

Ref: - ESPL/SMC/APRIL-2024 TO SEPT-2024

Date: 25.11.2024

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 (April-2024 to Sept-2024) Compliance to Environmental Clearance of M/s Eloquent Steel Pvt. Limited, Vill-Nakrajoria, PO & PS-Salanpur, Dist.-Paschim Bardhaman-713357, (WB)

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

Respected Ma'am,

With reference to the above, we are submitting herewith the six-monthly compliance report (Period April-2024 to Sept-2024) for M/s Eloquent Steel Pvt. Limited, Vill-Nakrajoria, PO & PS-Salanpur, Dist.-Paschim Bardhaman (WB) as per the directives of Ministry of Environment Forest and Climate Change, Government of India. Point wise compliance status report along with latest environment monitoring data is enclosed for your kind consideration.

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

Kindly acknowledge our submission.

With regards.

Yours Faithfully,

For Eloquent Steel Pvt. Ltd.

Authorized Signatory

Encl: as above

Copy to:

The Environmental Engineer, West Bengal Pollution Control Board, Asansol Regional Office, Kalyanpur 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. LTD. Village: Nakrajoria, P.O.: Salanpur, Dist.- Paschim Bardhaman (WB)
EC Reference No.	:	F. No.: J-11011/188/2011-IA. II(I) dated 16 th March, 2023
Period of Compliance Report	:	April 2024- September 2024.

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/shall be complied with project Implementation.
ii.	The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.	Noted. The company has taken into considerations to adopt more carbon efficient technologies available in the market at planning stage for integrations of new equipment 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.
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/shall be 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/Nm³. 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 safeguard measures to minimise the impact on the habitation of the locals. The PP shall also include these locations in its environmental monitoring programme.	Noted. Dense plantation towards Dendua village has been done. Regular water sprinkling during dry weather 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 4 th hole extraction system for fume pollution control.	It is complied.
xiii.	Fe-Cr slag shall be subjected to TCLP to finalize if it could be used for construction or should be sent to TSDF	Noted and it shall be complied. 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 for sewage water handling to ensure no contamination of any kind of water body.	Recycle and reuse practice has been adapted for industrial waste water. No industrial effluent being discharged outside the factory premises. For domestic sewage effluent treatment, septic tank followed by soak pit facilities are provided. STP shall be installed for the treatment of domestic waste water and treated water shall be re-used for greenbelt development and plantation and dust suppression. Effluent analysis report is enclosed as Annexure-7
xix.	All stockyards shall be having impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have provision of garland drains and catch pits to trap run off material. Action plan submitted in the EIA/EMP Report shall be strictly implemented.	Impervious flooring of stockyard 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	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.



	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.	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 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 Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.	Proper air pollution control device (APCDs) like bag filters, dust extraction system, water sprinklers, are 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. 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). Project activities for installation of expansion project has been started. Existing project of SAF is already under operation with valid CTO obtained from WBPCB. Copies of CTE and CTOs are attached as Annexure-8
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II. Air quality monitoring and preservation

i.	The project proponent shall install 24x7 continuous emission monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31 st March 2012 (Integrated iron & Steel) as amended from time to time and connected to SPCB and CPCB	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.
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	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.	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.
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 done to prevent spillage and dust generation.
vii.	The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.	Fume extraction system has been installed at melting furnace attached with spark arrester and bag filter connected with 30-meter stack height.
viii.	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.	Ventilation for proper air circulation has been provided for adequate air changes for all tunnels, motor houses, Oil Cellars with upcoming projects facilities
III. Water quality monitoring and preservation		
i.	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31 st March 2012 (Integrated iron & Steel) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under	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 .



	Environment (Protection) Act, 1986 or NABL accredited laboratories.	
ii.	The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories.	Ground water quality being monitored by NABL accredited laboratory. No ground water being extracted by the company, hence there is no scope of affecting the ground water level due to industrial activities. Latest ground water monitoring report, sample taken from the village is attached as Annexure-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) 31 st 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.
v.	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.	Being complied. Raw Material being kept under the shed iron stock pills are being covered under tarpaulin. Proper drainage system has been made to trap the contaminated water. Gar land 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 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 .
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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.
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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.

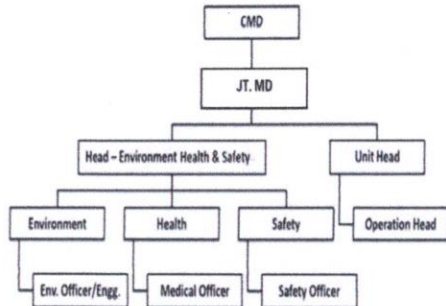
VII. Green Belt

i.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit	It shall be complied. Carbon footprint & carbon sequestration report of the project is already been prepared and submitted. Attached as Annexure-14 .
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	the programme for reduction of the same including carbon sequestration by trees.	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.
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-15
iv.	The Unit is using quartzite and coke and sought EC for expansion for alloy production. Therefore, the industry is recommended to measure silica and coal dust exposures using personal and area air samplers in process plants and to be compared with Permissible exposure limits as per Indian Factories Act, 1948. Report to be submitted to the IRO, MoEFCC.	Personnel's working for the production of Silico Manganese and Ferro Silicon being/shall be provided the PPEs like dust masks eyes safety goggles as protective measures. It shall be monitored as per direction and Indian Factories Act.
IX. Environment Management		
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-16
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.	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.



	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.	There is a reporting system in place to deal with any non-compliance/ violation of environmental norms as follows:  <pre> graph TD CMD[CMD] --> JTMD[J.T. MD] JTMD --> HES[Head - Environment Health & Safety] JTMD --> UH[Unit Head] HES --> Env[Environment] HES --> Health[Health] HES --> Safety[Safety] UH --> OH[Operation Head] Env --> EO[Env. Officer/Engg.] Health --> MO[Medical Officer] Safety --> SO[Safety Officer] </pre>
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-  <pre> graph TD CMD[CMD] --> JTMD[J.T. MD] JTMD --> HES[Head - Environment Health & Safety] JTMD --> UH[Unit Head] HES --> Env[Environment] HES --> Health[Health] HES --> Safety[Safety] UH --> OH[Operation Head] Env --> EO[Env. Officer/Engg.] Health --> MO[Medical Officer] Safety --> SO[Safety Officer] </pre>
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 is 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; PM₁₀, SO₂, NO_x (ambient	It is being/shall be complied.



	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.	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 -17 .
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. Previous year Environment Statement in Form-V for FY 2023-24 has already submitted to WBPCB with a copy to MoEFCC sub Office Kolkata and also uploaded on company's website.
vii.	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	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.



ANNEXURE- 1



ENVIROCHECK

Recognised by MoEF & CC, WBPCB & JSPCB
Accredited by NABL (ISO/IEC 17025:2017) & NABET (CERTIFICATE NO. - NABET/EIA/2326/IA 0117)
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001 : 2018



TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	:	Eloquent Steel Pvt. Ltd.	Type of Industry	:	Ferro Alloy and SMS Unit
Address	:	Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - Paschim Bardhaman	Sampling Date	:	09.09.2024
			Period of Analysis	:	14.09.2024 - 14.09.2024
			Date of Issue	:	16.09.2024
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/23/Sep./A/I
			Report No.	:	ENV/23/Sep./TR(A)/1/24-25

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	SEAF (No.2) (7.5 MVA)
Shape of Stack	:	Circular
		Height of Stack (mtr.) (from G. L.) : 36.0
Materials of Construction	:	M.S.
		Stack I.D. at sampling point (mtr.) : 1.50
Capacity	:	7.5 MVA
		Height of sampling port (mtr.) (from G.L.) : 30.0
Emission Due to	:	Reduction of Mn-Ore
Fuel Used	:	Electrically Operated
		Permanent Platform & Ladder : Yes
Working Fuel Consumption	:	Nil
Pollution Control Device	:	Bag Filter

