPUTY MANAGER	45	78	68	130/90	B	POSITIVE	NAD	NAD	NAD	
21	NARAYAN SAHA	E10000613	ASST. GM	43	85	117	160/90	O	NEGATIVE	NAD	NAD	NAD	
22	BHAGIRATH DEY	E10000534	SR. FITTER	39	76	79	140/80	B	POSITIVE	NAD	NAD	NAD	
23	NIRBHAY KUMAR	E10000539	ELECTRICIAN	31	62	95	120/80	B	POSITIVE	NAD	NAD	NAD	
24	HARJEET SINGH	E10000555	WELDER	29	67	102	100/70	B	POSITIVE	NAD	NAD	NAD	
25	ANUPAM PAL	E10000345	ASST. MANAGER-ACCOUNTS	39	68	144	110/70	B	POSITIVE	NAD	NAD	NAD	
26	RAJENDRA KUMAR	E10000604	HR OFFICER	37	68	90	140/80	O	POSITIVE	NAD	NAD	NAD	
27	GOPIKANT DEY	E10000063	ELECTRICIAN	32	56	84	110/80	O	POSITIVE	NAD	NAD	NAD	
28	DHANANJAY CHAKRABORTI	E10000358	MRP OPERATOR	53	75	86	140/90	O	POSITIVE	NAD	NAD	NAD	
29	NAVEEN KUMAR SRIVASTAV	E10000472	ASST. MANAGER	36	67	87	120/80	A	POSITIVE	NAD	NAD	NAD	
30	ANAND KUMAR BARNAL	E10000419	AGM SMS ELECTRICAL	38	85	117	126/80	AB	POSITIVE	NAD	NAD	NAD	
31	KAJAL MONDAL	E10000557	ENGINEER CCM ELECTRICAL	27	64	81	130/70	AB	POSITIVE	NAD	NAD	NAD	
32	AVANEESH PANDEY	E10000633	EXECUTIVE-ACCOUNTS	49	74	103	130/85	B	NEGATIVE	NAD	NAD	NAD	
33	SAPTADIP CHEL	E10000718	DET-SMS ELECTRICAL	19	64	62	110/70	O	POSITIVE	NAD	NAD	NAD	
34	SISIR MUDI	E10000720	DET-CCM ELECTRICAL	23	60	108	130/88	A	POSITIVE	NAD	NAD	NAD	
35	SUSANTA BAGDI	E10000719	DET-CCM ELECTRICAL	22	59	85	130/85	B	POSITIVE	NAD	NAD	NAD	
36	DEEPAK KUMAR PANDEY	E10000422	ELECTRICIAN	28	66	70	135/99	B	POSITIVE	NAD	NAD	NAD	
37	PANKAJ KUMAR SINGH	E10000540	ELECTRICIAN	38	72	97	100/80	A	POSITIVE	NAD	NAD	NAD	
38	RAM KRISHNA ROY	E10000682	ELECTRICIAN	29	65	80	100/70	B	POSITIVE	NAD	NAD	NAD	
39	PRADIP KUMAR GANGULY	E10000378	HR EXECUTIVE	53	69	92	100/70	B	POSITIVE	NAD	NAD	NAD	
40	BAPI DAS	E10000700	SUPERVISOR-CIVIL	40	85	77	140/80	o	POSITIVE	NAD	NAD	NAD	

NOTE:
RBS:-Random blood sugar
BP:-BLOOD PRESSURE
WMR:- WORK RELATED MEDICAL REHABILITATION.
NAD:- NO ABNORMALITY DETECTED.

