neo metaliks ltd.

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Website : www.neometaliks.com, CIN : U27109WB2003PLC097231

Ref: NML-DGP/ENV/23/029

Date- 28/11/2023

To,

The Deputy Director General of Forests(C),
Ministry of Env. Forest and Climate Change,
Integrated Regional Office, Kolkata,
IB-198, Sector-III, Salt Lake City,
Kolkata- 700106.

Sub: Six Monthly Compliance Report (Apr'2023 to Sept'2023) of Neo Metaliks Ltd., Durgapur- 713212, West Bengal.

Ref: Environment Clearance No. J–11011/779/2007-IA II (I) dated 02.06.2022.

Dear Sir,

This is reference to the subject cited above; we are enclosing herewith six-monthly compliance report (April'23 to September'23) of the above environmental clearance conditions in Annexure-A along with the external agency monitoring reports and submitting the soft copy (pdf format) of the same through mail.

This is for your kind information.

Yours faithfully,

For Neo Metaliks Ltd.

NEO METALIKS LTD. Gopalpur, Durgapur-12

Authorized Signatory

Encl: As above

Cc:

1. The Member Secretary, West Bengal Pollution Control Board, Paribesh Bhawan, Bldg. No. 10A, Block-LA, Sector-III, Bidhannagar, Kolkata-700098
2. The Environment Engineer (In-Charge), West Bengal Pollution Control Board, (Government of West Bengal), City Centre, Durgapur- 713216.

ANNEXURE- A

Name of the Project: Expansion and Upgradation of Pig Iron Manufacturing Plant to 0.4 MTPA Capacity and Inclusion of SMS, Neo Metaliks Ltd., Gopalpur, Durgapur.

Environmental Clearance File No. J-11011/779/2007-IA.II (I) **dated** 02.06.2022

Period of Compliance Report: April'2023 to September'2023

Sr. no.	A. Specific Conditions	Compliance Status
A (i)	As submitted by PP, a pond (7157 m2) is present within the project site, which will be used as a rainwater reservoir. PP shall monitored and submit the Report to the IRO, MoEFCC in this regard.	In addition to five nos. of rain water harvesting pit, a pond (7157 m2) present within the project site is a rainwater reservoir. Connectivity of surface run-off water drain to this pond is under progress. The monitoring report shall be submitted to the IRO, MoEF&CC during next half yearly compliance report.
A (ii)	Three tier Green Belt shall be developed in 36% of total project area by end of monsoon, 2022 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. In addition to this, PP shall be undertaken plantation (total plants 5000 nos.) in the surrounding villages. 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 concern Regional Office of the MoEF&CC.	1. Green belt development is our ongoing activity. Extensive tree plantation is being carried out every year in all open spaces available in and around the plant premises. 2. As on 30.09.2023, a total of 30,323 nos. of saplings have been planted with native species covering 34.7% area. Another 2500 nos. of saplings are going to be planted which would cover a total greenbelt area of more than 36%. 3. Some snapshots of 6000 nos. of sapling (out of proposed 8000 nos) planted in the period Apr'23 to Sept'23 at new North-east side area are enclosed as Annexure-I. 4. However, the balance plantation of 2000 no. of saplings is under progress vide work order no. 3322000386, dated 23.09.2022. The order copy is enclosed as Annexure-I (a). 5. Also, 100 nos. of saplings have been planted in the local villagers' home. Some snapshots are enclosed as Annexure-I(b). 6. The survival rate of green belt developed is being monitored on periodic basis and damaged plants are being replaced with new plants subsequently vide order no. 3322000467, dated 09.09.2023 attached as Annexure- 1 (e) 7. The detailed green belt development report in CPCB tabular format is enclosed as Annexure- I (c). 8. The plantation has also been verified by the office of DFO. The Letter copy is enclosed as Annexure- I (d)

Sr. no.	A. Specific Conditions	Compliance Status
A (iii)	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.	Plant internal roads, vehicle movement areas and workplaces are developed with concreted/pavered and landscaping for horticulture development is being carried out. Greenery has been developed along the roadside and in open unused areas. We've obtained Consent to Established (CTE) from WBPCB vide memo no. 393-2N-566/2003-PART-I dated 25.07.2022. So, construction of more roads shall be done in a phase wise manner during expansion activity. As on date, construction of 170 mtr internal RCC road is being initiated. The order copy is enclosed as Annexure- II.
A (iv)	PP shall install three Continuous Ambient Air Quality Monitoring Station (CAAQMS) as one in upstream, one in the down-stream and one at the cross-wind direction by end of July, 2022.	Three locations for CAAQMS have been identified - one in upstream, one in down-stream and one in crosswind direction. Orders have been placed and work is in progress. The work order copy is enclosed as Annexure-III. In addition to this, five ambient air quality monitoring stations (AAQMS) have been established at given locations inside the plant, namely 1. Near Main Gate, 2. Near Admin Building & Store, 3. Near Boundary Wall (North-East side), 4. Near CPP Cooling Tower and 5. Near PCM side boundary wall. Ambient air quality monitoring is being carried out on a bimonthly basis by NABL accredited external agency. Data of ambient air quality is being submitted regularly through Half-yearly compliance report. The monitoring reports are enclosed as Annexure IV.
A (v)	PP shall provide RO plant as tertiary treatment facility to ensure reuse of treated wastewater to an extent of 700 KL.	At present, treated wastewater is being reused inside the plant. RO plant as tertiary treatment facility will be installed post commissioning of STP & ETP. For Primary & Secondary treatment plant, work is under progress.
A (vi)	12 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. PP shall do plantation work in the surrounding villages also.	The procurement process of 06 nos. of Fog/Mist water cannons has been completed. Order copy attached as Annexure- V. Installation work is under progress. Balance 06 nos. of truck mounted Fog/Mist water cannons are going to be ordered in a phase-wise manner. Operation of existing 01 no. of Fog/Mist water cannons is being ensured regularly inside the project premises. Plantation work- 100 nos. of saplings have been planted in the surrounding villagers' home attached as Annexure- 1 (b).

Sr. no.	A. Specific Conditions	Compliance Status
A (vii)	Following additional arrangements to control fugitive dust shall be provided: a. Fog / Mist Sprinklers at all conveyors point and on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas. b. Proper covered vehicle shall be used while transport of materials. c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.	Following additional arrangements have been provided to control fugitive dust. a. Water sprinkling system (fixed and mobile type) has been provided at raw material handling yard, unloading point and other vulnerable points. Along with water fog cannon has been installed and operated at raw material handling sections. b. All the raw Materials like Iron ore lump & fines, flux and coke & coke Fines are kept covered with Tarpaulin. All the Vehicles enter Plant-site are regularly checked for PUC compliance certificates (exhaust emission) and vehicles with valid PUC certificate is only allowed inside the Plant. c. At present, our entry and exit gate is common. So, provision for one Wheel washing mechanism with complete recirculation system has been initiated near main gate and will be updated in next half yearly compliance report.
A (viii)	All internal road and connecting road from project site to main highway shall be developed and maintained with suitable Million Axle Standard (MSA) as per the traffic load due to existing and proposed project.	Noted
A (ix)	Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Regional Office of the MoEF&CC.	We've obtained Consent to Established (CTE) from WBPCB vide memo no. 393-2N-566/2003-PART-I dated 25.07.2022. So, installation of all pollution control systems is under establishment phase. However, Performance test is being conducted on existing pollution control systems vide order no. 3322000173 and test report is enclosed as Annexure- VI.
A (x)	Particulate matter emission from stacks shall be less than 30 mg/Nm3.	Noted & agreed to comply. We've granted Consent to Establish (CTE) from WBPCB vide memo no. 393-2N-566/2003-PART-I dated 25.07.2022. So, our project is under the establishment phase. The CTE copy is enclosed as Annexure-VII. We will install adequate APC system to achieve limits post obtaining CTO.
A (xi)	Blast Furnace shall be equipped with dry gas cleaning plant, stove waste heat recovery, cast house and stock house ventilation system and slag granulation facility.	Order has been placed for installation and commissioning of Dry Gas Cleaning Plant with complete package which costs USD 1,100,000. The order copy is enclosed as Annexure-VIII.

Sr. no.	A. Specific Conditions	Compliance Status
A (xii)	Sinter Plant shall be equipped with Sinter cooler waste recovery system and suitable technology for control of dioxins and furans emissions from the plant.	Complied for existing sinter plant. The project is in its establishment phase. Will be complied prior to operational activity of expansion project.
A (xiii)	85-90 % of billets shall be rolled directly in hot stage. RHF shall operate using only Light Diesel Oil or BF gas as a fuel.	This shall be complied during installation of steel plant within plant premises.

Sr. no.	B. General Conditions	Compliance Status
B. I (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.	Adhered to the stipulations.
B.II (i)	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as three Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.	1. To monitor stack emission, 24x7 continuous emission monitoring system (CEMS) have been installed at process stacks like Sinter Plant, Blast Furnace Stove & Captive Power Plant and real time online data is being transmitted to SPCB & CPCB Server. 2. The CEMS online analyzers are calibrated regularly from time to time. The calibration certificate is enclosed as Annexure-IX. 3. Moreover, Stack emission monitoring is also being carried out by NABL accredited laboratory on a bi-monthly basis. The monitoring report is enclosed as Annexure-X. 4. For installation of three Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters, order has been placed and work is in progress. The order copy is enclosed as Annexure-III.

Sr. no.	B. General Conditions	Compliance Status
		5. Project is in Establishment phase. Prior to operate, CAAQMS will be installed & connected to SPCB and CPCB online servers.
B.II (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 emissions are being regularly monitored in the plant premises (at work environment) by NABL accredited laboratory on a bi-monthly basis. Testing report is enclosed as Annexure-XI.
B.II (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.	1. An Appropriate Air Pollution Control (APC) system has been provided at the Sinter Plant (SP) & MBF cast house. Exhaust gases from SP head-end and tail-end is cleaned through ESPs to get stack emission under prescribed standard. Blast Furnace gas is cleaned through Gas Cleaning Plant comprises of dry dust catcher, saturator, and venturi scrubbers to control emission. Plan for installation of a higher capacity fume exhaust system is under progress and is being taken care of during MBF upgradation project. 2. Plant de-dusting system i.e., collection of fugitive emissions through suction hood & duct line and subsequent treatment through bag filters are provided to control fugitive dust. To improve the effectiveness, some modification works also been explored and being executed vide order no. 3522000837 and attached as Annexure—XII 3. Further, Specific measures like Fixed Water Sprinkler, Water Fog Cannon etc. provided in Ground Hopper, Raw Material handling area, Truck Tippler etc. Mobile Water Tanker deployed inside & outside plant premises for water sprinkling on roads. 4. All the conveyors and transfer points have been enclosed to reduce secondary fugitive emission. 5. Plant internal roads, vehicle movement areas and workplaces are developed as either concreted or pavered and cleaned at regular intervals. The cleaned process dust particles are being collected and re-used in the Sinter process plant. All the raw materials like Iron ore lump & fines, flux and coke & coke Fines are kept covered with Tarpaulin.

<table>
<tr><th>Sr. no.</th><th>B. General Conditions</th><th>Compliance Status</th></tr>
<tr><td></td><td></td><td>6. All the Vehicles enter plant-site are regularly checked for PUC compliance certificates (exhaust emission) and vehicles with valid PUC certificate is only allowed inside the Plant.
Stack emissions & Fugitive emissions are being regularly monitored at all process stacks & work environment respectively by NABL accredited laboratory on bi-monthly basis. Testing reports are enclosed as Annexure-X & Annexure-XI respectively.</td></tr>
<tr><td>B.II (iv)</td><td>The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.</td><td>Inspection of filter bags & replacement of damaged bags is being carried out at regular intervals. Auto-purging system for bag cleaning facilities have been provided. Bag filter leakage detection system shall also be installed during project execution stage.</td></tr>
<tr><td>B.II (v)</td><td>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.</td><td>Iron ore fines, coke fines and flue dust collected from the pollution control devices are reused in Sinter Plant.
<table>
<tr><th>Period</th><th></th><th colspan="2">Total</th></tr>
<tr><td rowspan="4">Apr'23 to Sept'23</td><td>Fines</td><td>Generation (MT)</td><td>Re-used/Recycled. (MT)</td></tr>
<tr><td>Iron Ore</td><td>12172.06</td><td>8183.32</td></tr>
<tr><td>Coal & Coke</td><td>2931.03</td><td>3413.12 (including previous stock)</td></tr>
<tr><td>Flue dust</td><td>1826.00</td><td>1002.03</td></tr>
</table></td></tr>
<tr><td>B.II (vi)</td><td>The project proponent shall ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation.</td><td>Covered transportation of raw materials like Iron ore lump & fines, flux and coke & coke fines are being ensured.</td></tr>
</table>

Sr. no.	B. General Conditions	Compliance Status
B.II (vii)	The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.	A fume extraction system has been installed in blast furnace cast house. To improve effectiveness, modification work is under progress vide work order no. 3522000837. The order copy is enclosed as Annexure—XII.
B.II (viii)	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.	Adequate air ventilation arrangements in the buildings exist.
B. III	**Water quality monitoring and preservation**	
B.III (i)	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 (G.S.R 414 (E) dated 30th May 2008; G.S.R 277 (E) dated 31st March 2012 (applicable to IF/EAF) 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 recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.	At present, sanitary effluent is treated in septic tanks and soaks pits. Canteen waste is treated in an Oil water separator and then used for plantation. We've obtained Consent to Established (CTE) from WBPCB vide memo no. 393-2N-566/2003-PART-I dated 25.07.2022. Our project is in establishment phase.
B.III (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 is being regularly monitored in the plant by NABL accredited laboratory. The pre & post monsoon Testing reports are enclosed as Annexure-XIII.
B.III (iii)	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	75 KLD Sewage Treatment Plant is going to be installed & commissioned prior to completion of expansion project activities.
B.III (iv)	The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to IF/EAF) as amended from time to time.	Rolling mills are not yet established. The ETP will be provided for effluents of rolling mills prior to commissioning of rolling mill to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to IF/EAF) as amended from time to time.

Sr. no.	B. General Conditions	Compliance Status
B.III (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.	Garland drains and collection pits are provided to arrest the run-off water in the event of heavy rains. A pond (7157 m2) is present within the project site. After connecting with surface run-off water drain, water samples shall be collected and monitored regularly. The report will be submitted in the next half yearly compliance report. Apart from above, we have made four roof-top rainwater harvesting reservoirs of capacities $40m^3$, $30m^3$, $15m^3$ and $11.25m^3$ respectively at the following locations- • CPP cooling tower area sump. • Sinter plant pump house area sump. • Rainwater harvesting sump at MBF area. • Rainwater harvesting sump near Admin building. and the harvested rainwater is being used in process, plantation, dust suppression and indirect cooling applications wherever possible. We have augmented the existing Sumps where runoff within the plant is collected. This water is being utilized in the plant for cooling and dust suppression during lean season.
B.III (vi)	Tyre washing facilities shall be provided at the entrance/exit of the plant gates.	At present, our entry and exit gate is common. So, provision for one Wheel washing mechanism with complete recirculation system has been proposed in FY 2023-24 near main gate location and will be updated in next half yearly compliance report.
B. IV	**Noise monitoring and prevention**	
B.IV (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.	The noise quality is being monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 by NABL accredited laboratory on bi-monthly basis. The monitoring reports are enclosed as Annexure- XIV.

Sr. no.	B. General Conditions	Compliance Status
B. V	**Energy Conservation measures**	
B.V (i)	Energy conservation measures may be adopted such as adoption of solar energy and provision of LED lights etc., to minimize the energy consumption.	Roof Top Solar Photovoltaic (SPV) Power System of 10 KWp capacity has been installed at roof-top of New Admin Building. The snapshot & order copy is enclosed as Annexure- XV. In addition to this, old halogen/mercury lights are being replaced with LED lights progressively at various locations in phase-wise manner.
B. VI	**Waste Management**	
B.VI (i)	Used refractories shall be recycled.	During the period of Apr'23 to Sept'23, no Broken refractories mass generated.
B.VI (ii)	Kitchen waste shall be composted or converted to biogas for further use.	Kitchen Waste composting machine is installed near canteen. The bio-compost is utilized in gardening, vegetation, and plantation activities. A total of 1069 Kg compost is being generated from 1549.58 Kg of food waste & utilized as manure during the period Apr'23 to Sept'23.
B. VII.	**Green Belt**	
B.VII (i)	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.	The study on GHG emissions inventory including carbon sequestration with respect to project expansion phase, has been carried out. The detailed report is enclosed as Annexure- XVI.
B.VII (ii)	Project proponent shall submit a study report on De-carbonization program, which essentially consists of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and 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.	We've been granted Consent to Established (CTE) from WBPCB vide memo no. 393-2N-566/2003-PART-I dated 25.07.2022. So, the project is under the establishment phase. Hence, a study on De-carbonization program has been carried out and the detailed study report is enclosed as Annexure-XVI.

Sr. no.	B. General Conditions	Compliance Status
B. VIII	**Public hearing and Human health issues**	
B.VIII (i)	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Our existing plant is ISO 45001 & ISO:14001 certified organization. Hence, Emergency preparedness plan is prepared based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan & is being implemented. Emergency preparedness & Response Plan is enclosed as Annexure-XVII.
B.VIII (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.	The workmen who work in high temperature work zone have been identified and heat stress analysis for these workmen is being carried out separately in Annual Occupational health surveillance. Personal Protection Equipment (PPE) like FR suits, Full face helmets, Leg guards, Leather Hand gloves, Nitrile sole safety shoes have been provided to them as per the norms of Factory Act.
B.VIII (iii)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.	Occupational Health Surveillance of the workers is being carried out on a regular basis as mandatory by The Factories Act, 1948 and the records are being maintained. Last Occupational health surveillance of the workers is being conducted on Dt. 29.03.2023.
B. IX	**Environment Management**	
B.IX (i)	The project proponent shall comply with the provision 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 Hattala, Bascopa, Rajbandh, Bandra, Gopalpur, Gosaidanga, Chataldanga, Monarkonda, Rupganja, and Kuldia villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.	Is being complied. As part of Corporate Environment Responsibility (CER) activity, the socio-economic development/ community developmental activities are being carried out by the company.

Sr. no.	B. General Conditions	Compliance Status
B.IX (ii)	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	As our organization is ISO:14001 & 45001 certified, so well-defined Environmental is there. The copy is enclosed as Annexure-XVIII and submitted to the MoEF&CC as a part of six-monthly report.
B.IX (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.	Noted
B.X (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.	The Environment Clearance letter is advertised in two local newspapers. Viz. The Times of India and The Ei Samay (vernacular daily) on Dt. 08.06.2022. The clip of advertisement is enclosed as Annexure-XIX.
B.X (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.	The copies of the environmental clearance have been submitted to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government. Received copies are enclosed as Annexure-XX.
B.X (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. The status of compliance of the stipulated environment clearance conditions, including results of monitored data are being uploaded on our website on half-yearly basis.

Sr. no.	B. General Conditions	Compliance Status
B.X (iv)	The project proponent shall monitor the criteria pollutants level namely; PM_{10}, SO_2, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	Environmental data on PM_{10}, SO_2, NO_x (ambient levels as well as stack emissions) have been monitored bi-monthly through NABL accredited laboratory and uploaded in company web site through half yearly compliance report and data displayed near main gate of the company.
B.X (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	Six-monthly reports on the status of the compliance of the stipulated environmental conditions is being submitted to MoEF&CC / WBPCB and on the website of the ministry of Environment, Forest, and Climate Change at environment clearance portal on regular basis. The last report was submitted on Dt. 31.05.2023 for the period October'2022 to March'2023. The Six-monthly report for the period April'23 to September'23 will be submitted on the website of the ministry of Environment, Forest, and Climate Change at environment clearance portal within the due date.
B.X (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	Is being complied. The environmental statement for FY 2022-23 has been submitted in Form-V to WBPCB and put on the website of the company.
B.X (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	Noted. We've been granted Consent to Established (CTE) from WBPCB vide memo no. 393-2N-566/2003-PART-I dated 25.07.2022. So, the project is under the establishment phase. Land development works for Sinter Plant, Power plant & MBF upgradation work have been started inside plant premises.
B.X (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 & Compliance assured.

Sr. no.	B. General Conditions	Compliance Status
B.X (ix)	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).	EC granted for Expansion & upgradation of Pig Iron Manufacturing Plant to 0.4 MTPA Capacity vide file no. J-11011/779/2007-IA.II (I) dated 02.06.2022. However, further expansion or modifications in the plant will be carried out only after prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
B.X (x)	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986	Noted
B.X (xi)	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted
B.X (xii)	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted
B.X (xiii)	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. Full co-operation will be extended.
B.X (xiv)	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted

Signature

Plantation | **Annexure-I**

Annexure- 1 (a)

Park Plaza,71 Park Street, 6F , North Block,Kolkata Pin - 700016
Tel : 033-40504050 Email - info@neometaliks.com
Website : www.neometaliks.com CIN No : U27109WB2003PLC097231

SERVICE ORDER

PO.Number : 3322000386 **Date : 23.09.2022**

Details of service provider
Baro Maa Enterprise
Bhedia P.O. Aushgram
BARDHAMAN
State Name : West Bengal StateCode : 19
GSTIN : 19BRQPR4549P1ZI PAN :
Contact Details :

Other References
Your reference : /
Our Reference : /
RFQ Number :
Contact Person :
Contact Number:

Service provider address
Baro Maa Enterprise
Bhedia P.O. Aushgram
BARDHAMAN
State Name : West Bengal StateCode : 19
GSTIN : 19BRQPR4549P1ZI PAN :
Contact Details :

Billing To Address
Neo Metaliks Limited
GOPALPUR
DURGAPUR 713212
State Name : West Bengal StateCode : 19
GSTIN : 19AABCN8514G1ZE
PAN : AABCN8514G

Sr. No.	Item Code	Description	Unit	HSN / SAC	Ref.No	Quantity	Price / Unit	Dis %	Dis. Amt.	Amount
1		**SAPLING INSTALLATION & MANURING**						0.00	0.00	1,600,000.00
									CGST @ 9.00 %	144,000.00
									SGST @ 9.00 %	144,000.00
Above service line contains below services : -										
	3002403	SAPLING INSTALLATION & MANURING	NOS	0		8,000.000	200.00			1,600,000.00

In words : Rupees Sixteen Lakh only	Val.Excl.Tax 1,600,000.00
In words : Rupees Eighteen Lakh Eighty Eight Thousand only	Order Value 1,888,000.00

Terms & Conditions : -

General Conditions

1. You have to mobilize after receiving the W.O. as per instruction of NEO in charge
2.Necessary manpower, tools, tackles to be carry out the job is in your scope.
3. You will provide a dedicated mobile phone to your Site-in-charge at site and he must response whenever called.
4. Material shifting from Store to site and site to store will be in your scope
5. Jointly signed Reconciliation sheet will be submitted alongwith the bill for release of payment.
6. Power and Water will be supplied at one point you will make your own arrangement for your requirement.
7. You have to take care of all safety aspects of your employees working at site.
8. You have to follow all safety norms and ensure all kind of safety to your workers and supervisors.
9. You are liable to follow all necessary rules and regulation under law of land e.g. Factory Acts, Labour Acts etc.
10. In the event of any claim or demand being made on us as a consequent of any act deed or thing done by you in the course of executing the work, you will be liable to indemnify for the same.
11. If any accident occurs during the work, you will be liable for all payments, maintenance etc. to the worker / worker's family as per the statuary rules in force in the state or the country as a whole.
12. You will be responsible for all payment including minimum wages to your workers as per the Government rules.
12. All employees engaged in the site must cover ESI & EPF registration/ under insurance coverage and the certificate of which to be submitted before execution of work. Those who are not covered under ESI / Workmen Compensation Insurance and any liability occur to NML the same will be realized from you.
13. All Statutory liabilites will be in your scope.
14. Other existing not rules mentioned here shall be applicable as per prevailing rules of NML.

Scope of Work

SCOPE OF WORK MAINTENANCE OF SAPLINGS :

1.Alignment of Planting lines and staking the pit and initial cleaning of the planting site by machine.
2. Digging of planting pit of size (0.60+0.45/2)x0.45cm at a spacing of 1.5 mtr x 1.5 mtr (4000 Nos.).
3. Pit Filling and Application Pulversised Organic manure, neem oil cake.
4. Application of NPK as per does prescribe per pit.
5. Transplanting of potted seeding in pits including carriage of Root Trainers to planting site and collection and recarriage of Root Traines to local store site.

SHEULI MUKHERJEE

Prepared By

Approved By

NOTE : Please mention order number,Unit of Measurement(UOM),HSN/SAC and A/C head in challan/invoice for faster payment .
Your general conditions of sale/services are not applicable to us .
Your GST registration number should be quoted in your challan/invoice .
Material/Services will be accepted only against submission of copy of Tax invoice.

Park Plaza,71 Park Street, 6F , North Block,Kolkata Pin - 700016
Tel : 033-40504050 Email - info@neometaliks.com
Website : www.neometaliks.com CIN No : U27109WB2003PLC097231

PURCHASE ORDER

PO.Number : 3522000701 **Date : 24.09.2022**

Details of supplier
Baro Maa Enterprise
Bhedia P.O. Aushgram
BARDHAMAN
State Name : West Bengal StateCode : 19
GSTIN : 19BRQPR4549P1ZI PAN :
Contact Details :

Other References
Your reference : /
Our Reference : / P122924-001 DT. 24-09-2022
RFQ Number :
Contact Person :
Contact Number:

Shipping from address
Baro Maa Enterprise
Bhedia P.O. Aushgram
BARDHAMAN
State Name : West Bengal StateCode : 19
GSTIN : 19BRQPR4549P1ZI PAN :
Contact Details :

Billing To Address
Neo Metaliks Limited
GOPALPUR
DURGAPUR 713212
State Name : West Bengal StateCode : 19
GSTIN : 19AABCN8514G1ZE
PAN : AABCN8514G

Sr. No.	Item Code	Description	Unit	HSN / SAC	Ref.No	Quantity	Price / Unit	Dis %	Dis. Amt.	Amount
1	CN30000336	**SAPLINGS** COST OF SAPLING (1.5" - 2.5" HEIGHT) MISC. SPECIES PURCHASE OF SAPLING FOR GREEN BELT DEVELOPMENT.	NOS	601		8,000.000	40.00	0.00	0.00	320,000.00

CGST @ 9.00 %	28,800.00
SGST @ 9.00 %	28,800.00
In words : Rupees Three Lakh Twenty Thousand only — Val.Excl.Tax	320,000.00
In words : Rupees Three Lakh Seventy Seven Thousand Six Hundred only — Order Value	377,600.00

Terms & Conditions : -

Price Basis	RATES ARE F.O.R. DURGAPUR PLANT.
GST	EXTRA AS APPLICABLE.
Mode Of Dispatch	BY ROAD.
Freight	INCLUSIVE
Transit Insurance	SUPPLIER SCOPE
Payment Terms	1. 75% ADVANCE OF TOTAL SAPLING AND BALANCE AFTER COMPLETEION OF JOB ON RECEIPT OF TAX INVOICE DULY CERTIFIED BY NML INCHARGE.
Delivery period	IMMEDIATELY ON RECEIPT OF P.O.
Inspection	BY OUR NML REPRESENTATIVE.
Rejection	IF NOT AS PER OUR REQUIREMENT.
Arbitration & Jurisdiction	Jurisdiction at Kolkata.

SHEULI MUKHERJEE
Prepared By

Approved By

NOTE : Please mention order number,Unit of Measurement(UOM),HSN/SAC and A/C head in challan/invoice for faster payment .
Your general conditions of sale/services are not applicable to us .
Your GST registration number should be quoted in your challan/invoice .
Material/Services will be accepted only against submission of copy of Tax invoice.

VILLAGE PLANATATION Annexure- 1(b)

ANNEXURE- I (C)

Green Belt Development Report

No. of Saplings Planted	Name of Species Planted	Area covered Under Plantation	Survival Rate	Density	Area Under Plantation in Numerical form	Percentage of Project Area
30,323 Nos. (as on Dt. 30-09-2023)	Sonajuri, Jamul, Arjun, Kadamb, Karanj, Simarua, Chhatiana, Radhachur etc.	Approx. 31 Acre	Approx. 92 %	Approx. 1000 Nos of Samplings in 1 Acre	Approx. 31 Acre	34.7%

Annexure- 1 (d)

Government of West Bengal
Directorate of Forests
Office of the Divisional Forest Officer
Burdwan Division.
Phone - Fax:: 0342-2950507, e-mail : dfobdn@yahoo.co.in

No. 275 / 8 Dated, Burdwan, the 25 / 01 / 2022.

To : M/S NEO Metaliks Limited
Village and Post- Gopalpur
Durgapur-12
Dist.- Paschim Bardhaman

Sub.- Certificate regarding plantation of tree in non-forest area

As per field verification report of Range Officer, Durgapur Range this is hereby certified that M/s Neo Metaliks Ltd. has undertaken plantation program since 2013-2021 over about 25.74 acres that is 33% of your total plant area of 78 acres. The species planted include Teak, Kadam, Radhachura, Krishnachura, Sirish, Rain tree, Akashmoni etc with some fruit species. It is suggested that you are to maintain uniform spacing as per approved plantation technique and also it should be encouraging to plant broad leaf species along with shrub species as a sunk of pollution. You are also to advise that planting of Akashmoni species should be discouraged as far as practicable and maintenance should be continued as per requirement to maintain the present status of the plantation.

Please keep it up for creation of further green belt in your plant premises available for such work maintaining proper plantation plan and guideline in consultation with the Range Officer Durgapur Range.

A copy of physical field verification report of Range Officer, Durgapur Range is enclosed herewith for maintaining the suggestion made by him.

Divisional Forest Officer
Burdwan Division

No. 275(1) / 8 Dated, Burdwan, the 25 / 01 / 2022

Copy forwarded for information to:
The Range Officer, Durgapur Range.

Sd/- Nisha Goswami, I.F.S.
Divisional Forest Officer
Burdwan Division

Annexure- 1 (e)

Park Plaza,71 Park Street, 6F , North Block,Kolkata Pin - 700016
Tel : 033-40504050 Email - info@neometaliks.com
Website : www.neometaliks.com CIN No : U27109WB2003PLC097231

SERVICE ORDER

PO.Number : 3322000467 **Date : 09.09.2023**

Details of service provider
Baro Maa Enterprise
Bhedia P.O. Aushgram
BARDHAMAN
State Name : West Bengal StateCode : 19
GSTIN : 19BRQPR4549P1ZI PAN :
Contact Details : Sabita Roy 9932348645

Other References
Your reference : /
Our Reference : W122630-003 /
RFQ Number :
Contact Person : Sabita Roy
Contact Number: 9932348645

Service provider address
Baro Maa Enterprise
Bhedia P.O. Aushgram
BARDHAMAN
State Name : West Bengal StateCode : 19
GSTIN : 19BRQPR4549P1ZI PAN :
Contact Details :

Billing To Address
Neo Metaliks Limited
GOPALPUR
DURGAPUR 713212
State Name : West Bengal StateCode : 19
GSTIN : 19AABCN8514G1ZE
PAN : AABCN8514G

Sr. No.	Item Code	Description	Unit	HSN / SAC	Ref.No	Quantity	Price / Unit	Dis %	Dis. Amt.	Amount
1		**Maintenance of each Saplings and Trees**			1322000591					540,000.00
									CGST @ 9.00 %	48,600.00
									SGST @ 9.00 %	48,600.00
Above service line contains below services : -										
	3002478	MAINTENANCE OF EACH SAPLINGS AND TREES	NOS	0		6,000.000	90.00			540,000.00

In words : Rupees Five Lakh Forty Thousand only — Val.Excl.Tax 540,000.00

In words : Rupees Six Lakh Thirty Seven Thousand Two Hundred only — Order Value 637,200.00

Terms & Conditions : -

General Conditions

1. You have to mobilize after receiving the W.O. as per instruction of NEO in charge
2.Necessary manpower, tools, tackles to be carry out the job is in your scope.
3. You will provide a dedicated mobile phone to your Site-in-charge at site and he must response whenever called.
4. Material shifting from Store to site and site to store will be in your scope
5. Jointly signed Reconciliation sheet will be submitted alongwith the bill for release of payment.
6. Power and Water will be supplied at one point you will make your own arrangement for your requirement.
7. You have to take care of all safety aspects of your employees working at site.
8. You have to follow all safety norms and ensure all kind of safety to your workers and supervisors.
9. You are liable to follow all necessary rules and regulation under law of land e.g. Factory Acts, Labour Acts etc.
10.In the event of any claim or demand being made on us as a consequent of any act deed or thing done by you in the course of executing the work, you will be liable to indemnify for the same.
11. If any accident occurs during the work, you will be liable for all payments, maintenance etc. to the worker / worker's family as per the statuary rules in force in the state or the country as a whole.
12. You will be responsible for all payment including minimum wages to your workers as per the Government rules.
12. All employees engaged in the site must cover ESI & EPF registration/ under insurance coverage and the certificate of which to be submitted before execution of work. Those who are not covered under ESI / Workmen Compensation Insurance and any liability occur to NML the same will be realized from you.
13. Other existing not rules mentioned here shall be applicable as per prevailing rules of NML.

Scope of Work

SCOPE OF WORK FOR PLANTATION (MAINTENACE WORK FROM APRIL 2023 TO SEPTERMBER'2023)

1. Cleaning of the planting site by machine.
2. 1st mulching, weeding, cleaning and application of Fertilizer with 40 Gm NPK.
3. 2nd mulching, weeding, cleaning and application of Fertilizer with 40 Gm DAP.
3. DAP = 3 Bag.
4. Watching the plantation for 3 months engaged mazdoor for protect the seeding the plant from damages.

GST

Extra as applicable.

SHEULI MUKHERJEE

Prepared By Approved By

NOTE : Please mention order number,Unit of Measurement(UOM),HSN/SAC and A/C head in challan/invoice for faster payment .
Your general conditions of sale/services are not applicable to us .
Your GST registration number should be quoted in your challan/invoice .
Material/Services will be accepted only against submission of copy of Tax invoice.

Annexure- II

neo metaliks ltd.

Park Plaza,71 Park Street, 6F , North Block,Kolkata Pin - 700016
Tel : 033-40504050 Email - info@neometaliks.com
Website : www.neometaliks.com CIN No : U27109WB2003PLC097231

SERVICE ORDER

PO.Number : 3322000185 **Date : 06.04.2023**

Details of service provider
RINA ENTERPRISE
LOHAGURI, RAKSHITPUR KANKSA
KANKSA
State Name : West Bengal StateCode : 19
GSTIN : 19AHGPB5758D2ZD PAN :
Contact Details :

Other References
Your reference : OFFER / 04.03.2023
Our Reference : W123406-001 / 06.04.2023
RFQ Number :
Contact Person :
Contact Number:

Service provider address
RINA ENTERPRISE
LOHAGURI, RAKSHITPUR KANKSA
KANKSA
State Name : West Bengal StateCode : 19
GSTIN : 19AHGPB5758D2ZD PAN :
Contact Details :

Billing To Address
Neo Metaliks Limited
GOPALPUR
DURGAPUR 713212
State Name : West Bengal StateCode : 19
GSTIN : 19AABCN8514G1ZE
PAN : AABCN8514G

Sr. No.	Item Code	Description	Unit	HSN / SAC	Ref.No	Quantity	Price / Unit	Dis %	Dis. Amt.	Amount
1		**170 RMT Road Work** Construction of New 170 RMT RCC Road (Road width 4 mtr) at Sinter HT Room to Ground Hopper			1322000168					683,340.00
									CGST @ 9.00 %	61,500.60
									SGST @ 9.00 %	61,500.60
Above service line contains below services : -										
	3000066	Earth Cutting	M3	9954		340.000	220.00			74,800.00
	3001494	SUPPLY & LAYING300MM THK BOULDER SOLING	M3	0		270.000	1,350.00			364,500.00
	3001493	PROVIDING & LAYING POLYETHENE	M2	0		680.000	25.00			17,000.00
	3001005	RCC (M-25)	M3			136.000	1,500.00			204,000.00
	3000823	REIN. FORCEMENT. REINFORCEMENT	MT	0		3.600	6,400.00			23,040.00

In words : Rupees Six Lakh Eighty Three Thousand Three Hundred Forty only	Val.Excl.Tax 683,340.00
In words : Rupees Eight Lakh Six Thousand Three Hundred Forty One And Paise Twenty only	Order Value 806,341.20

Terms & Conditions : -

General Conditions

1. Mobilization at our Durgapur site within 2-3 days after receipt of the work order.
2. Steel, Cement, Bricks, Stone Chips and Sand will be supplied by NML as free issue.
3. You have to submit Reconciliation statement of free issue materials from NML.
4. All other materials, tools & tackles and labour and scaffolding/staging required to complete the job in totality shall be in your scope.
5. Scaffolding if required shall be arranged by you.
6. You will be responsible for all payment including minimum wages to your workers as per the Government rules.
7. You must ensure adequate supervision of work for compliance of safety measure.
8. You must provide proper safety equipment to your workmen.
9. Safety of the workers engaged in the job is your responsibility and the company shall not be responsible for any type of compensation to your worker. You have to provide adequate Personnel Protective Equipment like Helmet, Safety Shoes, Safety Goggles, and Hand Gloves etc. as per safety requirement.
10. If any accident occurs during the work, you will be liable for all payments, maintenance etc. to the worker/ worker's family as per the statutory rules in force in the state or the country as a whole.
11. You will ensure no bad elements in the job.

Rajeswari Nair
Prepared By

Approved By

NOTE : Please mention order number,Unit of Measurement(UOM),HSN/SAC and A/C head in challan/invoice for faster payment.
Your general conditions of sale/services are not applicable to us.
Your GST registration number should be quoted in your challan/invoice.
Material/Services will be accepted only against submission of copy of Tax invoice.