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	24.64
2.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	1.4
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	24.19

Remarks : Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharya

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. Ajoy Paul

Dr. AJOY PAUL
Quality Manager



ENVIROCHECK

Recognised by MoEF & CC, WBPCB & JSPCB

Accredited by NABL (ISO/IEC 17025:2017) & NABET (CERTIFICATE NO. - NABET/EIA/2326/IA 0117)

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



TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	:	Eloquent Steel Pvt. Ltd.	Type of Industry	:	Ferro Alloy and SMS Unit
Address	:	Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - Paschim Bardhaman	Sampling Date	:	09.09.2024
			Period of Analysis	:	14.09.2024 - 14.09.2024
			Date of Issue	:	16.09.2024
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/23/Sep./A/II
			Report No.	:	ENV/23/Sep./TR(A)/II/24-25

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

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

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	23.35
2.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	1.6
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	28.90

Remarks : Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharya

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. Ajoy Paul

Dr. AJAY PAUL
Quality Manager



ENVIROCHECK

Recognised by MoEF & CC, WBPCB & JSPCB
Accredited by NABL (ISO/IEC 17025:2017) & NABET (CERTIFICATE NO. - NABET/EIA/2326/IA 0117)
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001 : 2018



TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	:	Eloquent Steel Pvt. Ltd.	Type of Industry	:	Ferro Alloy and SMS Unit
Address	:	Vill. – Nakrajoria, P.O. + P.S. – Salanpur, Dist. – Paschim Bardhaman	Sampling Date	:	09.09.2024
			Period of Analysis	:	14.09.2024 – 14.09.2024
			Date of Issue	:	16.09.2024
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/23/Sep./A/III
			Report No.	:	ENV/23/Sep./TR(A)/III/24-25

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	SEAF (No.4) (7.5 MVA)
Shape of Stack	:	Circular
Materials of Construction	:	M.S.
Capacity	:	7.5 MVA
Emission Due to	:	Reduction of Mn-Ore
Fuel Used	:	Electrically Operated
Working Fuel Consumption	:	Nil
Pollution Control Device	:	Bag Filter
Height of Stack (mtr.) (from G. L.)	:	36.0
Stack I.D. at sampling point (mtr.)	:	2.0
Height of sampling port (mtr.) (from G.L.)	:	30.0
Permanent Platform & Ladder	:	Yes

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	21.71
2.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	1.6
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	25.11

Remarks : Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharya

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. Ajoy Paul

Dr. AJAY PAUL
Quality Manager

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

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





पश्चिमवङ्ग पश्चिम बंगाल WEST BENGAL

47 513421

AGREEMENT

Supply of Raw Water

For

Industrial Use

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

BETWEEN

DAMODAR VALLEY CORPORATION, a Corporation constituted under the Damodar Valley Corporation Act being Act No. XIV of 1948 (hereinafter referred to as "the said Act") and having

its Headquarters of DVC Towers, VIP Road, Kolkata -700 054 in the state of West Bengal (hereinafter to as "the First Party", which term shall unless excluded by or repugnant to the subject or context include its successors-in-interest and assigns) of the ONE PART

AND

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

Rakesh Ranjan
Executive Engineer (C)

Water, Tariff Cell

RO'S Office, DVC, Barrage

[Signature]

ANNEXURE- 3

PHOTO OF RAIN WATER HARVESTING POND



ANNEXURE- 4



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB

Accredited by NABL (ISO/IEC 17025:2017)

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



TCLP REPORT

1. Name of the Industry : Eloquent Steel Pvt. Ltd.
2. Address : Vill. – Nakrajoria, P.O. + P.S. – Salanpur, Dist. – Paschim Bardhaman
3. Report No. : ENV/281C/S/M/24-25
4. Date of sampling : 09.09.2024
5. Reporting Date : 17.09.2024
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	4.82
2.	Zinc (Zn)	EPA 1311 : 1992 / APHA 23 rd Ed., 3111 B : 2017	mg./l	3.80
3.	Copper (Cu)	EPA 1311 : 1992 / EPA 3050 B, 1996/EPA 200.6 : 1998	mg./l	1.60
4.	Nickel (Ni)	EPA 1311 : 1992 / APHA 23 rd Ed., 3111 B : 2017	mg./l	0.80
5.	Lead (Pb)	EPA 1311 : 1992 / EPA 3050 B, 1996/EPA 200.9 : 1998	mg./l	0.20
6.	Cadmium (Cd)	EPA 1311 : 1992 / EPA 3050 B, 1996/IS 3050 (Part 46)	mg./l	0.12
7.	Chromium (Cr)	APHA 23 rd Ed., 3111 B : 2017	mg./l	0.16

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









CELEBRATION OF BONOMAHATSOV PROGRAM UNDER PLANT 4 MOTHER- 2024





ANNEXURE- 6

SOME PHOTOGRAPHS OF PLANT ROAD





ANNEXURE- 7



ENVIROCHECK

Recognised by MoEF & CC, WBPCB & JSPCB

Accredited by NABL (ISO/IEC 17025:2017) & NABET (CERTIFICATE NO. - NABET/EIA/2326/IA 0117)

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



FORMAT NO. ENV/FM/40

TEST REPORT

Name of the Industry	:	Eloquent Steel Pvt. Ltd.	Type of Industry	:	Ferro Alloy and SMS Unit
Address	:	Vill. – Nakrajoria, P.O. + P.S. – Salanpur, Dist. – Paschim Bardhaman	Sampling Date	:	09.09.2024
			Period of Analysis	:	10.09.2024 – 16.09.2024
			Date of Issue	:	17.09.2024
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/281A/Sep./M/W
			Report No.	:	ENV/281A/Sep./M/TR(W)/24-25

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS
1.	pH	4500 H ⁺ B APHA 23 rd Edition, 2017	-	6.80
2.	Total Suspended Solids	2540 D APHA 23 rd Edition, 2017	mg/l	32.0
3.	Oil & Grease	5520 B/D APHA 23 rd Edition, 2017	mg/l	3.0
4.	Chemical Oxygen Demand	5220 B/C/D APHA 23 rd Edition, 2017	mg/l	60.0
5.	Biochemical Oxygen Demand for 5 days at 20°C	5210 B APHA 23 rd Edition, 2017	mg/l	7.0

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

Dr. AJJOY PAUL

Quality Manager

<End of Report>

ANNEXURE- 8

NOC NO180715

SPEED POST



WEST BENGAL POLLUTION CONTROL BOARD

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

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

Dated 08.05.2023

From :
Member Secretary,
West Bengal Pollution Control Board

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

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

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

Dear Sirs,

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

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

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

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

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

NOC NO180715

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

SPECIAL CONDITION:

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

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

Yours faithfully,

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

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

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

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

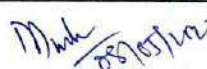
[Signature] 08/05/2023
Member Secretary/Chief Engineer
West Bengal Pollution Control Board
(EIM CELL)
Chief Engineer
W. B. Pollution Control Board
Dept. of Environment, Govt. of W.B.

Annexure – I to NOC NO180715

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

UNIT CONFIGURATION AND CAPACITY

Sl. No.	Plant Equipment/F acility	Existing facilities as per EC dated 28.07.2008, 11.12.2008, 03.09.2012 and 20.09.2012				Proposed Units	Final (Existing + Proposed)		Re mar ks
		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 2,10,000 Rolled Products (TMT Bar, MS Round & Wire Rod)	600TPD 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 1,08,000	300 TPD 1,08,000	-	
6	Briquette Plant	-	-	-	-	1x25 TPH 1,50,000	1x25 TPH 1,50,000	-	


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

Annexure – II to NOC NO180715

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

AIR POLLUTION CONTROL DEVICE DETAILS WITH STAK

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

Muk
08/05/2023
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 21st 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.