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Smondal

SHAKAMBHARI GROUP
#SteelWithin

ELOQUENT STEEL PRIVATE LIMITED

Health Checkup Summery Under Form 17

NAKRAJORIA, PO. & PS. SALANPUR, DIST. WEST BURDWAN, WEST BENGAL, PIN-713357

Periodical Health checkup details of Employees Dated From 03.12.2024-10.12.2024

ON ROLL EMPLOYEE

Sl. No.	Name of the Employees	Father's name	Designation	AGE	PARAMETERS								
					Weight	RBS	BP	Blood Group	RH factor	Audiomatry	Pulmonary Function Test	Chest x-ray	Remarks
41	HARENDER YADAV	E10000597	RMD SHIFT INCHARGR	37	62	80	120/90	A	POSITIVE	NAD	NAD	NAD	
42	ABHISEK SHARMA	E10000666	ASST. MANAGER(RMD-DISPATCH)	40	68	105	130/80	B	POSITIVE	NAD	NAD	NAD	
43	GAJENDRA KUMAR	E10000651	MANAGER(RMD-PRODUCTION)	34	90	84	140/80	B	POSITIVE	NAD	NAD	NAD	
44	CHANDAN CHAKRABORTY	E10000061	AGM-ELECTRICAL-FERRO	49	79	145	130/80	O	POSITIVE	NAD	NAD	NAD	
45	SANDIP GHOSH	E10000515	SR.ENGINEER(RMD-ELECTRICAL)	28	85	124	110/70	O	POSITIVE	NAD	NAD	NAD	
46	RAHUL ACHARJEE	E10000625	ADMIN-ASSITANT	29	59	98	120/80	O	POSITIVE	NAD	NAD	NAD	
47	RAHUL CHATTERJEE	E10000102	SR.EXECUTIVE-ADMIN& IR	31	61	87	110/70	A	NEGETIVE	NAD	NAD	NAD	
48	PRITHWISH JANA	E10000463	SR.OFFICER-SAFETY	33	72	96	120/80	O	POSITIVE	NAD	NAD	NAD	
49	SURAJIT GHOSH	E10000708	JR. OFFICER-SAFETY	32	65	87	130/80	O	POSITIVE	NAD	NAD	NAD	
50	KAMAL KISHOR SINGH	E10000484	OFFICER-SAFETY	39	88	90	130/70	B	POSITIVE	NAD	NAD	NAD	
51	SUNIL SONI	E10000712	SHIFT INCHARGE	48	90	87	128/88	B	POSITIVE	NAD	NAD	NAD	
52	PAVAN SAH	E10000710	SR. FITTER	46	68	110	129/78	B	POSITIVE	NAD	NAD	NAD	
53	RAHUL KUMAR	E10000716	SUPERVISOR	31	65	93	140/87	B	POSITIVE	NAD	NAD	NAD	
54	BAPI DAS	E10000700	SUPERVISOR	40	82	79	136/85	O	POSITIVE	NAD	NAD	NAD	
55	SUMAN DAS	E10000689	PUMP OPERATOR	27	73	86	127/77	A	POSITIVE	NAD	NAD	NAD	
56	BASANT PANDEY	E10000552	MANAGER	54	86	91	141/92	AB	POSITIVE	NAD	NAD	NAD	
57	JYOTI PRAKASH	E10000554	SR. ENGINEER	36	80	109	120/81	O	POSITIVE	NAD	NAD	NAD	
58	DHANANJAY RAI	E10000544	ELECTRICIAN	26	55	120	125/79	O	POSITIVE	NAD	NAD	NAD	
59	NIRBHAY KUMAR	E10000539	ELECTRICIAN	30	69	105	128/86	B	POSITIVE	NAD	NAD	NAD	
60	MADHAB BANERJEE	E10000532	FITTER	28	71	96	136/75	O	POSITIVE	NAD	NAD	NAD	
61	PRAMOD KUMAR SINGH	E10000531	SENIOR FITTER	48	89	77	130/80	AB	POSITIVE	NAD	NAD	NAD	
62	SUMAN KUMAR	E10000525	ROLL ASSEMBLY FITTER	34	67	83	124/80	B	POSITIVE	NAD	NAD	NAD	
63	SEKHAR LAL	E10000520	SHAPERMAN	28	60	92	134/81	O	POSITIVE	NAD	NAD	NAD	
64	RATAN HALDER	E10000516	MILL FITTER	44	82	81	126/76	A	POSITIVE	NAD	NAD	NAD	
65	AVIJIT KARMAKAR	E10000715	OPERATOR	23	54	73	120/82	B	POSITIVE	NAD	NAD	NAD	
66	MUNNA BIHARI YADAV	E10000717	PULPIT OPERATOR	26	61	93	110/70	O	POSITIVE	NAD	NAD	NAD	
67	GOURAB BANGALI	E10000675	ELECTRICIAN	23	57	105	100/70	O	POSITIVE	NAD	NAD	NAD	
68	UJJWAL MANDAL	E10000647	PUMP OPERATOR	29	80	111	110/70	B	POSITIVE	NAD	NAD	NAD	
69	SHASHI JHA	E10000561	ASSISTANT ENGINEER	32	72	79	130/78	A	POSITIVE	NAD	NAD	NAD	