Annexure- III

Park Plaza,71 Park Street, 6F , North Block,Kolkata Pin - 700016
Tel : 033-40504050 Email - info@neometaliks.com
Website : www.neometaliks.com CIN No : U27109WB2003PLC097231

PURCHASE ORDER

PO.Number : 3522000278 **Date : 09.03.2023**

Details of supplier
ENVEA INDIA PVT LTD
D/16 3 & 4 TTC INDUSTRIAL AREA MIDC TURBHE
NAVI MUMBAI
State Name : Maharashtra StateCode : 27
GSTIN : 27AACCE0200B1ZO PAN :
Contact Details :

Other References
Your reference : /
Our Reference : P222309-001 /
REF:NML/ENVIORN/ENVEA/2209, DTD.28.07.2022
RFQ Number :
Contact Person :
Contact Number:

Shipping from address
ENVEA INDIA PVT LTD
D/16 3 & 4 TTC INDUSTRIAL AREA MIDC TURBHE
NAVI MUMBAI
State Name : Maharashtra StateCode : 27
GSTIN : 27AACCE0200B1ZO PAN :
Contact Details :

Billing To Address
Neo Metaliks Limited
Vil & PO Gopalpur,Dist Burdwan
Durgapur 713212
State Name : West Bengal StateCode : 19
GSTIN : 19AABCN8514G1ZE
PAN : AABCN8514G

Sr. No.	Item Code	Description	Unit	HSN / SAC	Ref.No	Quantity	Price / Unit	Dis %	Dis. Amt.	Amount
1	PC95001675	**SO2 ANALYSER**	NOS		1722000040	3.000	530,000.00	0.00	0.00	1,590,000.00
									IGST @ 18.00 %	286,200.00
2	PC95001679	**NOX ANALYSER**	NOS		1722000040	3.000	570,000.00	0.00	0.00	1,710,000.00
									IGST @ 18.00 %	307,800.00
3	PC95001680	**CO ANALYSER FOR CAAQMS**	NOS		1722000040	3.000	472,000.00	0.00	0.00	1,416,000.00
									IGST @ 18.00 %	254,880.00
4	PC95001681	**PM2.5 ANALYSER**	NOS		1722000040	3.000	810,000.00	0.00	0.00	2,430,000.00
									IGST @ 18.00 %	437,400.00
5	PC95001682	**PM10 ANALYSER**	NOS		1722000040	3.000	800,000.00	0.00	0.00	2,400,000.00
									IGST @ 18.00 %	432,000.00
6	PC95001683	**MULTI POINT, MULTI-GAS CALLIBRATOR**	NOS		1722000040	3.000	355,000.00	0.00	0.00	1,065,000.00
									IGST @ 18.00 %	191,700.00
7	PC95001684	**CALLIBRATION GAS CYLINDERS(SO2, NOX, CO)**	NOS		1722000040	3.000	60,000.00	0.00	0.00	180,000.00
									IGST @ 18.00 %	32,400.00
8	PC95001685	**GAS SAMPLING SYSTEM & HOOD**	NOS		1722000040	3.000	22,000.00	0.00	0.00	66,000.00
									IGST @ 18.00 %	11,880.00
9	PC95001686	**RACK CABINET FOR ALL ANALYSERS & SYSTEM**	NOS		1722000040	3.000	54,735.00	0.00	0.00	164,205.00
									IGST @ 18.00 %	29,556.90
10	PC95001689	**DATA LOGGER-SOFTWARE**	NOS		1722000040	3.000	159,598.00	0.00	0.00	478,794.00
									IGST @ 18.00 %	86,182.92

In words : Rupees One Crore Fourteen Lakh Ninety Nine Thousand Nine Hundred Ninety Nine only	Val.Excl.Tax 11,499,999.00
In words : Rupees One Crore Thirty Five Lakh Sixty Nine Thousand Nine Hundred Ninety Eight And Paise Eighty Two only	Order Value 13,569,998.82

Terms & Conditions : -

Header text Kind Attn: Mr. Suvam Mazumder, Manager Sales (Mob: 9681541523)

Rajeswari Nair

Prepared By Approved By

NOTE : Please mention order number,Unit of Measurement(UOM),HSN/SAC and A/C head in challan/invoice for faster payment .
Your general conditions of sale/services are not applicable to us .
Your GST registration number should be quoted in your challan/invoice .
Material/Services will be accepted only against submission of copy of Tax invoice.

Annexure- IV

Qualissure Laboratory Services
361, Pruntick Pally, 45/361, Bose Pukur Road, Kolkata -700107
Email : qualissure@gmail.com; info@qualissure.com ; Mob.No. 98312 87086 ; 9830093976

TC-6271

DOC NO : QLS/SAMP/08-A/00

TEST REPORT

Name & Address Of the Customer:		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/A/23-24/C/175
Vill + P.O. : Gopalpur	Date	: 03.06.2023
P.S. : Kanksa,Durgapur	Sample No.	: QLS/A/23-24/175
Paschim Bardhaman	Date of Performance(s)	: 26.05.2023-02.06.2023
West Bengal – 713 212	Sample Description	: Ambient Air
	Ref No. Date	: 3322000242,Dated:23.05.2023

Analysis Result

Location: Near Main Gate	Date of sampling : 22.05-23.05.2023
Sampling Done by: P.Mandal/P.Mahato	Sampling done as per : CPCB Guidelines (Volume-1)
Environmental Condition : Cloudy & Drizzling	

Sl. No.	Pollutants	Result	Limit as per CPCB	Method of Test Reference
1	Particulate matter (PM_{10}) in µg/m³	95	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter ($PM_{2.5}$) in µg/m³	48	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO_2) in µg/m³	6.6	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO_2) in µg/m³	29.8	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in µg/m³	732	2000	IS: 5182 (Part-10):1999,RA-2014
6	Ammonia (NH_3) in µg/m³	11.2	400	Air Sampling , 3rd Edn -Method-401
7	Ozone (O_3) in µg/m³	<19.62	180	Air Sampling , 3rd Edn -Method-411
8	Lead (Pb) in µg/m³	0.05	1	EPA IO-3.2 & 5.0
9	Nickel (Ni) in ng/m³	6.2	20	EPA IO-3.2
10	Arsenic (As) in ng/m³	<1.0	6	Air Sampling , 3rd Edn.Method 402 and APHA 232nd Edition Part 3114B
11	Benzene (C_6H_6) in µg/m³	<2.08	5	IS: 5182 (Part- 11)
12	Benzo (a) pyrene in ng/m³	<0.4	1	IS: 5182 (Part- 12)

NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

(Benimadhab Goral, Chemist)
(Authorized Signatory)

----- *End of the Report*-----

- *The results relate only to the item(s) tested.*
- *This Test Report shall not be reproduced without the permission of Qualissure Laboratory Services.*
- *The reserved part of sample(s), except perishable sample(s), shall be retained for 30 days from the date of issue of the Test Report.*

Qualissure Laboratory Services
361, Prantick Pally, 45/361, Bose Pukur Road, Kolkata -700107
Email - qualissure@gmail.com; info@qualissure.com ; Mob.No. 98312 87086 ; 9830093976

TC-6271

DOC NO : QLS/SAMP/08-A/00

TEST REPORT

Name & Address Of the Customer:		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/A/23-24/C/179
Vill + P.O. : Gopalpur	Date	: 03.06.2023
P.S. : Kanksa,Durgapur	Sample No.	: QLS/A/23-24/179
Paschim Bardhaman	Date of Performance(s)	: 26.05.2023-02.06.2023
West Bengal – 713 212	Sample Description	: Ambient Air
	Ref No. Date	: 3322000242,Dated:23.05.2023

Analysis Result

Location: North East Boundary Wall	Date of sampling : 24.05.2023-25.05.2023
Sampling Done by: P.Mandal/P.Mahato	Sampling done as per : CPCB Guidelines (Volume-1)
Environmental Condition : Cloudy & Light Rainfall	

Sl. No.	Pollutants	Result	Limit as per CPCB	Method of Test Reference
1	Particulate matter (PM_{10}) in µg/m³	64	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter ($PM_{2.5}$) in µg/m³	28	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO_2) in µg/m³	6.3	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO_2) in µg/m³	27.9	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in µg/m³	629	2000	IS: 5182 (Part-10):1999,RA-2014
6	Ammonia (NH_3) in µg/m³	<10.0	400	Air Sampling , 3rd Edn -Method-401
7	Ozone (O_3) in µg/m³	<19.62	180	Air Sampling , 3rd Edn -Method-411
8	Leàd (Pb) in µg/m³	<0.02	1	EPA IO-3.2 & 5.0
9	Nickel (Ni) in ng/m³	<4.0	20	EPA IO-3.2
10	Arsenic (As) in ng/m³	<1.0	6	Air Sampling , 3rd Edn.Method 402 and APHA 232nd Edition Part 3114B
11	Benzene (C_6H_6) in µg/m³	<2.08	5	IS: 5182 (Part- 11)
12	Benzo (a) pyrene in ng/m³	<0.4	1	IS: 5182 (Part- 12)

NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

(Benimadhab Gorai, Chemist)
(Authorized Signatory)

----- *End of the Report*-----

- *The results relate only to the item(s) tested.*
- *This Test Report shall not be reproduced without the permission of Qualissure Laboratory Services.*
- *The reserved part of sample(s), except perishable sample(s), shall be retained for 30 days from the date of issue of the Test Report.*

Qualissure Laboratory Services
361, Prantick Pally, 45/361, Bose Pukur Road, Kolkata -700107
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TC-6271

DOC NO : QLS/SAMP/08-A/00

TEST REPORT

Name & Address Of the Customer:		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/A/23-24/C/178
Vill + P.O. : Gopalpur	Date	: 03.06.2023
P.S. : Kanksa,Durgapur	Sample No.	: QLS/A/23-24/178
Paschim Bardhaman	Date of Performance(s)	: 26.05.2023-02.06.2023
West Bengal – 713 212	Sample Description	: Ambient Air
	Ref No. Date	: 3322000242,Dated:23.05.2023

Analysis Result

Location: Near Administrative Building	Date of sampling : 23.05.2023-24.05.2023
Sampling Done by: P.Mandal/P.Mahato	Sampling done as per : CPCB Guidelines (Volume-1)
Environmental Condition : Heavy Rainfall	

Sl. No:	Pollutants	Result	Limit as per CPCB	Method of Test Reference
1	Particulate matter (PM_{10}) in µg/m³	71	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter ($PM_{2.5}$) in µg/m³	39	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO_2) in µg/m³	6.2	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO_2) in µg/m³	28.0	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in µg/m³	801	2000	IS: 5182 (Part-10):1999,RA-2014
6	Ammonia (NH_3) in µg/m³	20.8	400	Air Sampling , 3rd Edn -Method-401
7	Ozone (O_3) in µg/m³	<19.62	180	Air Sampling , 3rd Edn -Method-411
8	Lead (Pb) in µg/m³	0.02	1	EPA IO-3.2 & 5.0
9	Nickel (Ni) in ng/m³	<4.0	20	EPA IO-3.2
10	Arsenic (As) in ng/m³	<1.0	6	Air Sampling , 3rd Edn.Method 402 and APHA 232nd Edition Part 3114B
11	Benzene (C_6H_6) in µg/m³	<2.08	5	IS: 5182 (Part- 11)
12	Benzo (a) pyrene in ng/m³	<0.4	1	IS: 5182 (Part- 12)

NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

(Benimadhab Gorai, Chemist)
(Authorized Signatory)

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- *The results relate only to the item(s) tested.*
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Email : qualissure@gmail.com; info@qualissure.com ; Mob.No. 98312 87086 ; 9830093976

TC-6271

DOC NO : QLS/SAMP/08-A/00

TEST REPORT

Name & Address Of the Customer:		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/A/23-24/C/177
Vill + P.O. : Gopalpur	Date	: 03.06.2023
P.S. : Kanksa,Durgapur	Sample No.	: QLS/A/23-24/177
Paschim Bardhaman	Date of Performance(s)	: 26.05.2023-02.06.2023
West Bengal – 713 212	Sample Description	: Ambient Air
	Ref No. Date	: 3322000242,Dated:23.05.2023

Analysis Result

Location: C.P.P	Date of sampling : 23.05.2023-24.05.2023
Sampling Done by: P.Mandal/P.Mahato	Sampling done as per : CPCB Guidelines (Volume-1)
Environmental Condition : Heavy Rainfall	

Sl. No.	Pollutants	Result	Limit as per CPCB	Method of Test Reference
1	Particulate matter (PM_{10}) in µg/m³	58	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter ($PM_{2.5}$) in µg/m³	23	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO_2) in µg/m³	6.0	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO_2) in µg/m³	27.4	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in µg/m³	641	2000	IS: 5182 (Part-10):1999,RA-2014
6	Ammonia (NH_3) in µg/m³	13.6	400	Air Sampling , 3rd Edn -Method-401
7	Ozone (O_3) in µg/m³	20.3	180	Air Sampling , 3rd Edn -Method-411
8	Lead (Pb) in µg/m³	<0.02	1	EPA IO-3.2 & 5.0
9	Nickel (Ni) in ng/m³	<4.0	20	EPA IO-3.2
10	Arsenic (As) in ng/m³	<1.0	6	Air Sampling , 3rd Edn.Method 402 and APHA 232nd Edition Part 3114B
11	Benzene (C_6H_6) in µg/m³	<2.08	5	IS: 5182 (Part- 11)
12	Benzo (a) pyrene in ng/m³	<0.4	1	IS: 5182 (Part- 12)

NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

(Benimadhab Gorai, Chemist).
(Authorized Signatory)

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TC-6271

DOC NO : QLS/SAMP/08-A/00

TEST REPORT

Name & Address Of the Customer:		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/A/23-24/C/176
Vill + P.O. : Gopalpur	Date	: 03.06.2023
P.S. : Kanksa,Durgapur	Sample No.	: QLS/A/23-24/176
Paschim Bardhaman	Date of Performance(s)	: 26.05.2023-02.06.2023
West Bengal – 713 212	Sample Description	: Ambient Air
	Ref No. Date	: 3322000242,Dated:23.05.2023

Analysis Result

Location: P.C.M Boundary Wall			Date of sampling : 22.05-23.05.2023	
Sampling Done by: P.Mandal/P.Mahato			Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Cloudy & Drizzling				
Sl. No.	**Pollutants**	**Result**	**Limit as per CPCB**	**Method of Test Reference**
1	Particulate matter (PM_{10}) in $\mu g/m^3$	91	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter ($PM_{2.5}$) in $\mu g/m^3$	50	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO_2) in $\mu g/m^3$	7.1	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO_2) in $\mu g/m^3$	28.3	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in $\mu g/m^3$	709	2000	IS: 5182 (Part-10):1999,RA-2014
6	Ammonia (NH_3) in $\mu g/m^3$	15.7	400	Air Sampling , 3rd Edn -Method-401
7	Ozone (O_3) in $\mu g/m^3$	20.1	180	Air Sampling , 3rd Edn -Method-411
8	Lead (Pb) in $\mu g/m^3$	0.04	1	EPA IO-3.2 & 5.0
9	Nickel (Ni) in ng/m^3	5.2	20	EPA IO-3.2
10	Arsenic (As) in ng/m^3	<1.0	6	Air Sampling , 3rd Edn.Method 402 and APHA 232nd Edition Part 3114B
11	Benzene (C_6H_6) in $\mu g/m^3$	<2.08	5	IS: 5182 (Part- 11)
12	Benzo (a) pyrene in ng/m^3	<0.4	1	IS: 5182 (Part- 12)
NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.				

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

(Benimadhab Gorai, Chemist)
(Authorized Signatory)

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TC-6271

DOC NO : QLS/SAMP/08-A/00

TEST REPORT

Name & Address Of the Customer:		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/MR/A/23-24/C/362
Vill + P.O. : Gopalpur	Date	: 28.07.2023
P.S. : Kanksa,Durgapur	Sample No.	: QLS/MR/A/23-24/362
Paschim Bardhaman	Date of Performance(s)	: 22.07.2023-28.07.2023
West Bengal – 713 212	Sample Description	: Ambient Air
	Ref No. Date	: 3322000242,Dated:23.05.2023

Analysis Result

Location: C.P.P	Date of sampling : 18.07.2023-19.07.2023
Sampling Done by: S.Ghosh/P.Mahato	Sampling done as per : CPCB Guidelines (Volume-1)
Environmental Condition : Rainfall	

Sl. No.	Pollutants	Result	Limit as per CPCB	Method of Test Reference
1	Particulate matter (PM_{10}) in µg/m³	50	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter ($PM_{2.5}$) in µg/m³	27	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO_2) in µg/m³	5.2	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO_2) in µg/m³	26.6	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in µg/m³	595	2000	IS: 5182 (Part-10):1999,RA-2014
6	Ammonia (NH_3) in µg/m³	10.2	400	Air Sampling , 3rd Edn -Method-401
7	Ozone (O_3) in µg/m³	<19.62	180	Air Sampling , 3rd Edn -Method-411
8	Lead (Pb) in µg/m³	<0.02	1	EPA IO-3.2 & 5.0
9	Nickel (Ni) in ng/m³	<4.0	20	EPA IO-3.2
10	Arsenic (As) in ng/m³	<1.0	6	Air Sampling , 3rd Edn.Method 402 and APHA 232nd Edition Part 3114B
11	Benzene (C_6H_6) in µg/m³	<2.08	5	IS: 5182 (Part- 11)
12	Benzo (a) pyrene in ng/m³	<0.4	1	IS: 5182 (Part- 12)

NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.

Report Prepared by :

R. Sharma

for **Qualissure Laboratory Services**
Reviewed & Authorized By

(Benimadhab Goral, Chemist)
(Authorized Signatory)

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TEST REPORT

Name & Address Of the Customer:		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/MR/A/23-24/C/363
Vill + P.O. : Gopalpur	Date	: 28.07.2023
P.S. : Kanksa,Durgapur	Sample No.	: QLS/MR/A/23-24/363
Paschim Bardhaman	Date of Performance(s)	: 22.07.2023-28.07.2023
West Bengal – 713 212	Sample Description	: Ambient Air
	Ref No. Date	: 3322000242,Dated:23.05.2023

Analysis Result

Location: Near Main Gate	Date of sampling : 18.07-19.07.2023
Sampling Done by: S.Ghosh/P.Mahato	Sampling done as per : CPCB Guidelines (Volume-1)
Environmental Condition : Rainfall	

Sl. No.	Pollutants	Result	Limit as per CPCB	Method of Test Reference
1	Particulate matter (PM_{10}) in µg/m³	88	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter ($PM_{2.5}$) in µg/m³	39	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO_2) in µg/m³	6.1	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO_2) in µg/m³	25.9	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in µg/m³	721	2000	IS: 5182 (Part-10):1999,RA-2014
6	Ammonia (NH_3) in µg/m³	<10.0	400	Air Sampling , 3rdEdn -Method-401
7	Ozone (O_3) in µg/m³	<19.62	180	Air Sampling , 3rdEdn -Method-411
8	Lead (Pb) in µg/m³	<0.02	1	EPA IO-3.2 & 5.0
9	Nickel (Ni) in ng/m³	4.8	20	EPA IO-3.2
10	Arsenic (As) in ng/m³	<1.0	6	Air Sampling , 3rdEdn.Method 402 and APHA 232rd Edition Part 3114B
11	Benzene (C_6H_6) in µg/m³	<2.08	5	IS: 5182 (Part- 11)
12	Benzo (a) pyrene in ng/m³	<0.4	1	IS: 5182 (Part- 12)

NOTE: Limit as per CPCB notification, New Delhi, 18thNovember 2009, for Ambient air quality.

Report Prepared by :

R. Sharma

for **Qualissure Laboratory Services**
Reviewed & Authorized By

(Benimadhab Gorai, Chemist)
(Authorized Signatory)

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TC-6271

DOC NO : QLS/SAMP/08-A/00

TEST REPORT

Name & Address Of the Customer:		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Date of Performance(s) Sample Description Ref No. Date	: QLS/MR/A/23-24/C/364 : 28.07.2023 : QLS/MR/A/23-24/364 : 22.07.2023-28.07.2023 : Ambient Air : 3322000242,Dated:23.05.2023

Analysis Result

Location: Near Administrative Building	Date of sampling : 19.07.2023-20.07.2023
Sampling Done by: S.Ghosh/P.Mahato	Sampling done as per : CPCB Guidelines (Volume-1)
Environmental Condition : Rainfall	

Sl. No.	Pollutants	Result	Limit as per CPCB	Method of Test Reference
1	Particulate matter (PM_{10}) in µg/m³	68	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter ($PM_{2.5}$) in µg/m³	32	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO_2) in µg/m³	6.0	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO_2) in µg/m³	27.3	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in µg/m³	629	2000	IS: 5182 (Part-10):1999,RA-2014
6	Ammonia (NH_3) in µg/m³	15.4	400	Air Sampling , 3rd Edn -Method-401
7	Ozone (O_3) in µg/m³	<19.62	180	Air Sampling , 3rd Edn -Method-411
8	Lead (Pb) in µg/m³	<0.02	1	EPA IO-3.2 & 5.0
9	Nickel (Ni) in ng/m³	<4.0	20	EPA IO-3.2
10	Arsenic (As) in ng/m³	<1.0	6	Air Sampling , 3rd Edn.Method 402 and APHA 232nd Edition Part 3114B
11	Benzene (C_6H_6) in µg/m³	<2.08	5	IS: 5182 (Part- 11)
12	Benzo (a) pyrene in ng/m³	<0.4	1	IS: 5182 (Part- 12)

NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.

Report Prepared by :

R. Sharma

for **Qualissure Laboratory Services**
Reviewed & Authorized By

(Benimadhab Gorai, Chemist)
(Authorized Signatory)

----- *End of the Report*-----

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DOC NO : QLS/SAMP/08-A/00

TEST REPORT

Name & Address Of the Customer:		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/MR/A/23-24/C/365
Vill + P.O. : Gopalpur	Date	: 28.07.2023
P.S. : Kanksa,Durgapur	Sample No.	: QLS/MR/A/23-24/365
Paschim Bardhaman	Date of Performance(s)	: 22.07.2023-28.07.2023
West Bengal – 713 212	Sample Description	: Ambient Air
	Ref No. Date	: 3322000242,Dated:23.05.2023

Analysis Result

Location: P.C.M Boundary Wall			Date of sampling : 19.07-20.07.2023	
Sampling Done by: S.Ghosh/P.Mahato			Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Rainfall				
Sl. No.	**Pollutants**	**Result**	**Limit as per CPCB**	**Method of Test Reference**
1	Particulate matter (PM_{10}) in $\mu g/m^3$	72	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter ($PM_{2.5}$) in $\mu g/m^3$	36	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO_2) in $\mu g/m^3$	6.9	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO_2) in $\mu g/m^3$	26.1	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in $\mu g/m^3$	561	2000	IS: 5182 (Part-10):1999,RA-2014
6	Ammonia (NH_3) in $\mu g/m^3$	12.0	400	Air Sampling , 3rd Edn -Method-401
7	Ozone (O_3) in $\mu g/m^3$	<19.62	180	Air Sampling , 3rd Edn -Method-411
8	Lead (Pb) in $\mu g/m^3$	<0.02	1	EPA IO-3.2 & 5.0
9	Nickel (Ni) in ng/m^3	5.0	20	EPA IO-3.2
10	Arsenic (As) in ng/m^3	<1.0	6	Air Sampling , 3rd Edn.Method 402 and APHA 23rd Edition Part 3114B
11	Benzene (C_6H_6) in $\mu g/m^3$	<2.08	5	IS: 5182 (Part- 11)
12	Benzo (a) pyrene in ng/m^3	<0.4	1	IS: 5182 (Part- 12)
NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.				

Report Prepared by :

R. Barua

for **Qualissure Laboratory Services**
Reviewed & Authorized By

(Benimadhab Gorai, Chemist)
(Authorized Signatory)

-----End of the Report-----

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TC-6271

DOC NO : QLS/SAMP/08-A/00

TEST REPORT

Name & Address Of the Customer:		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/MR/A/23-24/C/366
Vill + P.O. : Gopalpur	Date	: 28.07.2023
P.S. : Kanksa,Durgapur	Sample No.	: QLS/MR/A/23-24/366
Paschim Bardhaman	Date of Performance(s)	: 22.07.2023-28.07.2023
West Bengal – 713 212	Sample Description	: Ambient Air
	Ref No. Date	: 3322000242,Dated:23.05.2023

Analysis Result

Location: North East Boundary Wall	Date of sampling : 20.07.2023-21.07.2023
Sampling Done by: S.Ghosh/P.Mahato	Sampling done as per : CPCB Guidelines (Volume-1)
Environmental Condition : Rainfall	

Sl. No.	Pollutants	Result	Limit as per CPCB	Method of Test Reference
1	Particulate matter (PM_{10}) in µg/m³	47	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter ($PM_{2.5}$) in µg/m³	21	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO_2) in µg/m³	5.9	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO_2) in µg/m³	27.1	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in µg/m³	446	2000	IS: 5182 (Part-10):1999,RA-2014
6	Ammonia (NH_3) in µg/m³	16.8	400	Air Sampling , 3rd Edn -Method-401
7	Ozone (O_3) in µg/m³	<19.62	180	Air Sampling , 3rd Edn -Method-411
8	Lead (Pb) in µg/m³	<0.02	1	EPA IO-3.2 & 5.0
9	Nickel (Ni) in ng/m³	<4.0	20	EPA IO-3.2
10	Arsenic (As) in ng/m³	<1.0	6	Air Sampling , 3rd Edn.Method 402 and APHA 232nd Edition Part 3114B
11	Benzene (C_6H_6) in µg/m³	<2.08	5	IS: 5182 (Part- 11)
12	Benzo (a) pyrene in ng/m³	<0.4	1	IS: 5182 (Part- 12)

NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.

Report Prepared by :

R. Sharma

for **Qualissure Laboratory Services**
Reviewed & Authorized By

(Benimadhab Gorai, Chemist)
(Authorized Signatory)

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Annexure-IV(3).

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TC-6271

DOC NO : QLS/SAMP/08-A/00

TEST REPORT

Name & Address Of the Customer:		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/MR/A/23-24/C/534
Vill + P.O. : Gopalpur	Date	: 25.09.2023
P.S. : Kanksa,Durgapur	Sample No.	: QLS/MR/A/23-24/534
Paschim Bardhaman	Date of Performance(s)	: 17-25.09.2023
West Bengal – 713 212	Sample Description	: Ambient Air
	Ref No. Date	: 3322000242,Dated:23.05.2023

Analysis Result

Location: Near Main Gate	Date of sampling : 09-10.09.2023
Sampling Done by: P.Mandal/P.Mahato	Sampling done as per : CPCB Guidelines (Volume-1)
Environmental Condition : Light Rainfall	

Sl. No.	Pollutants	Result	Limit as per CPCB	Method of Test Reference
1	Particulate matter (PM_{10}) in µg/m³	85	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter ($PM_{2.5}$) in µg/m³	42	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO_2) in µg/m³	7.0	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO_2) in µg/m³	27.4	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in µg/m³	1110	2000	IS: 5182 (Part-10):1999,RA-2014
6	Ammonia (NH_3) in µg/m³	26.4	400	Air Sampling , 3rd Edn -Method-401
7	Ozone (O_3) in µg/m³	20.1	180	Air Sampling , 3rd Edn -Method-411
8	Lead (Pb) in µg/m³	<0.02	1	EPA IO-3.2 & 5.0
9	Nickel (Ni) in ng/m³	9.1	20	EPA IO-3.2
10	Arsenic (As) in ng/m³	<1.0	6	Air Sampling , 3rd Edn.Method 402 and APHA 232nd Edition Part 3114B
11	Benzene (C_6H_6) in µg/m³	<2.08	5	IS: 5182 (Part- 11)
12	Benzo (a) pyrene in ng/m³	<0.4	1	IS: 5182 (Part- 12)

NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

(Benimadhab Gorai, Chemist)
(Authorized Signatory)

----- *End of the Report*-----

361, Prantick Pally, 45/361, Bose Pukur Road, Kolkata -700107
Email : qualissure@gmail.com; info@qualissure.com ; Mob.No. 98312 87086 ; 9830093976

TC-6271

DOC NO : QLS/SAMP/08-A/00

TEST REPORT

Name & Address Of the Customer:		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/MR/A/23-24/C/535
Vill + P.O. : Gopalpur	Date	: 25.09.2023
P.S. : Kanksa,Durgapur	Sample No.	: QLS/MR/A/23-24/535
Paschim Bardhaman	Date of Performance(s)	: 17-25.09.2023
West Bengal – 713 212	Sample Description	: Ambient Air
	Ref No. Date	: 3322000242,Dated:23.05.2023

Analysis Result

Location: Near Administrative Building			Date of sampling : 09 - 10.09.2023	
Sampling Done by: P.Mandal/P.Mahato			Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Light Rainfall				
Sl. No.	**Pollutants**	**Result**	**Limit as per CPCB**	**Method of Test Reference**
1	Particulate matter (PM_{10}) in µg/m³	93	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter ($PM_{2.5}$) in µg/m³	58	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO_2) in µg/m³	7.5	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO_2) in µg/m³	29.7	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in µg/m³	1018	2000	IS: 5182 (Part-10):1999,RA-2014
6	Ammonia (NH_3) in µg/m³	18.2	400	Air Sampling , 3rd Edn -Method-401
7	Ozone (O_3) in µg/m³	<19.62	180	Air Sampling , 3rd Edn -Method-411
8	Lead (Pb) in µg/m³	0.11	1	EPA IO-3.2 & 5.0
9	Nickel (Ni) in ng/m³	11.4	20	EPA IO-3.2
10	Arsenic (As) in ng/m³	<1.0	6	Air Sampling , 3rd Edn.Method 402 and APHA 232nd Edition Part 3114B
11	Benzene (C_6H_6) in µg/m³	<2.08	5	IS: 5182 (Part- 11)
12	Benzo (a) pyrene in ng/m³	<0.4	1	IS: 5182 (Part- 12)
NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.				

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

Benimadhab Gorai, Chemist
(Authorized Signatory)

----- *End of the Report*-----

- *The results relate only to the item(s) tested.*
- *This Test Report shall not be reproduced* ***without*** *the permission of Qualissure* ***Laboratory Services.***
- *The reserved part of sample(s), except* ***perishable*** *sample(s), shall be retained* ***for 30 days*** *from the date of issue of the Test Report.*

Qualissure Laboratory Services
361, Prantick Pally, 45/361, Bose Pukur Road, Kolkata -700107
Email : qualissure@gmail.com; info@qualissure.com ; Mob.No. 98312 87086 ; 9830093976

TC-6271

DOC NO : QLS/SAMP/08-A/00

TEST REPORT

Name & Address Of the Customer:		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/MR/A/23-24/C/536
Vill + P.O. : Gopalpur	Date	: 25.09.2023
P.S. : Kanksa,Durgapur	Sample No.	: QLS/MR/A/23-24/536
Paschim Bardhaman	Date of Performance(s)	: 17-25.09.2023
West Bengal – 713 212	Sample Description	: Ambient Air
	Ref No. Date	: 3322000242,Dated:23.05.2023

Analysis Result

Location: C.P.P	Date of sampling : 09-10.09.2023
Sampling Done by: P.Mandal/P.Mahato	Sampling done as per : CPCB Guidelines (Volume-1)
Environmental Condition : Light Rainfall	

Sl. No.	Pollutants	Result	Limit as per CPCB	Method of Test Reference
1	Particulate matter (PM_{10}) in $\mu g/m^3$	40	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter ($PM_{2.5}$) in $\mu g/m^3$	19	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO_2) in $\mu g/m^3$	6.6	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO_2) in $\mu g/m^3$	25.9	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in $\mu g/m^3$	698	2000	IS: 5182 (Part-10):1999,RA-2014
6	Ammonia (NH_3) in $\mu g/m^3$	<10.0	400	Air Sampling , 3rd Edn -Method-401
7	Ozone (O_3) in $\mu g/m^3$	<19.62	180	Air Sampling , 3rd Edn -Method-411
8	Lead (Pb) in $\mu g/m^3$	<0.02	1	EPA IO-3.2 & 5.0
9	Nickel (Ni) in ng/m^3	<4.0	20	EPA IO-3.2
10	Arsenic (As) in ng/m^3	<1.0	6	Air Sampling , 3rd Edn.Method 402 and APHA 23rd Edition Part 3114B
11	Benzene (C_6H_6) in $\mu g/m^3$	<2.08	5	IS: 5182 (Part- 11)
12	Benzo (a) pyrene in ng/m^3	<0.4	1	IS: 5182 (Part- 12)

NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

Benimadhab Gorai, Chemist
(Authorized Signatory)

----- End of the Report-----

- *The results relate only to the item(s) tested.*
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Email : qualissure@gmail.com; info@qualissure.com ; Mob.No. 98312 87086 ; 9830093976

TC-6271

DOC NO : QLS/SAMP/08-A/00

TEST REPORT

Name & Address Of the Customer:		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/MR/A/23-24/C/537
Vill + P.O. : Gopalpur	Date	: 25.09.2023
P.S. : Kanksa,Durgapur	Sample No.	: QLS/MR/A/23-24/537
Paschim Bardhaman	Date of Performance(s)	: 17-25.09.2023
West Bengal – 713 212	Sample Description	: Ambient Air
	Ref No. Date	: 3322000242,Dated:23.05.2023

Analysis Result

Location: P.C.M Boundary Wall			Date of sampling : 10 - 11.09.2023	
Sampling Done by: P.Mandal/P.Mahato			Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Light Rainfall				
Sl. No.	**Pollutants**	**Result**	**Limit as per CPCB**	**Method of Test Reference**
1	Particulate matter (PM_{10}) in $\mu g/m^3$	90	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter ($PM_{2.5}$) in $\mu g/m^3$	31	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO_2) in $\mu g/m^3$	8.0	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO_2) in $\mu g/m^3$	28.1	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in $\mu g/m^3$	721	2000	IS: 5182 (Part-10):1999,RA-2014
6	Ammonia (NH_3) in $\mu g/m^3$	16.5	400	Air Sampling , 3rd Edn -Method-401
7	Ozone (O_3) in $\mu g/m^3$	<19.62	180	Air Sampling , 3rd Edn -Method-411
8	Lead (Pb) in $\mu g/m^3$	<0.02	1	EPA IO-3.2 & 5.0
9	Nickel (Ni) in ng/m^3	8.6	20	EPA IO-3.2
10	Arsenic (As) in ng/m^3	<1.0	6	Air Sampling , 3rd Edn.Method 402 and APHA 232nd Edition Part 3114B
11	Benzene (C_6H_6) in $\mu g/m^3$	<2.08	5	IS: 5182 (Part- 11)
12	Benzo (a) pyrene in ng/m^3	<0.4	1	IS: 5182 (Part- 12)
NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.				

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

Benimadhab Gorai, Chemist
(Authorized Signatory)

---- End of the Report----

- *The results relate only to the item(s) tested.*
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Email : qualissure@gmail.com; info@qualissure.com ; Mob.No. 98312 87086 ; 9830093976

TC-6271

DOC NO : QLS/SAMP/08-A/00

TEST REPORT

Name & Address Of the Customer:		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/MR/A/23-24/C/538
Vill + P.O. : Gopalpur	Date	: 25.09.2023
P.S. : Kanksa,Durgapur	Sample No.	: QLS/MR/A/23-24/538
Paschim Bardhaman	Date of Performance(s)	: 17-25.09.2023
West Bengal – 713 212	Sample Description	: Ambient Air
	Ref No. Date	: 3322000242,Dated:23.05.2023

Analysis Result

Location: North East Boundary Wall			Date of sampling : 10 - 11.09.2023	
Sampling Done by: S.Ghosh/P.Mahato			Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Light Rainfall				
Sl. No.	**Pollutants**	**Result**	**Limit as per CPCB**	**Method of Test Reference**
1	Particulate matter (PM_{10}) in µg/m³	57	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter ($PM_{2.5}$) in µg/m³	29	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO_2) in µg/m³	6.9	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO_2) in µg/m³	26.4	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in µg/m³	984	2000	IS: 5182 (Part-10):1999,RA-2014
6	Ammonia (NH_3) in µg/m³	<10.0	400	Air Sampling , 3rd Edn -Method-401
7	Ozone (O_3) in µg/m³	<19.62	180	Air Sampling , 3rd Edn -Method-411
8	Lead (Pb) in µg/m³	<0.02	1	EPA IO-3.2 & 5.0
9	Nickel (Ni) in ng/m³	<4.0	20	EPA IO-3.2
10	Arsenic (As) in ng/m³	<1.0	6	Air Sampling , 3rd Edn.Method 402 and APHA 23rd Edition Part 3114B
11	Benzene (C_6H_6) in µg/m³	<2.08	5	IS: 5182 (Part- 11)
12	Benzo (a) pyrene in ng/m³	<0.4	1	IS: 5182 (Part- 12)
NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.				

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

Benimadhab Gorai, Chemist
(Authorized Signatory)

----- *End of the Report*-----

Annexure- V

Park Plaza,71 Park Street, 6F , North Block,Kolkata Pin - 700016
Tel : 033-40504050 Email - info@neometaliks.com
Website : www.neometaliks.com CIN No : U27109WB2003PLC097231

PURCHASE ORDER

PO.Number : 3522000312 **Date : 20.03.2023**

Details of supplier
Control Systems & Solutions
28/2F, Nakuleswar Bhattacharjee Lane
KOLKATA
State Name : West Bengal StateCode : 19
GSTIN : 19AFOPD8278C1Z5 PAN :
Contact Details :

Other References
Your reference : P222320-001 / 01.07.2022
Our Reference : SYSTEMS/2910 / 29.10.2022
RFQ Number :
Contact Person :
Contact Number:

Shipping from address
Control Systems & Solutions
28/2F, Nakuleswar Bhattacharjee Lane
KOLKATA
State Name : West Bengal StateCode : 19
GSTIN : 19AFOPD8278C1Z5 PAN :
Contact Details :

Billing To Address
Neo Metaliks Limited
Vil & PO Gopalpur,Dist Burdwan
Durgapur 713212
State Name : West Bengal StateCode : 19
GSTIN : 19AABCN8514G1ZE
PAN : AABCN8514G

Sr. No.	Item Code	Description	Unit	HSN / SAC	Ref.No	Quantity	Price / Unit	Dis %	Dis. Amt.	Amount
1	CN30004259	**WATER CANON/DEFOGGER**	NOS	6901	1722000042	6.000	184,000.00	0.00	0.00	1,104,000.00

CGST @ 9.00 %	99,360.00
SGST @ 9.00 %	99,360.00
In words : Rupees Eleven Lakh Four Thousand only — Val.Excl.Tax	1,104,000.00
In words : Rupees Thirteen Lakh Two Thousand Seven Hundred Twenty only — Order Value	1,302,720.00

Terms & Conditions : -

Header text

Kind Attn: Mr. Deeptarka Roy Mob: 8276992788)

Sub: Order for Design, Engineering, Manufacturing, Supply of 06 Sets Trolley Mounted Fog / Mist Water Cannon including Supervision Services during its Installation and Commissioning, Supply of successful Commissioning Spares and 2-Years of Spares for our Neo Metaliks Limited Plant Site at Durgapur, West Bengal

Ref: - 1/ Our Enquiry dated 30.05.2022

2/ Your Offer dated 04.06.2022

3/ Your Revised Offer dated 20.06.2022

5/ Your Revised Offer dated 01.07.2022

6/ Final discussion held on 01.07.2022

With reference to above subject and based on our various discussions ending with final discussion held on dated 01st July, 2022 as referred above, we, M/s Neo Metaliks Ltd. (herein after referred as "Purchaser") are pleased to issue the Purchase Order (PO) (herein after may be referred as "Order" / "Contract") on M/s Control System & Control Solutions (herein after referred as "Supplier") for Design, Engineering, Manufacture, Supply of 06 Sets Trolley Mounted Fog / Mist Water Cannon including Supervision Services during its Installation and Commissioning, Supply of successful Commissioning Spares and 2-Years of Spares required for our Up-gradation Project at M/s Neo Metaliks Limited Plant Site, Durgapur, West Bengal.