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

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

[Signature]
08/05/2023

Chief Engineer (EIM Cell)

West Bengal Pollution Control Board

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

WEST BENGAL POLLUTION CONTROL BOARD

'Paribesh Bhawan'

Bldg. No. - 10A, Block - LA, Sector-III

Salt Lake City, Kolkata-700 098



Consent Letter Number : C0134657

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

Date : 8.5.2023

Consent to Operate

under

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

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

M/s. Elquent Steel Private Limited

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

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

Salampur, Dist - Paschim Bardhaman, PIN - 713357

(Detailed address of the manufacturing unit)

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

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

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

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



For and on behalf of the State Board

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

ANNEXURE

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

Conditions :

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

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

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

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

Continued.....

Continued.....

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

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

Table-II

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

12/08/23

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

Continued.....

(5)

Consent to Ms Eloquent Steel Private Limited
 for its unit at vill- Nakrajarua, 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		2X250 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 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

(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- Nakragoria, PO & PS- Salanpur, Dist- Paschim
Bardhaman, PIN- 713357

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

Additional Conditions

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

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

08/05/13

Annexure I

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

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


Environmental Engineer
Asansol Regional Office



Government of West Bengal

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Gibansa Mukherjee

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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WBPCB/4029628/2023

Page1



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:



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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/N m3)	CO(%)	Acid Mist(mg/N m3)	Pb(mg/Nm 3)	SO2(mg/N m3)	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 :

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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 Industry shall maintain adequate number of qualified and trained personnel among its staff for proper maintenance and operation of the effluent treatment and/or emission control devices and for overall environment 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.

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WBPCB/4029628/2023

Page4



- 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 least 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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WBPCB/4029628/2023

Page5





Government of West Bengal

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Gibansa Mukherjee

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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WBPCB/4932864/2024

Page1



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/N m3)	CO(%)	Acid Mist(mg/N m3)	Pb(mg/Nm 3)	SO2(mg/N m3)	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.

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WBPCB/4932864/2024

Page3



- 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 Industry shall maintain adequate number of qualified and trained personnel among its staff for proper maintenance and operation of the effluent treatment and/or emission control devices and for overall environment 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 least 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.

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WBPCB/4932864/2024

Page4



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

29/04/2024

Senior Environmental Engineer
Operation & Execution Cell



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WBPCB/4932864/2024
Page5



ANNEXURE- 9



ENVIROCHECK

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



TEST REPORT

FORMAT NO : ENV/FM/37

Name of the Industry	:	Eloquent Steel Pvt. Ltd.	Type of Industry	:	Ferro Alloy and SMS Unit
Address	:	Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - Paschim Bardhaman	Sampling Date	:	09.09.2024 - 10.09.2024
			Period of Analysis	:	14.09.2024 - 14.09.2024
			Date of Issue	:	16.09.2024
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/23/Sep./A/IV
			Report No.	:	ENV/23/Sep./TR(A)/IV/24-25

A] GENERAL INFORMATION

1. Location of Sampling : Near Main Gate
2. Duration of Sampling : 24 hrs. (09:30 a.m. - 09:30 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 32.0
2. Average Relative Humidity (%) : 67.0
3. Barometric Pressure (mm of Hg) : 750.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear & Occasionally Cloudy

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM _{2.5}	µg/m ³	IS 5182 (Part 24) : 2019	41.42
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	76.20
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2017& ASTM D 2914-01, Sec. 11 (Vol. 11.07) : 2017	12.84
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2017& ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	26.47
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10) : 2019	0.28
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) : 2019	<0.01
7.	Benzo (a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12) : 2019 & ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.36
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2017& ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.74
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-9) : 2019	<10.0
10.	Ammonia (NH ₃)	µg/m ³	IS 5182 (Part 25) : 2018	<4.18
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999& APHA 23 rd Ed 3114C : 2017	<0.01

Remarks : Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharya

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. Ajoy Paul

Dr. AJOY PAUL
Quality Manager



ENVIROCHECK

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



TEST REPORT

FORMAT NO : ENV/FM/37

Name of the Industry	:	Eloquent Steel Pvt. Ltd.	Type of Industry	:	Ferro Alloy and SMS Unit
Address	:	Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - Paschim Bardhaman	Sampling Date	:	09.09.2024 - 10.09.2024
			Period of Analysis	:	14.09.2024 - 14.09.2024
			Date of Issue	:	16.09.2024
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/23/Sep./A/V
			Report No.	:	ENV/23/Sep./TR(A)/V/24-25

A] GENERAL INFORMATION

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

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 32.0
2. Average Relative Humidity (%) : 67.0
3. Barometric Pressure (mm of Hg) : 750.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear & Occasionally Cloudy

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM _{2.5}	µg/m ³	IS 5182 (Part 24) : 2019	41.40
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	73.78
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2017& ASTM D 2914-01, Sec. 11 (Vol. 11.07) : 2017	8.56
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2017& ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	26.47
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 ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2017& ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.74
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-9) : 2019	<10.0
10.	Ammonia (NH ₃)	µg/m ³	IS 5182 (Part 25) : 2018	<4.18
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999& APHA 23 rd Ed 3114C : 2017	<0.01

Remarks : Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharya

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Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. Ajoy Paul

Dr. AJOY PAUL
Quality Manager



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



TEST REPORT

FORMAT NO : ENV/FM/37

Name of the Industry	:	Eloquent Steel Pvt. Ltd.	Type of Industry	:	Ferro Alloy and SMS Unit
Address	:	Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - Paschim Bardhaman	Sampling Date	:	09.09.2024 - 10.09.2024
			Period of Analysis	:	14.09.2024 - 14.09.2024
			Date of Issue	:	16.09.2024
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/23/Sep./A/VI
			Report No.	:	ENV/23/Sep./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. (10:00 a.m. - 10:00 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 33.0
2. Average Relative Humidity (%) : 68.0
3. Barometric Pressure (mm of Hg) : 750.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear & Occasionally Cloudy

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM _{2.5}	µg/m ³	IS 5182 (Part 24) : 2019	41.44
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	69.16
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2017& ASTM D 2914-01, Sec. 11 (Vol. 11.07) : 2017	7.28
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2017& ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	19.95
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 ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2017& ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.74
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-9) : 2019	<10.0
10.	Ammonia (NH ₃)	µg/m ³	IS 5182 (Part 25) : 2018	<4.18
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999& APHA 23 rd Ed 3114C : 2017	<0.01

Remarks : Result relates only to the sample tested.

Reviewed By :

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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	:	10.09.2024 - 11.09.2024
			Period of Analysis	:	14.09.2024 - 14.09.2024
			Date of Issue	:	16.09.2024
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/23/Sep./A/VII
			Report No.	:	ENV/23/Sep./TR(A)/VII/24-25

A] GENERAL INFORMATION

1. Location of Sampling : Nakrajoria Village (1 Km. Distance From the Plant)
2. Duration of Sampling : 24 hrs. (07:00 a.m. - 07:00 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 30.0
2. Average Relative Humidity (%) : 64.0
3. Barometric Pressure (mm of Hg) : 750.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear & Occasionally Cloudy

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM _{2.5}	µg/m ³	IS 5182 (Part 24) : 2019	38.96
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	74.06
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2017& ASTM D 2914-01,Sec. 11 (Vol. 11.07) : 2017	7.06
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2017& ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	21.45
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10) : 2019	0.18
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 ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2017& ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.74
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-9) : 2019	<10.0
10.	Ammonia (NH ₃)	µg/m ³	IS 5182 (Part 25) : 2018	<4.18
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999& APHA 23 rd Ed 3114C : 2017	<0.01

Remarks : Result relates only to the sample tested.