NOTE

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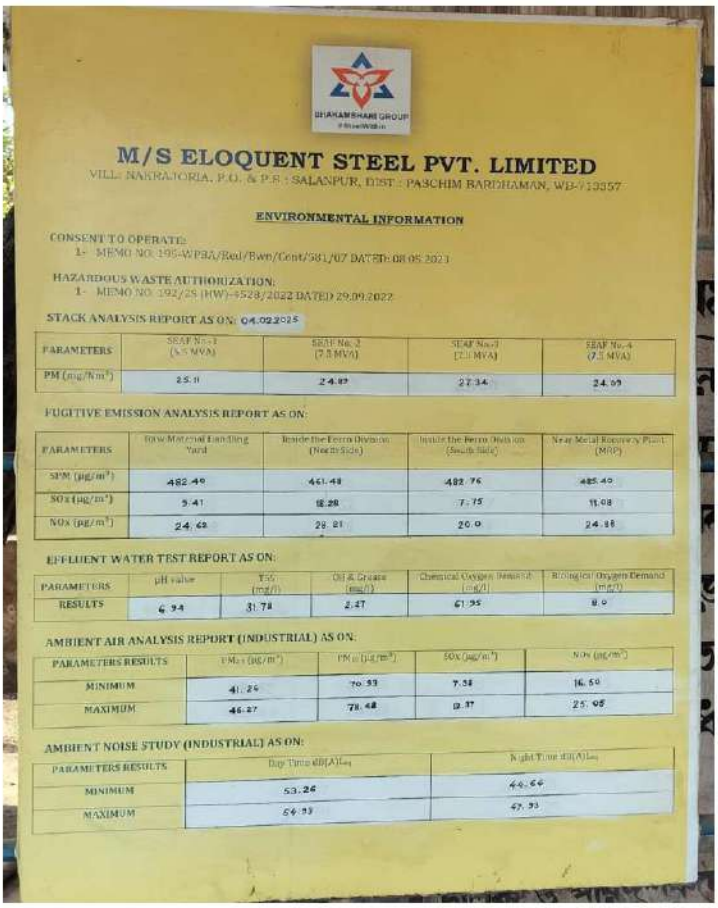
ANNEXURE-17

C.S.R Activity Report Under ELEGANT CARE Octobor -2024 to March -2025			
SL NO	ACTIVITY NAME	PLACE	PHOTO
1	Providing Wheel barrow for lifting of garbage from village area of Dendua gram panchayat.	Dendua gram panchayat	
2	Providing Barricade to Kulti traffic for controling the road traffic.	kulti traffice police &Neamatpur traffic police	
3	Distrbution of food & grocery items to Old age home.	Hindustan cables Punarbasan samity	
4	Supplying water tanker twice a day. for sprinkling of water in local areas for the road dust suppression.	Dendua panchyat area	
5	Greenery Development in Primary School	Primary school nakrajoria paschim bardhaman	
6	Tiffin& Gift Distribution in Primary School	Primary school nakrajoria paschim bardhaman	