The broad terms and conditions of the Order are detailed below: -

Taxes & Duties

C. TAXES & DUTIES:

1. GST as applicable at the time of delivery over and above the contract price as mentioned in Clause No. B 1/ above

2. GST will be paid extra as applicable at the prevailing rate. GST amount shall be released only if there is no loss of credit to Purchaser or upon submission of proof of filing GST return by the Supplier within time frame of passing credit.

Rajeswari Nair

Prepared By Approved By

NOTE : Please mention order number,Unit of Measurement(UOM),HSN/SAC and A/C head in challan/invoice for faster payment .
Your general conditions of sale/services are not applicable to us .
Your GST registration number should be quoted in your challan/invoice .
Material/Services will be accepted only against submission of copy of Tax invoice.

Park Plaza,71 Park Street, 6F , North Block,Kolkata Pin - 700016
Tel : 033-40504050 Email - info@neometaliks.com
Website : www.neometaliks.com CIN No : U27109WB2003PLC097231

SERVICE ORDER

PO.Number : 3322000561 **Date : 20.11.2023**

Details of service provider
M D G Enterprise
17, NEW SHYAMPUR COLONY ROAD NO.18
DURGAPUR
State Name : West Bengal StateCode : 19
GSTIN : 19ABFFM7245P1ZI PAN :
Contact Details :

Other References
Your reference : OFFER / 28.10.2023
Our Reference : /
RFQ Number :
Contact Person :
Contact Number:

Service provider address
M D G Enterprise
17, NEW SHYAMPUR COLONY ROAD NO.18
DURGAPUR
State Name : West Bengal StateCode : 19
GSTIN : 19ABFFM7245P1ZI PAN :
Contact Details :

Billing To Address
Neo Metaliks Limited
GOPALPUR
DURGAPUR 713212
State Name : West Bengal StateCode : 19
GSTIN : 19AABCN8514G1ZE
PAN : AABCN8514G

Sr. No.	Item Code	Description	Unit	HSN / SAC	Ref.No	Quantity	Price / Unit	Dis. %	Dis. Amt.	Amount
1		**Installation of pipeline**			1322000636			0.00	0.00	43,680.00
									CGST @ 9.00 %	3,931.20
									SGST @ 9.00 %	3,931.20
Above service line contains below services : -										
	3002451	INSTALLATION OF PIPES	INM			240.000	182.00			43,680.00

In words : Rupees Forty Three Thousand Six Hundred Eighty only	Val.Excl.Tax	43,680.00
In words : Rupees Fifty One Thousand Five Hundred Forty Two And Paise Forty only	Order Value	51,542.40

Terms & Conditions : -

General Conditions

1. The work is being awarded to you with understanding that you are fully aware with the local site situation.
2. You have to mobilize at site immediately after receipt of Work Order.
3. All tools & necessary items to do the job would be supplied by you as per requirement of this job.
4. You have to understand the job in totality and prepare job plan including special tools & tackles, lifting & carrying arrangement and get it approved by Neo Engineer.
5. You shall be self sufficient on tools & tackles, Bending Machine, lifting and handling equipment, welding machine, grinding machine, cutting set, Crane etc.
6. Stage wise inspection shall be offered to NEO Engineer during erection and alignment for required clearance to proceed further.
7. You must follow all safety norms and statutory requirements. All PPE will be in your scope.
8. You shall obtain a VALID LISENCE under the contractor labour (R&A) Acts. 1970 & contract labour (Regulation & Abolition) central rules, 1971, before commencement of the work and continue to have a valid license until the completion of the work.
9. Labour License will be submitted by you immediately before commencement of work.
10. You have to take care of all safety aspects of your employees working at site.
11. You have to follow all safety norms and ensure all kind of safety to your workers and supervisors.
12. You are liable to follow all necessary rules and regulation under law of land e.g. Factory Acts, Labour Acts etc.
13. Statutory liabilites will be in your scope.
14. Other existing rules not mentioned here shall be applicable as per prevailing rules of NML.

Scope of Work

1. Input water pipe-line required to be installed for 06 nos Mist water cannons at below locations:

1 Weigh Bridge – Near Weigh Bridge – Cannon-1
2 Pig Yard – Inside Pig Yard – Cannon-2
3 Sinter Plant – In front of Iron Ore fines Yard/ Near Head ESP stack – Cannon-3
4 Sinter Plant – Near Sinter Ground Hopper – Cannon-4
5 Sinter Plant – Near Crusher & Screen House – Cannon-5
6 Sinter Plant/RMHS – Near Tall ESP Stack / MBF ground hopper – Cannon-6

2. Tentative Scope of items to be installed-

PRIYOBROTO SWAIN
Prepared By

Approved By

NOTE : Please mention order number,Unit of Measurement(UOM),HSN/SAC and A/C head in challan/invoice for faster payment .
Your general conditions of sale/services are not applicable to us .
Your GST registration number should be quoted in your challan/invoice .
Material/Services will be accepted only against submission of copy of Tax invoice.

Park Plaza,71 Park Street, 6F , North Block,Kolkata Pin - 700016
Tel : 033-40504050 Email - info@neometaliks.com
Website : www.neometaliks.com CIN No : U27109WB2003PLC097231

PURCHASE ORDER

PO.Number : 3522001003 **Date : 01.11.2023**

Details of supplier
Dugar Steel Corporation
Plot no. 105, at 122 J. N. Mukherjee Road
HOWRAH
State Name : West Bengal StateCode : 19
GSTIN : 19AACFD2772L1Z6 PAN :
Contact Details :

Other References
Your reference : REVISEDOFFER / 02.11.2023
Our Reference : /
RFQ Number :
Contact Person :
Contact Number:

Shipping from address
Dugar Steel Corporation
Plot no. 105, at 122 J. N. Mukherjee Road
HOWRAH
State Name : West Bengal StateCode : 19
GSTIN : 19AACFD2772L1Z6 PAN :
Contact Details :

Billing To Address
Neo Metaliks Limited
GOPALPUR
DURGAPUR 713212
State Name : West Bengal StateCode : 19
GSTIN : 19AABCN8514G1ZE
PAN : AABCN8514G

Sr. No.	Item Code	Description	Unit	HSN / SAC	Ref.No	Quantity	Price / Unit	Dis %	Dis. Amt.	Amount
1	CN30008556	**M.S ERW PIPE 50 NB, HEAVY DUTY.**	M	7306	1522000986	120.000	360.00	0.00	0.00	43,200.00

CGST @ 9.00 %	3,888.00
SGST @ 9.00 %	3,888.00
In words : Rupees Forty Three Thousand Two Hundred only — Val.Excl.Tax	43,200.00
In words : Rupees Fifty Thousand Nine Hundred Seventy Six only — Order Value	50,976.00

Terms & Conditions : -

Price Basis	F O R DURGAPUR TRANSPORT.
Taxes & Duties	EXTRA @18% GST APPLICABLE.
Freight	EXTRA @1500 FREIGHT TO BE PAID.
Payment Terms	WITHIN 30 DAYS AFTER RECIEPT OF METERIAL.
Delivery period	WITHIN 2 - 3 DAYS AFTER RECIEPT OF PO.
Inspection	AT OURDURGAPUR FACTORY.
Rejection	IF METERIALS NOT MATCH AS MENTIONED IN PO.
Arbitration & Jurisdiction	Jurisdiction at Kolkata.

.

PRIYOBROTO SWAIN RAJIV KR. SONI

Prepared By Approved By

NOTE : Please mention order number,Unit of Measurement(UOM),HSN/SAC and A/C head in challan/invoice for faster payment .
Your general conditions of sale/services are not applicable to us .
Your GST registration number should be quoted in your challan/invoice .
Material/Services will be accepted only against submission of copy of Tax invoice.

Annexure- VI

361, Prantick Pally, 45/361, Bose Pukur Road, Kolkata -700107
Email : qualissure@gmail.com; info@qualissure.com ; Mob.No. 98312 87086 ; 9830093976

TC-6271

DOC NO : QLS//SAMP/08-B/00

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/MR/A/23-24/C/546
Vill + P.O. : Gopalpur	Date	: 25.09.2023
P.S. : Kanksa, Durgapur	Sample No.	: QLS/MR/A/23-24/546-547
Paschim Bardhaman	Sample Description	: Stack Flue Gas
West Bengal – 713 212	Date of Performance(s)	: 17-25.09.2023
	Sample Mark	: Sinter Plant (Head ESP Inlet & Outlet)
	Ref No. Date	: 3322000173, Dated: 10.04.2023

Analysis Result

Date & Time of Sampling : 15.09.2023 at 13.15 hrs Sampling done by : C.Sahoo Sampling Procedures : EPA/IS		Sample no : 546	Sample No : 547
A : General Information of Stack:			
1 Stack connected to		: Sinter Plant (Head ESP Inlet)	: Sinter Plant (Head ESP Outlet)
2 Emission due to		: Combustion BF Gas	: Combustion BF Gas
3 Material of construction of Stack		: MS	: MS
4 Shape of Stack		: Circular	: Circular
5 Whether stack is provided with permanent platform		: Yes	: Yes
6 Generation Capacity		: ----	: ----
B : Physical Characteristic of Stack:			
1 Height of Stack from ground level		: 12.0 m	: 50.0 m
2 Diameter of Stack at bottom		: ----	: ----
3 Diameter of Stack at sampling point		: 2.2 m	: 2.2 m
4 Height of the sampling point from ground level		: 12.0 m	: 37.25 m
5 Area of Stack		: 3.8029 m^2	: 3.8029 m^2
C : Analysis/Characteristic of Stack :			
1 Fuel used : BF Gas	2. Fuel consumption : 3500 Nm^3/hr		
D : Results of Sampling & Analysis of gaseous Emission :	**Method**	**Inlet Result**	**Outlet Result**
1 Temperature of emission (^0C)	EPA Part 2	: 124	: 105
2 Barometric pressure (mm of Hg)	EPA Part 2	: 747	: 747
3 Velocity of gas (m/sec)	EPA Part 2	: 18.29	: 11.80
4 Quantity of gas flow (Nm^3/hr)	EPA Part 2	: 175536	: 125086
5 Concentration of Carbon monoxide (%)	IS:13270-1992, Reaf : 2017	: <0.2	: <0.2
6 Concentration of Carbon dioxide (%)	IS:13270-1992, Reaf : 2017	: 7.4	: 6.2
7 Concentration of Sulphur dioxide (mg/Nm^3)	EPA Part-6	: 171.8	: 93.1
8 Concentration of Oxides of Nitrogen (mg/Nm^3)	EPA Part-7	: 81.0	: 49.7
9 Concentration of Particulate Matters (mg/Nm^3)	EPA Part 5	: 2911	: 38
E : Pollution : Details of pollution control devices attached with the stack		: Nil	: ESP
F : Remarks : Efficiency of ESP – 98%			

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

Benimadhab Gorai, Chemist
(Authorized Signatory)

----- *End of the Report*-----

- *The results relate only to the item(s) tested.*
- *This Test Report shall not be reproduced without the permission of Qualissure Laboratory Services.*
- *The reserved part of sample(s), except perishable sample(s), shall be retained for 30 days from the date of issue of the Test Report.*

361, Prantick Pally, 45/361, Bose Pukur Road, Kolkata -700107
Email : qualissure@gmail.com; info@qualissure.com ; Mob.No. 98312 87086 ; 9830093976

TC-6271

DOC NO : QLS//SAMP/08-B/00

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/MR/A/23-24/C/548
Vill + P.O. : Gopalpur	Date	: 25.09.2023
P.S. : Kanksa, Durgapur	Sample No.	: QLS/MR/A/23-24/548-549
Paschim Bardhaman	Sample Description	: Stack Flue Gas
West Bengal – 713 212	Date of Performance(s)	: 17-25.09.2023
	Sample Mark	: Sinter Plant (Tail ESP Inlet & Outlet)
	Ref No. Date	: 3322000173, Dated: 10.04.2023

Analysis Result

Date & Time of Sampling : 15.09.2023 at 15.45 hrs Sampling done by : C.Sahoo Sampling Procedures : EPA/IS		Sample no : 548	Sample No : 549
A : General Information of Stack:			
1 Stack connected to		: Sinter Plant (Tail ESP Inlet)	: Sinter Plant (Tail ESP Outlet)
2 Emission due to		: Process Activity	: Process Activity
3 Material of construction of Stack		: MS	: MS
4 Shape of Stack		: Circular	: Circular
5 Whether stack is provided with permanent platform		: Yes	: Yes
6 Generation Capacity		: ---	: ---
B : Physical Characteristic of Stack:			
1 Height of Stack from ground level		: 9.0 m	: 40.0 m
2 Diameter of Stack at bottom		: ---	: ---
3 Diameter of Stack at sampling point		: 2.0 m	: 2.0 m
4 Height of the sampling point from ground level		: 9.0.0 m	: 35.0 m
5 Area of Stack		: 3.1429 m^2	: 3.1429 m^2
C : Analysis/Characteristic of Stack :			
1 Fuel used : ---	2. Fuel consumption : ---		
D : Results of Sampling & Analysis of gaseous Emission :	**Method**	**Inlet Result**	**Outlet Result**
1 Temperature of emission (°C)	EPA Part 2	: 103	: 76
2 Barometric pressure (mm of Hg)	EPA Part 2	: 747	: 747
3 Velocity of gas (m/sec)	EPA Part 2	: 15.93	: 11.38
4 Quantity of gas flow (Nm^3/hr)	EPA Part 2	: 134073	: 107968
5 Concentration of Carbon monoxide (%)	IS:13270-1992, Reaf : 2017	: <0.2	: <0.2
6 Concentration of Carbon dioxide (%)	IS:13270-1992, Reaf : 2017	: 2.8	: 0.6
7 Concentration of Sulphur dioxide (mg/Nm^3)	EPA Part-6	: 86.1	: 50.4
8 Concentration of Oxides of Nitrogen (mg/Nm^3)	EPA Part-7	: 66.9	: 34.0
9 Concentration of Particulate Matters (mg/Nm^3)	EPA Part 5	: 3122	: 12
E : Pollution : Details of pollution control devices attached with the stack		: Nil	: ESP
F : Remarks : Efficiency of ESP – 99%			

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

Benimadhab Gorai, Chemist
(Authorized Signatory)

----- *End of the Report*-----

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Qualissure Laboratory Services

361, Prantick Pally, 45/361, Bose Pukur Road, Kolkata -700107
Email : qualissure@gmail.com; info@qualissure.com ; Mob.No. 98312 87086 ; 9830093976

TC-6271

DOC NO : QLS//SAMP/08-B/00

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa, Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Sample Description Date of Performance(s) Sample Mark Ref No. Date	: QLS/MR/A/23-24/C/550 : 25.09.2023 : QLS/MR/A/23-24/550-551 : Stack Flue Gas : 17-25.09.2023 : Crusher/Screen House at sinter plant (Bag Filter Inlet & Outlet) : 3322000173, Dated: 10.04.2023

Analysis Result

Date & Time of Sampling : 15.09.2023 at 16.30 hrs Sampling done by : C.Sahoo Sampling Procedures : EPA/IS		Sample no : 550	Sample No : 551
A : General Information of Stack:			
1 Stack connected to		: Crusher/Screen House (Bag Filter Inlet)	: Crusher/Screen House (Bag Filter Outlet)
2 Emission due to		: Process Activity	: Process Activity
3 Material of construction of Stack		: MS	: MS
4 Shape of Stack		: Circular	: Circular
5 Whether stack is provided with permanent platform		: Yes	: Yes
6 Generation Capacity		: ----	: ----
B : Physical Characteristic of Stack:			
1 Height of Stack from ground level		: 10.0 m	: 10.0 m
2 Diameter of Stack at bottom		: ----	: ----
3 Diameter of Stack at sampling point		: 1.0 m	: 1.0 m
4 Height of the sampling point from ground level		: 10.0 m	: 2.0 m
5 Area of Stack		: 0.7857 m^2	: 0.7857 m^2
C : Analysis/Characteristic of Stack :			
1 Fuel used : ----	2. Fuel consumption : ----		
D : Results of Sampling & Analysis of gaseous Emission :	**Method**	**Inlet Result**	**Outlet Result**
1 Temperature of emission (^{0}C)	EPA Part 2	: 76	: 65
2 Barometric pressure (mm of Hg)	EPA Part 2	: 747	: 747
3 Velocity of gas (m/sec)	EPA Part 2	: 6.25	: 4.79
4 Quantity of gas flow (Nm^3/hr)	EPA Part 2	: 14839	: 11741
5 Concentration of Carbon monoxide (%)	IS:13270-1992, Reaf : 2017	: <0.2	: <0.2
6 Concentration of Carbon dioxide (%)	IS:13270-1992, Reaf : 2017	: <0.2	: 0.6
7 Concentration of Sulphur dioxide (mg/Nm^3)	EPA Part-6	: ----	: ----
8 Concentration of Oxides of Nitrogen (mg/Nm^3)	EPA Part-7	: ----	: ----
9 Concentration of Particulate Matters (mg/Nm^3)	EPA Part 5	: 26	: <4.0
E : Pollution : Details of pollution control devices attached with the stack		: Nil	: Bag Filter
F : Remarks : Efficiency of Bag Filter - 95%			

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

Benimadhab Gorai, Chemist
(Authorized Signatory)

----- *End of the Report*-----

Annexure- VII

SPEED POST

NOCNO171997

WEST BENGAL POLLUTION CONTROL BOARD

Paribesh Bhawan
10A, Block – LA, Sector III, Bidhannagar
Kolkata - 700 106

Memo No. 393 -2N-566/2003-PART-I Dated 25.07.2022

From :
Member Secretary,
West Bengal Pollution Control Board

To : M/s. Neo Metakiks Limited,
Park Plaza, 71, Park Street, North Block, Kolkata- 700 016, W.B.

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

Ref : i) Your letter No. Nil Dated -
ii) EC Identification No.EC22A008WB167040, File No.J-11011/779/2007-IA.II(I) dated 02.06.2022, issued by MoEF&CC, GOI.

WEST BENGAL

Dear Sirs,

In response to the application for Consent to Establish (NOC) for proposed Unit of M/s Neo Metaliks Limited for proposed expansion and upgradation of Pig Iron Manufacturing Plant to a 0.4 MTPA and inclusion of Steel Melting Shop(for details see Annexure) at Gopalpur, Dist.-Paschim Bardhaman, West Bengal,

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.

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 down 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.

23/07/2022

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

NOC NO171997

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

8. You will have to abide by any other stipulations as may be prescribed by any authority/local bodies/Government Departments etc.

SPECIAL CONDITION :

See Annexure.

Gross Capital Investment - Rs.694,49,99,900/-

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

Yours faithfully,

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

Memo No. 893 -2N-566/2003-PART-I dtd. 25.07.2022 Dated.....

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

Copy forwarded for information to :

1. Chief Inspector of Factories, Government of West Bengal, N. S. Building, Kolkata-700 001
2. Director of Industries/Director of Cottage & Small Scale Industries, Government of West Bengal, N. S. Building, Kolkata-700 001
3. Guard file, West Bengal Pollution Control Board.
4. Environmental Engineer, I/II/Alipur R.O./Howrah R.O./Hooghly R.O./B.R.O./D.R.O./Haldia R.O./S.R.O./ Asansol/ Sub-R.O./WBPC Board

Himalaya Bhawan Delhi Road, Dankuni Dist. Hooghly	Vill, Panpur Kalyani Expressway P.O. Narayanpur Dist. 24 Pgs. (N)	Sahid Khudiram Sarani City Centre, Durgapur-16 Dist. Burdwan	10, Camac Street 2nd Floor Kolkata-700 017
Paribesh Bhawan 10A, LA-Block, Sector-III Salt Lake City, Kolkata - 700 098	Block-05 at 40 Flats Complex Adjacent to Priyambada Housing Estate P.O. : Khanjanchak, P.S. Durgachak Haldia-721602 Dist. : Purba Medinipur	Paribahan Nagar Matigara, Siliguri Dist.-Darjeeling	
Satya Chowdhury Indoor Stadium Balurchar Bandh Road Malda-732101	Asansol Sub-Regional Office ADDA Commercial Market (2nd Floor) Opposite Asansol Fire Station G.T. Road, Asansol-713 301		

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 Sl. No. – **NO171997**

Special Conditions issued to - M/s. Neo Metaliks Limited (Expansion Project) at Gopalpur,Tehsil – Durgapur, Dist – Paschim Brdhaman, West Bengal

Emission :-

Details of units with product, production capacity and pollution control system						
Sl	**Description**	**Capacity**	**Production Capacity**	**Product**	**Stack Height Details**	**Pollution Control System**
1	DG Set	1X1250 KVA	Backup power	-	37.7 mtr	Acoustic Enclosure & Exhaust Mufflet
2	Mini Blast Furnace	215 Cu.M will be upgraded to 350 Cu.M	4,22,000 TPA	Pig Iron / Hot Metal	Stove - 60mtr Cast House - 30mtr	Bag filter system
3	Sinter Plant	Existing 33 Sq.Mtr. Along with New 36 Sq. Mtr.	5,69,700 TPA	Sinter	Head ESP - 50mtr Tail ESP - 40mtr Separate for Existing and New	Electro-Static Precipitator with appropriate capacity
4	Pulverized Coal Injection	120 Kg will be upgraded to 170 Kg	56,700 TPA	PCI Coal	Bag Filter - 41.9mtr	Bag filter system
5	Captive Power Plant	Existing 4.5MW will become stand by with additional New 10MW	10 MW	Power	Boiler - 30mtr	Low Nox Burner
6	Oxygen Plant	250 T	87,500 TPA	Oxygen	Vent pipe- 20mtr	NIL
7	Zero Power Furnace	50 T	4,16,000 TPA	Liquid Steel	30mtr	Bag filter system
8	Ladle Furnace	50 T	50 T	Refined Liquid Steel	30mtr	Bag filter system
9	Caster	4 strand - 6/11	4,07,500 TPA	Billets	30mtr (Common with ZPF)	Bag filter system
10	Rolling Mill + Wire Rod Mill	TMT + Wire	4,00,000 TPA	TMT Rebars + Wire Rods	40mtr	Released through chimney after controlling SO2 as per CPCV Norms
11	Vacuum Degassing Furnace	50 T	50 T	Refined Liquid Steel	30mtr (Vent stack equipped with a flare burner)	Exhaust gases from Hot Well

23/07/2018
Chief Engineer
W. B. Pollution Control Board
Dept. of Environment, Govt. of W.B.

Annexure I to NOC Sl. No. – NO171997

Special Conditions issued to - M/s. Neo Metaliks Limited (Expansion Project) at Gopalpur,Tehsil – Durgapur, Dist – Paschim Brdhaman, West Bengal

1) Stacks should have sampling port, platform and ladder as per the Emission Regulation Part–III of CPCB. Particulate emission from all stacks shall be less than 30mg/Nm^3.
2) The National Ambient Air Quality Emission Standards issued by MoEF vide G.S.R 826(E) dated 16th November, 2009 should be complied with.
3) Dry fog system and water sprinklers to be installed to arrest fugitive emission.
4) 24X7 continuous emission monitoring system at process stacks to be installed and as well as three Continuous Ambient Air Quality Station for monitoring AAQ parameters to be installed.

Effluent :-

1) Process – To be treated in ETP. Treated effluent to be recycled as much as possible. Remaining treated water from ETP to be used in slag quenching section of SMS. Blow down water to be used in slag granulation plant.
2) 24X7 continuous effluent monitoring system to be installed.
3) Cooling water to be recycled after settling.
4) Domestic – to be treated in STP
5) ZLD system to be achieved

Solid Waste : -

1) Slag – to be used for road filling
2) Bag Filter dust – to be reused in different processes.
3) Fly ash to be given to cement manufacturing/brick making units.

General :-

1) Noise Control – Ambient noise level not to exceed the permissible limit.
2) No additional machineries / equipment can be installed without prior permission from the State Board.
3) No change in raw materials, products and production capacity should be made without prior permission from the State Board.
4) Plant layout should be as per EIA Report/DPR submitted during EC process.
5) Proper lighting and proper pathway inside the factory premises should be constructed.
6) Adequate measures to be adopted for control of fugitive emission.
7) The unit should not start operation without obtaining 'Consent to Operate' from the State Board after complete installation of pollution control devices.
8) The unit should obtain permission from the District level authority for ground water abstraction, if any, as per The West Bengal Ground Water Resources (Management, Control and Regulation) Act, 2005; before applying for 'Consent to Operate' to this Board.
9) The unit should obtain Land Conversion Certificate from the competent authority, if applicable, before starting construction activities.
10) No construction is permitted on the land parcels, not under the possession of the industry.
11) At least 36% of the project area should be under green belt.
12) Rain water harvesting must be done however recharging of harvested rain water is not allowed under any circumstances.
13) All conditions as imposed by MoEF, GoI through their Environmental Clearance issued vide EC Identification No. - EC22A008WB167040 File No. J-11011/779/2007-IA-II(I), Dated 02/06/2022 shall be strictly complied with.
14) Good house-keeping to be maintained.
15) This NOC is valid up to **31.07.2029** for setting up the unit.

Chief Engineer (EIM Cell)
West Bengal Pollution Control Board

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

neo metaliks ltd.

Park Plaza, 71 Park Street, 6F, North Block, Kolkata - 700 016
Tel.: + 91 33 4050 4050, Fax: + 91 33 2217 7317, E-mail: info@neometaliks.com
Website: www.neometaliks.com, CIN: U27109WB2003PLC097231

PURCHASE ORDER

NML/BGTG/MBF-03/03062022 **Dated: 06th June, 2022**

To,
M/s Beijing Global Technotrade Group (BGTG).
(herein after referred to as "Supplier")
Room no 763, Poly Plaza, No.14 Dongzhimen South Street,
Dongecheng District,
Beijing 100027, China

Email: john@sinoindia.cn

Kind Attn: Mr. Carson John-Director (+86-13810934838)

Subject: Purchase Order for Design, Engineering, Manufacturing, Supply of DRY Gas Cleaning Plant (GCP) - 1 Set on FOB China basis including the Supervision Services, Successful Commissioning Spares & 2-Years spares for **"268 m3 Blast Furnace required at our Neo Metaliks Limited (herein after referred to as "Purchaser"), Durgapur Plant.**

References:-

1/ Our Enquiry 18th October '21 & your offer dtd 22nd October '2021.
2/ Your revised technical and commercial proposal dtd 28th October 2021 & email dtd 20th Nov' 2021.
3/ Various correspondences & techno-commercial proposals & Our Comments dtd. 1st Dec' 2021.
4/ Revised Offer Dtd. 17th Dec'2021 & DRY GCP parameter tabulation dtd. 20th Dec'2021.
5/ Technical and Commercial offer dtd. 4th Jan'2022 & reference list of DRY GCP dtd.8th Jan'2022.
6/ Various Commercial offer dtd.08.03.22, 28.03.22, 02.04.2022, 16.04.2022 & 26.04.2022
7/ Scope Matrix confirmation vide email dtd. 2nd Aprl'2022, discussions ending with commercial finalization over VC with our CFO on 5th May'2022. Finally, your e mail confirmation dtd. 6thMay' 2022.

Dear Sirs,

With reference to above subject & based on our various discussions ending with final commercial email dated 6th May'2022 as referred above, we are pleased to issue the Purchase Order for Design, Engineering, Manufacturing, Supply of DRY Gas Cleaning Plant (GCP) - 1 Set "on FOB China basis including the Supervision Services,

Commissioning Spares and 2-Years spares for **"268 m3 Blast Furnace required at Neo Metaliks Limited (herein after referred to as "Purchaser"), Durgapur Plant.**

The broad terms & conditions are detailed below:-

A. SCOPE OF WORK:

Scope of work shall include broadly following but not limited to:-

"Design, Engineering, Manufacturing, Supply of DRY GCP – 1 Set on FOB China basis including Commissioning Spares along with 2-Years Spares **required at our Neo Metaliks Limited, (herein after referred to as "Purchaser"), Durgapur Plant.**
Detailed Scope of work, Specifications of the Equipment's & Scope of supply along with other Documents required shall be as per "Annexures" mentioned below.

Any supplies / scope of work in Annexure(s) not specifically mentioned herein but required to complete facility of DRY GCP will be in Supplier's scope in order to achieve the agreed guaranteed parameter of DRY GCP and its successful commissioning.

The quantity indicated in the various corresponding references (mention above) is minimum indicative and any additional quantity or any additional scope / items during detailed engineering which is required for completing the scope as agreed to achieve guaranteed performance shall be in Supplier's account.

Spares: (i) Commissioning Spares (ii) 2 Years Spares
Supplier shall supply required commissioning spares along with equipment supply. Supplier further agreed that in case any of the 2-Years O & M spares are consumed during commissioning (if ordered by Purchaser later), it shall be replaced without any cost to Purchaser.

Supervision Service: All supervision services required during erection, testing, commissioning and performance guarantee test till the period Final Acceptance Certificate will be issued by the Purchaser to the Supplier. Supplier shall also undertake to provide required training to Purchaser's personnel for smooth operation and maintenance of the Equipment.

B. CONTRACT PRICE:

Total price for the above scope of work as detailed (in Clause A above and Annexures) shall be USD 1,100,000 (In Words US Dollar One Million One Hundred Thousand only)" on FOB, China Port basis.

Price Break up:
1. Supply price on FOB, China Port Basis – **USD 1,100,000 (In Words US Dollar One Million One Hundred Thousand only)"**

1.1	Supply Value (FOB, China Port Basis)	: USD 1,100,000
1.2	Packing & Forwarding (Sea Worthy & Multiple Handling)	: Inclusive in above Price
1.3	Commissioning Spares	: Inclusive in above Price
1.4	Supervision Services	: Inclusive in above Price
1.5	2-Years spares	: Inclusive in above Price
	Total Contract Price	**: USD 1,100,000**

Annexure-IX

PRIMA EQUIPMENT
Designer & Manufacturer: Pollution & Environment Monitoring Equipment

Group PRIMA प्रिमा Since 1992 Innovation Excellence Continue...

TEST/ CALIBRATION CERTIFICATE

DOC.REF.NO.:	PE/SR/FM/05	**REV:**	01/WEF: 01-09-2018
CERTIFICATE NO.:	PE/2K23-06/85	**DATED:**	05.06.2023
CUSTOMER NAME:	**M/S. NEO METALIKS LIMITED.**		
ADDRESS:	Village: Gopalpur, Po.: Gopalpur, Via. Durgapur, Brudwan, Purba Burdwan(Bardhaman), West Bengal-713212, India.		
CUSTOMER PO NO.:	3322000238	**DATED:**	23.05.2023
INSTALLATION LOCATION:	STACK-1-SINTER (Head ESP)	**DATE OF INSTALLATION:**	30.01.2018
ACCURACY:	± 2% At Constant Temperature	**OPERATING TEMPRATURE:**	0 – 50°C
INST. SERIAL NO.:	1801011	**MODEL:**	PE-SPMMS-C91

SR. NO.	DESCRIPTION OF TEST/ EVALUATION	CRITERIA	RESULT
1.	**PM/DUST Range: 0 - 1000 mg/Nm³, Resolution: 1 mg/Nm³**	**Tested**	OK
2.	Graphical Display / Indicator	Working	OK
3.	Actuator Switch	Functioning	OK
4.	TP-1 Output (In disconnected state of sensor)	0.0000	OK
5.	PE-1 Output (In disconnected state of sensor)	0.0000	OK
6.	PE-2 Output (In disconnected state of sensor)	0.0000	OK
7.	BS Output (In disconnected state of sensor)	12 mV	OK
8.	TP-2 Output (In disconnected state of sensor)	-25 mV	OK
9.	TP-4 Output (In disconnected state of sensor)	-20 mV	OK
10.	TP-5 Output (In disconnected state of sensor)	-10 mV	OK
11.	TP-7 Output (In disconnected state of sensor)	-125 mV	OK
12.	Mother card's output (When Load cell connected)	8 V	OK
13.	4-20mA output on Zero input	4 mA	OK
14.	4-20 mA Card Output on Full Scale Input (When Load Cell Connected)	20 mA	OK
15.	RS485 Modbus RTU output	Functioning	OK
16.	Full Scale Display of panel (when Load Cell Connected)	Functioning	OK
17.	Overall Test	Functioning	OK

Date of Calibration	**05.06.2023**	**Due Date**	**04.12.2023**
Tested By	Soumyajit Das	**Test Date**	05.06.2023
Authorized By		**Date**	05.06.2023

Corp. Office : 21, 3rd Floor, Lohana Building, Raopura, Vadodara - 390 001, Gujarat, India
Unit 1 : Block No. 128, Dabhasa - Umraya Road, Opp. Zydus Lifesciences Limited., Village: Dabhasa, Tal: Padra, Dist.:Vadodara - 391 440, India.
Unit 2 : Block No. 492, Dabhasa - Umraya Road, Opp. Zydus Lifesciences Limited., Village: Umraya, Tal: Padra, Dist.:Vadodara - 391 440, India.
www.primagroupindia.com info@primaequipment.com +91 98250 07609 | +91 79696 87000 | +91 265 2416838

ISO 9001:2015
ISO 14001:2015
ISO 45001:2018

TEST/ CALIBRATION CERTIFICATE

DOC.REF.NO.	PE/SR/FM/05	**REV:**	01/WEF: 01-09-2018
CERTIFICATE NO.:	PE/2K23-06/86	**DATED:**	05.06.2023
CUSTOMER NAME:	**M/S. NEO METALIKS LIMITED.**		
ADDRESS:	*Village: Gopalpur, Po.: Gopalpur, Via. Durgapur, Brudwan, Purba Burdwan(Bardhaman), West Bengal-713212, India.*		
CUSTOMER PO NO.:	3322000238	**DATED:**	23.05.2023
INSTALLATION LOCATION:	STACK-4-SINTER (For Tail ESP)	**DATE OF INSTALLATION:**	10.09.2018
ACCURACY:	± 2% At Constant Temperature	**OPERATING TEMPRATURE:**	0 – 50°C
INST. SERIAL NO.:	1808038	**MODEL:**	PE-SPMMS-C91

SR. NO.	DESCRIPTION OF TEST/ EVALUATION	CRITERIA	RESULT
1.	**PM/DUST Range: 0 - 1000 mg/Nm³, Resolution: 1 mg/Nm³**	**Tested**	OK
2.	Graphical Display / Indicator	Working	OK
3.	Actuator Switch	Functioning	OK
4.	TP-1 Output (In disconnected state of sensor)	0.0000	OK
5.	PE-1 Output (In disconnected state of sensor)	0.0000	OK
6.	PE-2 Output (In disconnected state of sensor)	0.0000	OK
7.	BS Output (In disconnected state of sensor)	12 mV	OK
8.	TP-2 Output (In disconnected state of sensor)	-25 mV	OK
9.	TP-4 Output (In disconnected state of sensor)	-20 mV	OK
10.	TP-5 Output (In disconnected state of sensor)	-10 mV	OK
11.	TP-7 Output (In disconnected state of sensor)	-125 mV	OK
12.	Mother card's output (When Load cell connected)	8 V	OK
13.	4-20mA output on Zero input	4 mA	OK
14.	4-20 mA Card Output on Full Scale Input (When Load Cell Connected)	20 mA	OK
15.	RS485 Modbus RTU output	Functioning	OK
16.	Full Scale Display of panel (when Load Cell Connected)	Functioning	OK
17.	Overall Test	Functioning	OK

Date of Calibration	**05.06.2023**	**Due Date**	**04.12.2023**
Tested By	Soumyee Das	**Test Date**	05.06.2023
Authorized By	M.H. Mehta	**Date**	05.06.2023

PRIMA EQUIPMENT
Designer & Manufacturer: Pollution & Environment Monitoring Equipment

Group PRIMA प्रिमा Since 1992 Innovation Excellence Continue...