Reviewed By :

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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	:	10.09.2024 - 11.09.2024
			Period of Analysis	:	14.09.2024 - 14.09.2024
			Date of Issue	:	16.09.2024
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/23/Sep./A/VIII
			Report No.	:	ENV/23/Sep./TR(A)/VIII/24-25

A] GENERAL INFORMATION

1. Location of Sampling : Dendua Village (1 Km. Distance From the Plant)
2. Duration of Sampling : 24 hrs. (08:00 a.m. - 08:00 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 30.0
2. Average Relative Humidity (%) : 64.0
3. Barometric Pressure (mm of Hg) : 750.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear & Occasionally Cloudy

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM _{2.5}	µg/m ³	IS 5182 (Part 24) : 2019	38.52
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	67.16
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2017& ASTM D 2914-01, Sec. 11 (Vol. 11.07) : 2017	6.85
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2017& ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	21.0
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 ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2017& ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.74
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-9) : 2019	<10.0
10.	Ammonia (NH ₃)	µg/m ³	IS 5182 (Part 25) : 2018	<4.18
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999& APHA 23 rd Ed 3114C : 2017	<0.01

Remarks : Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharya

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Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. Ajoy Paul

Dr. AJOY PAUL
Quality Manager

ANNEXURE-10



ENVIROCHECK

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



TEST REPORT

FORMAT NO : ENV/FM/57

Name of the Industry	:	Eloquent Steel Pvt. Ltd.	Type of Industry	:	Ferro Alloy and SMS Unit
Address	:	Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - Paschim Bardhaman	Sampling Date	:	10.09.2024
			Period of Analysis	:	14.09.2024 - 14.09.2024
			Date of Issue	:	16.09.2024
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/23/Sep./A/IX
			Report No.	:	ENV/23/Sep./TR(A)/IX/24-25

A] GENERAL INFORMATION

1. Location of Sampling : Inside the Ferro Division (North Side)
2. Duration of Sampling : 08 hrs. (09:45 a.m. - 05:45 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 35.0
2. Average Relative Humidity (%) : 70.0
3. Barometric Pressure (mm of Hg) : 750.0
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	460.06

Remarks : Result relates only to the sample tested.

Reviewed By :

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Quality Manager



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



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. – Nakrajaoria, P.O. + P.S. – Salanpur, Dist. – Paschim Bardhaman				Sampling Date	:	10.09.2024			
						Period of Analysis	:	14.09.2024 – 14.09.2024			
						Date of Issue	:	16.09.2024			
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/23/Sep./A/IX		Report No.	:	ENV/23/Sep./TR(A)/IX/24-25		

A] GENERAL INFORMATION

1. Location of Sampling : Inside the Ferro Division (North Side)
2. Duration of Sampling : 08 hrs. (09:45 a.m. – 05:45 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 35.0
2. Average Relative Humidity (%) : 70.0
3. Barometric Pressure (mm of Hg) : 750.0
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	18.62
2.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2017& ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	26.10

Remarks : Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharya

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. Ajoy Paul

Dr. AJOY PAUL
Quality Manager





ENVIROCHECK

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



TEST REPORT

FORMAT NO : ENV/FM/57

Name of the Industry	:	Eloquent Steel Pvt. Ltd.	Type of Industry	:	Ferro Alloy and SMS Unit
Address	:	Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - Paschim Bardhaman	Sampling Date	:	10.09.2024
			Period of Analysis	:	14.09.2024 - 14.09.2024
			Date of Issue	:	16.09.2024
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/23/Sep./A/X
			Report No.	:	ENV/23/Sep./TR(A)/X/24-25

A] GENERAL INFORMATION

1. Location of Sampling : Inside the Ferro Division (South Side)
2. Duration of Sampling : 08 hrs. (09:50 a.m. - 05:50 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 35.0
2. Average Relative Humidity (%) : 70.0
3. Barometric Pressure (mm of Hg) : 750.0
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	491.52

Remarks : Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharya

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. Ajoy Paul

Dr. AJAY PAUL
Quality Manager



ENVIROCHECK

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



TEST REPORT

FORMAT NO : ENV/FM/57

Name of the Industry	:	Eloquent Steel Pvt. Ltd.	Type of Industry	:	Ferro Alloy and SMS Unit
Address	:	Vill. – Nakrajaoria, P.O. + P.S. – Salanpur, Dist. – Paschim Bardhaman	Sampling Date	:	10.09.2024
			Period of Analysis	:	14.09.2024 – 14.09.2024
			Date of Issue	:	16.09.2024
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/23/Sep./A/X
			Report No.	:	ENV/23/Sep./TR(A)/X/24-25

A] GENERAL INFORMATION

1. Location of Sampling : Inside the Ferro Division (South Side)
2. Duration of Sampling : 08 hrs. (09:50 a.m. – 05:50 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 35.0
2. Average Relative Humidity (%) : 70.0
3. Barometric Pressure (mm of Hg) : 750.0
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	19.27
2.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2017& ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	38.48

Remarks : Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharya

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. Ajoy Paul

Dr. AJJOY PAUL
Quality Manager





ENVIROCHECK

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



TEST REPORT

FORMAT NO : ENV/FM/57

Name of the Industry	:	Eloquent Steel Pvt. Ltd.	Type of Industry	:	Ferro Alloy and SMS Unit
Address	:	Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - Paschim Bardhaman	Sampling Date	:	10.09.2024
			Period of Analysis	:	14.09.2024 - 14.09.2024
			Date of Issue	:	16.09.2024
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/23/Sep./A/XI
			Report No.	:	ENV/23/Sep./TR(A)/XI/24-25

A] GENERAL INFORMATION

1. Location of Sampling : Inside the Raw Materials Stock Yard
2. Duration of Sampling : 08 hrs. (10:00 a.m. - 06:00 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 33.0
2. Average Relative Humidity (%) : 68.0
3. Barometric Pressure (mm of Hg) : 750.0
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	430.14

Remarks : Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharya

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. Ajoy Paul

Dr. AJAY PAUL
Quality Manager



ENVIROCHECK

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



TEST REPORT

FORMAT NO : ENV/FM/57

Name of the Industry	:	Eloquent Steel Pvt. Ltd.	Type of Industry	:	Ferro Alloy and SMS Unit
Address	:	Vill. – Nakrajoria, P.O. + P.S. – Salanpur, Dist. – Paschim Bardhaman	Sampling Date	:	10.09.2024
			Period of Analysis	:	14.09.2024 – 14.09.2024
			Date of Issue	:	16.09.2024
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/23/Sep./A/XI
			Report No.	:	ENV/23/Sep./TR(A)/XI/24-25

A] GENERAL INFORMATION

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

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 33.0
2. Average Relative Humidity (%) : 68.0
3. Barometric Pressure (mm of Hg) : 750.0
4. Smell or Odour : No Remarkable Smell

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2017& ASTM D 2914-01,Sec. 11 (Vol. 11.07) : 2017	7.06
2.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2017& ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	24.98

Remarks : Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharya

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. Ajoy Paul

Dr. AJJOY PAUL
Quality Manager





ENVIROCHECK

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



TEST REPORT

FORMAT NO : ENV/FM/57

Name of the Industry	:	Eloquent Steel Pvt. Ltd.	Type of Industry	:	Ferro Alloy and SMS Unit
Address	:	Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - Paschim Bardhaman	Sampling Date	:	10.09.2024
			Period of Analysis	:	14.09.2024 - 14.09.2024
			Date of Issue	:	16.09.2024
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/23/Sep./A/XII
			Report No.	:	ENV/23/Sep./TR(A)/XII/24-25

A] GENERAL INFORMATION

1. Location of Sampling : Near MRP Plant
2. Duration of Sampling : 08 hrs. (10:30 a.m. - 06:30 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 33.0
2. Average Relative Humidity (%) : 68.0
3. Barometric Pressure (mm of Hg) : 750.0
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	480.50