ANNEXURE-18

ENVIRONMENTAL DATA INFORMATION BOARD



SHAKAMBHARI GROUP

M/S ELOQUENT STEEL PVT. LIMITED

VILL: NAKRATORIA, P.O. & P.S : SALANPUR, DIST : PASCHIM BARDHAMAN, WB-713357

ENVIRONMENTAL INFORMATION

CONSENT TO OPERATE:
1- MEMO NO: 195-WPBA/Rod/Bwn/Cont/581/07 DATED: 08.05.2023

HAZARDOUS WASTE AUTHORIZATION:
1- MEMO NO: 252/25 (HW)-4528/2022 DATED 29.09.2022

STACK ANALYSIS REPORT AS ON: 04.02.2025

PARAMETERS	SEAF No.-1 (5.5 MVA)	SEAF No. 2 (7.5 MVA)	SEAF No.-3 (7.5 MVA)	SEAF No.-4 (7.5 MVA)
PM (mg/Nm³)	25.11	24.87	27.34	24.09

FUGITIVE EMISSION ANALYSIS REPORT AS ON:

PARAMETERS	Raw Material Handling Yard	Inside the Feero Division (Near Scale)	Inside the Ferro Division (South Side)	Near Metal Recovery Plant (MRP)
SPM (µg/m³)	482.49	461.48	482.76	485.40
SOx (µg/m³)	5.41	12.28	7.75	11.08
NOx (µg/m³)	24.62	29.21	20.0	24.88

EFFLUENT WATER TEST REPORT AS ON:

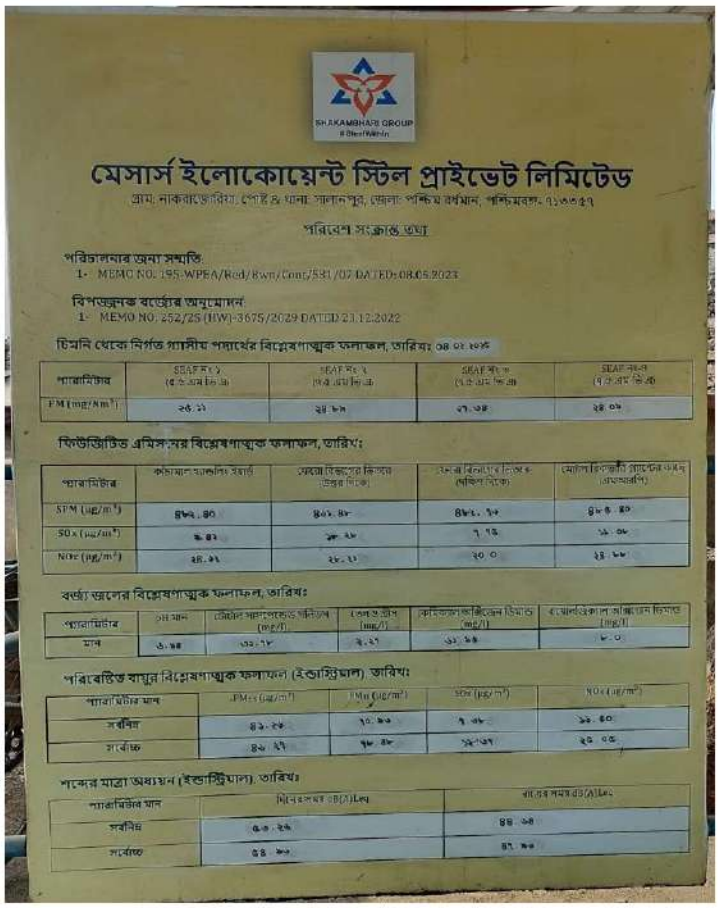
PARAMETERS	pH value	TSS (mg/l)	Oil & Grease (mg/l)	Chemical Oxygen Demand (mg/l)	Biological Oxygen Demand (mg/l)
RESULTS	6.94	31.78	2.47	61.95	8.0

AMBIENT AIR ANALYSIS REPORT (INDUSTRIAL) AS ON:

PARAMETERS RESULTS	PM2.5 (µg/m³)	PM10 (µg/m³)	SOx (µg/m³)	NOx (µg/m³)
MINIMUM	41.29	70.53	7.38	16.50
MAXIMUM	46.27	78.48	9.37	25.05

AMBIENT NOISE STUDY (INDUSTRIAL) AS ON:

PARAMETERS RESULTS	Day Time dB(A)Leq	Night Time dB(A)Leq
MINIMUM	53.26	44.64
MAXIMUM	64.93	47.93



SHAKAMBHARI GROUP

মেসার্স ইলোকোয়েন্ট স্টিল প্রাইভেট লিমিটেড

গ্রাম: নাকরাতোরিয়া, পোষ্ট & থানা: সালানপুর, জেলা: পশ্চিম বর্ধমান, পশ্চিমবঙ্গ- ৭১৩৩৫৭

পরিবেশ সংক্রান্ত তথ্য

পরিচালনার জন্য সম্মতি:
1- MEMO NO: 195-WPBA/Rod/Bwn/Cont/581/07 DATED: 08.05.2023

বিপজ্জনক বর্জ্যের অনুমোদন:
1- MEMO NO: 252/25 (HW)-3675/2029 DATED 23.12.2022

চিমনি থেকে নির্গত গ্যাসীয় পদার্থের বিশ্লেষণাত্মক ফলাফল, তারিখ: ০৪.০২.২০২৫

প্যারামিটার	SEAF No.-1 (৫.৫ এম ভি এ)	SEAF No.-2 (৭.৫ এম ভি এ)	SEAF No.-3 (৭.৫ এম ভি এ)	SEAF No.-4 (৭.৫ এম ভি এ)
PM (mg/Nm³)	২৫.১১	২৪.৮৭	২৭.৩৪	২৪.০৯

ফিউজিটিভ এমিসনের বিশ্লেষণাত্মক ফলাফল, তারিখ:

প্যারামিটার	কাঁচামাল হ্যান্ডলিং ইয়ার্ড	ফেরো বিভাগের ভিতর (উত্তর দিক)	ফেরো বিভাগের ভিতর (দক্ষিণ দিক)	মেটাল রিকভারী প্লান্টের কাছে (এমআরপি)
SPM (µg/m³)	৪৮২.৪৯	৪৬১.৪৮	৪৮২.৭৬	৪৮৫.৪০
SOx (µg/m³)	৫.৪১	১২.২৮	৭.৭৫	১১.০৮
NOx (µg/m³)	২৪.৬২	২৯.২১	২০.০	২৪.৮৮

বর্জ্য জলের বিশ্লেষণাত্মক ফলাফল, তারিখ:

প্যারামিটার	pH মান	টোটাল সাসপেন্ডেড সলিডস (mg/l)	তেল ও গ্রীজ (mg/l)	কেমিক্যাল অক্সিজেন ডিমান্ড (mg/l)	বায়োলজিক্যাল অক্সিজেন ডিমান্ড (mg/l)
মান	৬.৯৪	৩১.৭৮	২.৪৭	৬১.৯৫	৮.০

পরিবেষ্টিত বায়ুর বিশ্লেষণাত্মক ফলাফল (ইন্ডাস্ট্রিয়াল) তারিখ:

প্যারামিটার মান	PM2.5 (µg/m³)	PM10 (µg/m³)	SOx (µg/m³)	NOx (µg/m³)
সর্বনিম্ন	৪১.২৯	৭০.৫৩	৭.৩৮	১৬.৫০
সর্বোচ্চ	৪৬.২৭	৭৮.৪৮	৯.৩৭	২৫.০৫

শব্দের মাত্রা অধ্যয়ন (ইন্ডাস্ট্রিয়াল), তারিখ:

প্যারামিটার মান	দিনের সময় dB(A)Leq	রাতের সময় dB(A)Leq
সর্বনিম্ন	৫৩.২৬	৪৪.৬৪
সর্বোচ্চ	৬৪.৯৩	৪৭.৯৩