TEST/ CALIBRATION CERTIFICATE

DOC.REF.NO.:	PE/SR/FM/05	**REV:**	01/WEF: 01-09-2018
CERTIFICATE NO.:	PE/2K23-06/87	**DATED:**	05.06.2023
CUSTOMER NAME:	**M/S. NEO METALIKS LIMITED.**		
ADDRESS:	Village: Gopalpur, Po.: Gopalpur, Via. Durgapur, Brudwan, Purba Burdwan(Bardhaman), West Bengal-713212, India.		
CUSTOMER PO NO.:	3322000239	**DATED:**	23.05.2023
INSTALLATION LOCATION:	STACK-3_CPP-Boiler	**DATE OF INSTALLATION:**	04.08.2018
ACCURACY:	± 2% At Constant Temperature	**OPERATING TEMPRATURE:**	0 – 50°C
INST. SERIAL NO.:	1807028	**MODEL:**	PE-SPMMS-C91

SR. NO.	DESCRIPTION OF TEST/ EVALUATION	CRITERIA	RESULT
1.	**PM/DUST Range: 0 - 1000 mg/Nm³, Resolution: 1 mg/Nm³**	**Tested**	OK
2.	Graphical Display / Indicator	Working	OK
3.	Actuator Switch	Functioning	OK
4.	TP-1 Output (In disconnected state of sensor)	0.0000	OK
5.	PE-1 Output (In disconnected state of sensor)	0.0000	OK
6.	PE-2 Output (In disconnected state of sensor)	0.0000	OK
7.	BS Output (In disconnected state of sensor)	12 mV	OK
8.	TP-2 Output (In disconnected state of sensor)	-25 mV	OK
9.	TP-4 Output (In disconnected state of sensor)	-20 mV	OK
10.	TP-5 Output (In disconnected state of sensor)	-10 mV	OK
11.	TP-7 Output (In disconnected state of sensor)	-125 mV	OK
12.	Mother card's output (When Load cell connected)	8 V	OK
13.	4-20mA output on Zero input	4 mA	OK
14.	4-20 mA Card Output on Full Scale Input (When Load Cell Connected)	20 mA	OK
15.	RS485 Modbus RTU output	Functioning	OK
16.	Full Scale Display of panel (when Load Cell Connected)	Functioning	OK
17.	Overall Test	Functioning	OK

Date of Calibration	**05.06.2023**	**Due Date**	**04.12.2023**
Tested By	Soumyajit Das	**Test Date**	05.06.2023
Authorized By		**Date**	05.06.2023

PRIMA EQUIPMENT
Designer & Manufacturer: Pollution & Environment Monitoring Equipment

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TEST/ CALIBRATION CERTIFICATE

DOC.REF.NO.	PE/SR/FM/05	**REV:**	01/WEF: 01-09-2018
CERTIFICATE NO.:	PE/2K23-06/88	**DATED:**	05.06.2023
CUSTOMER NAME:	**M/S. NEO METALIKS LIMITED.**		
ADDRESS:	Village: Gopalpur, Po.: Gopalpur, Via. Durgapur, Brudwan, Purba Burdwan(Bardhaman), West Bengal-713212, India.		
CUSTOMER PO NO.:	3322000239	**DATED:**	23.05.2023
INSTALLATION LOCATION:	STACK-2-Mini Blast Furnace	**DATE OF INSTALLATION:**	30.01.2018
ACCURACY:	± 2% At Constant Temperature	**OPERATING TEMPRATURE :**	0 – 50°C
INST. SERIAL NO.:	1801010	**MODEL:**	PE-SPMMS-C91

SR. NO.	DESCRIPTION OF TEST/ EVALUATION	CRITERIA	RESULT
1.	**PM/DUST Range: 0 - 1000 mg/Nm³, Resolution: 1 mg/Nm³**	**Tested**	OK
2.	Graphical Display / Indicator	Working	OK
3.	Actuator Switch	Functioning	OK
4.	TP-1 Output (In disconnected state of sensor)	0.0000	OK
5.	PE-1 Output (In disconnected state of sensor)	0.0000	OK
6.	PE-2 Output (In disconnected state of sensor)	0.0000	OK
7.	BS Output (In disconnected state of sensor)	12 mV	OK
8.	TP-2 Output (In disconnected state of sensor)	-25 mV	OK
9.	TP-4 Output (In disconnected state of sensor)	-20 mV	OK
10.	TP-5 Output (In disconnected state of sensor)	-10 mV	OK
11.	TP-7 Output (In disconnected state of sensor)	-125 mV	OK
12.	Mother card's output (When Load cell connected)	8 V	OK
13.	4-20mA output on Zero input	4 mA	OK
14.	4-20 mA Card Output on Full Scale Input (When Load Cell Connected)	20 mA	OK
15.	RS485 Modbus RTU output	Functioning	OK
16.	Full Scale Display of panel (when Load Cell Connected)	Functioning	OK
17.	Overall Test	Functioning	OK

Date of Calibration	**05.06.2023**	**Due Date**	**04.12.2023**
Tested By	Soumya Das	**Test Date**	05.06.2023
Authorized By		**Date**	05.06.2023

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ISO 9001:2015
ISO 14001:2015
ISO 45001:2018

Annexure- X

Qualissure Laboratory Services
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TC-6271

DOC NO : QLS//SAMP/08-B/00

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Sample Description Date of Performance(s) Sample Mark Ref No. Date	: QLS/MR/A/23-24/C/186 : 03.06.2023 : QLS/MR/A/23-24/186 : Stack Flue Gas : 26.05.2023-02.06.2023 : CPP : W122505-006,Dated: 05.05.2022

Analysis Result

Date & Time of Sampling : 22.05.2023 at 12:40 Sampling done by : P.Mandal		Sampling Procedures : EPA/IS
A : General Information of Stack:		
1 Stack connected to	: CPP	
2 Emission due to	: Combustion FO & BF Gas	
3 Material of construction of Stack	: MS	
4 Shape of Stack	: Circular	
5 Whether stack is provided with permanent platform	: Yes	
6 Generation Capacity	: 4.5 MW	
B : Physical Characteristic of Stack:		
1 Height of Stack from ground level	: 50.0 m	
2 Diameter of Stack at bottom	: ----	
3 Diameter of Stack at sampling point	: 1.4 m	
4 Height of the sampling point from ground level	: 31.0 m	
5 Area of Stack	: 1.54m^2	
C : Analysis/Characteristic of Stack :		
1. Fuel used :BF Gas&Furnace Oil	2. Fuel consumption : BF Gas- 24000 Nm^3/hr	
D : Results of Sampling & Analysis of gaseous Emission :	**Result**	**Method**
1 Temperature of emission (^0C)	: 144	EPA Part 2
2 Barometric pressure (mm of Hg)	: 759	EPA Part 2
3 Velocity of gas (m/sec)	: 9.62	EPA Part 2
4 Quantity of gas flow (Nm^3/hr)	: 38044	EPA Part 2
5 Concentration of Carbon monoxide (%)	: <0.2	IS:13270-1992, Reaf : 2017
6 Concentration of Carbon dioxide (%)	: 6.2	IS:13270-1992, Reaf : 2017
7 Concentration of Sulphur dioxide (mg/Nm^3)	: 18.1	EPA Part-6
8 Concentration of Oxides of Nitrogen (mg/Nm^3)	: 33.2	EPA Part-7
9 Concentration of Particulate Matters (mg/Nm^3)	: 15	EPA Part 5
E : Pollution :		
Details of pollution control devices attached with the stack	: NIL	
F :Remarks : Nil		

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

(Benimadhab Gorai, Chemist)
(Authorized Signatory)

----- *End of the Report*-----

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TC-6271

DOC NO : QLS//SAMP/08-B/00

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/A/23-24/C/187
Vill + P.O. : Gopalpur	Date	: 03.06.2023
P.S. : Kanksa, Durgapur	Sample No.	: QLS/A/23-24/187
Paschim Bardhaman	Sample Description	: Stack Flue Gas
West Bengal – 713 212	Date of Performance(s)	: 26.05.2023-02.06.2023
	Sample Mark	: Sinter Plant (Head ESP)
	Ref No. Date	: W122505-006, Dated: 05.05.2022

Analysis Result

Date & Time of Sampling : 22.05.2023 at 13:05 Sampling done by : P.Mandal		Sampling Procedures : EPA/IS
A : General Information of Stack:		
1 Stack connected to	: Sinter Plant (Head ESP)	
2 Emission due to	: Combustion BF Gas	
3 Material of construction of Stack	: MS	
4 Shape of Stack	: Circular	
5 Whether stack is provided with permanent platform	: Yes	
6 Generation Capacity	: ----	
B : Physical Characteristic of Stack:		
1 Height of Stack from ground level	: 50.0 m	
2 Diameter of Stack at bottom	: ----	
3 Diameter of Stack at sampling point	: 2.2 m	
4 Height of the sampling point from ground level	: 37.25 m	
5 Area of Stack	: 3.8029 m^2	
C : Analysis/Characteristic of Stack :		
1 Fuel used : BF Gas	2. Fuel consumption : 3500 Nm^3/hr	
D : Results of Sampling & Analysis of gaseous Emission :	**Result**	**Method**
1 Temperature of emission (^0C)	: 159	EPA Part 2
2 Barometric pressure (mm of Hg)	: 759	EPA Part 2
3 Velocity of gas (m/sec)	: 11.78	EPA Part 2
4 Quantity of gas flow (Nm^3/hr)	: 111058	EPA Part 2
5 Concentration of Carbon monoxide (%)	: <0.2	IS:13270-1992, Reaf : 2017
6 Concentration of Carbon dioxide (%)	: 5.4	IS:13270-1992, Reaf : 2017
7 Concentration of Sulphur dioxide (mg/Nm^3)	: 38.1	EPA Part-6
8 Concentration of Oxides of Nitrogen (mg/Nm^3)	: 52.4	EPA Part-7
9 Concentration of Particulate Matters (mg/Nm^3)	: 50	EPA Part 5
E : Pollution :		
Details of pollution control devices attached with the stack	: ESP	
F : Remarks : Nil		

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

(Benimadhab Gorai, Chemist)
(Authorized Signatory)

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TC-6271

DOC NO : QLS/SAMP/08-B/00

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/A/23-24/C/188
Vill + P.O. : Gopalpur	Date	: 03.06.2023
P.S. : Kanksa,Durgapur	Sample No.	: QLS/A/23-24/188
Paschim Bardhaman	Sample Description	: Stack Flue Gas
West Bengal – 713 212	Date of Performance	: 26.05.2023-02.06.2023
	Sample Mark	: Sinter Plant (Tail ESP)
	Ref No. Date	: W122505-006, Dated: 05.05.2022

Analysis Result

Date & Time of Sampling : 22.05.2023 at 13:45 Sampling done by : P.Mandal		Sampling Procedures : EPA/IS	
A : General Information of Stack:			
1 Stack connected to		: Sinter Plant (Tail ESP)	
2 Emission due to		: Process Activity	
3 Material of construction of Stack		: MS	
4 Shape of Stack		: Circular	
5 Whether stack is provided with permanent platform		: Yes	
6 Generation Capacity		: ----	
B : Physical Characteristic of Stack:			
1 Height of Stack from ground level		: 40.0 m	
2 Diameter of Stack at bottom		: ----	
3 Diameter of Stack at sampling point		: 2.0 m	
4 Height of the sampling point from ground level		: 35.0 m	
5 Area of Stack		: 3.1429 m^2	
C : Analysis/Characteristic of Stack :			
1 Fuel used : ----		2. Fuel consumption : ----	
D : Results of Sampling & Analysis of gaseous Emission :		**Result**	**Method**
1 Temperature of emission (^{0}C)		: 95	EPA Part 2
2 Barometric pressure (mm of Hg)		: 759	EPA Part 2
3 Velocity of gas (m/sec)		: 9.43	EPA Part 2
4 Quantity of gas flow (Nm^3/hr)		: 86254	EPA Part 2
5 Concentration of Carbon monoxide (%)		: <0.2	IS:13270-1992, Reaf : 2017
6 Concentration of Carbon dioxide (%)		: <0.2	IS:13270-1992, Reaf : 2017
7 Concentration of Sulphur dioxide (mg/Nm^3)		: 8.8	EPA Part-6
8 Concentration of Oxides of Nitrogen (mg/Nm^3)		: 30.0	EPA Part-7
9 Concentration of Particulate Matters (mg/Nm^3)		: 69	EPA Part 5
E : Pollution :			
Details of pollution control devices attached with the stack		: ESP	
F : Remarks : Nil			

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

(Benimadhab Gorai, Chemist)
(Authorized Signatory)

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TC-6271

DOC NO : QLS/SAMP/08-B/00

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/A/23-24/C/189
Vill + P.O. : Gopalpur	Date	: 03.06.2023
P.S. : Kanksa,Durgapur	Sample No.	: QLS/A/23-24/189
Paschim Bardhaman	Sample Description	: Stack Flue Gas
West Bengal – 713 212	Date of Performance(s)	: 25.05.2023-02.06.2023
	Sample Mark	: Vertical Roller Mill through Bag Filter
	Ref No. Date	: W122505-006,Dated: 05.05.2022

Analysis Result

Date & Time of Sampling : 22.05.2023 at 14:30 Sampling done by : P.Mandal		Sampling Procedures : EPA/IS	
A : General Information of Stack:			
1	Stack connected to	: Vertical Roller Mill through Bag Filter	
2	Emission due to	: De-Moisturing of pulverized Coal using BF Gas	
3	Material of construction of Stack	: MS	
4	Shape of Stack	: Circular	
5	Whether stack is provided with permanent platform	: Yes	
6	Generation Capacity	: ----	
B : Physical Characteristic of Stack:			
1	Height of Stack from ground level	: 42.6 m	
2	Diameter of Stack at bottom	: ----	
3	Diameter of Stack at sampling point	: 0.820 m	
4	Height of the sampling point from ground level	: 25.6 m	
5	Area of Stack	: 0.5283 m^2	
C : Analysis/Characteristic of Stack :			
1	Fuel used : BF Gas	2. Fuel consumption : 750 Nm^3/hr	
D : Results of Sampling & Analysis of gaseous Emission :		**Result**	**Method**
1	Temperature of emission (°C)	: 83	EPA Part 2
2	Barometric pressure (mm of Hg)	: 759	EPA Part 2
3	Velocity of gas (m/sec)	: 14.92	EPA Part 2
4	Quantity of gas flow (Nm^3/hr)	: 23750	EPA Part 2
5	Concentration of Carbon monoxide (%)	: <0.2	IS:13270-1992, Reaf : 2017
6	Concentration of Carbon dioxide (%)	: 4.6	IS:13270-1992, Reaf : 2017
7	Concentration of Sulphur dioxide (mg/Nm^3)	: <3.4	EPA Part-6
8	Concentration of Oxides of Nitrogen (mg/Nm^3)	: 18.9	EPA Part-7
9	Concentration of Particulate Matters (mg/Nm^3)	: 27	EPA Part 5
E : Pollution :			
Details of pollution control devices attached with the stack		: Bag Filter	
F : Remarks : Nil			

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

(Benimadhab Gorai, Chemist)
(Authorized Signatory)

----- *End of the Report*-----

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TC-6271

DOC NO : QLS/SAMP/08-B/00

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/A/23-24/C/190
Vill + P.O. : Gopalpur	Date	: 03.06.2023
P.S. : Kanksa, Durgapur	Sample No.	: QLS/A/23-24/190
Paschim Bardhaman	Sample Description	: Stack Flue Gas
West Bengal – 713 212	Date of Performance(s)	: 26.05.2023-02.06.2023
	Ref No. Date	: W122505-006, Dated: 05.05.2022

Analysis Result

Date & Time of Sampling : 23.05.2023 at 12:05 Sampling done by : C.Sahoo		Sampling Procedures : EPA/IS
A : General Information of Stack:		
1 Stack connected to	: MBF Plant (Blast Furnace)	
2 Emission due to	: Combustion BF Gas & Coke	
3 Material of construction of Stack	: MS	
4 Shape of Stack	: Circular	
5 Whether stack is provided with permanent platform	: Yes	
6 Generation Capacity	: ----	
B : Physical Characteristic of Stack:		
1 Height of Stack from ground level	: 50.0 m	
2 Diameter of Stack at bottom	: ----	
3 Diameter of Stack at sampling point	: 2.29 m	
4 Height of the sampling point from ground level	: 26.82 m	
5 Area of Stack	: 4.1204 m^2	
C : Analysis/Characteristic of Stack :		
1 Fuel used : BF Gas & Coke2. Fuel consumption : 40000 m^3/hr. / Store Coke 600 Kgs./hr.		
D : Results of Sampling & Analysis of gaseous Emission :	**Result**	**Method**
1 Temperature of emission (°C)	: 180	EPA Part 2
2 Barometric pressure (mm of Hg)	: 759	EPA Part 2
3 Velocity of gas (m/sec)	: 10.76	EPA Part 2
4 Quantity of gas flow (Nm^3/hr)	: 104805	EPA Part 2
5 Concentration of Carbon monoxide (%)	: <0.2	IS:13270-1992, Reaf : 2017
6 Concentration of Carbon dioxide (%)	: 7.4	IS:13270-1992, Reaf : 2017
7 Concentration of Sulphur dioxide (mg/Nm^3)	: 40.9	EPA Part-6
8 Concentration of Oxides of Nitrogen (mg/Nm^3)	: 47.1	EPA Part-7
9 Concentration of Particulate Matters (mg/Nm^3)	: 34	EPA Part 5
E : Pollution :		
Details of pollution control devices attached with the stack	: Cyclone Separator, Saturator &Ventury scrubber	
F :Remarks : Nil		

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

(Benimadhab Gorai, Chemist)
(Authorized Signatory)

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TC-6271

DOC NO : QLS/SAMP/08-B/00

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/A/23-24/C/191
Vill + P.O. : Gopalpur	Date	: 02.06.2023
P.S. : Kanksa, Durgapur	Sample No.	: QLS/A/23-24/191
Paschim Bardhaman	Sample Description	: Stack Flue Gas
West Bengal – 713 212	Date of Performance(s)	: 26.05.2023-02.06.2023
	Ref No. Date	: W122505-06, Dated: 05.05.2022

Analysis Result

Date & Time of Sampling : 23.05.2023 at 12:45
Sampling done by : P.Mandal
Sampling Procedures : EPA/IS

A : General Information of Stack:			
1 Stack connected to	: DG Set-1500 kVA		
2 Emission due to	: Combustion of HSD		
3 Material of construction of Stack	: MS		
4 Shape of Stack	: Circular		
5 Whether stack is provided with permanent platform	: Yes		
6 Generation Capacity	: 1500 kVA		
B : Physical Characteristic of Stack:			
1 Height of Stack from ground level	: 30.0 m		
2 Diameter of Stack at bottom	: ----		
3 Diameter of Stack at sampling point	: 0.25 m		
4 Height of the sampling point from ground level	: 7.62 m		
5 Area of Stack	: 0.0491m^2		
C : Analysis/Characteristic of Stack :			
1 Fuel used : HSD	2. Fuel consumption : 276 lit/hr		
D : Results of Sampling & Analysis of gaseous Emission :	**Result**	**Method**	**LIMIT**
1 Temperature of emission (^{0}C)	: 240	EPA Part 2	----
2 Barometric pressure (mm of Hg)	: 759	EPA Part 2	----
3 Velocity of gas (m/sec)	: 18.19	EPA Part 2	----
4 Quantity of gas flow (Nm^3/hr)	: 1867	EPA Part 2	----
5 Concentration of Carbon monoxide(mg/Nm^3)	: 79.7 at 15% O_2	IS:13270-1992, Reaf : 2017	150
6 Concentration of Carbon dioxide(%v/v)	: 5.6	IS:13270-1992, Reaf : 2017	----
7 Concentration of Sulphur dioxide (mg/Nm^3)	: <3.4	EPA Part-6	710
8 Concentration of Oxides of Nitrogen (ppm)	: 10.9 at 15% O_2	EPA Part-7	100
9 Concentration of Particulate Matters (mg/Nm^3)	: 41.2 at 15% O_2	EPA Part 5	75
E : Pollution :			
Details of pollution control devices attached with the stack	: Nil		
F :Remarks : Nil			

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

(Benimadhab Gorai, Chemist)
(Authorized Signatory)

----- *End of the Report*-----

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TC-6271

DOC NO : QLS/SAMP/08-B/00

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/A/23-24/C/192
Vill + P.O. : Gopalpur	Date	: 03.06.2023
P.S. : Kanksa, Durgapur	Sample No.	: QLS/A/23-24/192
Paschim Bardhaman	Sample Description	: Stack Flue Gas
West Bengal – 713 212	Date of Performance(s)	: 25.06.2023-02.06.2023
	Ref No. Date	: W122505-006, Dated: 05.05.2022

Analysis Result

Date & Time of Sampling : 23.05.2023 at 13:15 Sampling done by : P.Mandal		Sampling Procedures : EPA/IS	
A : General Information of Stack:			
1 Stack connected to	: DG Set-1250 kVA		
2 Emission due to	: Combustion of HSD		
3 Material of construction of Stack	: MS		
4 Shape of Stack	: Circular		
5 Whether stack is provided with permanent platform	: Yes		
6 Generation Capacity	: 1250 kVA		
B : Physical Characteristic of Stack:			
1 Height of Stack from ground level	: 30.0 m		
2 Diameter of Stack at bottom	: ----		
3 Diameter of Stack at sampling point	: 0.25 m		
4 Height of the sampling point from ground level	: 7.62 m		
5 Area of Stack	: 0.0491 m^2		
C : Analysis/Characteristic of Stack :			
1 · Fuel used :HSD	2. Fuel consumption : 230 lit/hr		
D : Results of Sampling & Analysis of gaseous Emission :	**Result**	**Method**	**LIMIT**
1 Temperature of emission (°C)	: 230	EPA Part 2	----
2 Barometric pressure (mm of Hg)	: 759	EPA Part 2	----
3 Velocity of gas (m/sec)	: 14.29	EPA Part 2	----
4 Quantity of gas flow (Nm^3/hr)	: 1495	EPA Part 2	----
5 Concentration of Carbon monoxide(mg/Nm^3)	: 83.2 at 15% O_2	IS:13270-1992, Reaf : 2017	150
6 Concentration of Carbon dioxide(%v/v)	: 4.6	IS:13270-1992, Reaf : 2017	----
7 Concentration of Sulphur dioxide (mg/Nm^3)	: <3.4	EPA Part-6	710
8 Concentration of Oxides of Nitrogen (ppm)	: 12.4 at 15% O_2	EPA Part-7	100
9 Concentration of Particulate Matters (mg/Nm^3)	: 41 at 15% O_2	EPA Part 5	75
E : Pollution :			
Details of pollution control devices attached with the stack : NIL			
F :Remarks : Nil			

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

(Benimadhab Gorai, Chemist)
(Authorized Signatory)

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TC-6271

DOC NO : QLS//SAMP/08-B/00

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/A/23-24/C/353
Vill + P.O. : Gopalpur	Date	: 28.07.2023
P.S. : Kanksa, Durgapur	Sample No.	: QLS/A/23-24/353
Paschim Bardhaman	Sample Description	: Stack Flue Gas
West Bengal – 713 212	Date of Performance(s)	: 22.07.2023-28.07.2023
	Sample Mark	: Sinter Plant (Head ESP)
	Ref No. Date	: W122505-006, Dated: 05.05.2022

Analysis Result

Date & Time of Sampling : 21.07.2023 at 16.18 hrs Sampling done by : S.Ghosh		Sampling Procedures : EPA/IS
A : General Information of Stack:		
1 Stack connected to	: Sinter Plant (Head ESP)	
2 Emission due to	: Combustion BF Gas	
3 Material of construction of Stack	: MS	
4 Shape of Stack	: Circular	
5 Whether stack is provided with permanent platform	: Yes	
6 Generation Capacity	: ----	
B : Physical Characteristic of Stack:		
1 Height of Stack from ground level	: 50.0 m	
2 Diameter of Stack at bottom	: ----	
3 Diameter of Stack at sampling point	: 2.2 m	
4 Height of the sampling point from ground level	: 37.25 m	
5 Area of Stack	: 3.8029 m^2	
C : Analysis/Characteristic of Stack :		
1 Fuel used : BF Gas	2. Fuel consumption : 3500 Nm^3/hr	
D : Results of Sampling & Analysis of gaseous Emission :	**Result**	**Method**
1 Temperature of emission (°C)	: 137	EPA Part 2
2 Barometric pressure (mm of Hg)	: 741	EPA Part 2
3 Velocity of gas (m/sec)	: 10.22	EPA Part 2
4 Quantity of gas flow (Nm^3/hr)	: 99094	EPA Part 2
5 Concentration of Carbon monoxide (%)	: <0.2	IS:13270-1992, Reaf : 2017
6 Concentration of Carbon dioxide (%)	: 5.0	IS:13270-1992, Reaf : 2017
7 Concentration of Sulphur dioxide (mg/Nm^3)	: 25.0	EPA Part-6
8 Concentration of Oxides of Nitrogen (mg/Nm^3)	: 30.4	EPA Part-7
9 Concentration of Particulate Matters (mg/Nm^3)	: 22	EPA Part 5
E : Pollution :		
Details of pollution control devices attached with the stack	: ESP	
F : Remarks : Nil		

Report Prepared by :

for **Qualissure Laboratory Services**
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TC-6271

DOC NO : QLS//SAMP/08-B/00

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/MR/A/23-24/C/355
Vill + P.O. : Gopalpur	Date	: 28.07.2023
P.S. : Kanksa,Durgapur	Sample No.	: QLS/MR/A/23-24/355
Paschim Bardhaman	Sample Description	: Stack Flue Gas
West Bengal – 713 212	Date of Performance(s)	: 22.07.2023-28.07.2023
	Sample Mark	: CPP
	Ref No. Date	: 3322000242,Dated:23.05.2023

Analysis Result

Date & Time of Sampling : 19.07.2023 at 14:30 hrs.
Sampling done by : S.Ghosh

Sampling Procedures : EPA/IS

A : General Information of Stack:			
1	Stack connected to	: CPP	
2	Emission due to	: Combustion FO & BF Gas	
3	Material of construction of Stack	: MS	
4	Shape of Stack	: Circular	
5	Whether stack is provided with permanent platform	: Yes	
6	Generation Capacity	: 4.5 MW	
B : Physical Characteristic of Stack:			
1	Height of Stack from ground level	: 50.0 m	
2	Diameter of Stack at bottom	: ---	
3	Diameter of Stack at sampling point	: 1.4 m	
4	Height of the sampling point from ground level	: 31.0 m	
5	Area of Stack	: 1.54m^2	
C : Analysis/Characteristic of Stack :			
1.	Fuel used : BF Gas & Furnace Oil	2. Fuel consumption : BF Gas- 24000 Nm^3/hr	
D : Results of Sampling & Analysis of gaseous Emission :		**Result**	**Method**
1	Temperature of emission (^0C)	: 132	EPA Part 2
2	Barometric pressure (mm of Hg)	: 739	EPA Part 2
3	Velocity of gas (m/sec)	: 7.82	EPA Part 2
4	Quantity of gas flow (Nm^3/hr)	: 31003	EPA Part 2
5	Concentration of Carbon monoxide (%)	: <0.2	IS:13270-1992, Reaf : 2017
6	Concentration of Carbon dioxide (%)	: 5.4	IS:13270-1992, Reaf : 2017
7	Concentration of Sulphur dioxide (mg/Nm^3)	: 22.0	EPA Part-6
8	Concentration of Oxides of Nitrogen (mg/Nm^3)	: 30.4	EPA Part-7
9	Concentration of Particulate Matters (mg/Nm^3)	: 11	EPA Part 5
E : Pollution :			
	Details of pollution control devices attached with the stack	: NIL	
F :Remarks : Nil			

Report Prepared by :

for **Qualissure Laboratory Services**
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(Benimadhab Gorai, Chemist)
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TC-6271

DOC NO : QLS/SAMP/08-B/00

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/MR/A/23-24/C/356
Vill + P.O. : Gopalpur	Date	: 28.07.2023
P.S. : Kanksa,Durgapur	Sample No.	: QLS/MR/A/23-24/356
Paschim Bardhaman	Sample Description	: Stack Flue Gas
West Bengal – 713 212	Date of Performance	: 22.07.2023-28.07.2023
	Sample Mark	: Sinter Plant (Tail ESP)
	Ref No. Date	: W122505-006, Dated: 05.05.2022

Analysis Result

Date & Time of Sampling : 18.07.2023 at 11.30 hrs. Sampling done by : S.Ghosh		Sampling Procedures : EPA/IS
A : General Information of Stack:		
1 Stack connected to	: Sinter Plant (Tail ESP)	
2 Emission due to	: Process Activity	
3 Material of construction of Stack	: MS	
4 Shape of Stack	: Circular	
5 Whether stack is provided with permanent platform	: Yes	
6 Generation Capacity	: ----	
B : Physical Characteristic of Stack:		
1 Height of Stack from ground level	: 40.0 m	
2 Diameter of Stack at bottom	: ----	
3 Diameter of Stack at sampling point	: 2.0 m	
4 Height of the sampling point from ground level	: 35.0 m	
5 Area of Stack	: 3.1429 m^2	
C : Analysis/Characteristic of Stack :		
1 Fuel used : ----	2. Fuel consumption : ----	
D : Results of Sampling & Analysis of gaseous Emission :	**Result**	**Method**
1 Temperature of emission (°C)	: 85	EPA Part 2
2 Barometric pressure (mm of Hg)	: 738	EPA Part 2
3 Velocity of gas (m/sec)	: 11.01	EPA Part 2
4 Quantity of gas flow (Nm^3/hr)	: 100639	EPA Part 2
5 Concentration of Carbon monoxide (%)	: <0.2	IS:13270-1992, Reaf : 2017
6 Concentration of Carbon dioxide (%)	: <0.2	IS:13270-1992, Reaf : 2017
7 Concentration of Sulphur dioxide (mg/Nm^3)	: 17.2	EPA Part-6
8 Concentration of Oxides of Nitrogen (mg/Nm^3)	: 27.7	EPA Part-7
9 Concentration of Particulate Matters (mg/Nm^3)	: 63	EPA Part 5
E : Pollution :		
Details of pollution control devices attached with the stack	: ESP	
F : Remarks : Nil		

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for **Qualissure Laboratory Services**
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DOC NO : QLS/SAMP/08-B/00

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/MR/A/23-24/C/358
Vill + P.O. : Gopalpur	Date	: 28.07.2023
P.S. : Kanksa,Durgapur	Sample No.	: QLS/MR/A/23-24/358
Paschim Bardhaman	Sample Description	: Stack Flue Gas
West Bengal – 713 212	Date of Performance(s)	: 22.07.2023-28.07.2023
	Sample Mark	: Vertical Roller Mill through Bag Filter
	Ref No. Date	: 3322000242,Dated:23.05.2023

Analysis Result

Date & Time of Sampling : 19.07.2023 at 15:30 hrs. Sampling done by : S.Ghosh		Sampling Procedures : EPA/IS
A : General Information of Stack:		
1 Stack connected to	: Vertical Roller Mill through Bag Filter	
2 Emission due to	: De-Moisturing of pulverized Coal using BF Gas	
3 Material of construction of Stack	: MS	
4 Shape of Stack	: Circular	
5 Whether stack is provided with permanent platform	: Yes	
6 Generation Capacity	: ----	
B : Physical Characteristic of Stack:		
1 Height of Stack from ground level	: 42.6 m	
2 Diameter of Stack at bottom	: ----	
3 Diameter of Stack at sampling point	: 0.820 m	
4 Height of the sampling point from ground level	: 25.6 m	
5 Area of Stack	: 0.5283 m^2	
C : Analysis/Characteristic of Stack :		
1 Fuel used : BF Gas	2. Fuel consumption : 750 Nm^3/hr	
D : Results of Sampling & Analysis of gaseous Emission :	**Result**	**Method**
1 Temperature of emission (^0C)	: 89	EPA Part 2
2 Barometric pressure (mm of Hg)	: 739	EPA Part 2
3 Velocity of gas (m/sec)	: 9.28	EPA Part 2
4 Quantity of gas flow (Nm^3/hr)	: 14133	EPA Part 2
5 Concentration of Carbon monoxide (%)	: <0.2	IS:13270-1992, Reaf : 2017
6 Concentration of Carbon dioxide (%)	: 0.8	IS:13270-1992, Reaf : 2017
7 Concentration of Sulphur dioxide (mg/Nm^3)	: <3.4	EPA Part-6
8 Concentration of Oxides of Nitrogen (mg/Nm^3)	: 15.0	EPA Part-7
9 Concentration of Particulate Matters (mg/Nm^3)	: 30	EPA Part 5
E : Pollution :		
Details of pollution control devices attached with the stack	: Bag Filter	
F : Remarks : Nil		

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

(Benimadhab Gorai, Chemist)
(Authorized Signatory)

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TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/MR/A/23-24/C/359
Vill + P.O. : Gopalpur	Date	: 28.07.2023
P.S. : Kanksa, Durgapur	Sample No.	: QLS/MR/A/23-24/359
Paschim Bardhaman	Sample Description	: Stack Flue Gas
West Bengal – 713 212	Date of Performance(s)	: 22.07.2023-28.07.2023
	Ref No. Date	: 3322000242,Dated:23.05.2023

Analysis Result

Date & Time of Sampling : 19.07.2023 at 13:10 hrs. Sampling done by : S.Ghosh		Sampling Procedures : EPA/IS	
A : General Information of Stack:			
1 Stack connected to	: DG Set-1250 kVA		
2 Emission due to	: Combustion of HSD		
3 Material of construction of Stack	: MS		
4 Shape of Stack	: Circular		
5 Whether stack is provided with permanent platform	: Yes		
6 Generation Capacity	: 1250 kVA		
B : Physical Characteristic of Stack:			
1 Height of Stack from ground level	: 30.0 m		
2 Diameter of Stack at bottom	: ----		
3 Diameter of Stack at sampling point	: 0.25 m		
4 Height of the sampling point from ground level	: 7.62 m		
5 Area of Stack	: 0.0491 m^2		
C : Analysis/Characteristic of Stack :			
1 Fuel used :HSD	2. Fuel consumption : 230 lit/hr		
D : Results of Sampling & Analysis of gaseous Emission :	**Result**	**Method**	**LIMIT**
1 Temperature of emission (°C)	: 189	EPA Part 2	----
2 Barometric pressure (mm of Hg)	: 739	EPA Part 2	----
3 Velocity of gas (m/sec)	: 10.29	EPA Part 2	----
4 Quantity of gas flow (Nm^3/hr)	: 1141	EPA Part 2	----
5 Concentration of Carbon monoxide(mg/Nm^3)	: 88.0 at 15% O_2	IS:13270-1992, Reaf : 2017	150
6 Concentration of Carbon dioxide(%v/v)	: 4.4	IS:13270-1992, Reaf : 2017	----
7 Concentration of Sulphur dioxide (mg/Nm^3)	: 5.1	EPA Part-6	710
8 Concentration of Oxides of Nitrogen (ppm)	: 13.0 at 15% O_2	EPA Part-7	100
9 Concentration of Particulate Matters (mg/Nm^3)	: 23 at 15% O_2	EPA Part 5	75
E : Pollution : Details of pollution control devices attached with the stack : NIL			
F :Remarks : Nil			

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

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(Authorized Signatory)

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TC-6271

DOC NO : QLS/SAMP/08-B/00

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/MR/A/23-24/C/360
Vill + P.O. : Gopalpur	Date	: 28.07.2023
P.S. : Kanksa, Durgapur	Sample No.	: QLS/MR/A/23-24/360
Paschim Bardhaman	Sample Description	: Stack Flue Gas
West Bengal – 713 212	Date of Performance(s)	: 22.07.2023-28.07.2023
	Ref No. Date	: 3322000242,Dated:23.05.2023

Analysis Result

Date & Time of Sampling : 19.07.2023 at 12:30 hrs.
Sampling done by : S.Ghosh

Sampling Procedures : EPA/IS

A : General Information of Stack:

1	Stack connected to	: DG Set-1500 kVA
2	Emission due to	: Combustion of HSD
3	Material of construction of Stack	: MS
4	Shape of Stack	: Circular
5	Whether stack is provided with permanent platform	: Yes
6	Generation Capacity	: 1500 kVA

B : Physical Characteristic of Stack:

1	Height of Stack from ground level	: 30.0 m
2	Diameter of Stack at bottom	: ----
3	Diameter of Stack at sampling point	: 0.25 m
4	Height of the sampling point from ground level	: 7.62 m
5	Area of Stack	: 0.0491m^2

C : Analysis/Characteristic of Stack :

1 Fuel used : HSD — 2. Fuel consumption : 180 lit/hr

D : Results of Sampling & Analysis of gaseous Emission :

		Result	Method	LIMIT
1	Temperature of emission (^{0}C)	: 235	EPA Part 2	----
2	Barometric pressure (mm of Hg)	: 739	EPA Part 2	----
3	Velocity of gas (m/sec)	: 10.99	EPA Part 2	----
4	Quantity of gas flow (Nm^3/hr)	: 1108	EPA Part 2	----
5	Concentration of Carbon monoxide(mg/Nm^3)	: 82.8 at 15% O_2	IS:13270-1992, Reaf : 2017	150
6	Concentration of Carbon dioxide(%v/v)	: 5.2	IS:13270-1992, Reaf : 2017	----
7	Concentration of Sulphur dioxide (mg/Nm^3)	: 7.4	EPA Part-6	710
8	Concentration of Oxides of Nitrogen (ppm)	: 11.2 at 15% O_2	EPA Part-7	100
9	Concentration of Particulate Matters (mg/Nm^3)	: 35 at 15% O_2	EPA Part 5	75

E : Pollution :

Details of pollution control devices attached with the stack : Nil

F :Remarks : Nil

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

(Benimadhab Gorai, Chemist)
(Authorized Signatory)

----- *End of the Report*-----

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TC-6271

DOC NO : QLS/SAMP/08-B/00

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/MR/A/23-24/C/361
Vill + P.O. : Gopalpur	Date	: 28.07.2023
P.S. : Kanksa, Durgapur	Sample No.	: QLS/MR/A/23-24/361
Paschim Bardhaman	Sample Description	: Stack Flue Gas
West Bengal – 713 212	Date of Performance(s)	: 22.07.2023-28.07.2023
	Ref No. Date	: 3322000242,Dated:23.05.2023

Analysis Result

Date & Time of Sampling : 19.07.2023 at 11:30 hrs
Sampling done by : S.Ghosh

Sampling Procedures : EPA/IS

A : General Information of Stack:			
1	Stack connected to	: MBF Plant (Blast Furnace)	
2	Emission due to	: Combustion BF Gas & Coke	
3	Material of construction of Stack	: MS	
4	Shape of Stack	: Circular	
5	Whether stack is provided with permanent platform	: Yes	
6	Generation Capacity	: ----	
B : Physical Characteristic of Stack:			
1	Height of Stack from ground level	: 50.0 m	
2	Diameter of Stack at bottom	: ----	
3	Diameter of Stack at sampling point	: 2.29 m	
4	Height of the sampling point from ground level	: 26.82 m	
5	Area of Stack	: 4.1204 m^2	
C : Analysis/Characteristic of Stack :			
1	Fuel used : BF Gas & Coke	2.Fuel consumption : 40000 m^3/hr. / Store Coke 600 Kgs./hr.	
D : Results of Sampling & Analysis of gaseous Emission :		**Result**	**Method**
1	Temperature of emission (^{0}C)	: 151	EPA Part 2
2	Barometric pressure (mm of Hg)	: 739	EPA Part 2
3	Velocity of gas (m/sec)	: 9.79	EPA Part 2
4	Quantity of gas flow (Nm^3/hr)	: 99186	EPA Part 2
5	Concentration of Carbon monoxide (%)	: <0.2	IS:13270-1992, Reaf : 2017
6	Concentration of Carbon dioxide (%)	: 3.6	IS:13270-1992, Reaf : 2017
7	Concentration of Sulphur dioxide (mg/Nm^3)	: 20.8	EPA Part-6
8	Concentration of Oxides of Nitrogen (mg/Nm^3)	: 33.0	EPA Part-7
9	Concentration of Particulate Matters (mg/Nm^3)	: 13	EPA Part 5
E : Pollution :			
	Details of pollution control devices attached with the stack	: Cyclone Separator, Saturator &Ventury scrubber	
F :Remarks : Nil			

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

(Benimadhab Gorai, Chemist)
(Authorized Signatory)

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TC-6271

DOC NO : QLS/SAMP/08-B/00

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/MR/A/23-24/C/545
Vill + P.O. : Gopalpur	Date	: 25.09.2023
P.S. : Kanksa,Durgapur	Sample No.	: QLS/MR/A/23-24/545
Paschim Bardhaman	Sample Description	: Stack Flue Gas
West Bengal – 713 212	Date of Performance(s)	: 18-25.09.2023
	Sample Mark	: Vertical Roller Mill through Bag Filter
	Ref No. Date	: 3322000242,Dated:23.05.2023