Remarks : Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharya

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. Ajoy Paul

Dr. AJAY PAUL
Quality Manager



ENVIROCHECK

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



TEST REPORT

FORMAT NO : ENV/FM/57

Name of the Industry	:	Eloquent Steel Pvt. Ltd.	Type of Industry	:	Ferro Alloy and SMS Unit
Address	:	Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - Paschim Bardhaman	Sampling Date	:	10.09.2024
			Period of Analysis	:	14.09.2024 - 14.09.2024
			Date of Issue	:	16.09.2024
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/23/Sep./A/XI
			Report No.	:	ENV/23/Sep./TR(A)/XI/24-25

A] GENERAL INFORMATION

1. Location of Sampling : Near MRP Plant
2. Duration of Sampling : 08 hrs. (10:30 a.m. - 06:30 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 33.0
2. Average Relative Humidity (%) : 68.0
3. Barometric Pressure (mm of Hg) : 750.0
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	8.20
2.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2017& ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	28.50

Remarks : Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharya

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. Ajoy Paul

Dr. AJJOY PAUL
Quality Manager

<End of Report>



ANNEXURE-11



ENVIROCHECK

Recognised by MoEF & CC, WBPCB & JSPCB

Accredited by NABL (ISO/IEC 17025:2017) & NABET (CERTIFICATE NO. - NABET/EIA/2326/IA 0117)

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



FORMAT NO. ENV/FM/55

TEST REPORT

Name of the Industry	:	Eloquent Steel Pvt. Ltd.	Type of Industry	:	Steel & Power Unit
Address	:	Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - Paschim Bardhaman	Sampling Date	:	09.09.2024
			Period of Analysis	:	10.09.2024 - 17.09.2024
			Date of Issue	:	18.09.2024
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/281A/Sep./W/M(i)
Report No.	:	ENV/281A/Sep./TR(W)/M(i)/24-25			

PARAMETERS	METHOD	UNIT	RESULTS
1. Colour	APHA 23 rd Ed., 3111 B : 2017	Hazen	1.0
2. Odour	APHA 23 rd Ed., 2150 B : 2017	--	Odourless
3. pH	APHA 23 rd Ed., 4500 - H+B : 2017	--	6.70
4. Taste	APHA 23 rd Ed., 2160 B : 2017	--	Acceptable
5. Turbidity	APHA 23 rd Ed., 2130 B : 2047	NTU	1.80
6. Total Dissolved Solids	APHA 23 rd Ed., 2540 B : 2017	mg./l	670.0
7. Calcium	APHA 23 rd Ed., 3500 Ca-B : 2017	mg./l	46.58
8. Chloride	APHA 23 rd Ed., 4500 Cl-B/D : 2017	mg./l	72.50
9. Iron	APHA 23 rd Ed., 3111 B : 2017	mg./l	0.70
10. Magnesium	APHA 23 rd Ed., 3500 Mg-B : 2017	mg./l	7.80
11. Nitrate	APHA 23 rd Ed., NO ₃ -E : 2017	mg./l	2.50
12. Sulphate	APHA 23 rd Ed., 4500 SO ₄ -E : 2017	mg./l	62.50
13. Total Alkalinity	APHA 23 rd Ed., 2320 B : 2017	mg./l	110.0
14. Total Hardness	APHA 23 rd Ed., 2340 C : 2017	mg./l	156.0
15. Arsenic	IS 3025 (Part 37) : 1988 : 2014	mg./l	<0.01
16. Chromium	APHA 23 rd Ed., 3111 Cr-B : 2017	mg./l	<0.02
17. Boron	APHA 23 rd Ed., 4500 B-C : 2017	mg./l	<0.1

Remarks : a) Sample collected by Envirocheck and sent to lab for testing in sealed condition.

b) Result relates only to the sample tested.

Reviewed By :

DURBADAL CHAKRABORTY
Dy. Quality Manager

Authorised Signatory :

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical



ENVIROCHECK

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



FORMAT NO. ENV/FM/55

TEST REPORT

Name of the Industry	:	Eloquent Steel Pvt. Ltd.	Type of Industry	:	Steel & Power Unit
Address	:	Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - Paschim Bardhaman	Sampling Date	:	09.09.2024
			Period of Analysis	:	10.09.2024 - 17.09.2024
			Date of Issue	:	18.09.2024
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/281A/Sep./W/M(ii)
Report No.	:	ENV/281A/Sep./TR(W)/M(ii)/24-25			

PARAMETERS	METHOD	UNIT	RESULTS
1. Colour	APHA 23 rd Ed., 3111 B : 2017	Hazen	1.0
2. Odour	APHA 23 rd Ed., 2150 B : 2017	--	Odourless
3. pH	APHA 23 rd Ed., 4500 - H+B : 2017	--	6.80
4. Taste	APHA 23 rd Ed., 2160 B : 2017	--	Acceptable
5. Turbidity	APHA 23 rd Ed., 2130 B : 2047	NTU	1.76
6. Total Dissolved Solids	APHA 23 rd Ed., 2540 B : 2017	mg./l	560.0
7. Calcium	APHA 23 rd Ed., 3500 Ca-B : 2017	mg./l	36.50
8. Chloride	APHA 23 rd Ed., 4500 Cl-B/D : 2017	mg./l	68.20
9. Iron	APHA 23 rd Ed., 3111 B : 2017	mg./l	0.70
10. Magnesium	APHA 23 rd Ed., 3500 Mg-B : 2017	mg./l	6.80
11. Nitrate	APHA 23 rd Ed., NO ₃ -E : 2017	mg./l	3.60
12. Sulphate	APHA 23 rd Ed., 4500 SO ₄ -E : 2017	mg./l	80.0
13. Total Alkalinity	APHA 23 rd Ed., 2320 B : 2017	mg./l	110.0
14. Total Hardness	APHA 23 rd Ed., 2340 C : 2017	mg./l	126.50
15. Arsenic	IS 3025 (Part 37) : 1988 : 2014	mg./l	<0.01
16. Chromium	APHA 23 rd Ed., 3111 Cr-B : 2017	mg./l	<0.02
17. Boron	APHA 23 rd Ed., 4500 B-C : 2017	mg./l	<0.1

Remarks : a) Sample collected by Envirocheck and sent to lab for testing in sealed condition.

b) Result relates only to the sample tested.

Reviewed By :

DURBADAL CHAKRABORTY
Dy. Quality Manager

Authorised Signatory :

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

<End of Report>

ANNEXURE-12



ENVIROCHECK

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NOISE MONITORING REPORT

Eloquent Steel Pvt. Ltd.

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

MONITORED BY :

ENVIROCHECK
189, Rastraguru Avenue,
Calcutta - 700 028

Report No : ENV/02/Sep/(TR)N/I/24-25

Sampling Locations :	Near Administrative Building	Date of Study :	09/09/2024
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	46.2	56.8	54.15	52.07
7:00 AM to 8:00 AM	44.6	54.2	51.64	
8:00 AM to 9:00 AM	43.4	56.8	53.98	
9:00 AM to 10:00 AM	42.3	54.0	51.27	
10:00 AM to 11:00 AM	40.2	50.2	47.60	
11:00 AM to 12:00 PM	48.2	53.7	51.77	
12:00 PM to 1:00 PM	40.2	52.6	49.83	
1:00 PM to 2:00 PM	44.8	56.8	54.06	
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	42.6	54.6	51.86	
8:00 PM to 9:00 PM	41.8	52.9	50.21	
9:00 PM to 10:00 PM	40.3	51.4	48.71	

Date of Study :	09/09/2024 to 10/09/2024	Night time :	10 PM to 6 AM
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Time(hrs.)	L _{min}	L _{max}	L _{eq}	Night time L _{eq}
10:00 PM to 11:00 PM	42.5	47.6	45.38	44.89
11:00 PM to 12:00 AM	42.0	46.9	44.51	
12:00 AM to 1:00 AM	44.3	49.5	47.60	
1:00 AM to 2:00 AM	37.8	43.0	40.45	
2:00 AM to 3:00 AM	40.0	44.8	42.71	
3:00 AM to 4:00 AM	40.9	45.1	43.72	
4:00 AM to 5:00 AM	36.8	41.7	39.39	
5:00 AM to 6:00 AM	39.9	44.8	42.99	