Analysis Result

Date & Time of Sampling : 15.09.2023 at 11:20 hrs. Sampling done by : C.Sahoo		Sampling Procedures : EPA/IS
A : General Information of Stack:		
1 Stack connected to	: Vertical Roller Mill through Bag Filter	
2 Emission due to	: De-Moisturing of pulverized Coal using BF Gas	
3 Material of construction of Stack	: MS	
4 Shape of Stack	: Circular	
5 Whether stack is provided with permanent platform	: Yes	
6 Generation Capacity	: ----	
B : Physical Characteristic of Stack:		
1 Height of Stack from ground level	: 42.6 m	
2 Diameter of Stack at bottom	: ----	
3 Diameter of Stack at sampling point	: 0.820 m	
4 Height of the sampling point from ground level	: 25.6 m	
5 Area of Stack	: 0.5283 m^2	
C : Analysis/Characteristic of Stack :		
1 Fuel used : BF Gas	2. Fuel consumption : 750 Nm^3/hr	
D : Results of Sampling & Analysis of gaseous Emission :	**Result**	**Method**
1 Temperature of emission (°C)	: 86	EPA Part 2
2 Barometric pressure (mm of Hg)	: 747	EPA Part 2
3 Velocity of gas (m/sec)	: 7.77	EPA Part 2
4 Quantity of gas flow (Nm^3/hr)	: 12059	EPA Part 2
5 Concentration of Carbon monoxide (%)	: <0.2	IS:13270-1992, Reaf : 2017
6 Concentration of Carbon dioxide (%)	: 0.4	IS:13270-1992, Reaf : 2017
7 Concentration of Sulphur dioxide (mg/Nm^3)	: <3.4	EPA Part-6
8 Concentration of Oxides of Nitrogen (mg/Nm^3)	: 14.8	EPA Part-7
9 Concentration of Particulate Matters (mg/Nm^3)	: 47	EPA Part 5
E : Pollution :		
Details of pollution control devices attached with the stack	: Bag Filter	
F : Remarks : Nil		

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

Benimadhab Gorai, Chemist
(Authorized Signatory)

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TC-6271

DOC NO : QLS/SAMP/08-B/00

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/MR/A/23-24/C/544
Vill + P.O. : Gopalpur	Date	: 25.09.2023
P.S. : Kanksa, Durgapur	Sample No.	: QLS/MR/A/23-24/544
Paschim Bardhaman	Sample Description	: Stack Flue Gas
West Bengal – 713 212	Date of Performance(s)	: 18-25.09.2023
	Ref No. Date	: 3322000242,Dated:23.05.2023

Analysis Result

Date & Time of Sampling : 15.09.2023 at 10:40 hrs Sampling done by : C.Sahoo	Sampling Procedures : EPA/IS	
A : General Information of Stack:		
1 Stack connected to	: MBF Plant (Blast Furnace)	
2 Emission due to	: Combustion BF Gas & Coke	
3 Material of construction of Stack	: MS	
4 Shape of Stack	: Circular	
5 Whether stack is provided with permanent platform	: Yes	
6 Generation Capacity	: ----	
B : Physical Characteristic of Stack:		
1 Height of Stack from ground level	: 50.0 m	
2 Diameter of Stack at bottom	: ----	
3 Diameter of Stack at sampling point	: 2.29 m	
4 Height of the sampling point from ground level	: 26.82 m	
5 Area of Stack	: 4.1204 m^2	
C : Analysis/Characteristic of Stack :		
1 Fuel used : BF Gas & Coke	2.Fuel consumption : 40000 m^3/hr. / Store Coke 600 Kgs./hr.	
D : Results of Sampling & Analysis of gaseous Emission :	**Result**	**Method**
1 Temperature of emission (°C)	: 167	EPA Part 2
2 Barometric pressure (mm of Hg)	: 747	EPA Part 2
3 Velocity of gas (m/sec)	: 6.89	EPA Part 2
4 Quantity of gas flow (Nm^3/hr)	: 68019	EPA Part 2
5 Concentration of Carbon monoxide (%)	: <0.2	IS:13270-1992, Reaf : 2017
6 Concentration of Carbon dioxide (%)	: 8.4	IS:13270-1992, Reaf : 2017
7 Concentration of Sulphur dioxide (mg/Nm^3)	: 31.7	EPA Part-6
8 Concentration of Oxides of Nitrogen (mg/Nm^3)	: 28.2	EPA Part-7
9 Concentration of Particulate Matters (mg/Nm^3)	: 19	EPA Part 5
E : Pollution :		
Details of pollution control devices attached with the stack	: Cyclone Separator, Saturator &Ventury scrubber	
F :Remarks : Nil		

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

Benimadhab Gorai, Chemist
(Authorized Signatory)

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TC-6271

DOC NO : QLS//SAMP/08-B/00

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Sample Description Date of Performance(s) Sample Mark Ref No. Date	: QLS/MR/A/23-24/C/543 : 25.09.2023 : QLS/MR/A/23-24/543 : Stack Flue Gas : 17-25.09.2023 : CPP : 3322000242,Dated:23.05.2023

Analysis Result

Date & Time of Sampling: 15.09.2023 at 9.00 hrs. Sampling done by : S.Ghosh		Sampling Procedures : EPA/IS
A : General Information of Stack:		
1 Stack connected to	: CPP	
2 Emission due to	: Combustion FO & BF Gas	
3 Material of construction of Stack	: MS	
4 Shape of Stack	: Circular	
5 Whether stack is provided with permanent platform	: Yes	
6 Generation Capacity	: 4.5 MW	
B : Physical Characteristic of Stack:		
1 Height of Stack from ground level	: 50.0 m	
2 Diameter of Stack at bottom	: ---	
3 Diameter of Stack at sampling point	: 1.4 m	
4 Height of the sampling point from ground level	: 31.0 m	
5 Area of Stack	: 1.54m²	
C : Analysis/Characteristic of Stack :		
1. Fuel used : BF Gas & Furnace Oil	2. Fuel consumption : BF Gas- 24000 Nm³/hr	
D : Results of Sampling & Analysis of gaseous Emission :	**Result**	**Method**
1 Temperature of emission (°C)	: 133	EPA Part 2
2 Barometric pressure (mm of Hg)	: 747	EPA Part 2
3 Velocity of gas (m/sec)	: 9.22	EPA Part 2
4 Quantity of gas flow (Nm³/hr)	: 36863	EPA Part 2
5 Concentration of Carbon monoxide (%)	: <0.2	IS:13270-1992, Reaf : 2017
6 Concentration of Carbon dioxide (%)	: 7.8	IS:13270-1992, Reaf : 2017
7 Concentration of Sulphur dioxide (mg/Nm³)	: 62.4	EPA Part-6
8 Concentration of Oxides of Nitrogen (mg/Nm³)	: 30.3	EPA Part-7
9 Concentration of Particulate Matters (mg/Nm³)	: 22	EPA Part 5
E : Pollution :		
Details of pollution control devices attached with the stack	: NIL	
F :Remarks : Nil		

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Reviewed & Authorized By

Benimadhab Gorai, Chemist
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TEST REPORT

Name & Address Of the Customer:		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/MR/A/23-24/C/528
Vill + P.O. : Gopalpur	Date	: 25.09.2023
P.S. : Kanksa, Durgapur	Sample No.	: QLS/MR/A/23-24/528
Paschim Bardhaman	Sample Description	: Stack Flue Gas
West Bengal – 713 212	Date of Performance	: 11.09.2023-25.09.2023
	Sample Mark	: DG Set-1500 kVA
	Ref No. Date	: 3322000242,Dated:23.05.2023

Analysis Result

Date & Time of Sampling : 09.09.2023 at 11:20 hrs. Sampling done by : C.Sahoo		Sampling Procedures : EPA/IS	
A : General Information of Stack:			
1 Stack connected to	: DG Set-1500 kVA		
2 Emission due to	: Burning of H.S.D		
3 Material of construction of Stack	: MS		
4 Shape of Stack	: Circular		
5 Whether stack is provided with permanent platform	: Yes		
6 Generation Capacity	: 1500 kVA		
B : Physical Characteristic of Stack:			
1 Height of Stack from ground level	: 30.0 m		
2 Diameter of Stack at bottom	: —		
3 Diameter of Stack at sampling point	: 0.25 m		
4 Height of the sampling point from ground level	: 7.62 m		
5 Area of Stack	: 0.0491 m^2		
C : Analysis/Characteristic of Stack:			
1 Fuel used : H.S.D	2. Fuel consumption : 230 Lit/hr		
D : Results of Sampling & Analysis of gaseous Emission:	**RESULT**	**METHOD**	**LIMIT**
1 Temperature of emission (°C)	: 217	EPA Part 2	—
2 Barometric pressure (mm of Hg)	: 753	EPA Part 2	—
3 Velocity of gas (m/sec)	: 14.25	EPA Part 2	—
4 Quantity of gas flow (Nm^3/hr)	: 1519	EPA Part 2	—
5 Concentration of Oxygen(%v/v)	: 14.25	IS:13270-1992, Reaf : 2017	—
6 Concentration of Carbon monoxide(mg/Nm^3)	: 82.99 at 15% O_2	IS:13270-1992, Reaf : 2017	150
7 Concentration of Carbon dioxide(%v/v)	: 6.2	IS:13270-1992, Reaf : 2017	—
8 Concentration of Sulphur dioxide (mg/Nm^3)	: <3.4	EPA Part-6	—
9 Concentration of Oxides of Nitrogen (ppm)	: 16.03 at 15% O_2	EPA Part-7	710
10 Concentration of Particulate Matters (mg/Nm^3)	: 52 at 15% O_2	EPA Part 5	75
E : Pollution Control Device : Details of pollution control devices attached with the stack	: NIL		
F : Remarks:			

Report Prepared by:

for **Qualissure Laboratory Services**
Reviewed & Authorized By

Benimadhab Gorai, Chemist
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TEST REPORT

Name & Address Of the Customer:		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/MR/A/23-24/C/527
Vill + P.O. : Gopalpur	Date	: 25.09.2023
P.S. : Kanksa, Durgapur	Sample No.	: QLS/MR/A/23-24/527
Paschim Bardhaman	Sample Description	: Stack Flue Gas
West Bengal – 713 212	Date of Performance	: 11.09.2023-25.09.2023
	Sample Mark	: DG Set-1250 kVA
	Ref No. Date	: 3322000242,Dated:23.05.2023

Analysis Result

Date & Time of Sampling : 09.09.2023 at 12:15 hrs. Sampling done by : C.Sahoo	Sampling Procedures : EPA/IS		
A : General Information of Stack:			
1 Stack connected to	: DG Set-1250 kVA		
2 Emission due to	: Burning of H.S.D		
3 Material of construction of Stack	: MS		
4 Shape of Stack	: Circular		
5 Whether stack is provided with permanent platform	: Yes		
6 Generation Capacity	: 1500 kVA		
B : Physical Characteristic of Stack:			
1 Height of Stack from ground level	: 30.0 m		
2 Diameter of Stack at bottom	: ----		
3 Diameter of Stack at sampling point	: 0.25 m		
4 Height of the sampling point from ground level	: 7.62 m		
5 Area of Stack	: 0.0491 m^2		
C : Analysis/Characteristic of Stack:			
1 Fuel used : H.S.D	2. Fuel consumption : 180 Lit/hr		
D : Results of Sampling & Analysis of gaseous Emission:	**RESULT**	**METHOD**	**LIMIT**
1 Temperature of emission (°C)	: 193	EPA Part 2	---
2 Barometric pressure (mm of Hg)	: 753	EPA Part 2	---
3 Velocity of gas (m/sec)	: 12.98	EPA Part 2	---
4 Quantity of gas flow (Nm^3/hr)	: 1455	EPA Part 2	---
5 Concentration of Oxygen(%v/v)	: 14.2	IS:13270-1992, Reaf : 2017	---
6 Concentration of Carbon monoxide(mg/Nm^3)	: 80.31 at 15% O_2	IS:13270-1992, Reaf : 2017	150
7 Concentration of Carbon dioxide(%v/v)	: 5.8	IS:13270-1992, Reaf : 2017	---
8 Concentration of Sulphur dioxide (mg/Nm^3)	: <3.4	EPA Part-6	---
9 Concentration of Oxides of Nitrogen (ppm)	: 13.72 at 15% O_2	EPA Part-7	710
10 Concentration of Particulate Matters (mg/Nm^3)	: 43 at 15% O_2	EPA Part 5	75
E : Pollution Control Device :			
Details of pollution control devices attached with the stack	: NIL		
F : Remarks:			

Report Prepared by :

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Reviewed & Authorized By

Benimadhab Gorai, Chemist
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TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/MR/A/23-24/C/549
Vill + P.O. : Gopalpur	Date	: 25.09.2023
P.S. : Kanksa, Durgapur	Sample No.	: QLS/MR/A/23-24/549
Paschim Bardhaman	Sample Description	: Stack Flue Gas
West Bengal – 713 212	Date of Performance(s)	: 17-25.09.2023
	Sample Mark	: Sinter Plant
	Ref No. Date	: 3322000242, Dated:23.05.2023

Analysis Result

Date & Time of Sampling : 15.09.2023 at 15.45 hrs
Sampling done by : C.Sahoo
Sampling Procedures : EPA/IS

A : General Information of Stack:			
1	Stack connected to		: Sinter Plant Tail ESP
2	Emission due to		: Process Activity
3	Material of construction of Stack		: MS
4	Shape of Stack		: Circular
5	Whether stack is provided with permanent platform		: Yes
6	Generation Capacity		: ----
B : Physical Characteristic of Stack:			
1	Height of Stack from ground level		: 40.0 m
2	Diameter of Stack at bottom		: ----
3	Diameter of Stack at sampling point		: 2.0 m
4	Height of the sampling point from ground level		: 35.0 m
5	Area of Stack		: 3.1429 m^2
C : Analysis/Characteristic of Stack :			
1	Fuel used : ----		2. Fuel consumption : ----
D : Results of Sampling & Analysis of gaseous Emission :		**Method**	**Result**
1	Temperature of emission (°C)	EPA Part 2	: 76
2	Barometric pressure (mm of Hg)	EPA Part 2	: 747
3	Velocity of gas (m/sec)	EPA Part 2	: 11.38
4	Quantity of gas flow (Nm^3/hr)	EPA Part 2	: 107968
5	Concentration of Carbon monoxide (%)	IS:13270-1992, Reaf : 2017	: <0.2
6	Concentration of Carbon dioxide (%)	IS:13270-1992, Reaf : 2017	: 0.6
7	Concentration of Sulphur dioxide (mg/Nm^3)	EPA Part-6	: 50.4
8	Concentration of Oxides of Nitrogen (mg/Nm^3)	EPA Part-7	: 34.0
9	Concentration of Particulate Matters (mg/Nm^3)	EPA Part 5	: 12
E : Pollution :			
	Details of pollution control devices attached with the stack		: ESP
F : Remarks :			

Report Prepared By :

for Qualissure Laboratory Services
Reviewed & Authorized By

Benimadhab Gorai, Chemist
(Authorized Signatory)

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TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa, Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Sample Description Date of Performance(s) Sample Mark Ref No. Date	: QLS/MR/A/23-24/C/547 : 25.09.2023 : QLS/MR/A/23-24/547 : Stack Flue Gas : 17-25.09.2023 : Sinter Plant : 3322000242, Dated:23.05.2023

Analysis Result

Date & Time of Sampling : 15.09.2023 at 13.15 hrs
Sampling done by : C.Sahoo
Sampling Procedures : EPA/IS

A : General Information of Stack:		
1	Stack connected to	: Sinter Plant Head ESP
2	Emission due to	: Combustion BF Gas
3	Material of construction of Stack	: MS
4	Shape of Stack	: Circular
5	Whether stack is provided with permanent platform	: Yes
6	Generation Capacity	: ----
B : Physical Characteristic of Stack:		
1	Height of Stack from ground level	: 50.0 m
2	Diameter of Stack at bottom	: ----
3	Diameter of Stack at sampling point	: 2.2 m
4	Height of the sampling point from ground level	: 37.25 m
5	Area of Stack	: 3.8029 m^2
C : Analysis/Characteristic of Stack :		
1	Fuel used : BF Gas	2. Fuel consumption : 3500 Nm^3/hr

	D : Results of Sampling & Analysis of gaseous Emission :	**Method**	**Result**
1	Temperature of emission (°C)	EPA Part 2	: 105
2	Barometric pressure (mm of Hg)	EPA Part 2	: 747
3	Velocity of gas (m/sec)	EPA Part 2	: 11.80
4	Quantity of gas flow (Nm^3/hr)	EPA Part 2	: 125086
5	Concentration of Carbon monoxide (%)	IS:13270-1992, Reaf : 2017	: <0.2
6	Concentration of Carbon dioxide (%)	IS:13270-1992, Reaf : 2017	: 6.2
7	Concentration of Sulphur dioxide (mg/Nm^3)	EPA Part-6	: 93.1
8	Concentration of Oxides of Nitrogen (mg/Nm^3)	EPA Part-7	: 49.7
9	Concentration of Particulate Matters (mg/Nm^3)	EPA Part 5	: 38

E : Pollution : Details of pollution control devices attached with the stack	: ESP
F : Remarks :	

Report Prepared By :

for Qualissure Laboratory Services
Reviewed & Authorized By

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------End of Report--------

Annexure- XI

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DOC NO : QLS/SAMP/08-A/00

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa, Durgapur Paschim Bardhaman We'st Bengal – 713 212	Report No.	: QLS/A/23-24/C/184
	Date	: 03.06.2023
	Sample No.	: QLS/A/23-24/184
	Sample Description	: Work Zone Monitoring
	Date of Performance(s)	: 26.05.2023-02.06.2023
	Ref No. Date	: W122505-006,Dated:05.05.2022

Analysis Result

Location : Near Metal Bay	Date of sampling : 23.05.2023
Sampling Done by: P.Mandal/P.Mahato	Sampling done as per : CPCB Guidelines (Volume-1)
Environmental Condition : Heavy Rainfall	

Sl. No.	Pollutants	Result	Method of Test Reference
1	Total Suspended Particulate Matter in µg/m³	162	IS 5182 : Part.4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in µg/m³	99	IS 5182: Part 23 : 2012
3	Sulphur dioxide (SO_2) in µg/m³	7.6	IS: 5182 (Part-2)-2001,(RA-2012)
4	Nitrogen dioxide (NO_2) in µg/m³	30.1	IS: 5182 (Part- 6)-2012
5	Carbon Monoxide (CO) in µg/m³	778	IS: 5182 (Part- 10)- (RA-2017)
6	Lead (Pb) in µg/m³	0.05	EPA IO-3.2 & 5.0

NOTE: Fugitive emission Standard - 4000 µg/m³ as per Environment (Protection) rules, 1986.

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

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(Authorized Signatory)

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TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa, Durgapur Paschim Bardhaman West Bengal – 713 212	Report No.	: QLS/A/23-24/C/185
	Date	: 03.06.2023
	Sample No.	: QLS/A/23-24/185
	Sample Description	: Work Zone Monitoring
	Date of Performance(s)	: 26.05.2023-02.06.2023
	Ref No. Date	: W122505-006,Dated:05.05.2022

Analysis Result

Location : Near Emergency Pith	Date of sampling : 24.05.2023
Sampling Done by: P.Mandal/P.Mahato	Sampling done as per : CPCB Guidelines (Volume-1)
Environmental Condition : Heavy Rainfall	

Sl. No.	Pollutants	Result	Method of Test Reference
1.	Total Suspended Particulate Matter in $\mu g/m^3$	107	IS 5182 : Part.4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in $\mu g/m^3$	63	IS 5182: Part 23 : 2012
3	Sulphur dioxide (SO_2) in $\mu g/m^3$	6.4	IS: 5182 (Part-2)-2001,(RA-2012)
4	Nitrogen dioxide (NO_2) in $\mu g/m^3$	29.4	IS: 5182 (Part- 6)-2012
5	Carbon Monoxide (CO) in $\mu g/m^3$	847	IS: 5182 (Part- 10)- (RA-2017)
6	Lead (Pb) in $\mu g/m^3$	0.04	EPA IO-3.2 & 5.0

NOTE: Fugitive emission Standard - 4000 $\mu g/m^3$ as per Environment (Protection) rules, 1986.

Report Prepared by :

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Reviewed & Authorized By

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TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa, Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Sample Description Date of Performance(s) Ref No. Date	: QLS/A/23-24/C/183 : 03.06.2023 : QLS/A/23-24/183 : Work Zone Monitoring : 26.05.2023-02.06.2023 : W122505-006,Dated:05.05.2022

Analysis Result

Location : Near Head ESP	Date of sampling : 23.05.2023
Sampling Done by: P.Mandal/P.Mahato	Sampling done as per : CPCB Guidelines (Volume-1)
Environmental Condition : Heavy Rainfall	

Sl. No.	Pollutants	Result	Method of Test Reference
1	Total Suspended Particulate Matter in µg/m³	363	IS 5182 : Part.4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in µg/m³	245	IS 5182: Part 23 : 2012
3	Sulphur dioxide (SO_2) in µg/m³	7.0	IS: 5182 (Part-2)-2001,(RA-2012)
4	Nitrogen dioxide (NO_2) in µg/m³	28.1	IS: 5182 (Part- 6)-2012
5	Carbon Monoxide (CO) in µg/m³	1052	IS: 5182 (Part- 10)- (RA-2017)
.6	Lead (Pb) in µg/m³	0.19	EPA IO-3.2 & 5.0

NOTE: Fugitive emission Standard - 4000 µg/m³ as per Environment (Protection) rules, 1986.

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

(Benimadhab Gorai, Chemist)
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DOC NO : QLS/SAMP/08-A/00

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa, Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Sample Description Date of Performance(s) Ref No. Date	: QLS/A/23-24/C/181 : 03.06.2023 : QLS/A/23-24/181 : Work Zone Monitoring : 26.05.2023-02.06.2023 : W122505-006,Dated:05.05.2022

Analysis Result

Location : Near Ground Hopper		Date of sampling : 22.05.2023	
Sampling Done by: P.Mandal/P.Mahato		Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Cloudy & Drizzling			
Sl. No.	**Pollutants**	**Result**	**Method of Test Reference**
1	Total Suspended Particulate Matter in $\mu g/m^3$	255	IS 5182 : Part.4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in $\mu g/m^3$	108	IS 5182: Part 23 : 2012
3	Sulphur dioxide (SO_2) in $\mu g/m^3$	7.3	IS: 5182 (Part-2)-2001,(RA-2012)
4	Nitrogen dioxide (NO_2) in $\mu g/m^3$	28.9	IS: 5182 (Part- 6)-2012
5	Carbon Monoxide (CO) in $\mu g/m^3$	595	IS: 5182 (Part- 10)- (RA-2017)
6	Lead (Pb) in $\mu g/m^3$	0.09	EPA IO-3.2 & 5.0
NOTE: Fugitive emission Standard - 4000 $\mu g/m^3$ as per Environment (Protection) rules, 1986.			

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

(Benimadhab Gorai, Chemist)
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TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa, Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Sample Description Date of Performance(s) Ref No. Date	: QLS/A/23-24/C/182 : 03.06.2023 : QLS/A/23-24/182 : Work Zone Monitoring : 26.05.2023-02.06.2023 : W122505-006,Dated:05.05.2022

Analysis Result

Location : Near Tail ESP	Date of sampling : 22.05.2023
Sampling Done by: P.Mandal/P.Mahato	Sampling done as per : CPCB Guidelines (Volume-1)
Environmental Condition : Cloudy & Drizzling	

Sl. No.	Pollutants	Result	Method of Test Reference
1	Total Suspended Particulate Matter in µg/m³	201	IS 5182 : Part.4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in µg/m³	127	IS 5182: Part 23 : 2012
3	Sulphur dioxide (SO_2) in µg/m³	7.0	IS: 5182 (Part-2)-2001,(RA-2012)
4	Nitrogen dioxide (NO_2) in µg/m³	27.6	IS: 5182 (Part- 6)-2012
5	Carbon Monoxide (CO) in µg/m³	721	IS: 5182 (Part- 10)- (RA-2017)
6	Lead (Pb) in µg/m³	0.08	EPA IO-3.2 & 5.0

NOTE: Fugitive emission Standard - 4000 µg/m³ as per Environment (Protection) rules, 1986.

Report Prepared by :

R. Ghosh

for **Qualissure Laboratory Services**
Reviewed & Authorized By

(Benimadhab Gorai, Chemist)
(Authorized Signatory)

----- *End of the Report*-----

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Email : qualissure@gmail.com; info@qualissure.com ; Mob.No. 98312 87086 ; 9830093976

TC-6271

DOC NO : QLS/SAMP/08-A/00

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/MR/A/23-24/C/367
Vill + P.O. : Gopalpur	Date	: 28.07.2023
P.S. : Kanksa, Durgapur	Sample No.	: QLS/MR/A/23-24/367
Paschim Bardhaman	Sample Description	: Work Zone Monitoring
West Bengal – 713 212	Date of Performance(s)	: 22.07.2023-28.07.2023
	Ref No. Date	: 3322000242,Dated:23.05.2023

Analysis Result

Location : Near Metal Bay		Date of sampling : 18.07.2023	
Sampling Done by: S.Ghosh/P.Mahato		Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Heavy Rainfall			
Sl. No.	**Pollutants**	**Result**	**Method of Test Reference**
1	Total Suspended Particulate Matter in µg/m³	89	IS 5182 : Part.4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in µg/m³	34	IS 5182: Part 23 : 2012
3	Sulphur dioxide (SO_2) in µg/m³	6.0	IS: 5182 (Part-2)-2001,(RA-2012)
4	Nitrogen dioxide (NO_2) in µg/m³	26.1	IS: 5182 (Part- 6)-2012
5	Carbon Monoxide (CO) in µg/m³	755	IS: 5182 (Part- 10)- (RA-2017)
6	Lead (Pb) in µg/m³	<0.02	EPA IO-3.2 & 5.0

NOTE: Fugitive emission Standard - 4000 µg/m³ as per Environment (Protection) rules, 1986.

Report Prepared by :

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TC-6271

DOC NO : QLS/SAMP/08-A/00

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa, Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Sample Description Date of Performance(s) Ref No. Date	: QLS/MR/A/23-24/C/368 : 28.07.2023 : QLS/MR/A/23-24/368 : Work Zone Monitoring : 22.07.2023-28.07.2023 : 3322000242,Dated:23.05.2023

Analysis Result

Location : Near Tail ESP	Date of sampling : 18.07.2023
Sampling Done by: S.Ghosh/P.Mahato	Sampling done as per : CPCB Guidelines (Volume-1)
Environmental Condition : Heavy Rainfall	

Sl. No.	Pollutants	Result	Method of Test Reference
1	Total Suspended Particulate Matter in µg/m³	148	IS 5182 : Part.4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in µg/m³	56	IS 5182: Part 23 : 2012
3	Sulphur dioxide (SO_2) in µg/m³	5.4	IS: 5182 (Part-2)-2001,(RA-2012)
4	Nitrogen dioxide (NO_2) in µg/m³	24.0	IS: 5182 (Part- 6)-2012
5	Carbon Monoxide (CO) in µg/m³	583	IS: 5182 (Part- 10)- (RA-2017)
6	Lead (Pb) in µg/m³	0.04	EPA IO-3.2 & 5.0

NOTE: Fugitive emission Standard - 4000 µg/m³ as per Environment (Protection) rules, 1986.

Report Prepared by :

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TC-6271

DOC NO : QLS/SAMP/08-A/00

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa, Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Sample Description Date of Performance(s) Ref No. Date	: QLS/MR/A/23-24/C/369 : 28.07.2023 : QLS/MR/A/23-24/369 : Work Zone Monitoring : 22.07.2023-28.07.2023 : 3322000242,Dated:23.05.2023

Analysis Result

Location : Near Head ESP	Date of sampling : 19.07.2023
Sampling Done by: S.Ghosh/P.Mahato	Sampling done as per : CPCB Guidelines (Volume-1)
Environmental Condition : Heavy Rainfall	

Sl. No.	Pollutants	Result	Method of Test Reference
1	Total Suspended Particulate Matter in µg/m^3	171	IS 5182 : Part.4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in µg/m^3	92	IS 5182: Part 23 : 2012
3	Sulphur dioxide (SO_2) in µg/m^3	5.9	IS: 5182 (Part-2)-2001,(RA-2012)
4	Nitrogen dioxide (NO_2) in µg/m^3	24.6	IS: 5182 (Part- 6)-2012
5	Carbon Monoxide (CO) in µg/m^3	869	IS: 5182 (Part- 10)- (RA-2017)
6	Lead (Pb) in µg/m^3	0.05	EPA IO-3.2 & 5.0

NOTE: Fugitive emission Standard - 4000 µg/m^3 as per Environment (Protection) rules, 1986.

Report Prepared by :

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TC-6271

DOC NO : QLS/SAMP/08-A/00

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa, Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Sample Description Date of Performance(s) Ref No. Date	: QLS/MR/A/23-24/C/370 : 28.07.2023 : QLS/MR/A/23-24/370 : Work Zone Monitoring : 22.07.2023-28.07.2023 : 3322000242,Dated:23.05.2023

Analysis Result

Location : Near Ground Hopper	Date of sampling : 17.07.2023
Sampling Done by: S.Ghosh/P.Mahato	Sampling done as per : CPCB Guidelines (Volume-1)
Environmental Condition : Heavy Rainfall	

Sl. No.	Pollutants	Result	Method of Test Reference
1	Total Suspended Particulate Matter in µg/m³	203	IS 5182 : Part.4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in µg/m³	107	IS 5182: Part 23 : 2012
3	Sulphur dioxide (SO_2) in µg/m³	6.4	IS: 5182 (Part-2)-2001,(RA-2012)
4	Nitrogen dioxide (NO_2) in µg/m³	26.0	IS: 5182 (Part- 6)-2012
5	Carbon Monoxide (CO) in µg/m³	572	IS: 5182 (Part- 10)- (RA-2017)
6	Lead (Pb) in µg/m³	0.06	EPA IO-3.2 & 5.0

NOTE: Fugitive emission Standard - 4000 µg/m³ as per Environment (Protection) rules, 1986.

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

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TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa, Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Sample Description Date of Performance(s) Ref No. Date	: QLS/MR/A/23-24/C/542 : 25.09.2023 : QLS/MR/A/23-24/542 : Work Zone Monitoring : 17-25.09.2023 : 3322000242,Dated:23.05.2023

Analysis Result

Location : Near Ground Hopper		Date of sampling : 10.09.2023	
Sampling Done by: S.Ghosh/P.Mahato		Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Light Rainfall			
Sl. No.	**Pollutants**	**Result**	**Method of Test Reference**
1	Total Suspended Particulate Matter in µg/m³	103	IS 5182 : Part.4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in µg/m³	68	IS 5182: Part 23 : 2012
3	Sulphur dioxide (SO_2) in µg/m³	6.0	IS: 5182 (Part-2)-2001,(RA-2012)
4	Nitrogen dioxide (NO_2) in µg/m³	25.4	IS: 5182 (Part- 6)-2012
5	Carbon Monoxide (CO) in µg/m³	629	IS: 5182 (Part- 10)- (RA-2017)
6	Lead (Pb) in µg/m³	<0.02	EPA IO-3.2 & 5.0
NOTE: Fugitive emission Standard - 4000 µg/m³ as per Environment (Protection) rules, 1986.			

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

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DOC NO : QLS/SAMP/08-A/00

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa, Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Sample Description Date of Performance(s) Ref No. Date	: QLS/MR/A/23-24/C/541 : 25.09.2023 : QLS/MR/A/23-24/541 : Work Zone Monitoring : 17-25.09.2023 : 3322000242,Dated:23.05.2023

Analysis Result

Location : Near Head ESP		Date of sampling : 10.09.2023	
Sampling Done by: P.Mandal/P.Mahato		Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Light Rainfall			
Sl. No.	**Pollutants**	**Result**	**Method of Test Reference**
1	Total Suspended Particulate Matter in $\mu g/m^3$	187	IS 5182 : Part.4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in $\mu g/m^3$	120	IS 5182: Part 23 : 2012
3	Sulphur dioxide (SO_2) in $\mu g/m^3$	6.1	IS: 5182 (Part-2)-2001,(RA-2012)
4	Nitrogen dioxide (NO_2) in $\mu g/m^3$	28.0	IS: 5182 (Part- 6)-2012
5	Carbon Monoxide (CO) in $\mu g/m^3$	812	IS: 5182 (Part- 10)- (RA-2017)
6	Lead (Pb) in $\mu g/m^3$	0.09	EPA IO-3.2 & 5.0
NOTE: Fugitive emission Standard - 4000 $\mu g/m^3$ as per Environment (Protection) rules, 1986.			

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

Benimadhab Gorai, Chemist
(Authorized Signatory)

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DOC NO : QLS/SAMP/08-A/00

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa, Durgapur Paschim Bardhaman West Bengal – 713 212	Report No.	: QLS/MR/A/23-24/C/540
	Date	: 25.09.2023
	Sample No.	: QLS/MR/A/23-24/540
	Sample Description	: Work Zone Monitoring
	Date of Performance(s)	: 17-25.09.2023
	Ref No. Date	: 3322000242,Dated:23.05.2023

Analysis Result

Location : Near Tail ESP		Date of sampling : 09.09.2023	
Sampling Done by: P.Mandal/P.Mahato		Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Light Rainfall			
Sl. No.	**Pollutants**	**Result**	**Method of Test Reference**
1	Total Suspended Particulate Matter in $\mu g/m^3$	117	IS 5182 : Part.4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in $\mu g/m^3$	75	IS 5182: Part 23 : 2012
3	Sulphur dioxide (SO_2) in $\mu g/m^3$	6.6	IS: 5182 (Part-2)-2001,(RA-2012)
4	Nitrogen dioxide (NO_2) in $\mu g/m^3$	27.1	IS: 5182 (Part- 6)-2012
5	Carbon Monoxide (CO) in $\mu g/m^3$	721	IS: 5182 (Part- 10)- (RA-2017)
6	Lead (Pb) in $\mu g/m^3$	<0.02	EPA IO-3.2 & 5.0
NOTE: Fugitive emission Standard - 4000 $\mu g/m^3$ as per Environment (Protection) rules, 1986.			

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

Benimadhab Goral, Chemist
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TC-6271

DOC NO : QLS/SAMP/08 A/00

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa, Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Sample Description Date of Performance(s) Ref No. Date	: QLS/MR/A/23-24/C/539 : 25.09.2023 : QLS/MR/A/23-24/539 : Work Zone Monitoring : 17-25.09.2023 : 3322000242,Dated:23.05.2023

Analysis Result

Location : Near Metal Bay		Date of sampling : 09.09.2023	
Sampling Done by: P.Mandal/P.Mahato		Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Light Rainfall			
Sl. No.	**Pollutants**	**Result**	**Method of Test Reference**
1	Total Suspended Particulate Matter in $\mu g/m^3$	93	IS 5182 : Part.4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in $\mu g/m^3$	66	IS 5182: Part 23 : 2012
3	Sulphur dioxide (SO_2) in $\mu g/m^3$	7.4	IS: 5182 (Part-2)-2001,(RA-2012)
4	Nitrogen dioxide (NO_2) in $\mu g/m^3$	28.3	IS: 5182 (Part- 6)-2012
5	Carbon Monoxide (CO) in $\mu g/m^3$	984	IS: 5182 (Part- 10)- (RA-2017)
6	Lead (Pb) in $\mu g/m^3$	<0.02	EPA IO-3.2 & 5.0
NOTE: Fugitive emission Standard - 4000 $\mu g/m^3$ as per Environment (Protection) rules, 1986.			

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

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Annexure- XII

neo metaliks ltd.

Park Plaza,71 Park Street, 6F , North Block,Kolkata Pin - 700016
Tel : 033-40504050 Email - info@neometaliks.com
Website : www.neometaliks.com CIN No : U27109WB2003PLC097231

PURCHASE ORDER

PO.Number : 3522000837 **Date : 07.09.2023**

Details of supplier
REDSHIFT ENVIRONMENTAL SYSTEMS PVT LTD
1ST FLOOR, N/331 BAISHNABGHATA PATULI
KOLKATA
State Name : West Bengal StateCode : 19
GSTIN : 19AAJCR5780L1ZL PAN :
Contact Details :

Other References
Your reference : OFFER / 12.08.2023
Our Reference : /
RFQ Number :
Contact Person :
Contact Number:

Shipping from address
REDSHIFT ENVIRONMENTAL SYSTEMS PVT LTD
1ST FLOOR, N/331 BAISHNABGHATA PATULI
KOLKATA
State Name : West Bengal StateCode : 19
GSTIN : 19AAJCR5780L1ZL PAN :
Contact Details :

Billing To Address
Neo Metaliks Limited
GOPALPUR
DURGAPUR 713212
State Name : West Bengal StateCode : 19
GSTIN : 19AABCN8514G1ZE
PAN : AABCN8514G

Sr. No.	Item Code	Description	Unit	HSN / SAC	Ref.No	Quantity	Price / Unit	Dis %	Dis. Amt.	Amount
1	PC95003474	**SWIVELLING HOOD**	NOS		1522000772	1.000	275,000.00	0.00	0.00	275,000.00
									CGST @ 9.00 %	24,750.00
									SGST @ 9.00 %	24,750.00
2	PC95003475	**FAN WITH MOTOR FOR CAST HOUSE DE SYSTEM**	NOS		1522000772	1.000	550,000.00	0.00	0.00	550,000.00
									CGST @ 9.00 %	49,500.00
									SGST @ 9.00 %	49,500.00
3	SP60001056	**BAG HOUSE UNIT FOR CAST HOUSE DE SYSTEM**	NOS		1522000772	1.000	1,375,000.00	0.00	0.00	1,375,000.00
									CGST @ 9.00 %	123,750.00
									SGST @ 9.00 %	123,750.00

In words : Rupees Twenty Two Lakh only — Val.Excl.Tax 2,200,000.00
In words : Rupees Twenty Five Lakh Ninety Six Thousand only — Order Value 2,596,000.00

Terms & Conditions ; -

Price Basis EX WORKS FACTORY.

Taxes & Duties GST EXTRA 18% APPLICABLE

Freight FRE DELIVERY AT FACTORY.

Payment Terms
1. ADVANCE 20% TO BE PAID AGAINST PDC WHICH IS VALID UPTO 16.11.2023.
2. 60% amount to be paid after inspection at your site before DISPATCH
3 10% amount with GST to be paid after reciept of meterials at site.
4 BALANCE 10% TO BE PAID AFTER SUCCESSFUL COMISSINING AGAINST RECIEPT OF PBG (PERFORMANCE BANK GURANTEE)OF SAME VALUE OR PDC VALID FOR 12 MONTHS FROM COMISSINING.

Scope of Work
1. A NEW BIGGER- SIZE HOOD WITH SWIVELING ARRANGEMENT (TO FACILITATE MAINTENANCE OF BLAST- FURNACE TUYERES ETC) TO BE PROVIDED.
2. THE BAG FILTER WITH INCREASED HIGHT IS TO BE SUPPLIED, EXISTING HOPPER, RAV ETC ARE TO BE UTILIZED.
3. NEW PULSING ARRANGEMENT WITH VALVES TO BE SUPPLIED.
4. OLD FILTER BAGS AND CAGES TO BE REMOVED AND NEW LONGER SIZE FILTER BAGS AND CAGES TO BE USED.
5. THE OLD FAN WITH MOTOR WILL BE REPLACED BY NEWLY SUPPLIED FAN WITH MOTOR AND DRIVE ARRANGEMENT WITH ACCESSORIES.
6. THE EXISTING STRUCTURE IS TO BE REMOVED AND NEW STRUCTURE TO BE INSTALLED.
7. EXISTING LOWER SIZE DUCTING AND CHINMAY ARE TO BE USED, SINCE THE SYSTEM WILL RUN FOR AROUND ONE YEAR ONLY.