L_{min} : Minimum Noise level

L_{max} :Maximum Noise level

L_{eq} :Equivalent sound energy

Compiled by : (Signature)
Dr. Ajoy Paul

Envirocheck Seal
Date : 12/09/2024



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





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/02/Sep/(TR)N/II/24-25

Sampling Locations :	Near DVC Meter Room (Back Side of the Plant)	Date of Study :	09/09/2024
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	51.3	58.5	56.25	53.08
7:00 AM to 8:00 AM	49.8	55.1	53.21	
8:00 AM to 9:00 AM	48.6	53.8	51.94	
9:00 AM to 10:00 AM	46.5	52.6	50.54	
10:00 AM to 11:00 AM	45.8	51.4	49.45	
11:00 AM to 12:00 PM	44.5	52.9	50.48	
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	
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 :	09/09/2024 to 10/09/2024	Night time :	10 PM to 6 AM
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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	44.75
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	37.5	40.6	39.32	
2:00 AM to 3:00 AM	38.8	40.2	39.56	
3:00 AM to 4:00 AM	40.8	45.6	43.83	
4:00 AM to 5:00 AM	40.3	49.9	47.34	
5:00 AM to 6:00 AM	43.5	51.6	49.22	

L_{min} : Minimum Noise level

L_{max} :Maximum Noise level

L_{eq} :Equivalent sound energy

Compiled by : (Signature)
Dr. Ajoy Paul

Envirocheck Seal
Date : 12/09/2024



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. – Nakraoria, P.O + P.S – Salanpur, District – Paschim Burdwan

MONITORED BY :

ENVIROCHECK
189, Rastraguru Avenue,
Calcutta - 700 028

Report No : ENV/02/Sep/(TR)N/III/24-25

Sampling Locations :	Near Temple Plant Boundary	Date of Study :	09/09/2024
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	50.8	56.4	54.45	54.10
7:00 AM to 8:00 AM	53.9	58.6	56.86	
8:00 AM to 9:00 AM	52.9	59.3	57.19	
9:00 AM to 10:00 AM	49.9	58.8	56.32	
10:00 AM to 11:00 AM	47.9	58.0	55.39	
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	
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	41.6	49.9	47.49	
6:00 PM to 7:00 PM	40.6	48.5	46.14	
7:00 PM to 8:00 PM	40.2	43.6	42.22	
8:00 PM to 9:00 PM	38.6	41.8	40.49	
9:00 PM to 10:00 PM	35.2	40.3	38.46	

Date of Study :	09/09/2024 to 10/09/2024	Night time :	10 PM to 6 AM
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Time(hrs.)	L _{min}	L _{max}	L _{eq}	Night time L _{eq}
10:00 PM to 11:00 PM	44.7	48.4	46.93	44.51
11:00 PM to 12:00 AM	43.1	47.2	45.62	
12:00 AM to 1:00 AM	42.6	46.6	44.10	
1:00 AM to 2:00 AM	41.4	44.3	42.54	
2:00 AM to 3:00 AM	40.9	43.8	42.59	
3:00 AM to 4:00 AM	40.2	42.6	41.56	
4:00 AM to 5:00 AM	42.9	46.1	44.79	
5:00 AM to 6:00 AM	43.2	47.4	45.28	

L_{min} : Minimum Noise level

L_{max} :Maximum Noise level

L_{eq} :Equivalent sound energy

Compiled by : (Signature)
Dr. Ajoy Paul

Envirocheck Seal
Date : 12/09/2024



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



NOISE MONITORING REPORT

Eloquent Steel Pvt. Ltd.

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

MONITORED BY :

ENVIROCHECK

189, Rastraguru Avenue,

Calcutta - 700 028

Report No : ENV/02/Sep/(TR)N/IV/24-25

Sampling Locations :	Near M.C.C Building (Back side of the Plant)	Date of Study :	09/09/2024
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	50.2	53.9	51.89	53.41
7:00 AM to 8:00 AM	52.0	54.1	53.68	
8:00 AM to 9:00 AM	51.0	56.4	54.49	
9:00 AM to 10:00 AM	50.6	54.4	52.90	
10:00 AM to 11:00 AM	51.6	55.7	54.12	
11:00 AM to 12:00 PM	52.3	54.6	53.60	
12:00 PM to 1:00 PM	49.3	53.4	51.82	
1:00 PM to 2:00 PM	53.7	56.3	55.19	
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	51.0	56.4	54.49	
6:00 PM to 7:00 PM	50.6	54.4	52.90	
7:00 PM to 8:00 PM	51.6	55.7	54.12	
8:00 PM to 9:00 PM	49.8	53.6	50.28	
9:00 PM to 10:00 PM	48.1	52.8	51.34	

Date of Study :	09/09/2024 to 10/09/2024	Night time :	10 PM to 6 AM
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Time(hrs.)	L _{min}	L _{max}	L _{eq}	Night time L _{eq}
10:00 PM to 11:00 PM	44.7	48.4	46.93	44.67
11:00 PM to 12:00 AM	43.1	47.2	45.62	
12:00 AM to 1:00 AM	42.6	46.6	44.10	
1:00 AM to 2:00 AM	41.4	44.3	42.54	
2:00 AM to 3:00 AM	40.9	43.8	42.59	
3:00 AM to 4:00 AM	41.2	46.7	44.77	
4:00 AM to 5:00 AM	42.4	45.8	44.42	
5:00 AM to 6:00 AM	41.9	46.3	44.63	

L_{min} : Minimum Noise level

L_{eq} :Equivalent sound energy

Compiled by : (Signature)
 Dr. Ajoy Paul

Envirocheck Seal
 Date : 12/09/2024



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



ANNEXURE-13



ENVIROCHECK

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



FORMAT NO. : ENV/FM/53

TEST REPORT

1.	Name of the Industry / Project	:	Eloquent Steel Pvt. Ltd.
2.	Address	:	Vill. - Nakraoria, 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/02/Sep/(TR)N/I/24-25
8.	Date of Study	:	09/09/2024
9.	Reporting Date	:	12/09/2024
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. Anup Singha

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)	69.3	72.4	71.12	East Side
02.	dB(A)	71.5	74.3	73.12	West Side
03.	dB(A)	70.1	73.5	72.12	North Side
04.	dB(A)	68.9	70.2	69.60	South Side
Average dB(A) Leq				71.49	

Reviewed By:

Dy. Quality Manager

Authorized Signatory:

Quality Manager

>End of Report<



ENVIROCHECK

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



Certificate No. TC-6014

FORMAT NO. : ENV/FM/53

TEST REPORT

1.	Name of the Industry / Project	:	Eloquent Steel Pvt. Ltd.
2.	Address	:	Vill. - 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/02/Sep/(TR)N/II/24-25
8.	Date of Study	:	09/09/2024
9.	Reporting Date	:	12/09/2024
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. Anup Singha

RESULT OF NOISE LEVEL STUDY

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

DAY TIME

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

Sl. No.	Unit	Minimum dB(A)	Maximum dB(A)	Leq dB(A)	Remarks
01.	dB(A)	72.6	79.5	77.30	East Side
02.	dB(A)	71.2	75.8	74.08	West Side
03.	dB(A)	73.4	76.8	75.42	North Side
04.	dB(A)	70.6	72.2	71.47	South Side
Average dB(A) Leq				74.57	

Reviewed By:

Authorized Signatory:

Dy. Quality Manager

Quality Manager

>End of Report<



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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/02/Sep/(TR)N/III/24-25		
8.	Date of Study	:	09/09/2024		
9.	Reporting Date	:	12/09/2024		
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. Anup Singha		
RESULT OF NOISE LEVEL STUDY			Time :11:00 – 11:20A.M		
DAY TIME					
3. Location : Inside the Ferro Division (South Side)					
Sl. No.	Unit	Minimum dB(A)	Maximum dB(A)	Leq dB(A)	Remarks
01.	dB(A)	69.6	75.2	73.25	East Side
02.	dB(A)	71.4	77.5	75.44	West Side
03.	dB(A)	74.2	79.3	77.46	North Side
04.	dB(A)	70.5	74.2	72.73	South Side
Average dB(A) Leq				74.72	

Reviewed By:

Dy. Quality Manager

Authorized Signatory:

Quality Manager

>End of Report<



ENVIROCHECK

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Accredited by NABL (ISO/IEC 17025:2005)
Certified by ISO 9001:2008, ISO 14001 : 2015 & OHSAS 18001:2007



FORMAT NO. : ENV/FM/53

TEST REPORT

1.	Name of the Industry / Project	:	Eloquent Steel Pvt. Ltd.		
2.	Address	:	Vill. – Nakrajoria, P.O + P.S – Salanpur, District – 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/02/Sep/(TR)N/IV/24-25		
8.	Date of Study	:	09/09/2024		
9.	Reporting Date	:	12/09/2024		
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. Anup Singha		
RESULT OF NOISE LEVEL STUDY			Time :11:30 – 11:50A.M		
DAY TIME					
4. Location : Near MRP					
Sl. No.	Unit	Minimum dB(A)	Maximum dB(A)	Leq dB(A)	Remarks
01.	dB(A)	70.5	74.2	72.73	East Side
02.	dB(A)	69.2	71.4	70.44	West Side
03.	dB(A)	75.3	77.8	76.73	North Side
04.	dB(A)	72.4	74.6	73.64	South Side
Average dB(A) Leq				73.38	

Reviewed By:

Dy. Quality Manager

Authorized Signatory:

Quality Manager

>End of Report<

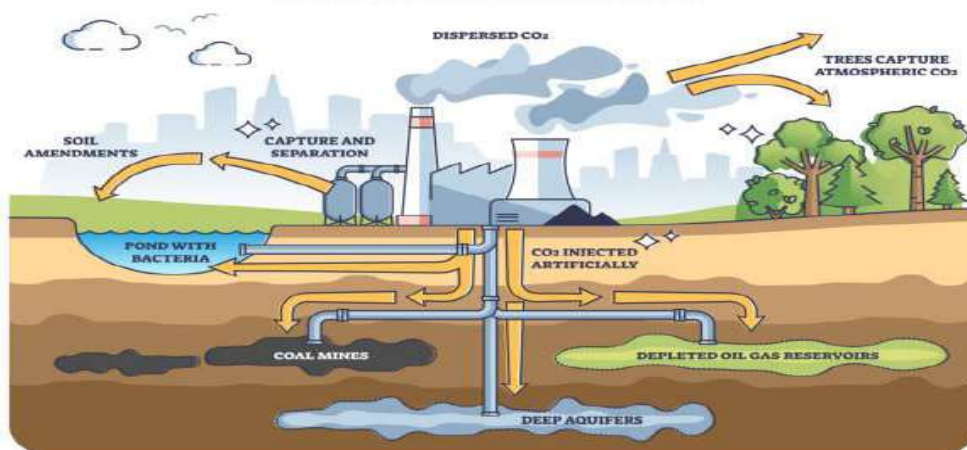
ANNEXURE-14

ELOQUENT STEEL PRIVATE LIMITED

STUDY REPORT



CARBON SEQUESTRATION



CARBON FOOTPRINT & CARBON SEQUESTRATION

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

CARBON FOOTPRINT AND CARBON SEQUESTRATION STUDY

Introduction

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

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

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

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

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

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

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

Carbon Footprint

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

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

Overall Carbon footprint finding after completion of expansion projects

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

1. Induction Furnace

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

Table 1: CO₂ e Emission from SMS Division

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

2. Rolling Mill Division

Reheating Furnace

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

Table 2: CO₂ e Emission from Rolling Mill Division

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

3. *Ferro Division*

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

Table 3: CO₂ e Emission from SEAF

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

Table 2: CO₂ e Emission from Sinter Plant

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

Table 5: CO₂ e Emission from Briquetting Plant

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

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

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

Mitigation measures to reduce Carbon Footprints

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

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

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

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

IMMEDIATE MEASURES TO BE TAKEN BY ELOQUENT STEEL PRIVATE LIMITED

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

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

Attempts to reduce Carbon emission/to bring down Carbon intensity

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

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

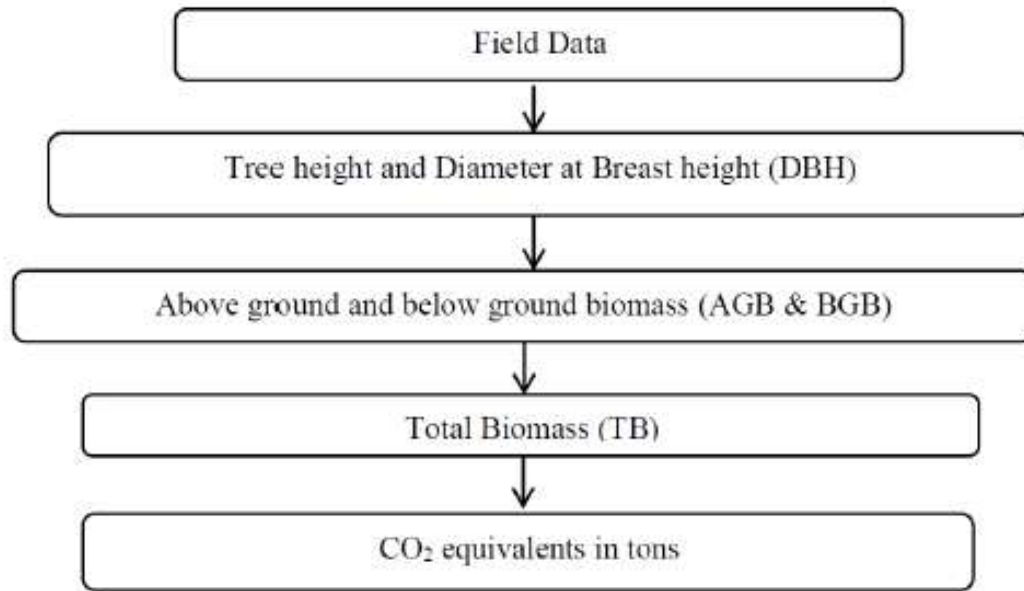
Carbon Sequestration

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

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

Estimation of Carbon Sequestration Potential of trees

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



Methodology for Carbon Sequestration from Trees

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Sl. No.	Plant Species	Local Name	Periphery (cm.)	Basal Area (M2)	Height (M)	Basal Volume (M3)	Density (Kg/M3)	AGB (Kg)	BGB (Kg)	TB (Kg)	TC (Kg)	CO2e (Kg)	No. Tree	Total CO2e (Kg)
1	Azadirachta indica	Neem	68	0.037	6.5	0.239	900	215.37	56.00	271.37	135.68	497.50	158	78,606
2	Polyalthia longifoila	Debdaru	30	0.007	4	0.029	875	25.08	6.52	31.60	15.80	57.93	193	11,181
3	Acacia auriculiformis	Sonajhuri	48	0.018	5	0.092	625	57.32	14.90	72.23	36.11	132.42	525	69,521
4	Dalbergia sissoo	Shishu	59	0.028	8	0.222	800	177.38	46.12	223.49	111.75	409.74	980	4,01,543
5	Ficus benghalensis	Bot	78	0.048	7	0.339	700	237.35	61.71	299.07	149.53	548.29	125	68,536
6	Ficus religiosa	Peepal	95	0.072	10	0.719	700	502.99	130.78	633.76	316.88	1161.90	140	1,62,666
7	Anthocephalus cadamba	Kadam	59	0.028	6	0.166	600	99.77	25.94	125.72	62.86	230.48	120	27,657
8	Mimusops elengi	Bakul	58	0.027	3.5	0.094	1008	94.49	24.57	119.06	59.53	218.28	250	54,569
9	Albizzia 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	Syzygiumcumini	Jamun	68	0.037	4.2	0.155	700	108.24	28.14	136.38	68.19	250.03	165	41,255
20	Terminalia arjuna	Arjun	68	0.037	7	0.258	750	193.28	50.25	243.53	121.77	446.48	125	55,810
21	Areca catechu	Areca	68	0.037	3	0.110	880	97.19	25.27	122.46	61.23	224.51	125	28,064
22	Tecoma stans	Ttikoma	68	0.037	3	0.110	580	64.06	16.66	80.71	40.36	147.98	15	2,220
23	Swietenia	Mehguni	68	0.037	5	0.184	750	138.06	35.89	173.95	86.98	318.91	35	11,162
24	Hibiscus rosa-sinensis	Hibiscus	38	0.011	2.5	0.029	700	20.12	5.23	25.35	12.68	46.48	140	6,507
25	Hyophorbe lagenicaulis	Bottle palm	68	0.037	6	0.221	900	198.80	51.69	250.49	125.25	459.23	28	12,859
												TOTAL	8,017	24,17,805

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

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

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

Table-7

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

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

Conclusion

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

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

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

ANNEXURE-15

ELOQUENT STEEL PRIVATE LIMITED

Health Checkup:14.12.2023



ELOQUENT STEEL PRIVATE LIMITED

Health Checkup:14.12.2023

PFT



BLOOD TEST



ECG TEST



ELOQUENT STEEL PRIVATE LIMITED

Health Checkup:14.12.2023

EYE VISION CHECKUP



GENARAL HEALTH CHECKUP



ANNEXURE-16

DISTRIBUTION OF FOOD ITEMS AND HOUSEHOLD ESSENTIALS TO UNDERPRIVILEGED PEOPLE



BLOOD DONATION CAMP FOR PUBLIC WELFARE



DISTRIBUTION OF TARPAULIN TO POOR VILLAGERS DURING RAINY SEASON



FOOTBALL KIT DISTRIBUTION TO LOCAL YOUTH



DRAWING COMPETITION FOR STUDENTS



PLANTATION DURING BONOMAHOTSOVA-2024



ANNEXURE-17

ENVIRONMENTAL DATA INFORMATION BOARD



M/S ELOQUENT STEEL PVT. LIMITED
VILL: NAKRAJORIA, P.O. & P.S.: SALANPUR, DIST.: PASCHIM BARDHAMAN, WB-713357

ENVIRONMENTAL INFORMATION

CONSENT TO OPERATE:

1- MEMO NO. 195-WPBA/Red/Bwn/Cont/581/07 DATED: 08.05.2023

HAZARDOUS WASTE AUTHORIZATION:

1- MEMO NO. 192/2S (HW)-4528/2022 DATED 29.09.2022

STACK ANALYSIS REPORT AS ON: 09.09.2024

PARAMETERS	SEAF No-1 (7.5 MVA)	SEAF No-2 (7.5 MVA)	SEAF No-3 (7.5 MVA)	SEAF No-4 (7.5 MVA)
PM (mg/Nm ³)		24.19	28.90	25.11

FUGITIVE EMISSION ANALYSIS REPORT AS ON:

PARAMETERS	Raw Material Handling Yard	Inside the Ferro Division (North Side)	Inside the Ferro Division (South Side)	Near Metal Recovery Plant (MRP)
SPM (µg/m ³)	430.14	460.06	491.52	480.50
SOx (µg/m ³)	7.06	18.62	19.27	8.20
NOx (µg/m ³)	24.98	26.10	38.48	28.50

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	6.80	32.0	3.0	60.0	7.0

AMBIENT AIR ANALYSIS REPORT (INDUSTRIAL) AS ON:

PARAMETERS RESULTS	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SOx (µg/m ³)	NOx (µg/m ³)
MINIMUM	38.52	67.16	6.85	19.95
MAXIMUM	41.44	76.20	12.84	26.47

AMBIENT NOISE STUDY (INDUSTRIAL) AS ON:

PARAMETERS RESULTS	Day Time dB(A) _{Leq}	Night Time dB(A) _{Leq}
MINIMUM	52.07	44.50
MAXIMUM	54.10	44.89



মেসার্স ইলোকোয়েন্ট স্টিল প্রাইভেট লিমিটেড
গ্রাম: নাকরাজোরিয়া, পোস্ট & থানা: সালানপুর, জেলা: পশ্চিম বর্ধমান, পশ্চিমবঙ্গ-৭১৩৩৫৭

পরিবেশ সংক্রান্ত তথ্য

পরিচালনার জন্য সম্মতি:

1- MEMO NO. 195-WPBA/Red/Bwn/Cont/581/07 DATED: 08.05.2023

বিপজ্জনক বর্জ্যের অনুমোদন:

1- MEMO NO. 252/2S (HW)-3675/2029 DATED 23.12.2022

চিমনি থেকে নির্গত গ্যাসীয় পদার্থের বিশ্লেষণাত্মক ফলাফল, তারিখ: ০৯.০৯.২০২৪

প্যারামিটার	SEAF নং-১ (৭.৫ এম ভি এ)	SEAF নং-২ (৭.৫ এম ভি এ)	SEAF নং-৩ (৭.৫ এম ভি এ)	SEAF নং-৪ (৭.৫ এম ভি এ)
PM (mg/Nm ³)		২৪.১৯	২৮.৯০	২৫.১১

ফিউজিটিভ এমিসনের বিশ্লেষণাত্মক ফলাফল, তারিখ:

প্যারামিটার	কঁচামাল হ্যান্ডলিং ইয়ার্ড	ফেরো বিভাগের ভিতরে (উত্তর দিকে)	ফেরো বিভাগের ভিতরে (দক্ষিণ দিকে)	মেটাল রিকভারি প্ল্যান্টের কাছে (এমআরপি)
SPM (µg/m ³)	৪৩০.১৪	৪৬০.০৬	৪৯১.৫২	৪৮০.৫০
SOx (µg/m ³)	৭.০৬	১৮.৬২	১৯.২৭	৮.২০
NOx (µg/m ³)	২৪.৯৮	২৬.১০	৩৮.৪৮	২৮.৫০

বর্জ্য জলের বিশ্লেষণাত্মক ফলাফল, তারিখ:

প্যারামিটার	pH মান	টোটাল সাসপেন্ডেড সলিডস (mg/l)	পেপ ও গ্রীস (mg/l)	কেমিক্যাল অক্সিজেন ডিম্যান্ড (mg/l)	বায়োলজিক্যাল অক্সিজেন ডিম্যান্ড (mg/l)
মান	৬.৮০	৩২.০	৩.০	৬০.০	৭.০

পরিবেষ্টিত বায়ুর বিশ্লেষণাত্মক ফলাফল (ইন্ডাস্ট্রিয়াল), তারিখ:

প্যারামিটার মান	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SOx (µg/m ³)	NOx (µg/m ³)
সর্বনিম্ন	৩৮.৫২	৬৭.১৬	৬.৮৫	১৯.৯৫
সর্বোচ্চ	৪১.৪৪	৭৬.২০	১২.৮৪	২৬.৪৭

শব্দের মাত্রা অধ্যয়ন (ইন্ডাস্ট্রিয়াল), তারিখ:

প্যারামিটার মান	দিনের সময় dB(A) _{Leq}	রাতের সময় dB(A) _{Leq}
সর্বনিম্ন	৫২.০৭	৪৪.৫০
সর্বোচ্চ	৫৪.১০	৪৪.৮৯