PRIYOBROTO SWAIN
Prepared By

Approved By

NOTE : Please mention order number,Unit of Measurement(UOM),HSN/SAC and A/C head in challan/invoice for faster payment .
Your general conditions of sale/services are not applicable to us .
Your GST registration number should be quoted in your challan/invoice .
Material/Services will be accepted only against submission of copy of Tax invoice.

Idma Laboratories Limited

TC-8207

TEST REPORT

ULR : TC820723700003971F

Lab No.	250923L-FD-019		Page No. 1/4
Customer#	Neo Metaliks Limited Gopalpur, Durgapur -713212 West Bengal		
Type of Sample#	Ground Water		
Customer's Description of Sample#	Ground Water		
Quantity#	2 Ltr. + 250 ml		
Packing, Markings, Seal & Quantity#	Plastic Bottle & Glass Bottle, Loc-Near RMHS/PCM Road Side		
Mode of Collection of Sample	Sample Collected by Lab Person		
Work Order No.#	3322000449	Dated	28/08/2023
Date of Receipt of Sample	25/09/2023		
Period of Analysis	25/09/2023 To 30/09/2023		
Visual Observation	N/A		
Date of Reporting	30/09/2023		
Testing Protocol	IS 10500: 2012, Amdt 1,2,3 & 4		

RESULTS

S.No.	Test Parameter	Units	Results	Requirements		Test Method
				Acceptable limit	Permissible limit	
	Chemical Testing (Water)	-	-	-	-	-
1	Colour /Cl.4.0, Table -1-i)	Hazen	<1	Max 5	Max 15	IS:3025 (Part 4) : 2021
2	Odour /Cl.4.0, Table -1-ii)	-	Agreeable	Agreeable	Agreeable	IS:3025 (Part 5) : 2018
3	pH value /Cl.4.0, Table -1-iii)	-	7.19	6.5 -8.5	No relaxation	IS:3025 (Part 11) : 2022
4	Turbidity /Cl.4.0, Table -1-v)	NTU	<1	Max 1	Max 5	IS:3025 (Part 10) : 1984
5	Total Dissolved Solids , Cl.4.0, Table -1-vi)	mg/l	171	Max 500	Max 2000	IS:3025 (Part 16) : 1984
6	Aluminium (as Al), Cl.4.0, Table -2-i)	mg/l	BLQ (LOQ -0.0005)	Max 0.03	Max 0.2	IS:3025 (Part 55) : 2003
7	Ammonia (as total	mg/l	BLQ(LOQ-0.	Max 0.5	No relaxation	IS:3025 (Part 34) :1988

Reviewed by

30/09/2023

Authorised signatory

Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827,- 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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- Samples not drawn by us unless otherwise stated.
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- Any complaint/discripancies in this Test Report Should be communicated in writing within 15 days of the dispatch of Test Report.
- In case of any dispute, the terms & conditions of Idma Laboratories Limited shall prevail.
- In case of any feedback/complaints, please send email at testing@idmagroup.co.in or call at 0172 - 5064827 / 5064830

Idma Laboratories Limited

TC-8207

TEST REPORT

ULR : TC820723700003971F

Lab No.	250923L-FD-019					Page No. 2/4
S.No.	**Test Parameter**	**Units**	**Results**	**Requirements**		**Test Method**
				Acceptable limit	**Permissible limit**	
7	ammonia -N), Cl.4.0, Table -2-ii)		5			
8	Anionic detergents (as MBAS), Cl.4.0, Table -2-iii)	mg/l	BLQ(LOQ-0.05)	Max 0.2	Max 1.0	Annex K of IS:13428 : 2005
9	Boron (as B) , Cl.4.0, Table -2-v)	mg/l	0.006	Max 0.5	Max 2.4	IS:3025 (part 57) : 2021
10	Calcium (as Ca), Cl.4.0, Table -2-vi)	mg/l	37.0	Max 75	Max 200	IS:3025 (part 40) : 1991
11	Chloride (as Cl), Cl.4.0, Table -2-viii)	mg/l	13.6	Max 250	Max 1000	IS:3025 (part 32) : 1988
12	Copper (as Cu), Cl.4.0, Table -2-ix)	mg/l	BLQ (LOQ -0.0005)	Max 0.05	Max 1.5	IS:3025 (part 42) : 1992
13	Fluoride (as F), Cl.4.0, Table -2-x)	mg/l	0.3	Max 1.0	Max 1.5	IS:3025 (part 60) : 2008
14	Free residual chlorine, Cl.4.0, Table -2-xi)	mg/l	BLQ(LOQ-0.1)	Min 0.2	Max 1	IS:3025 (part 26) : 2021
15	Iron (as Fe), Cl.4.0, Table -2-xii)	mg/l	BLQ (LOQ -0.0005)	Max 1.0	No relaxation	IS:3025 (part 53) : 2003
16	Magnesium (as Mg), Cl.4.0, Table -2-xiii)	mg/l	6.1	Max 30	Max 100	IS:3025 (part 46) : 1994
17	Manganese (as Mn), Cl.4.0, Table -2-xiv)	mg/l	BLQ (LOQ -0.0005)	Max 0.1	Max 0.3	IS:3025 (part 59) : 2006
18	Nitrate (as NO3), Cl.4.0, Table -2-xvi)	mg/l	BLQ(LOQ-1.0)	Max 45	No relaxation	IS:3025 (part 34) : 1988
19	Phenolic compound (as C6H5OH), Cl.4.0, Table -2-xvii)	mg/l	BLQ(LOQ-0.001)	Max 0.001	Max 0.002	IS:3025 (part 43) : 1992
20	Selenium , (as Se), Cl.4.0, Table -2-xviii)	mg/l	BLQ (LOQ -0.0005)	Max 0.01	No relaxation	IS:3025 (part 56) : 2003 or IS :15303 : 2003
21	Sulphate , (as SO4), Cl.4.0, Table -2-xx)	mg/l	3.1	Max 200	Max 400	IS:3025 (part 24) : 1986
22	Total Alkalinity as	mg/l	86.1	Max 200	Max 600	IS:3025 (part 23) : 1986

Reviewed by 30/09/2023

Authorised signatory

Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827,- 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

Idma Laboratories Limited

TC-8207

TEST REPORT

ULR : TC820723700003971F

Lab No.	250923L-FD-019	Page No. 3/4

S.No.	Test Parameter	Units	Results	Requirements		Test Method
				Acceptable limit	Permissible limit	
22	calcium carbonate , Cl.4.0, Table -2-xxi					
23	Total Hardness (as CaCO3), Cl.4.0, Table -2-xxiii)	mg/l	117.6	Max 200	Max 600	IS:3025 (part 21) : 2009
24	Zinc (as Zn), Cl.4.0, Table -2-xxiv)	mg/l	BLQ (LOQ -0.0005)	Max 5	Max 15	IS:3025 (part 49) : 1994
25	Cadmium(as Cd), Cl.4.0, Table -3-i)	mg/l	BLQ (LOQ -0.0005)	Max 0.003	No relaxation	IS:3025 (part 41) : 1992
26	Cyanide (as CN), Cl.4.0, Table -3-ii)	mg/l	BLQ(LOQ-0.05)	Max 0.05	No relaxation	IS:3025 (part 27) : 1986
27	Lead (as Pb), Cl.4.0, Table -3-iii)	mg/l	BLQ (LOQ -0.0005)	Max 0.01	No relaxation	IS:3025 (part 47) : 1994
28	Mercury (as Hg), Cl.4.0, Table -3-iv)	mg/l	BLQ (LOQ -0.0005)	Max 0.001	No relaxation	IS:3025 (part 48) : 1994
29	Total arsenic (As) Cl.4.0, Table -3-x)	mg/l	BLQ (LOQ -0.0005)	Max 0.01	No relaxation	IS:3025 (part 37) : 2022
30	Total chromium (as Cr), Cl.4.0, Table -3-xii)	mg/l	BLQ (LOQ -0.0005)	Max 0.05	No relaxation	IS:3025 (part 52) : 2003
	Biological Testing(Water)	-	-	-	-	-
31	Total Coliform bacteria,Cl.4.1.1,Table-6-(1)	/100ml	Absent	Shall not be detectable in any 100ml sample	-	IS 15185:2016
32	E.coli ,Cl.4.1.1,Table-6-(1)	/100ml	Absent	Shall not be detectable in any 100ml sample	-	IS 15185:2016

30/09/23

Reviewed by

Authorised signatory

Idma Laboratories Limited

Idma Corporate Park,

391, industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

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Website : www.idmagroup.co.in

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Idma Laboratories Limited

TC-8207

TEST REPORT

ULR : TC820723700003971F

Lab No.	250923L-FD-019	Page No. 4/4

Opinion :

Remarks:- The Test report pertains to the sample, as collected by the IDMA lab person from the customer premises and the result related only to the tested sample.BLQ : Below limit of quantification, LOQ :limit of quantification.

Represents details provided by the customer. **End of Report**

Reviewed by

30/09/2025

Authorised signatory

Idma Laboratories Ltd. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

391, industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827,- 5064830

Website : www.idmagroup.co.in

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Qualissure Laboratory Services

161, Prantick Pally, 45/361, Bose Pukur Road, Kolkata -700107
Email : qualissure@gmail.com; info@qualissure.com ; Mob.No. 98312 87086 ; 9830093976

TC-6271

DOC NO : QLS/SAMP/08-D/00

TEST REPORT

Name & Address of the Customer:		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa, Durgapur Paschim Bardhaman West Bengal – 713 212	ULR No.	: TC627123000000712F
	Report No.	: QLS/MR/W/23-24/C/119
	Date	: 31.05.2023
	Sample No.	: QLS/MR/W/23-24/119
	Sample Description	: Drinking Water (Borewell)
	Sample Mark/ Location	: MBF Plant At 7 AM
	Sample Drawn On	: 23.05.2023
	Date of Performance(s)	: 24.05.2023-30.05.2023
	Sampling Method	: IS 3025(Part 1): 1987 (RA 2019)
	Ref No. Date	: 3322000242,Dated:23.05.2023

Analysis Result

(A) Microbiological Analysis

Sl.No.	Characteristic	Limit as Per IS 10500 :2012Amd. 2	Test Method	Result
1.	E.coli/100ml	Not Detectable	IS 15185-2016	Not Detected
2.	Total Coliform Bacteria/100ml	Not Detectable	IS 15185-2016	Not Detected

(B) Chemical Analysis

Sl. No.	Test Parameter	Test Method	IS 10500:2012Amd. No. 1 & 2		Result
			Acceptable Limit	Permissible Limit	
1.	Colour in Hazen Units	IS 3025 (Part 4): 1983 (RA 2021)	5	15	<5
2.	Odour	IS 3025(Part 5)-1983; RA:2018	Agreeable	Agreeable	Agreeable
3.	pH Value at 25°C	IS 3025 (Part 11)-1984; RA: 2019	6.5-8.5	No Relaxation	6.57
4.	Turbidity in NTU	IS 3025 (Part 10)-1984, RA: 2017	1	5	<1.0
5.	Total Dissolved Solids (as TDS) in mg/l	IS 3025(Part 16)-1984, RA: 2017	500	2000	314
6.	Aluminium (as Al) in mg/l	IS 15302 : 2003 (RA 2019)	0.03	0.2	<0.01
7.	Ammonia as NH_3 in mg/l	IS 3025 (Part 34): 1988,RA 2019	0.5	No Relaxation	<0.1
8.	Anionic Detergents(as MBAS) in mg/l	IS 13428-2005(Annex K) ; RA:2018	0.2	1.0	<0.02
9.	Boron(as B) in mg/l	IS 13428-2005(Annex L); RA:2018	0.5	2.4	<0.5
10.	Calcium(as Ca) in mg/l	IS 3025 (Part 40)-1991, RA: 2019	75	200	56.4
11.	Chloride(as Cl) in mg/l	IS 3025 (Part 32)-1988, RA: 2019	250	1000	63.5
12.	Copper(as Cu) in mg/l	IS 3025 (Part 42): 1992 ; RA 2019	0.05	1.5	<0.02
13.	Fluoride(as F) in mg/l	APHA 24th Edition 2023, 4500 F D	1.0	1.5	<0.1
14.	Free Residual Chlorine in mg/l	IS 3025 (Part 26) 1986 RA: 2021	0.2	1.0	<0.1
15.	Iron (as Fe) in mg/l	IS 3025(Part 53)-1988 RA: 2019	1.0	No Relaxation	2.19
16.	Magnesium(as Mg) in mg/l	APHA 24th Edition- 2023, 3500 Mg	30	100	20.3
17.	Manganese (as Mn) in mg/l	IS 3025 (Part 59): 2006 RA 2019	0.1	0.3	<0.02
18.	Nitrate (as NO_3) in mg/l	IS 3025 (Part 34)-1986 RA: 2019	45	No Relaxation	<0.5
19.	Phenolic Compounds(as C_6H_5OH) in mg/l	IS 3025 (Part 43)-1992 RA: 2019	0.001	0.002	<0.001
20.	Selenium(as Se) in mg/l	IS 15303-2003; RA : 2013	0.01	No Relaxation	<0.01
21.	Sulphate (as SO_4) in mg/l	IS 3025 (Part 24)-1986, RA: 2022	200	400	17.6
22.	Alkalinity(as $CaCO_3$)in mg/l	IS 3025 (Part 23)- 1986, RA: 2019	200	600	253.0
23.	Total Hardness (as $CaCO_3$) in mg/l	IS 3025 (Part 21)-1983, RA: 2019	200	600	225.6
24.	Cadmium(as Cd) in mg/l	IS 3025(Part 41)-1992;RA: 2019	0.003	No Relaxation	<0.002
25.	Cyanide(as CN) in mg/l	IS 3025(Part 27)-1986,RA: 2019	0.05	No Relaxation	<0.02
26.	Lead(as Pb) in mg/l	IS 3025(Part 47)-1994,RA: 2019	0.01	No Relaxation	<0.01
27.	Mercury(as Hg) in mg/l	IS 3025(Part 48)-1994,RA: 2019	0.001	No Relaxation	<0.001
28.	Arsenic(as As) in mg/l	IS 3025 (Part 37)-1988, RA: 2019	0.01	No Relaxation	<0.01
29.	Zinc(as Zn) in mg/l	IS 3025(Part 49)-1994,RA: 2019	5	15	<0.02
30.	Total Chromium (as Cr) in mg/l	IS 3025 (Part 52): 2019	0.05	No Relaxation	<0.05

Report Prepared By:

for Qualissure Laboratory Services
Reviewed & Authorized By

S. Chakraborty
Soumy Chakraborty, Microbiologist
(Authorized Signatory)

for Qualissure Laboratory Services
Reviewed & Authorized By

Bishnupriya Banerjee, Chemist
(Authorized Signatory)

------End of the Report------

Qualissure Laboratory Services
361, Prantick Pally, 45/361, Bose Pukur Road, Kolkata -700107
Email : qualissure@gmail.com; info@qualissure.com ; Mob.No. 98312 87086 ; 9830093976

TC-6271

DOC NO : QLS/SAMP/08-D/00

TEST REPORT

Name & Address of the Customer:		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa, Durgapur Paschim Bardhaman West Bengal – 713 212	ULR No.	: TC627123000000713F
	Report No.	: QLS/MR/W/23-24/C/120
	Date	: 31.05.2023
	Sample No.	: QLS/MR/W/23-24/120
	Sample Description	: Drinking Water (Borewell)
	Sample Mark/ Location	: MBF Plant At 3.30 PM
	Sample Drawn On	: 23.05.2023
	Date of Performance(s)	: 24.05.2023-30.05.2023
	Sampling Method	: IS 3025(Part 1): 1987 (RA 2019)
	Ref No. Date	: W122505-006, Dated:05.05.2022

Analysis Result

(A) Microbiological Analysis

Sl.No.	Characteristic	Limit as Per IS 10500 :2012Amd. 2	Test Method	Result
1.	E.coli/100ml	Not Detectable	IS 15185-2016	Not Detected
2.	Total Coliform Bacteria/100ml	Not Detectable	IS 15185-2016	Not Detected

(B) Chemical Analysis

Sl. No.	Test Parameter	Test Method	IS 10500:2012Amd. No. 1 & 2		Result
			Acceptable Limit	Permissible Limit	
1.	Colour in Hazen Units	IS 3025 (Part 4): 1983 (RA 2021)	5	15	<5
2.	Odour	IS 3025(Part 5)-1983; RA:2018	Agreeable	Agreeable	Agreeable
3.	pH Value at 25°C	IS 3025 (Part 11)-1984; RA: 2019	6.5-8.5	No Relaxation	6.82
4.	Turbidity in NTU	IS 3025 (Part 10)-1984; RA: 2017	1	5	<1.0
5.	Total Dissolved Solids (as TDS) in mg/l	IS 3025(Part 16)-1984; RA: 2017	500	2000	198
6.	Aluminium (as Al) in mg/l	IS 15302: 2003 (RA 2019)	0.03	0.2	<0.01
7.	Ammonia as NH_3 in mg/l	IS 3025 (Part 34): 1988;RA:2019	0.5	No Relaxation	<0.1
8.	Anionic Detergents(as MBAS) in mg/l	IS 13428-2005(Annex K) ; RA:2018	0.2	1.0	<0.02
9.	Boron(as B) in mg/l	IS 13428-2005(Annex L); RA:2018	0.5	2.4	<0.5
10.	Calcium(as Ca) in mg/l	IS 3025 (Part 40)-1991, RA: 2019	75	200	25.6
11.	Chloride(as Cl) in mg/l	IS 3025 (Part 32)-1988, RA: 2019	250	1000	45.0
12.	Copper(as Cu) in mg/l	IS 3025 (Part 42): 1992 ; RA 2019	0.05	1.5	<0.02
13.	Fluoride(as F) in mg/l	APHA 24th Edition 2023, 4500 F D	1.0	1.5	<0.1
14.	Free Residual Chlorine in mg/l	IS 3025 (Part 26) 1986 RA: 2021	0.2	1.0	<0.1
15.	Iron (as Fe) in mg/l	IS 3025(Part 53)-1988 RA: 2019	1.0	No Relaxation	<0.05
16.	Magnesium(as Mg) in mg/l	APHA 24th Edition- 2023, 3500 Mg	30	100	12.6
17.	Manganese (as Mn) in mg/l	IS 3025 (Part 59): 2006 RA 2019	0.1	0.3	<0.02
18.	Nitrate (as NO_3) in mg/l	IS 3025 (Part 34)-1986 RA: 2019	45	No Relaxation	<0.5
19.	Phenolic Compounds(as C_6H_5OH) in mg/l	IS 3025 (Part 43)-1992 RA: 2019	0.001	0.002	<0.001
20.	Selenium(as Se) in mg/l	IS 15303-2003; RA : 2013	0.01	No Relaxation	<0.01
21.	Sulphate (as SO_4) in mg/l	IS 3025 (Part 24)-1986, RA: 2022	200	400	13.2
22.	Alkalinity(as $CaCO_3$)in mg/l	IS 3025 (Part 23)- 1986, RA: 2019	200	600	119.6
23.	Total Hardness (as $CaCO_3$) in mg/l	IS 3025 (Part 21)-1983, RA: 2019	200	600	116.5
24.	Cadmium(as Cd) in mg/l	IS 3025(Part 41)-1992;RA: 2019	0.003	No Relaxation	<0.002
25.	Cyanide(as CN) in mg/l	IS 3025(Part 27)-1986;RA: 2019	0.05	No Relaxation	<0.02
26.	Lead(as Pb) in mg/l	IS 3025(Part 47)-1994;RA: 2019	0.01	No Relaxation	<0.01
27.	Mercury(as Hg) in mg/l	IS 3025(Part 48)-1994;RA: 2019	0.001	No Relaxation	<0.001
28.	Arsenic(as As) in mg/l	IS 3025 (Part 37)-1988, RA- 2019	0.01	No Relaxation	<0.01
29.	Zinc(as Zn) in mg/l	IS 3025(Part 49)-1994;RA: 2019	5	15	<0.02
30.	Total Chromium (as Cr) in mg/l	IS 3025 (Part 52): 2019	0.05	No Relaxation	<0.05

Report Prepared By:

for **Qualissure Laboratory Services**
Reviewed & Authorized By

Soumy Chakraborty, Microbiologist
(Authorized Signatory)

for **Qualissure Laboratory Services**
Reviewed & Authorized By

Bishnupriya Banerjee, Chemist
(Authorized Signatory)

- *The results relate only to the item(s) tested.*
- *This Test Report shall not be reproduced without the permission of Qualissure Laboratory Services.*
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End of the Report

Annexure- XIV

Qualissure Laboratory Services
361, Prantick Pally, 45/361, Bose Pukur Road, Kolkata -700107
Email : qualissure@gmail.com; info@qualissure.com ; Mob.No. 98312 87086 ; 9830093976

TC-6271

DOC NO : QLS/SAMP/08-C/00

TEST REPORT

Name & Address of the Customer:		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Date of Performance(s) Sample Description Ref No. Date	: QLS/A/23-24/C/180 : 03.06.2023 : QLS/A/23-24/180 (A-E) : 26.05.2023-02.06.2023 : Noise Monitoring : W122505-006,Dated:05.05.2022

Analysis Result of Noise

Sampling Done By : P.Mandal/P.Mahato

Sampling Guideline : As per IS: 9876: 1981 (RA-2001)

Sample No.	Date of Monitoring	Location	Leq dB (A) Day Time	Limit in Leq dB(A) Day time	Leq dB (A) Night Time	Limit in Leq dB(A) Night Time
180A	22.05.2023	Near Main Gate	63.9	65	57.0	55
180B		Near PCM Boundary Wall	57.6	65	45.6	55
180C	23.05.2023	Admin. Building	57.9	65	46.2	55
180D		Near CPP Cooling Tower	60.4	65	52.7	55
180E	24.05.2023	Near Boundary Wall (North East Side)	59.3	65	45.8	55

Report Prepared by :

for Qualissure Laboratory Services
Reviewed & Authorized By

(Benimadhab Gorai, Chemist)
(Authorized Signatory)

----- *End of the Report*-----

Qualissure Laboratory Services

361, Prantick Pally, 45/361, Bose Pukur Road, Kolkata -700107
Email : qualissure@gmail.com; info@qualissure.com ; Mob.No. 98312 87086 ; 9830093976

TC-6271

DOC NO : QLS/SAMP/08-C/00

TEST REPORT

Name & Address of the Customer:		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/MR/A/23-24/C/371
Vill + P.O. : Gopalpur	Date	: 28.07.2023
P.S. : Kanksa,Durgapur	Sample No.	: QLS/MR/A/23-24/371 (A-D)
Paschim Bardhaman	Date of Performance(s)	: 22.07.2023-28.07.2023
West Bengal – 713 212	Sample Description	: Noise Monitoring
	Ref No. Date	: 3322000242,Dated:23.05.2023

Analysis Result of Noise

Sampling Done By : S.Ghosh/P.Mahato

Sampling Guideline : As per IS: 9876: 1981 (RA-2001)

Sample No.	Date of Monitoring	Location	Leq dB (A) Day Time	Limit in Leq dB(A) Day time	Leq dB (A) Night Time	Limit in Leq dB(A) Night Time
371A	18.07.2023	Near CPP Cooling Tower	60.6	65	52.5	55
371B		Near Main Gate	59.8	65	49.6	55
371C	19.07.2023	Admin. Building	61.2	65	47.5	55
371D		Near PCM side Building Wall	54.2	65	45.1	55

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

(Benimadhab Gorai, Chemist)
(Authorized Signatory)

----- *End of the Report*-----

- *The results relate only to the item(s) tested.*
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TC-6271

DOC NO : QLS/SAMP/08-C/00

TEST REPORT

Name & Address of the Customer:		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Date of Performance(s) Sample Description Ref No. Date	: QLS/MR/A/23-24/C/372 : 28.07.2023 : QLS/MR/A/23-24/372 : 22.07.2023-28.07.2023 : Noise Monitoring : 3322000242,Dated:23.05.2023

Monitoring Result of Noise

Sampling Done By: P. Mahato

Sampling Guideline : As per IS: 9876: 1981 (RA-2001)

Sample No.	Date of Monitoring	Location	Average dB (A)
372	19.07.2023	Near Ground Hopper	62.5

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

(Benimadhab Gorai, Chemist)
(Authorized Signatory)

----- *End of the Report*-----

Qualissure Laboratory Services
361, Prantick Pally, 45/361, Bose Pukur Road, Kolkata -700107
Email : qualissure@gmail.com; info@qualissure.com ; Mob.No. 98312 87086 ; 9830093976

TC-6271

DOC NO : QLS/SAMP/08-C/00

TEST REPORT

Name & Address of the Customer:		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/MR/A/23-24/C/552
Vill + P.O. : Gopalpur	Date	: 25.09.2023
P.S. : Kanksa,Durgapur	Sample No.	: QLS/MR/A/23-24/552(A-D)
Paschim Bardhaman	Date of Performance(s)	: 17-25.09.2023
West Bengal – 713 212	Sample Description	: Noise Monitoring
	Ref No. Date	: 3322000242,Dated:23.05.2023

Analysis Result of Noise

Sampling Done By : P.Mandal/P.Mahato

Sampling Guideline : As per IS: 9876: 1981 (RA-2001)

Sample No.	Date of Monitoring	Location	Leq dB (A) Day Time	Limit in Leq dB(A) Day time	Leq dB (A) Night Time	Limit in Leq dB(A) Night Time
552A	09.09.2023	Near CPP Cooling Tower	57.6	65	49.3	55
552B		Near PCM side Building	59.2	65	47.6	55
552C	10.09.2023	Admin. Building	58.8	65	48.3	55
552D		Wall Near Main Gate	60.9	65	48.8	55

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

Benimadhab Goral, Chemist
(Authorized Signatory)

—— End of the Report——

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361, Prantick Pally, 45/361, Bose Pukur Road, Kolkata -700107
Email : qualissure@gmail.com; info@qualissure.com ; Mob.No. 98312 87086 ; 9830093976

TC-6271

DOC NO : QLS/SAMP/08-C/00

TEST REPORT

Name & Address of the Customer: M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa, Durgapur Paschim Bardhaman West Bengal – 713 212	Report No.	: QLS/MR/A/23-24/C/553
	Date	: 25.09.2023
	Sample No.	: QLS/MR/A/23-24/553
	Date of Performance(s)	: 17-25.09.2023
	Sample Description	: Noise Monitoring
	Ref No. Date	: 3322000242,Dated:23.05.2023

Monitoring Result of Noise

Sampling Done By: P. Mahato

Sampling Guideline : As per IS: 9876: 1981 (RA-2001)

Sample No.	Date of Monitoring	Location	Average dB (A)
553	10.09.2023	Near Ground Hopper	63.1

Report Prepared by :

for **Qualissure Laboratory Services**
Reviewed & Authorized By

Benimadhab Gorai, Chemist
(Authorized Signatory)

----- *End of the Report*-----

Annexure- XV

Park Plaza,71 Park Street, 6F , North Block,Kolkata Pin - 700016
Tel : 033-40504050 Email - info@neometaliks.com
Website : www.neometaliks.com CIN No : U27109WB2003PLC097231

SERVICE ORDER

PO.Number : 3222000268 **Date : 11.05.2023**

Details of service provider
SOLACE RENEWABLE ENERGY PVT LT
20,Kankulia Road
Kolkata
State Name : West Bengal StateCode : 19
GSTIN : 19AAQCS0957H1ZT PAN :
Contact Details :

Other References
Your reference : /
Our Reference : /
RFQ Number :
Contact Person :
Contact Number:

Service provider address
SOLACE RENEWABLE ENERGY PVT LT
20,Kankulia Road
Kolkata
State Name : West Bengal StateCode : 19
GSTIN : 19AAQCS0957H1ZT PAN :
Contact Details :

Billing To Address
Neo Metaliks Limited
Vil & PO Gopalpur,Dist Burdwan
Durgapur 713212
State Name : West Bengal StateCode : 19
GSTIN : 19AABCN8514G1ZE
PAN : AABCN8514G

Sr. No.	Item Code	Description	Unit	HSN / SAC	Ref.No	Quantity	Price / Unit	Dis %	Dis. Amt.	Amount
1		**SERVICE FOR SOLAR POWER**			1222000097					167,100.00
									CGST @ 9.00 %	15,039.00
									SGST @ 9.00 %	15,039.00
Above service line contains below services : -										
	3001985	ITC OF ROOF TOP SPV POWER SYSTEM 10 KWP	SET			1.000	160,800.00			160,800.00
	3001986	ITC OF AUTO CLEANIG OF SVP POWER SYSTEM	SET			1.000	6,300.00			6,300.00

In words : Rupees One Lakh Sixty Seven Thousand One Hundred only	Val.Excl.Tax 167,100.00
In words : Rupees One Lakh Ninety Seven Thousand One Hundred Seventy Eight only	Order Value 197,178.00

Terms & Conditions : -

Header text

A/ SCOPE OF WORK & SERVICES: Scope of work & services shall include broadly the following but not limited to: -

1.0 SOLACE scope of work shall include Supply and Installation of 10 KWp Roof Top Solar Photovoltaic (SPV) Power System (Make: Vikram Solar) including Automatic Cleaning System as mentioned in the detailed Bill of Quantities enclosed as Annexure#I required for the New Admin Block at M/s Neo Metaliks Ltd. Plant Site at Durgapur, West Bengal, as per the delivery schedule indicated in this Order.

2.0 The detailed specification of the SPV Power System is indicated at Annexure-I.

3.0 SOLACE scope of work shall also include procurement of all materials as detailed in the Bill of quantities enclosed as Annexure-I.

4.0 SOLACE shall provide necessary instruments, consumables and facilities for carrying out the Work.

5.0 SOLACE shall obtain all necessary clearance / approval from NML / NML#s Consultant (M/s CBRE South Asia Pvt. Ltd.) as and when required for the execution of the work.

6.0 SOLACE shall provide all the required tools & tackles, consumables, measurement instruments, which are necessary for inspection and testing by NML / NML#s Inspectors.

SAMAPTI SAIN

Prepared By Approved By

NOTE : Please mention order number,Unit of Measurement(UOM),HSN/SAC and A/C head in challan/invoice for faster payment .
Your general conditions of sale/services are not applicable to us .
Your GST registration number should be quoted in your challan/invoice .
Material/Services will be accepted only against submission of copy of Tax invoice.

Annexure- XVI

Report on GHG Inventory, Decarbonization program, company's carbon emissions, carbon sequestration activities and carbon offsetting strategies

for

M/S. NEO METALIKS LIMITED

For the proposed expansion and Upgradation of Pig Iron Manufacturing Plant to a 0.4 MTPA capacity and Inclusion of Steel Melting Shop

Located at -
Gopalpur district Paschim Bardhaman, West Bengal

Report provided by

Applus+ India Private Limited,
Branch office: #116, Ground Floor, West of Chord Road,
Near Fortis Hospital, 1st Block, 2nd Stage, Rajajinagar,
Bangalore 560 086.
Telephone No. 080 - 460 23456

Date - 24-04-2023

Applus+ India Private Limited (hereinafter referred toas CONSULTANT) completed this document on the basis of a defined program of work and terms and conditions agreed with the Client. We confirm that in preparing this Document, we have exercised all reasonable skill and care, taking into account the project objectives, the agreed scopeof work, prevailing site conditions.

The CONSULTANT accepts no responsibility to any parties whatsoever, following the issue of the Document, for any matters arising outside the agreed scope of the work. This document is issued in confidence to the Client and Consultant has no responsibility to any third parties to whom this Document may be circulated, in part or in full, and any such parties rely on the contents of the report solely at their own risk.

Regards,

Dr Abhineet Kr Jha
Product Head- Energy & Sustainability

Applus+ India Private Limited

Contents

Acknowledgement

Applus+ India Private Limited is extremely thankful to M/s. Neo Metaliks Limited for providing us the opportunity to conduct the GHG emission Inventory calculation and preparation of Report on Decarbonization program, company's carbon emissions, carbon sequestration activities and carbon offsetting strategies.

Names	Roles

We express sincere thanks to the **management of Neo Metaliks Ltd.** for extending necessary co-operation and providing relevant information to us for the successful completion of thestudy.

Applus+ India Private Limited looks forward to their continued support in all future endeavours.

Dr Abhineet Kr Jha
Product Head- Energy & Sustainability

Applus+ India Private Limited

A. Project in Brief:

Neo Metaliks Limited (NML), established in 2003 is involved in manufacturing of pig iron using mini blast furnace (MBF) route at Bamunara industrial zone, Paschim Bardhman, West Bengal. The unit has a mini blast furnace of 215 m3 , a sinter plant of 33 m2 and a blast furnace gas fired boiler based Captive Power Plant (CPP) of 4.5 MW since 2006 with pig iron manufacturing capacity of 188000 TPA. The unit has consent to operate from WBPCB letter no. C017468 followed by periodical renewals with validity up to 30.04.2022.

NML was granted Environment Clearance for expansion of the existing plant to an integrated iron and steel plant by adding sinter plant (SP), induction furnace (IF), electric arc furnace (EAF) and bar and rod mill vide File No. F.No. J-11011/779/2007-IA II (I), dt.04.11.2008. The unit obtained consent for establishment from West Bengal Pollution Control Board (WBPCB) for the expansion vide NOC No.73027, dt. 01.04.2010. NML implemented only sinter plant while the remaining facility of Electric Arc Furnace (EAF) and Induction furnace (IF) to manufacture billets and wire rods were not implemented within the validity period of EC.

Subsequently on expiry of the above said environmental clearance, NML proposed the expansion of Pig iron plant and inclusion of sponge iron plant and steel melting shop and rolling mill. Accordingly, obtained Terms of Reference (TOR) from Ministry of Environment Forest and Climate Change (MOEFCC) vide File No. F.No. J11011/779/2007-IA II (I), dt. 27.03.2019, as part of the prior environmental clearance process. The proposed metallurgical activity falls under Schedule 3 (a), Category A "Metallurgical industries (ferrous and nonferrous)" as per EIA Notification, 2006 issued by MOEFCC. The proposal underwent public consultation and the final EIA report was submitted for appraisal at MOEFCC. During the appraisal the honorable EAC (industry – 1) suggested the proponent to reduce the foot print, and accordingly, Neo Metaliks Limited (NML) has revised the capacity to 0.4 MTPA of TMT bars and wire rods.

Purpose of the Study or GHG Analysis for the proposed Project:

Terms of Reference (TOR) has been granted by the Ministry of Environment, Forest and Climate Change (MoEFCC) and in compliance to the same, Project Proponent shall submit a study report on Decarbonization program, which would essentially consist of company's carbon emissions, carbon sequestration activities and carbon 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 monitorable with defined time frames.

B. Total Expected Carbon Emission During Operations phase has been calculated as per the GHG Protocol and the results are:

I. During Operation Phase

- The Study has covered Scope 1, 2 & 3 appropriately and in requirement with the GHG Protocol. Major and most probable source of Carbon emission during the operational phase will be from Fuel Consumption from DG set (Stationary Combustion), Electricity Consumption, Water requirement, Fugitive Emission, Waste Management, Emission from Employee commutation, Vehicle Parking & Associated Facility.
- The total emission of the proposed project during Operational phase is estimated to **be 329848.72 tCO2e/year.**

C. Mitigation Measures

Project Proponent will give more focus on offsetting their carbon emission which are viable and feasible as these areas are under their control like reducing carbon emission from Scope 1 & Scope 2. For Scope 3 several administrative controls and source correction methods will be adopted same is described in chapter 10 of this document.

1. 20 % of the auxiliary load can be switched or substituted to Solar Power Grid
2. If there is provision of open access in West Bengal (*At present West Bengal is not having Open Access to renewable energy; As Central Government has passed the bill and Revised Electricity Rules is getting effective from 1st of April where it is mentioned as a mandatory requirement to switch over to the renewal source of energy, hence state government is bound to establish and operate such provision on immediate note. West Bengal has initiated the same and soon we will have the access to renewable source of energy in West Bengal*). So, Proponent can procure and purchase powerfrom Indian Energy Exchange, so that renewable power can be procured and utilized further it will reduce dependency on conventional power supply or burning of fossil fuels.

3. By doing 3-Tier System Green Belt Development at Proposed Project
4. Purchase of Carbon credit
5. Implementation and establishment of Carbon Sequestration/Afforestation/Reforestation activity. By doing so the Project will offset the entire Carbon Emission generated during construction phase as well as during Annual Operation.
6. Opting Electric Vehicle on behalf of Fossil Fuel Based vehicles will reduce the Carbon Footprint.

D.1 Operation Stage Electricity Consumption

Carbon footprint of the project due to electricity consumption (during operation phase) is very straight forward to estimate. The project's estimated annual energy consumption which includes HVAC, lighting, equipment, services etc., can be reduced by implementing measures like energy efficient lighting, solar PV panels, etc to reduce carbon footprint of the project. The estimated annual energy consumption of the project is referred from the energy calculations for the project.

Electricity consumption per year: 230960640 KWh

Description	Amount of Electricity Consumption	Units	CO_2e (tonnes)
Electricity purchased	230960640	kWh	**196316.54**

D.2.1 Mitigation/offsetting: - Assume if 15-20% of the electricity is substituted by renewable source (Solar) then,

20% of 230960640 KWH = 46192128 KWH of conventional grid electricity can be substituted which will reduce the GHG emission by (X 0.83) = 38339466.24 KgCO2e or **38339.46 tCO2e**.

D.3 GHG emission from Company owned vehicle for employee commutation: -

Assuming 30% of total staff will be commuting by public transport, 30% will be commuting by

car and 40% by bike.

Total emission from the employee commutation per year will be **120 tCO2e.**

D.3.1 Mitigation/offsetting: - Assuming 20% of employees are commuting by company owned EV with the same distance as they suppose to travel otherwise with diesel vehicle.

430 people will be traveling by EV everyday 40 KM per day or 10000 KM per Year and annual CO2 emission will be **0.26 tCO2e.**

So, Contrast that with India, Where the energy mix has 75% coal and 4% with Natural gas.

As per CEA the data indicates that there is marginal carbon dioxide savings with the adaptation of EV. As per CEA data only 7% per Km CO2 saving through Electric vehicle in India.
So, CO2 saving will be 7% of **0.26 tCO2e= 0.018 tCO2e**

D.4.2 Therefore Operation Phase GHG emission after Mitigation is:

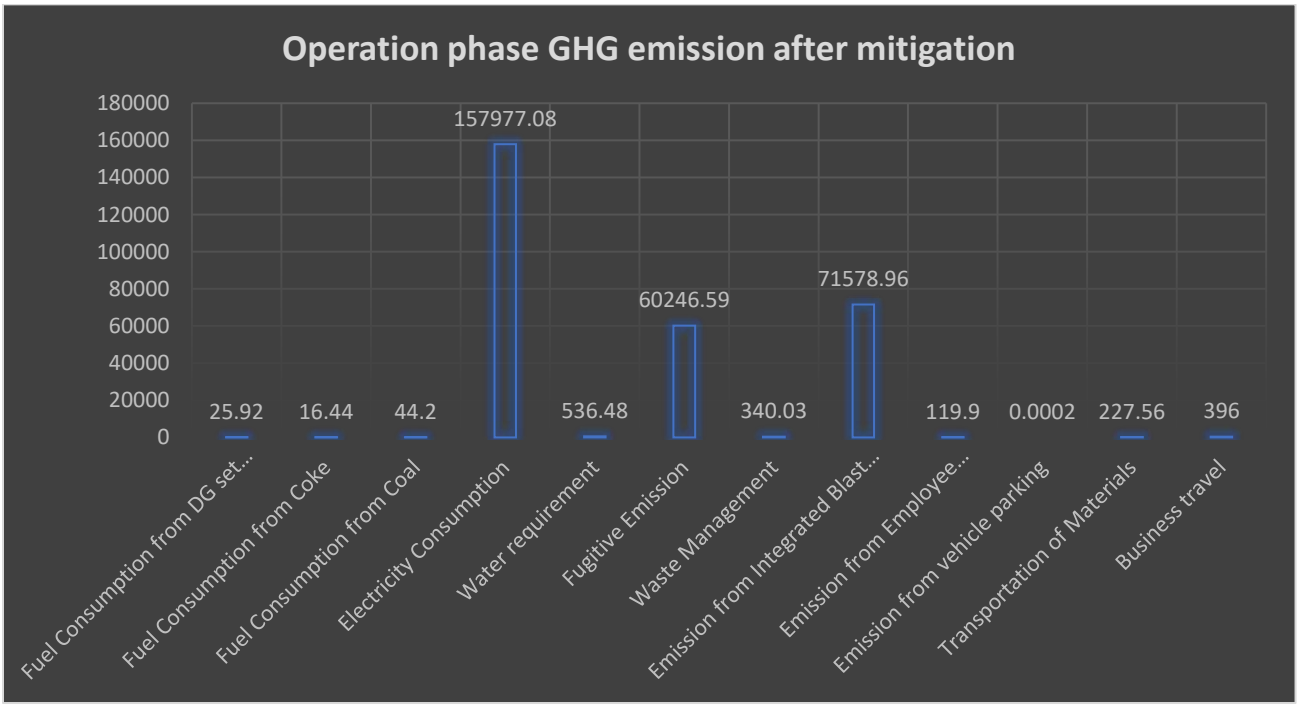
The emission is mainly from electricity consumption during operation. The total emission of the proposed project during operation is Considered after substituting 20% grid electricity with Solar and 30% employee commutation by company owned EV and lifetime emission (Considering operation period of 25 years) **tCO2e.**

Operation phase emission after mitigation- Annual	
Activity	**tCO2e**
Fuel Consumption from DG set (Stationary Combustion):	25.92
Fuel Consumption from Coke	16.44
Fuel Consumption from Coal	44.2
Electricity Consumption	157977.08
Water requirement	536.48
Fugitive Emission	60246.59
Waste Management	340.03
Emission from Integrated Blast Furnace, Sinter Plant	71578.96
Emission from Employee commutation	119.9

Emission from vehicle parking	0.0002
Transportation of Materials	227.56
Business travel	396
Total operation phase GHG Emission	**291509.16**

Total operational GHG emission after mitigation is 291509.16 tCO2e.

Total Lifetime GHG from the said project is assumed to be: 7287729 tCO2



D.5 Mitigation/offsetting BY PLANTATION ONLY: -

To offset the total Operational GHG emission of Neo Metaliks Ltd i.e. **291509.16 tCO2e,** Proponent must plant **780,500 trees** of which will offset total Operational CO_2e emission in **25 years**. Assume 10 different species of age **Zero** and age **one is planted that too with good survival rate or even with moderate survival rate which is having sequestration rate of 3.5 Kg per tree per year in the beginning and then cumulative increase in the sequestration potential of the tree Considering the Height, Trunk Diameter, Age, Growth Rate.**

In this Calculation we have captured the following:

i. Carbon Sequestration by Tree

ii. Litter and Deadwood Biomass Carbon

iii. Soil Carbon.

So, total Operational CO2 emission will be offset in 25 years with 780,500 trees.

D.6 Summary of the Mitigation Measures: -

After Implementing the mitigation measures and adopting sustainable initiatives the carbon emission will get offset as mentioned in the below table:

Sl. No.	Mitigation measures or Initiatives	tCO2e Reduction	tCO2e After the mitigation in
1	Adopting 20% of the electricity by renewable source (Solar) during Operational phase	38339.46	157977.08
2	Assuming 20% of employees are commuting by company owned EV with the same distance as they supposed to travel otherwise with diesel vehicle	0.018	119.9
3	Balance Carbon to Offset	**291509.16** tCO2e	
	Plantation to offset the lifetime Carbon emission of which will offset total lifetime CO_2e in 25 years	76,000.00	215509.16
	a. Farm Forestry through Bamboo Plantation or Suitable Species Plantation/Miyawaki Forestry which has 30% to 35% higher potential to sequestrate the Carbon- 200,000 trees		
	b. Farm Forestry in 450 Acres of Land	90,000.00	125509.16
Or, The Project Proponent can Purchase Carbon Credit to offset their carbon emission. In that case; it is recommended to go for tree plantation for minimum 200000 trees in 25 years which will offset the 76,000.00 tCO2e and rest will get offset by Purchasing Carbon Credit.			

1.0 OVERVIEW

1.1 PURPOSE OF TOOL

This document provides guidance on the estimation of greenhouse gas (GHG) emissions from sources associated with Steel Plant. A companion spreadsheet, available at www.ghgprotocol.com, implements the methods described in this document. Together these documents comprise the 'Iron and steel Tool', one of many calculation tools available under the Greenhouse Gas Protocol Initiative, a joint program of the World Resources Institute and the World Business Council for Sustainable Development. This tool may be used by companies for internal or public reporting needs, or to participate in a GHG program. Like wise GHG programs, including voluntary or mandatory programs and emission trading schemes, may also customize this tool for their program's needs.

This guidance explains best practices for the selection and implementation of emission calculation methods, as well as for the collection, documentation, and quality control of data. It often presents different methods for calculating emissions from single sources so that different users of the Iron and Steel tool may match the rigor and detail of their emission inventory to their needs or goals. The guidance has been structured so that any company, regardless of its experience or resources, should be able to produce reliable estimates of its emissions. In particular, default values for virtually all of the parameters in the methods are supplied so that, at the very least, a company needs only to supply data on production volumes or the amount of fuel consumed, for example.

This tool updates the Corporate Standard's previous guidance for the Sponge Iron sector that was issued in 2002. Major revisions in this update include the provision of methods for specific industrial activities within the overall iron and steel manufacturing process. For example, facilities may now account for the emissions from Direct Reduced Iron and sinter production, as well as coke manufacture. Furthermore, this update includes expanded coverage of stationary combustion sources, such as reheating furnaces, which may contribute significantly to an Iron and Steel facility's overall emissions.

Users of the Sponge and Power Tool and of other tools available under the GHG Protocol Initiative should consult the Corporate Standard (available at www.ghgprotocol.org), which outlines best practices for general GHG accounting issues. In particular, the Corporate Standard explains why Sponge and Power companies need to have clearly set their organizational and operational

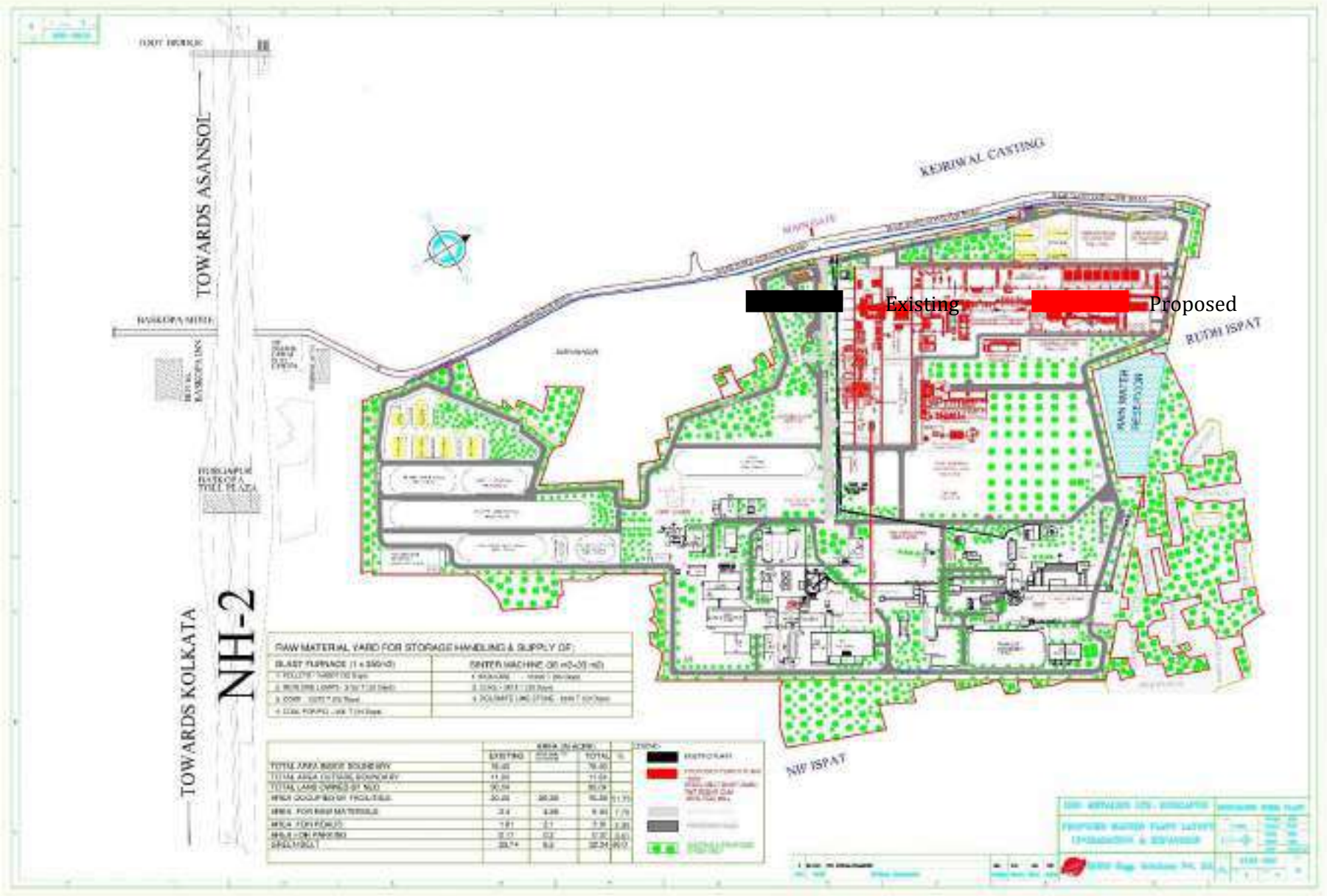
boundaries prior to developing an inventory. Because boundaries constitute a critical issue in GHG accounting that has to be considered prior to the use of this tool, Section 2.0 of this guidance summarizes some basic concepts related to the drawing of boundaries (see Section 2.0). Users should consult the Corporate Standard for further guidance and information.

1.2 DOMAIN OF APPLICATION

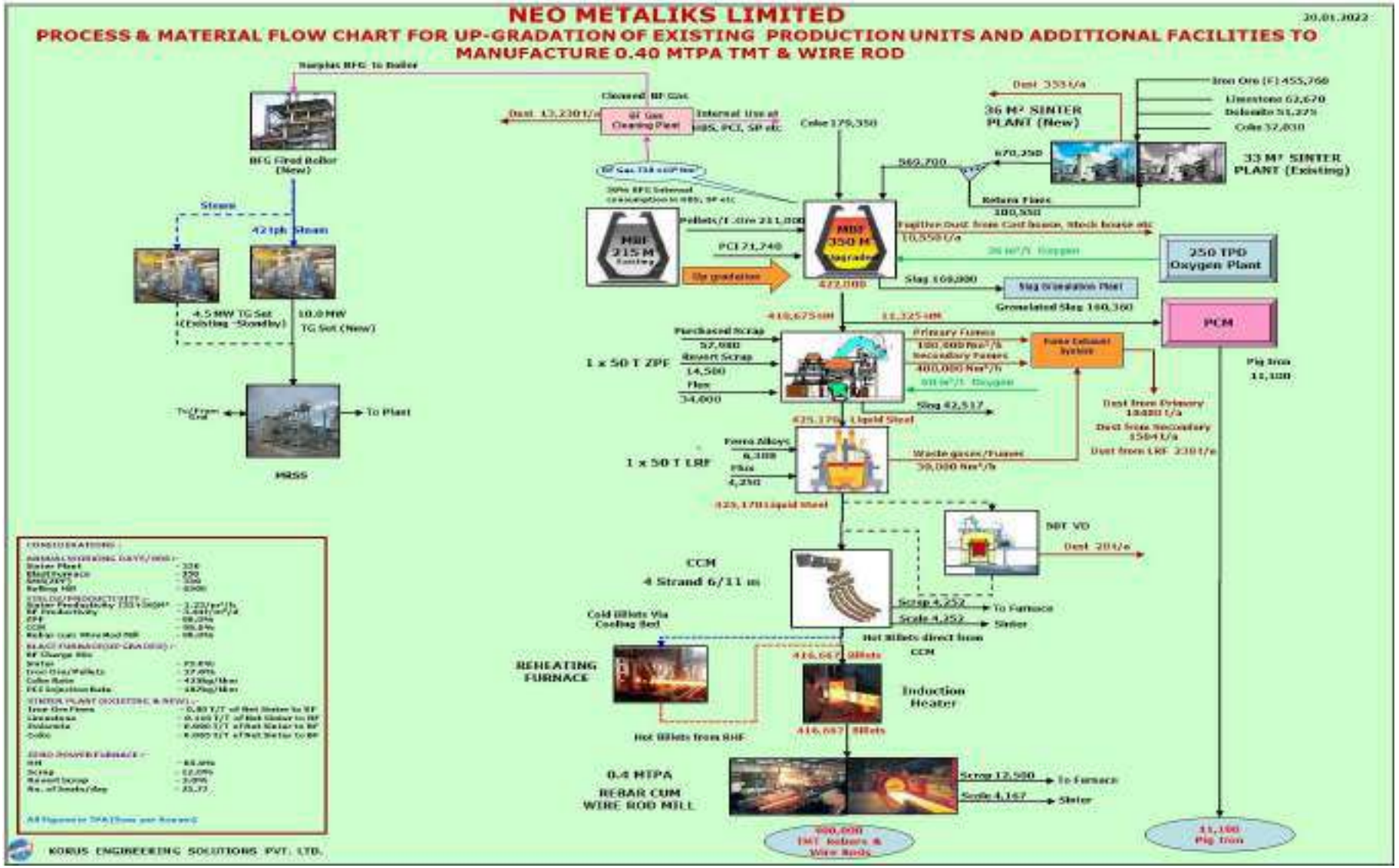
The activity in Steel plant generates carbon dioxide (CO2), methane (CH4), and nitrous oxide (N2O) emissions at various stages during the production process (Figure 2). Although CO2 is easily the main GHG emitted, N2O and CH4 emissions are not necessarily trivial. Hence, the Sponge and Power tool has incorporated methods for each of these three GHGs whenever possible.Figure 1 summarizes the industrial activities and associated GHG emissions that are considered inthis tool.

Please note that this tool does not provide guidance on calculating emissions from transport vehicles ('mobile combustion') or the consumption of purchased electricity, heat and steam. Instead, users interesting in calculating emissions from these sources should consult the relevant tools from the Protocol Initiative's website (www.ghgprotocol.org).

1.3 Proposed Site Layout


TOWARDS ASANSOL
TOWARDS KOLKATA
NH-2
KERIWAL CASTING
RUDH ISPAT
NW ISPAT
Existing
Proposed

Revised Process and Material Flow



2.0 ORGANIZATIONAL & OPERATIONAL BOUNDARIES:

The way organizational and operational boundaries are drawn determines both the sources that are included within an inventory and the emissions from those sources that are reported by a company. Because it is critical that boundaries are consistently and reliably drawn across a company's constituent facilities and units, organizational and operational boundaries are briefly discussed here. Users are strongly encouraged to consult the Corporate Standard for further guidance.

2.1 ORGANIZATIONAL BOUNDARIES

For corporate inventories, the exact accounting of the emissions from a source depends on whether that source is wholly owned, a joint venture, subsidiary, or other legal entity. The Corporate Standard provides two approaches for determining how such accounting should be undertaken.

I. Equity share approach

A company reports the percentage GHG emissions from a source that mirrors the percentage financial ownership that company has in the source. One exception relates to fixed asset investments: whenever a company owns only a small part of the shares of a source and does not exert significant financial control, the company does not account for that source's emissions.

II. Control Approach

A company reports 100% of the emissions from sources over which it has control. Two alternative criteria can be used to define control:

(a) Financial control. A company exerts financial control over the source if it can direct both the financial and operating policies of the source with a view to gaining economic benefits from such activities.

(b) Operational control. A company has operational control over a source if it has the full authority to introduce and implement its operating policies and practices at the source.

The Corporate Standard encourages companies to use both the equity share approach and a control approach when reporting under voluntary schemes. However, contractual arrangements might determine the ownership of and reporting requirements for GHG emissions, and various other factors might influence the choice of an approach, including:

Liability and risk management. In assessing risk the equity share and financial control approaches might be most appropriate choices.

Management information and performance tracking. The control approaches would allow managers to be held accountable for activities under their control.

Completeness of reporting. Companies may find it difficult to provide matching records or lists of financial assets as proof that sources are correctly accounted for under the operational control approach.

Once an appropriate approach has been determined it should be consistently applied across all of the facilities and units under the control of the reporting company.

2.2 OPERATIONAL BOUNDARIES

Having established its organizational boundaries, a company is then able to establish the scope (or 'operational boundaries') of an emissions source. Robustly defined operational boundaries will help a company better manage the full spectrum of GHG risks and opportunities that exist along its value chain. In particular, the use of scopes helps companies meet the reporting requirements of corporate reporting programs, voluntary GHG registries, and other GHG programs.

Emissions fall under one of three scopes. Scope 1 emissions are 'direct'; that is, they stem from sources that are owned or controlled by the reporting company. Scopes 2 and 3 refer to 'indirect' emissions that originate from sources that are controlled by third parties, but that are nonetheless related to the activities of the reporting company. Scope 2 emissions stem from the consumption of purchased electricity, and Scope 3 emissions from all other indirect sources, notably the third party transport of raw materials.

Scope 2 emissions are not considered in this document, although Scope 3 emissions from the production of coke and of limestone and dolomite are. Otherwise, the methods in this tool pertain to Scope 1 emissions.

3.0 METHODOLOGIES

3.1 INTRODUCTION

Tiers

Many of the methods described in this document are categorized as belonging to one of three tiers. Typically the equations underlying a method do not change amongst tiers. Instead, the values of the parameters forming those equations do, and tiers differ in how much those values are representative of the activities of the reporting company. As the tier level increases from Tier 1 to Tier 3 the values become more specific to the reporting company, leading to greater accuracy in the emissions calculations. A tier system is used here to emphasize the advantages of collecting and using facility-specific information, and to distinguish between the different sets of default factors that are available for some methods (e.g., both Tier 1 and Tier 3 default emission factors are offered for reheating furnaces).

- Tier 1: Tier 1 methods estimate emissions by multiplying production data, such as the volume of fuel used or steel produced, by an industry-specific default emission factor. Tier 1 defaults are supplied for all of the methods in the Iron and Steel Tool, where appropriate.

- Tier 2: Tier 2 methods require data that are less general. For instance, a Tier 2 emission factor might reflect the typical industrial practices within a specific country, whereas a Tier 1 factor constitutes a global default value. Facility-specific data are not considered Tier 2. Tier 2 data might be available from national statistical agencies or industry associations.

- Tier 3: Tier 3 methods require facility-specific data, such as the composition of the fuel combusted at a facility, or the specific types of technologies employed at a facility.

Facilities should ensure that only a single method is used to calculate the emissions from a single source so as to help avoid the double counting of emissions. Particular care should be exercised when fuels have dual energy and process uses, as might happen with blast furnace gases, sinter off gases and coke oven gasses, which, although the product of industrial processes, can also be used to

supply energy to industrial processes. Companies are recommended to use the most accurate method possible given the data they have at hand.

Differences between CO_2 and CH_4/N_2O

The recommended methods for calculating CO_2 emissions often differ from those for N_2O and CH_4 emissions. This is because CO_2 emissions are largely determined by the carbon contents of the consumed materials, whereas N_2O and CH_4 emissions are much more influenced by the combustion or emission control technologies employed by the industrial apparatus. Consequently, CO_2 emissions are best determined using a material balance approach that tracks the flow of carbon through the industrial process, whereas N_2O and CH_4 emissions are best determined using equipment or process-specific emission factors. The methods in this guidance will treat CO_2 separately from N_2O and CH_4.

N_2O is only considered by this tool in relation to stationary combustion sources. This is because the N_2O emissions from the industrial processes specific to the Iron and Steel sector are assumed to be negligible.

Global Warming Potentials

The Global Warming Potential (GWP) of a greenhouse gas is a measure of how much a given mass of that gas contributes to global warming. GWPs are given on a relative scale that compares the gas in question to carbon dioxide, whose GWP is therefore 1.0. Over a 100 year time horizon the GWP of CH4 is 21, whereas that of N_2O is 310 (IPPC Second Assessment Report).

In this tool the emissions of each greenhouse gas are multiplied by a relevant GWP to determine the potential impacts on global warming of these emissions. The product of this multiplication is given in units of CO_2-equivalents (metric tones CO_2-e.). The spreadsheet program that accompanies this guidance allows facilities to calculate both the absolute emissions of individual GHGs and their CO_2-equivalency.

3.2 STATIONARY COMBUSTION

Stationary combustion emissions account for roughly half of the overall emissions from an Iron and Steel company and include CO_2, CH_4, and N_2O emissions. Stationary combustion sources belong to four main types:

1. Electricity generation; e.g., captive power plant boilers
2. Re-heating furnaces (other coal and oil use); e.g., mill sections
3. Coke production

Description	Fuel	Amount of Fuel (quantity)	CO_2e (tonnes)
Diesel consumption in DG set	**Diesel**	10800 L/year	25.92
Total Coke consumption per year	**Coke**	139400 kg/year	16.44
Total coal consumption per year	**Coal**	44.2 tons/year	44.2

Carbon emissions from Stationary Combustion for proposed project will be from Diesel and Coal consumption which is **86.56 CO2e (tonnes).**

3.3 ELECTRICITY CONSUMPTION

Carbon footprint of the project due to electricity consumption (during operation phase) is very straight forward to estimate. The project's estimated annual energy consumption which includes HVAC, lighting, equipment, services etc., can be reduced by implementing measures like energy efficient lighting, solar PV panels, etc to reduce carbon footprint of the project. The estimated annual energy consumption of the project is referred from the energy calculations for the project.

Electricity consumption per year from State Electricity Board: 35.38 MW or 230960640 kwh.

Description	Amount of Electricity Consumption	Units	CO_2e (tonnes)
Electricity purchased	230960640	kWh	**196316.54**

The total GHG of the project will produce approx. 196316.54 tCO2e/yr.

3.4 WATER REQUIREMENT

Water is required for Industrial process as well as for Domestic purpose. So, per day Water requirement is 5295 KLD. Therefore, Water requirement per year is 1800300 KL.

Description	Material Used	Amount of Material Used	CO_2e (tonnes)
Water	Domestic	1800300 KL	**536.48**

Total water consumption after expansion is 1800300 KL per year and total GHG emission is 536.48 tCO2e/ Year.

3.5 FUGITIVE EMISSION

The total fugitive emission from refrigerant, fire extinguisher and STP plant is considered and assumed to be as:

Emission From Fire Extinguisher:

Total built up area	**78.4 Acre or 317273.54 m2**
Number of extinguishers required (1 per 100m^2) *As per Chapter 4 of the National Building Code and IS 2190- Guideline for First Aid Type Fire Extinguishers*	3172
Each extinguisher is of 4.5 kg weight	14274
Leakage emission kg	1570.14

Emissions from fixed systems are assumed to be 2.5 percent (0.025) of the total capacity of the units for each gas. Emissions from portable equipment are assumed to be 3.5 percent (0.035) of the total capacity of the units for each gas.

Emission From Refrigerant Leakage:

Approx. 1000 kg of refrigerant will be required for maintaining the ambient temperature inside the facility or the Plant,

As per IIR 5% leakage is considered considering all engineering as well as the administrative control including timely or Planned Preventive maintenance, hence total minimum leakage will be 50 Kg and total GHG emission from the HVAC system to meet the requirement and needs of project will be 133.02 tCO2e.

From STP:

Project requirement is approx. 462400 KL and assuming total GHG emission from the STP will be 60,112 tCO2e per year.

TOTAL FUGITIVE EMISSION

Description	Amount of Consumption	Units	**CO_2e (tonnes)**	EF ($kgCO_2e$/kg or litter)
Fire extinguisher	1570.14	Kilogram (kg)	1.57	1
Refrigerant	50	Kilogram (kg)	133.02	2660.46
STP	462400	KL	60112	0.13 tCO2
Total			**60246.59**	

Total Fugitive emission = 60246.59 tCO2e/ Year.

3.6 WASTE MANAGEMENT

During the operation phase, the solid waste generated from the project shall be approx. 680 TPA and Waste Oil 100.3 KLPA.

S. No.	**Description**	**Norms (TPA/KLPA)**	**tCO2e**
1.	Solid waste	680	340
2.	Waste oil	100.3 KL	0.03
Total			340.03

Total Waste Management = 340.03 tCO2e/ Year.

3.7 GHG EMISSION FROM INTEGRATED BLAST FURNACE AND SINTER PLANT

There is direct Carbon emission from the integrated Blast Furnace, Sinter Plant and SMS.

Description	Amount of Consumption	Units	CO_2e (tonnes)
Blast Furnace	1169.6	TPA	1578.96
Sinter Plant	350000	TPA	70000
Total			**71578.96**

Therefore, the total GHG emission from Integrated plants are 71578.96 CO2e (tonnes) per year.

3.8 EMISSION FROM EMPLOYEE COMMUTATION:

During the operation phase, the total population of the proposed project is estimated to be 1200 persons.

Assuming 30% of total staff will be commuting by public transport, 30% will be commuting by car and 40% by bike.

Total emission from the employee commutation per year will be 120 tCO2e/Year.

VEHICLE PARKING & FACILITY

Adequate provision will be made for car/vehicle parking at the project site. There shall also be adequate provision for visitors parking so as not to disturb the traffic and allow smooth movement at the site. Parking details are provided below:

Parking Proposed:

Area proposed (taking 2% of the total area) for transport truck and employee vehicle parking = 6345 m^2

CO_2 emissions per second during the parking process when the running speed of the vehicle is 0 km/h is 0.046 tCO2.

Hence emission from parking is assumed to be 0.0002 tCO_2e per 40 vehicles at a time in parking.

Area	Type	Area per parking required m2	CO2 emissions per second during the parking process when the running speed of the vehicle is 0 km/h (g).	Average Time (s)	Carbon Emissions (g)	Total Carbon Emissions (g) per parking	Total number of car/Trucks in entire area	Total Carbon Emissions (t)
6345 Sq. m	Forward-park in	15	0.046	80	3.68	5.98	40	0.0002
	Forward-drive out	15	0.046	50	2.3			

Business Travel by employees/staffs for work purpose

Assuming 30% of total employee will be having business travel and hotel stay at least 15 times a year and generating 396 tCO2e/Year.

So, the total carbon emission is 396 tCO2e/Year

3.9 EMISSION FROM TRANSPORTATION OF MATERIALS

Carbon footprints through transportation of raw material is also very important factor in the whole picture. Projects emissions due to transportation vary depending on selection of material, distance between extraction and/or manufacturing unit and project site, etc. Furthermore, the project of this size has variation in carbon footprints of the same material, because of availability of the material from the same supplier is uncertain during the whole construction duration. Travelling distance, mode of transportation & type of fuel used for transportation are other major factors associated with carbon emission.

3.8.1 Assumptions

As a general practice, Raw materials are transported from the supplier to the site by trucks. The trucks run on diesel, this is the most common mode of transport and fuel type. Hence, it is not feasible to consider it as base case and proposing any other mode of transport with the efficient one. Where ever possible the material will be sourced from local or nearest located manufacturer.

Material & Supplier	Distance to the site in Km	EF	Mode of Transport (Plant to Site)	KgCO2e
Iron Ore	170	0.22989	Truck	39.08
Coke	30	0.22989	Truck	6.89
Lime	200	0.22989	Truck	45.97
Dolomite	560	0.22989	Truck	128.73
Quartzite	30	0,22989	Truck	6.89
TOTAL				**227.56**

Therefore, total GHG emission from Transportation of materials will be 227.56 CO2 (tonnes) Per year.

4.0 TOTAL GHG EMISSION DURING OPERATION PHASE

The emission is mainly from Electricity Consumption.

Operation phase emission- Annual	
Activity	**tCO2e**
Fuel Consumption from DG set (Stationary Combustion):	25.92
Fuel Consumption from Coke	16.44
Fuel Consumption from Coal	44.2
Electricity Consumption	196316.54
Water requirement	536.48
Fugitive Emission	60246.59
Waste Management	340.03
Emission from Integrated Blast Furnace, Sinter Plant	71578.96
Emission from Employee commutation	120
Emission from vehicle parking	0.0002
Transportation of Materials	227.56
Business travel	396
Total operation phase GHG Emission	**329848.72**

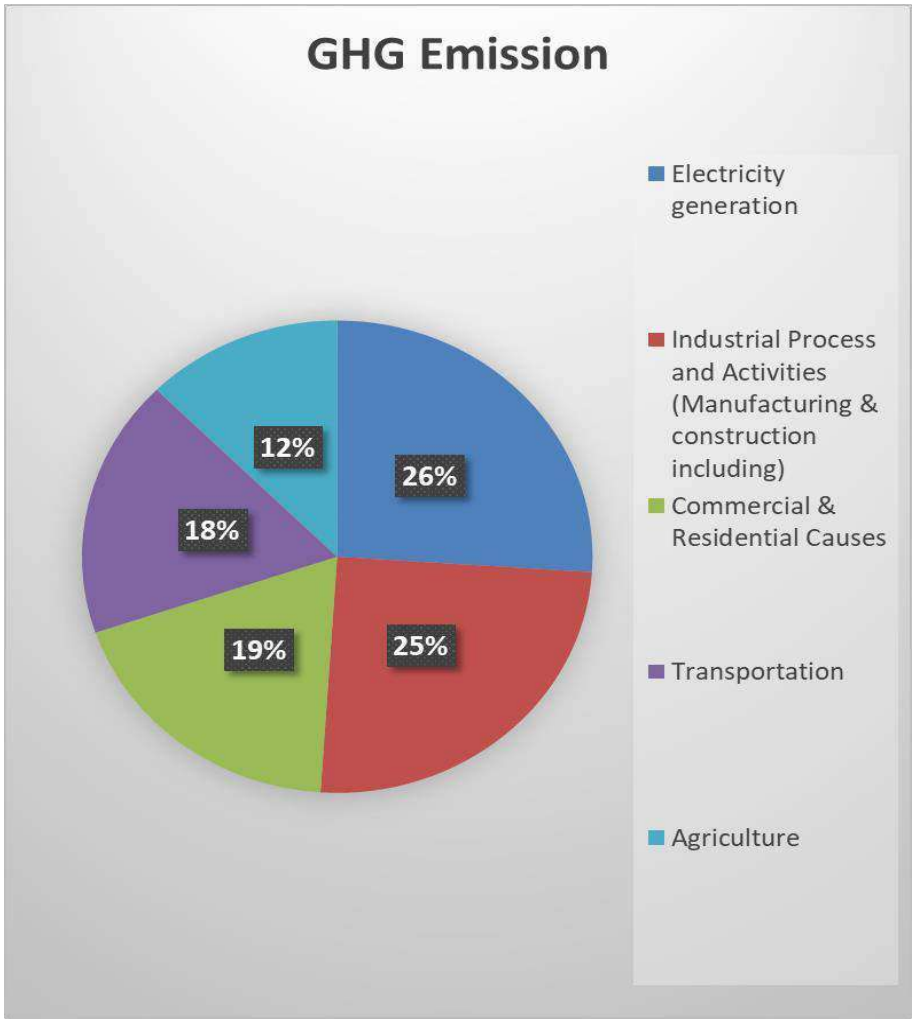

Operation phase GHG emission
250000
200000
150000
100000
50000
0
25.92
16.44
44.2
196316.54
536.48
60246.59
340.03
71578.96
120
0.0002
227.56
396
Fuel Consumption from DG set (Stationary...
Fuel Consumption from Coke
Fuel Consumption from Coal
Electricity Consumption
Water requirement
Fugitive Emission
Waste Management
Emission from Integrated Blast Furnace,...
Emission from Employee commutation
Emission from vehicle parking
Transportation of Materials
Business travel

Appendix I. Unit Conversion Ratios

Mass			
1 pound (lb)	453.6 grams (g)	0.4536 kilograms (kg)	0.0004536 metric tons (tonne)
1 kilogram (kg)	2.205 pounds (lb)		
1 short ton (ton)	2'000 pounds (lb)	907.2 kilograms (kg)	
1 metric ton	2'205 pounds (lb)	1'000 kilograms (kg)	1.1023 short tons (tons)
Volume			
1 cubic foot (ft^3)	7.4805 gallons (gal)	0.1781 barrel (bbl)	
1 cubic foot (ft^3)	28.32 liters (L)	0.02832 cubic meters (m^3)	
1 gallon (gal)	0.0238 barrel (bbl)	3.785 liters (L)	0.003785 cubic meters (m^3)
1 barrel (bbl)	42 gallons (gal)	158.99 liters (L)	0.1589 cubic meters (m^3)
1 litre (L)	0.001 cubic meters (m^3)	0.2642 gallons (gal)	
1 cubic meter (m^3)	6.2897 barrels (bbl)	264.2 gallons (gal)	1'000 liters (L)
Energy			
1 kilowatt hour (kWh)	3412 Btu (btu)	3'600 kilojoules (KJ)	
1 megajoule (MJ)	0.001 gigajoules (GJ)		
1 gigajoule (GJ)	0.9478 million Btu (million btu)	277.8 kilowatt hours (kWh)	
1 Btu (btu)	1'055 joules (J)		
1 million Btu (million btu)	1.055 gigajoules (GJ)	293 kilowatt hours (kWh)	
1 therm (therm)	100'000 btu	0.1055 gigajoules (GJ)	29.3 kilowatt hours (kWh)
Other			
Kilo	1'000		
Mega	1'000'000		
Giga	1'000'000'000		
Tera	1'000'000'000'000		
1 psi	0.06895 bar		
1 kgf / cm^3 (tech atm)	0.9807 bar		
1 atmosphere (atm)	1.01325 bar	101.325 kilo pascals	14.696 pounds per square inch (psia)
1 mile (statue)	1.609 kilometers		
1 metric ton CH_4	21 metric tons CO_2 equivalent*		
1metric ton N_2O	310 metric tons CO_2 equivalent*		
1 metric ton carbon	3.664 metric tons CO_2		

5.0 WHAT CAUSES CARBON EMISSIONS?

- The effects of carbon emissions are apparent to even the most ignorant person these days, as everyone knows the world has gotten hotter over the years.
- We have only climate change to blame for this and considering that the IPCC estimates 76% of greenhouse gases to be carbon emissions, it's fair to say that a substantial part of the blame for climate change goes to carbon emissions.
- But where exactly is carbon emitted from? What are the root causes of an ever-warming planet (the statistics reveal that our planet was 35% hotter in 2018 than in 1990).



6.0 Summary of Mitigation Measures

Project Proponent will give more focus on offsetting their carbon emission which are viableand feasible as these areas are under their control like reducing carbon emission from Scope 1 & Scope 2. For Scope 3 several administrative controls and source correction methods will be adopted same is described in chapter 10 of this document.

7. 20 % of the auxiliary load can be switched or substituted to Solar Power Grid
8. If there is provision of open access in West Bengal (*At present West Bengal is not having Open Access to renewable energy; As Central Government has passed the bill and Revised Electricity Rules is getting effective from 1st of April where it is mentioned as a mandatory requirement to switch over to the renewal source of energy, hence state government is bound to establish and operate such provision on immediate note. West Bengal has initiated the same and soon we will have the access to renewable source of energy in West Bengal*) so Proponent can procure and purchase power from Indian Energy Exchange, so that renewable power can be procured and utilized further it will reduce dependency on conventional power supply or burning of fossil fuels.
9. By doing 3-Tier System Green Belt Development at Proposed Project
10. Purchase of Carbon credit
11. Implementation and establishment of CarbonSequestration/Afforestation/Reforestation activity. By doing so the Project will offset the entire Carbon Emission generated during construction phase as well as during Annual Operation.
12. Detailed Carbon Sequestration Plan has been explained in Chapter 7, where

    - Duration of Offsetting generated carbon or GHG Emission has been described;
    - Year wise carbon offsetting is calculated
    - Investment Cost as per the capital cost is calculated,
    - Carbon Sequestration Budgeting and Social Returns from the Green BeltDevelopment have been calculated

7.0 GREEN BELT DEVELOPMENT PLAN

7.1 Greenbelt / Plantations Program:

Greenbelt means planting of special type of plants suitable to that particular agroclimatic zone and soil characteristics in a place which will make the area cooler, reduce air pollution, prevent soil erosion and further improve the soil fertility status. A green belt around the periphery of boundary and road side will be created to avoid erosion of soil, prevention of landslides, minimize the air pollution and noise pollution in the project area. The green plants are capable of absorbing air pollutants and forming sinks for pollutants. Leaves with their vast area in a tree crown, absorb pollutants on their surface, effectively reducing their concentration and noise level in the ambient.

According to the CPCB guide line there are 15 Agroclimatic regions, each of these regionis further divided in to 68 sub zones based on annual rain fall, Climatic condition and soil types. The species recommended for the Greenbelt are quite adopted to such Climatic condition and grow well in the above soil types.

Existing Green Belt

A greenbelt development plan will be prepared and implemented along with the implementation of project. Total green belt & plantation area shall be 5.10 Acres. i.e.33% of total project area. The main objective of the greenbelt is to provide a barrierbetween the plant and the surrounding areas. The species selection will depend upontype of soil and local species with good survival rate will be selected. Total landavailable is 0.59 Acres for the proposed project. This land is sufficient for the setup ofthe facility for the Ferro alloys plant. 0.19 Acres land has been earmarked for greenbeltas per standard norms, which is 33.33 % of total plot area.

Proposed Green Belt

Extensive green belt development will be started during the construction phase, which will continue till the operation of the plant. About 2500-3000 trees will be planted per hectare all around the plant, approach roads and township premises. Locally available types of trees which are resistant to pollutants will be planted. In addition to above, all open spaces available within the premises will be developed as nursery, park, gardens

and other forms of greenery. 5 m wide greenbelt will be developed along the plant

premises, as per land available. A nursery will be developed where 100,000 saplings will be raised every year for plantation purpose. Apart from greenbelt, extensive lawns, gardens and approach road-side plantation will be carried out at all vacant spacesinside the plant premises.

6.0.1 Guidelines & Techniques for Green Belt Development:

Extensive survey in the project area was undertaken to observe the structure and composition of vegetation. Hence a combination of plant is selected depending upon the topographical suitability and species selected as per SPCB Guideline. The soil characteristics were kept in mind. Based on this survey and environmental conditions suitable native plants species have been proposed for green belt development plan. Plantation along roads must take into account visibility aspects on curves so as to ensure safe driving. Plantation will be done in a three tier system consisting of large trees, smaller trees and shrubs, Whereas some grasses and floweringplants are grown on lawns and garden.

1. First layer consisting of shrubs and grasses.
2. Second layer consisting of smaller trees.
3. Third layer consisting of Large trees.

6.1 Development of Green Belt:

The plantation matrix adopted for the green belt development includes pit of 0.3 m x
0.3 m size with a spacing of 2 m x 2 m. In addition, earth filling and manure may also berequired for the proper nutritional balance and nourishment of the sapling. It is also recommended that the plantation has to be taken up randomly and the landscaping aspects could be taken into consideration. Multi-layered plantation comprising of medium height trees (7 m to 10 m) and shrubs (5 m height) are proposed for the green belt. In addition, creepers will be planted alongthe boundary wall to enhance its insulation capacity.

Greenbelt is a set of rows of trees planted in such a fashion, to create effective barrier between the project and surroundings. The greenbelt helps to capture the fugitive emissions, attenuate the noise levels in the existing project and simultaneously improving aesthetics of the surroundings. The greenbelt around the industry wall will be developed in keeping view of the following objectives.

i. Planting of trees in each row will be in staggered pattern.
ii. The short trees will be planted in the first rows and the tall trees in the outerrows around the purview of the project site.
iii. Since the trunks of the trees are generally devoid of foliage, it will be useful tohave shrubs in front of the trees so as to give coverage to this portion.
iv. Sufficient spacing will be maintained between the trees to facilitate effectiveheight of the greenbelt.
v. Plants of native origin, fast growing type with canopy and large leaf indexshall be preferred.

6.3 Selection of Plant Species for Green Belt Development:

The selection of plant species for the development depends on various factors suchas climate, elevation and soil. The plants would exhibit the following desirable characteristics in order to be selected for plantation.

1. The species should be fast growing and providing optimum penetrability.
2. The species should be wind-firm and deep rooted.
3. The species should form a dense canopy.
4. As far as possible, the species should be indigenous and locally available.
5. Species tolerance to air pollution like SO_2 and NO_2 should be preferred.
6. The species should be permeable to help create air turbulence andmixing within the belt.
7. There should be no large gaps for the air to spill through.
8. Trees with high foliage density, leaves with larger leaf area and hairyon both the surfaces.
9. Ability to withstand conditions like inundation and drought.
10. Soil improving plants (Nitrogen fixing rapidly decomposable leaf litter).
11. Attractive appearance with good flowering and fruit bearing.
12. Bird and insect attracting tree species.
13. Sustainable green cover with minimal maintenance.

Table No. 1: Tree species selected for Greenbelt as per CPCB

TYPE	Botanical Name	Common Name
SCHEDULES OF TREES		
T1	Caesalpinia pulcherrima	Krushnachuda
T2	Peltophorum ferrugineum	Radhachuda
T3	Mesua feria	Nageswar
T4	Azadirachta indica	Neem
T5	Millingtonia hortensis	Akash neem
T6	Calophyllum inophyllum	Polango
T7	Saraca indica	Ashok
T8	Pongamia glabra	Karanja
T9	Michelia champaca	Champa
T10	Mimusops elengi	Bakul
T11	Morus australis	Tuta
T12	Thespesia populnea	Umbrella tree
T13	Aegle marmelos	Bela
T14	*Mangifera indica*	Mango
T15	*Phyllanthus emblica*	Amla
T16	*Psidium guava*	Guava
T17	*Tamarindue indica*	Tentuli
T18	*Sanmanea saman*	Bada chakunda
T19	*Syzygium cumini*	Jamu
T20	*Alstomia scholaris*	Chatina
T21	*Leucaena leucocephala*	Su Babul
T22	*Annona squamosa*	Sitaphala
T23	*Saraca asoca*	Ashoka
SCHEDULES OF LARGE SHRUB		
S1	*Thevetia peruviana*	Kaniar
S2	*Ervatamia divaricata*	Tagar
S3	*Hibiscus chinensis*	Mandar
S4	*Nerium oleander*	Karabik
S5	*Murraya exotica*	Kamini
S6	*Cassia fistula*	Sunari
S7	*Spathodea campanulata*	Mysore green
S8	*Cestrum nocturnum*	Hena
S9	*Bouhaminvilla spectalillis*	Kagaj phool

Table No. 2: Big Tree species selected for Greenbelt

SL.No.	*Common name*	*Scientific name*
1	*Arjun, Arjuna*	*Terminaliaarjuna*
2	*Ashwatha*	*Ficusreligiosa*
3	*Akashmoni*	*Acacia moniliformis*
4	*Aam*	*Mangiferaindica*
5	*Bot*	*Ficusbenghalensis*
6	*Chatim*	*Alstoniascholaris*
7	*Debdaru*	*Polyalthialongifolia*
8	*Ghoranim*	*Meliaazedarch*
9	*Jhaun*	*Casuarinaequisetifolia*
10	*Jarul*	*Lagerstroemia speciosa*
11	*Karanj*	*Derris indica*
12	*Krishnachura*	*Caesalpiniapulcherrima*
13	*Nim*	*Azadirachtaindica*
14	*Pakur*	*Ficusinfectoria*
15	*Radhachura*	*Delonixregia*

6.4 Preparation for Seedlings:

6.4.1 To undertake plantation on site, following steps will be taken:

i. Obtaining Healthy seedlings from nursery
ii. Preparation of pits and preparing them for transfer of seedlings
iii. Take care of seedlings after plantation in pits

6.4.2 Pit and Soil Preparation:

i. The pit size has been recommended as 45 cm x 45 cm x 45 cm for trees and

ii. 30 cm x 30 cm x 30 cm for shrubs.
iii. The spacing for trees is proposed 2 m while 1 m for shrubs plantation.
iv. The pits should be watered prior to plantation of seedlings.

6.4.3 Post Care Facilities:

i. The growing plants are cared at least for the first 3 years under favourable condition of climate and irrigation.
ii. For healthy and vigorous growth adequate nutrient will be supplied.
iii. To avoid water stress condition regular watering will be done.

6.4.4 Recommended plants for different environmental concerns.

Plantation for arresting dust

Trees particularly having compact branching closely arranged leaves of simple elliptical andhairy structure, shiny or waxy leaves and hairy twigs are efficient filters of dust. The followingspecies are suggested to arrest the dust

- Alstonia Scholaris
- Bauhinia purpurea
- Cassia siamea
- Peltoferrum ferrugineum
- Butea monosperma
- Tamarindus indica
- Azadirachta indica

Plantation to absorb SO2 emissions

The following plants are suggested for plantation to absorb SO2 in the air.

- Azadirachta indica
- Albizia lebbeck
- Alstonia scholaris

- Lagerstroemia flosregineae
- Melia azedarach
- Minusops elangi
- Poloyalthia longifloia

Plantation to reduce noise pollution

Trees having thick and flushy leaves with petioles are suitable. Heavier branches and trunksof trees also deflect the sound waves. The following plant species are suggested to reduce noise pollution.

- Alstonia scholaris
- Azadirachta indica
- Melia monosperma
- Grevillea peridifolia
- Tamarindus indica
- Greavillea robusta

Plantation along the roads (Avenue plantation)

- Alstonia scholaris
- Cassia fistula
- Bauhinia purpurea
- Mimusops elangi
- Pongamia pinnata
- Polyalthia longifolia
- Poluferrum ferrugineum
- Lagerstroemia flosreginea
- Cassia siame

7.2 Carbon Sequestration

Green belt area in an industry has positive impact on local climate, this aspect is often disregarded because their ecosystem services are not well understood or quantified. Trees actas sinks for carbon dioxide by fixing carbon during photosynthesis and storing carbon as biomass (Carbon sequestration). The net long-term carbon dioxide source/sink dynamics of green belt area change through time as trees grow, get pruned, die and decay. Trees in green belt areas sequester and store carbon as they grow. Thus, green belt influence local climate, carbon cycles, energy use and climate change.

Carbon Sequestration by trees

Carbon Sequestration is basically withholding carbon in some safe form (biomass) other than the gaseous form as long as possible. This process efficiently moves the carbon into a reservoir preventing it from circulating in a cyclic manner (Carbon cycle). The carbonabsorbing potential is high in the initial stages of plant growth, when growth rate is high and it declines towards the plants maturity. Carbon sequestration potential of the green belt was estimated using methods prescribed by Ravindranath and Ostwald (2008) in CarbonInventory Methods: Handbook for Greenhouse Gas Inventory, Carbon Mitigation and Roundwood Production Projects.

Litter and Deadwood Biomass Carbon

Dead organic matter consists of deadwood and litter. Inclusion of dead organic matter pool makes the estimated changes in total carbon stock more accurate. Most of the biomass that are not harvested or burnt is added to the deadwood, litter and soil carbon pools. Litter and deadwood organic matter may account for about 10% of total carbon stocks in forests and tree plantations. The following equation is used to calculate litter and deadwood biomass carbon.

Soil Carbon

Soil is the largest reservoirs of carbon. Flow of carbon between soil and the atmosphere is a continuous process, highly influenced by land use and management. Soil organic carbon is also often referred to as 'soil organic matter'. Soil organic carbon is defined as 'the organic carbon in mineral soils to a specific depth chosen, also including live and dead fine roots within the soil'. Soil organic carbon is a critical carbon pool for majority of land-use categories and afforestation, reforestation, land reclamation, grassland management, shelterbelt and agro- forestry projects. Stocks of organic carbon in soil vary with land-use systems. The share of soil organic carbon in the total carbon stock may vary from 50% to 84% in the forests. Carbon stocks in soils are fairly stable under undisturbed conditions. The concentration of organic carbon in soil is the highest in topsoil.

Organic matter plays a vital role in the productivity and conditioning of soils. It serves as a source of food for soil bacteria and fungi which are responsible for converting complex organic materials into simple substances readily used by the plants. The intermediate products of decomposition of fresh organic matter help to improve the physical conditions of the soil. The addition of organic matter also improves the working quality or of the soil. In association with clay and calcium, it helps to form the aggregates of soil particles to produce the crumb structure. It also serves as mulch.

Soil Organic Carbon: The organic matter present in the soil is digested with excess of potassium dichromate and sulphuric acid and residual unutilized dichromate is the nitrated with ferrous sulphate, after determination of organic carbon.

1 gram of sieved soil was transferred into a 500mL conical flask and set aside for digestion for 30 minutes, with a mixture of 10mL of 1N $K_2Cr_2O_7$ solution and 20mL conc. H_2SO_4. 150mL of distilled water and 5 drops of Di-phenyl amine were added. The mixture was titrated against 0.5N FAS solution to the end point. A reagent blank was carried out in asimilar manner without soil.

7.3 Plan for Carbon Sequestration

Total Amount of Green House Gas generated from the Proposed Project can be offsetted or sequestrated by scientific forestation /afforestation/reforestation which can be done outside the plant or at any geographical location as per feasibility and suitability like HimachalPradesh, Arunachal Pradesh and even Amazon Forest and this green belt will offset the GreenHouse Gases which will emit from the Proposed Industrial unit during operational phase.

The carbon stock change is the sum of changes in stocks of all the carbon pools in a given areaover a period of time, which could be averaged to annual stock changes. The carbon pools identified in the green belt area are above- ground biomass, below-ground biomass, Litter andDeadwood biomass and soil organic carbon in the form of Pit method plantation, Miyawaki method plantation and future green belt development area.

Often overlooked in favour of larger carbon-capturing trees, shrubs and hedgerows can also play an important role in increasing the carbon capture capabilities of a piece of land. As permanent, perennial features of an agricultural landscape, or a garden, shrubs and hedges arevital to carbon conscious land management. The wider and spread hedge, the more carbon it will generally sequester.

Although their size is small but when we consider about the number of these small plants theyhave potential and significant role in carbon storage as they do photosynthesis where plants use sunlight, water, and carbon dioxide to produce oxygen and energy in the form of sugar; It takes six molecules of CO_2 to make every molecule of glucose, and this basic building block is then used for energy and to make the structure of the plant itself. This biochemical reaction isthe same for all plants, hence they are storing Carbon.

Plantation activities will be carried out while keeping environmental aspects as top priority,

- Plantation need to be done in a scientific manner and within defined area,
- Plantation must not be done with single species as planting of single species have several negative aspects such as:
    - Loss of soil fertility

  - Loss to ecosystem
  - Plant will keep consuming similar nutrients and minerals from the soil and further lead to loss of soil quality
  - If a microbial, fungal or other infection occur in that ecosystem then it will destroy all the plant

- Plantation will be done in diversified manner as compare to monoculture to make it more efficient and lead advanced type or scientific forest
- Plantation will not include only taller and longer plants, but also multiple type of small vegetation, hedge, ground vegetation, fencing plants etc
- Survival Factors and Annual Carbon Sequestration Rates for Common Trees shall be analysed first before selection of species and plantation in that particular and specific geographical location.
- Plantation will be done with species having more basal area, fast growth rate, hard wood and strong soil holding capacity

The Detail of the Sequestration plan is as below:

Sl. #	Speices Characteristic			Tentative Life Span	Tree Age (sapling age) at the time of Plantation	Number of Age 'Zero' Trees Planted	Survival Factor	No. Surviving Trees	Total Carbon Sequestered (in lbs)	Carbon Sequestration Conversion Rate to CO2	Total CO2 emission Sequestered (in lbs of CO2)	Total CO2 emission Sequestered in kg. (@ 1 lbs = 0.454 kg)	Total CO2 emission Sequestered in kg. (@ 1 kg. = 0.001 MT)
	Name	Tree Type (H or C)	Growth Rate (S/M/F)										
1	Jamun (Syzygium cumini)	C	F	More than 25 years	1	10000	0.798	7980	3848754	3.67	14124927	6412717	6413
2	Mango (Mangifera indica)	H	F	More than 25 years	0	25000	0.873	21825	14443785	3.67	53008691	24065946	24066
3	*Debdaru (Polyalthialongifolia)*	H	F	More than 25 years	0	11000	0.873	9603	6362947.8	3.67	23352018	10601816	10602
4	*Arjun (Terminaliaarjuna)*	C	F	More than 25 years	1	11000	0.798	8778	4233629.4	3.67	15537420	7053989	7054
5	Ashoka (Saraca asoca)	H	F	More than 25 years	0	13000	0.873	11349	7519847.4	3.67	27597840	12529419	12529
6	Bot (Ficusbenghalensis)	C	F	More than 25 years	1	16000	0.798	12768	6158006.4	3.67	22599883	10260347	10260
7	*Karanj (Derris indica)*	H	F	More than 25 years	0	11000	0.873	9603	6362947.8	3.67	23352018	10601816	10602
8	Hena (Cestrum nocturnum)	C	F	More than 25 years	1	10000	0.798	7980	3848754	3.67	14124927	6412717	6413
9	Sunari (Cassia fistula)	H	F	More than 25 years	0	11000	0.873	9603	6362947.8	3.67	23352018	10601816	10602
Source of this chart: Method for Calculating Carbon Sequestration by Trees in Urban and Suburban Settings by US Department of Energy, April 1998													*60664*

Sequestration in Year 1		Sequestration in Year 2		Sequestration in Year 3		Sequestration in Year 4		Sequestration in Year 5		Sequestration in Year 6	
Annual Carbon Sequestration Rate (lbs/tree)	Carbon Sequestered(in lbs)	Annual Carbon Sequestration Rate (lbs/tree)	Carbon Sequestered (inlbs)	Annual Carbon Sequestration Rate (lbs/tree)	Carbon Sequestered(in lbs)	Annual Carbon Sequestration Rate (lbs/tree)	Carbon Sequestered(in lbs)	Annual Carbon SequestrationRate (lbs/tree)	Carbon Sequestered(in lbs)	Annual Carbon Sequestration Rate (lbs/tree)	Carbon Sequestered(in lbs)
2.2	17556	3.1	24738	4.1	32718	5.2	41496	6.4	51072	7.6	60648
4	87300	5.4	117855	6.9	150592.5	8.5	185512.5	10.5	229162.5	11.8	257535
4	38412	5.4	51856.2	7.6	72982.8	8.1	77784.3	10.1	96990.3	11.8	113315.4
2.2	19311.6	3.1	27211.8	4.1	35989.8	5.2	45645.6	6.4	56179.2	7.6	66712.8
4	45396	5.4	61284.6	7.6	86252.4	8.1	91926.9	10.1	114624.9	11.8	133918.2
2.2	28089.6	3.1	39580.8	4.1	52348.8	5.2	66393.6	6.4	81715.2	7.6	97036.8
4	38412	5.4	51856.2	7.6	72982.8	8.1	77784.3	10.1	96990.3	11.8	113315.4
2.2	17556	3.1	24738	4.1	32718	5.2	41496	6.4	51072	7.6	60648
4	38412	5.4	51856.2	7.6	72982.8	8.1	77784.3	10.1	96990.3	11.8	113315.4

Sequestration in Year 7		Sequestration in Year 8		Sequestration in Year 9		Sequestration in Year 10		Sequestration in Year 11		Sequestration in Year 12	
Annual Carbon Sequestration Rate (lbs/tree)	Carbon Sequestered (in lbs)	Annual Carbon Sequestration Rate (lbs/tree)	Carbon Sequestered (in lbs)	Annual Carbon Sequestration Rate (lbs/tree)	Carbon Sequestered (in lbs)	Annual Carbon Sequestration Rate (lbs/tree)	Carbon Sequestered (in lbs)	Annual Carbon Sequestration Rate (lbs/tree)	Carbon Sequestered (in lbs)	Annual Carbon Sequestration Rate (lbs/tree)	Carbon Sequestered (in lbs)
8.9	71022	10.2	81396	11.7	93366	13.2	105336	14.7	117306	16.3	130074
13.6	296820	15.5	338287.5	17.4	379755	19.3	421222.5	21.3	464872.5	23.3	508522.5
13.6	130600.8	15.5	148846.5	17.4	167092.2	19.3	185337.9	21.3	204543.9	23.3	223749.9
8.9	78124.2	10.2	89535.6	11.7	102702.6	13.2	115869.6	14.7	129036.6	16.3	143081.4
13.6	154346.4	15.5	175909.5	17.4	197472.6	19.3	219035.7	21.3	241733.7	23.3	264431.7
8.9	113635.2	10.2	130233.6	11.7	149385.6	13.2	168537.6	14.7	187689.6	16.3	208118.4
13.6	130600.8	15.5	148846.5	17.4	167092.2	19.3	185337.9	21.3	204543.9	23.3	223749.9
8.9	71022	10.2	81396	11.7	93366	13.2	105336	14.7	117306	16.3	130074
13.6	130600.8	15.5	148846.5	17.4	167092.2	19.3	185337.9	21.3	204543.9	23.3	223749.9

Sequestration in Year 13		Sequestration in Year 14		Sequestration in Year 15		Sequestration in Year 16		Sequestration in Year 17		Sequestration in Year 18	
Annual Carbon Sequestration Rate (lbs/tree)	Carbon Sequestered(in lbs)	Annual Carbon Sequestration Rate (lbs/tree)	Carbon Sequestered(in lbs)	Annual Carbon Sequestration Rate (lbs/tree)	Carbon Sequestered(in lbs)	Annual Carbon Sequestration Rate (lbs/tree)	Carbon Sequestered(in lbs)	Annual Carbon Sequestration Rate (lbs/tree)	Carbon Sequestered(in lbs)	Annual Carbon Sequestration Rate (lbs/tree)	Carbon Sequestered(in lbs)
17.9	142842	19.6	156408	21.4	170772	23.2	185136	25	199500	26.9	214662
24.4	532530	27.5	600187.5	29.7	648202.5	31.9	696217.5	34.1	744232.5	36.3	792247.5
24.4	234313.2	27.5	264082.5	29.7	285209.1	31.9	306335.7	34.1	327462.3	36.3	348588.9
17.9	157126.2	19.6	172048.8	21.4	187849.2	23.2	203649.6	25	219450	26.9	236128.2
24.4	276915.6	27.5	312097.5	29.7	337065.3	31.9	362033.1	34.1	387000.9	36.3	411968.7
17.9	228547.2	19.6	250252.8	21.4	273235.2	23.2	296217.6	25	319200	26.9	343459.2
24.4	234313.2	27.5	264082.5	29.7	285209.1	31.9	306335.7	34.1	327462.3	36.3	348588.9
17.9	142842	19.6	156408	21.4	170772	23.2	185136	25	199500	26.9	214662
24.4	234313.2	27.5	264082.5	29.7	285209.1	31.9	306335.7	34.1	327462.3	36.3	348588.9

Carbon Sequestration Budgeting and Social Returns from the Green Belt Development

Sl. #	Items	Figure	Units						Total Social Returns
1	Number of jamun trees	10000	in numbers	Considering a price increase of 5% pa over base year					
2	Jamun trees per acre	85	in numbers						
3	Area of land required	117.6470588	Acre						
4	Income per acre	180,000	Rs./acre						
5	Income from total area	21176470.59	Rs.						
		2.117647059	**in Crores of Rs.**						**101.0691504**
6	**Investment**	**0.1**	**in Crores of Rs.**						
7	**Wealth Created for the Community (Social Returns) during the Sequestration Period less Investment**	**101**	**in Crores of Rs.**						

Source of this calculation: https://www.agrifarming.in/jamun-cultivation-income-alla-neredu-project-report#:~:text=Generally%2C%20if%20we%20follow%20spacing%20of%207%20%C3%97,be%20done%20with%20the%20help%20of%208%20labors.

Sl. #	Items	Figure	Units		Year 1	Year 2	Year 3	Year 4
1	Number of jamun trees	10000	in numbers	Considering a price increase of 5% pa over base year				
2	Jamun trees per acre	85	in numbers					
3	Area of land required	117.6470588	Acre					
4	Income per acre	180,000	Rs./acre					
5	Income from total area	21176470.59	Rs.					
		2.117647059	**in Crores of Rs.**		2.117647059	2.223529412	2.334705882	2.451441176

Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13
2.574013235	2.702713897	2.837849592	2.979742072	3.128729175	3.285165634	3.449423916	3.621895111	3.802989867

Year 23	Year 24	Year 25	Total Social Returns
6.19466976	6.504403248	6.82962341	**101.0691504**

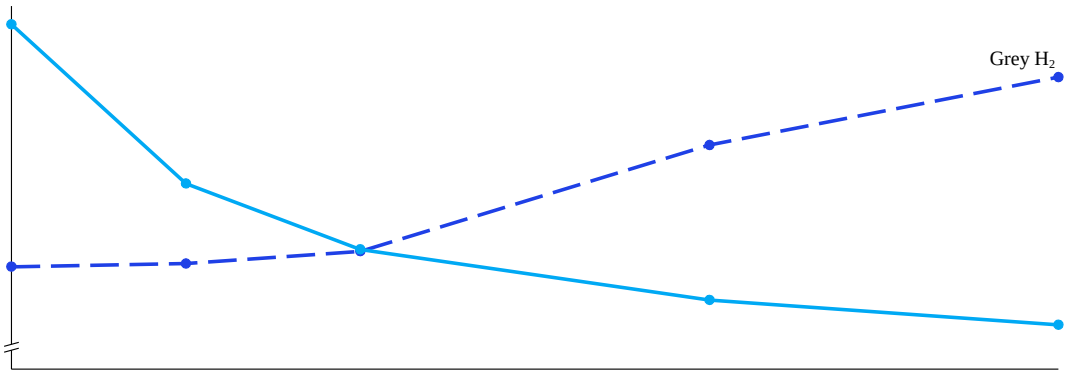
Green hydrogen- based steel production as an option to reduce Carbon Emission

Although hydrogen is one of the most abundant elements on earth, in its pure form it is rare. Extracting hydrogen from its compounds requires a lot of energy. Although these energy sources can be diverse, the most popular hydrogen production method is carbon dioxide intensive. Most of the world's hydrogen production consists of "grey hydrogen," produced via steam methane reforming (SMR), which forms both hydrogen and carbon dioxide. In contrast, the term "blue hydrogen" is reserved for hydrogen production that involves carbon capture and usage or the storage of emitted carbon dioxide. Additionally, the electricity- intensive electrolysis of water is yet another process for producing hydrogen and is the only carbon-neutral technique (provided that renewable energy sources can be used); this is known as "green hydrogen."

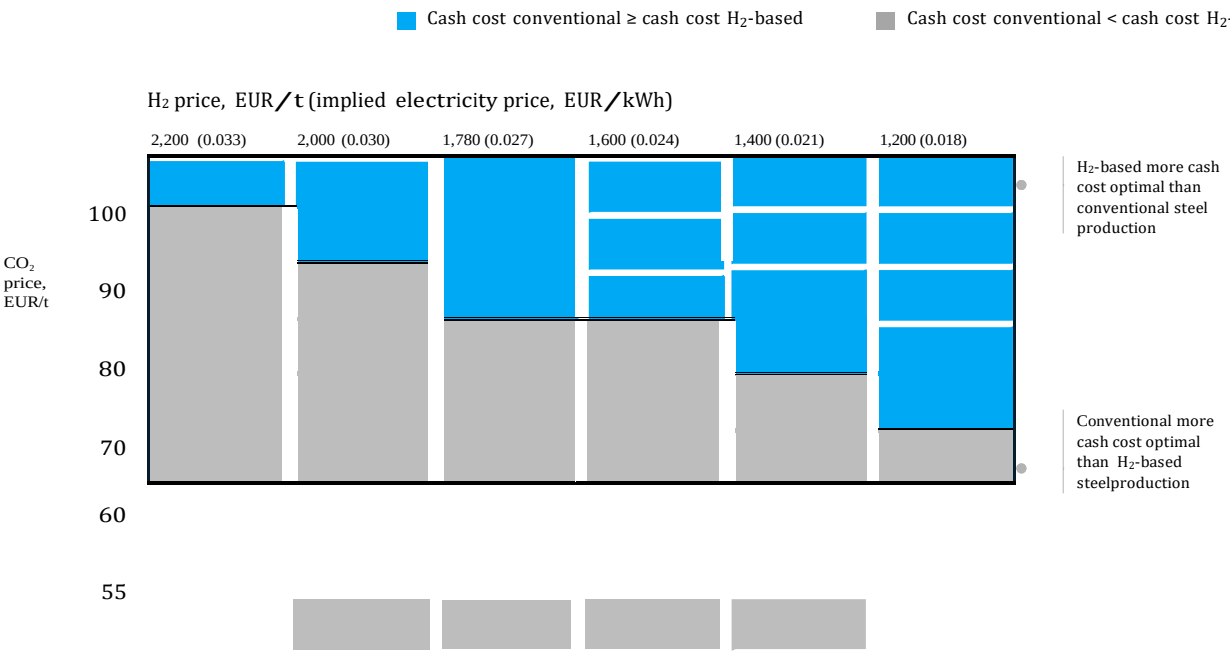
There are generally two ways to use (green) hydrogen in steel production. First, it can be used as an alternative injection material to PCI, to improve the performance of conventional blast furnaces. Although the use of PCI is common, the first pilot plants using hydrogen injection have recently been set up to assess decarbonization potential. However, while the injection of (green) hydrogen into blast furnaces can reduce carbon emissions by up to 20 percent, this does not offer carbon-neutral steel production because regular coking coal is still a necessary reductant agent in the blast furnace.

Second, hydrogen can be used as an alternative reductant to produce DRI that can be further processed into steel using an EAF. This DRI/EAF route is a proven production process that is currently applied using natural gas as a reductant, for example by players in the Middle East with access to a cheap natural gas supply. However, the direct reduction process can also be performed with hydrogen. Based on the use of green hydrogen as well as renewable electricity from wind, solar, or water, a DRI/EAF setup enables nearly carbon-neutral steel production.

H2 price development, Germany, EUR/kg H2



Sensitivity analysis of cash cost, excluding depreciation (for H_2 and CO_2 only)



SOURCE: McKinsey hydrogen-based steel model

Appendix II

Emission factors used:

Category	Scope 1,2 & 3 source	Comments
S1	Stationary combustion	Calculated based on the weight data with using each EF numbers https://www.climatiq.io/explorer?search https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2019
	Fugitive emissions from air-conditioning, STP, & Fire Extinguisher.	Calculated based on the spend data https://www.climatiq.io/explorer?search https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2019
S2	Purchased electricity	Grid Average/Location Based CEA data
S3	Business travel	Based on business travel data (car, train, flights) https://www.epa.gov/sites/production/files/2020-04/documents/ghg-emission-factors-hub.pdf https://ghgprotocol.org/calculation-tools, UK Government GHG Conversion Factors for Company Reporting - 2021
	Material Use-Quantity Method	https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2019

	Employee commuting	Using land & sea distances for volumes of Goods sold https://ghgprotocol.org/calculation-tools, UK Government GHG Conversion Factors for Company Reporting - 2021
	Hotel Stay	https://www.epa.gov/sites/production/files/2020-04/documents/ghg-emission-factors-hub.pdf https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2019
	Employee commuting	https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2019

8.0 References:

- International Panel on Climate Change (IPCC).(2006). IPCC guidelines (2006) for national greenhouse gas inventories (Volume 1 - 5).Institute for global environmental strategies, Hamyama, Japan.
- Karthikeyan S. 2017. Discover Avenue tress – A Pocket Guide. EcoEdu Consultants
  - Pvt Ltd, Shanakarapuram, Bengaluru. 1-119.
- Kavitha A, N. Deepthi, R. Ganesan and S. C. Gladwin Joseph. 2012. Common Dryland Trees of Karnataka. Ashoka Trust for Research in Ecology and the Environment (ATREE), Royal Enclave, Srirampura, Jakkur, Bengaluru. 1 –
  - 266.
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- ShilajaRavindranath and SudhaPremnath. 1997. Biomass Studies – Field methods for monitoring biomass. Oxford and IBH Publishing Co. Pvt. Ltd, Culcutta, New Delhi. 1-206.
- Walkley, A. and I. A. Black. 1934. Method for determining soil organic matter and aproposed modification of the chromic acid titration method. Soil Sci. 37: 29

Annexure- XVII

EMERGENCY PREPAREDNESS & RESPONSE PLAN APPLICABLE TO

NEO METALIKS LIMITED

DURGAPUR

The Emergency Preparedness & Response Plan (EPRP) is a controlled copy and detailing all the contents enacted in the Table of contents. This plan is an effort to control the emergency situations effectively in Operational area of Sinter, Mini Blast furnace and Captive Power. Success of this EPRP depends upon the co-operation of the management, employee, neighboring industries and the local administration.

This Emergency Preparedness & Response Plan explains the code of conduct of all personnel in the plant premises along with the actions to be carried out in case of an Emergency. This plan gives the guidelines for employees, contractors, transporters, etc. It not only defines responsibilities but also informs about the prompt rescue operations, evacuations, rehabilitation, co-ordination and communication.

Prepared by

Manager- SHE

Approved by

Plant Head

S No	TABLE OF CONTENTS	PAGE NOS
1	Plant Introduction & Location	
2	Climate	
3	Introduction on Emergency Preparedness & Response Plan (EPRP)	
4	Definition	
5	Basic Objectives Of Emergency Preparedness & Response Plan (EPRP)	
6	Essential Elements Of The Emergency Preparedness & Response Plan (EPRP)	
7	Equipments, Installations, Arrangements And Communication Facilities	
8	Emergencies	
a.	Fire	
b.	Explosion	
c.	Release of Toxic Gases	
d.	Earthquake	
e.	Hurricane	
f.	Riots & War	
g.	Bomb Threats	
h	Blackouts	
i	First Aid & other Medical Emergencies	
g	Epidemic Disease (COVID 19)	
9	Measures taken in Anticipation	
10	Preventive Measures To Avoid Accidents And Emergency Situations	
11	Response Plans from Fire	
a.	Non Electric Fire	
b.	Fire in Generator	
c.	Fire in Panel Board	
12	Medical & Other Resources	
13	List Of Outside Emergency Services	
15	List Of Fire Fighting Trained Personnel In The Factory	
16	List Of Fire Extinguishers Positioned In Factory	
17	List Of Fire Hydrant System Positioned In Factory	
18	List Of First Aid Trained Personnel In The Factory	
19	Emergency Responsibilities	
20	Emergency Control Centre (ECC)	
21	Emergency Controller (Management Representative)	
22	Emergency Coordinator (Health & Safety Representative)	
23	Works Main Controller	
24	Works Incident Controller	
25	Fire & Safety Coordinator	
26	Medical Coordinator	
27	Security Coordinator	

neo metaliks ltd.

#ThinkNewThinkneo

ENVIRONMENTAL POLICY

Neo Metaliks recognises and vouches to balance its business activities in accordance with environmental conservation. Rigorously adhering to environmental regulations in all facets of our business operations, we work to maintain and enhance our level of environmental management. We aim to achieve the balance between our business activities and environmental conservation by taking the initiative for environmental conservation programmes, the protection of the biodiversity in the vicinity of our operation, the sustainable use of natural resources in our operational locations and the reduction of waste. Neo Metaliks simultaneously educates all its workers, suppliers, and the neighbourhood to promote environmental awareness and establish a more eco-friendly society.

1st April 2023

Director

MANAGEMENT SYSTEM CERTIFICATE

Certificate no.:
10000478589 -MSC -UKAS -IND

Initial certification date:
10 November 2021

Valid:
10 November 2021 – 09 November 2024

This is to certify that the management system of

Neo Metaliks Limited

HO: 71, Park Street, 6th.Floor, 6F North Block, Kolkata - 700016, West Bengal, India

and the sites as mentioned in the appendix accompanying this certificate

has been found to conform to the Environmental Management System standard:

ISO 14001:2015

This certificate is valid for the following scope:

Manufacture of pig iron through mini blast furnace

Place and date:
Chennai, 10 November 2021

For the issuing office:
DNV - Business Assurance
ROMA, No. 10, GST Road, Alandur,Chennai - 600 016, India

UKAS MANAGEMENT SYSTEMS 0013

Sivadasan Madiyath
Management Representative

Certificate no.: 10000478589 -MSC -UKAS -IND
Place and date: Chennai , 10 November 2021

Appendix to Certificate

Neo Metaliks Limited

Locations included in the certification are as follows:

Site Name	Site Address	Site Scope
Neo Metaliks Limited	Site: P.O.: Gopalpur, Via: Durgapur, Burdwan - 713212, West Bengal, India	Manufacture of pig iron through mini blast furnace
Neo Metaliks Limited	HO: 71, Park Street, 6th.Floor, 6F North Block, Kolkata - 700016, West Bengal, India	Providing Marketing, Purchase and Human Resource services.

MANAGEMENT SYSTEM CERTIFICATE

Certificate no.:
10000478590 -MSC -UKAS -IND

Initial certification date:
15 November 2021

Valid:
15 November 2021 – 14 November 2024

This is to certify that the management system of

Neo Metaliks Limited

HO: 71, Park Street, 6th.Floor, 6F North Block, Kolkata - 700016, West Bengal, India

and the sites as mentioned in the appendix accompanying this certificate

has been found to conform to the Occupational Health and Safety Management System standard:

ISO 45001:2018

This certificate is valid for the following scope:

Manufacture of pig iron through mini blast furnace

Place and date:
London, 15 November 2021

For the issuing office:
DNV - Business Assurance
4th Floor, Vivo Building, 30 Stamford Street,
London, SE1 9LQ, United Kingdom

Erie Koek
Management Representative

Certificate no.: 10000478590 -MSC -UKAS -IND
Place and date: London, 15 November 2021

Appendix to Certificate

Neo Metaliks Limited

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Neo Metaliks Limited	Site: P.O.: Gopalpur, Via: Durgapur, Burdwan - 713212, West Bengal, India	Manufacture of pig iron through mini blast furnace
Neo Metaliks Limited	HO: 71, Park Street, 6th.Floor, 6F North Block, Kolkata - 700016, West Bengal, India	Providing marketing, purchase and human resource services

Annexure- XIX

THE TIMES OF INDIA- Dt. 08.06.2022

PUBLIC NOTICE

PUBLIC NOTICE
ENVIRONMENT CLEARANCE

It is hereby informed that the Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, Aliganj, New Delhi-110003, has accorded Environmental Clearance for the proposed Expansion and Upgradation of Pig Iron Manufacturing Plant to a 0.4 MTPA Capacity and Inclusion of Steel Melting Shop in the existing premises of M/s. Neo Metaliks Limited at Gopalpur,Durgapur,Pa schim Bardhaman,West Bengal,vide letter dated 02.06.2022, EC Identification No-EC22A008WB167040[F.No. J-11011/779/2007-IA.II(I)] under the provision of EIA Notification dated 14th September 2006.The copy of Environment Clearance letter is available on website of MoEF&CC (PRAIVESH) - http://moef.nic.in/ http://environmentclearance.nic.in/

EI SAMAY (Bengali-Vernacular Daily) Dt. 08.06.2022

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THE ESTATE OFFICER

Annexure- XX

Park Plaza, 71 Park Street, GF, North Block, Kolkata - 700 016
Tel.: + 91 33 4050 4059, Fax: + 91 33 2217 7317, E-mail: info@neometaliks.com
Website: www.neometaliks.com, CIN: U27109WB2003PLC097231

Date:06-06-2022

To
The District Magistrate
Paschim Bardhhaman
West Bengal

Sub: Display of Environment Clearance (EC) of Neo Metaliks Ltd for 30 days.
Ref: Govt of India, Ministry of Environment, Forest & Climate Change (MoEF&CC), vide F. No: IA-J11011/779/2007-IA.II(I), Dated-01/06/2022, as per EC, Miscellaneous Condition No. X(ii).

Respected Sir,

We, Neo Metaliks Limited are the leading Pig Iron manufacturer having its manufacturing units 215M^3 Blast Furnace, Sinter plant and Captive Power Plant at P.O + Vill- Gopalpur, Durgapur, Bamunara Industrial area. We would like to inform you that, M/s Neo Metaliks Ltd, Gopalpur, Durgapur-12, District - Paschim Bardhhaman, West Bengal has been granted Environment Clearance (EC) vide letter no. F. No. IA-J-11011/779/2007-IA. II(I), Dated - 01/06/2022 for expansion and upgradation of Pig Iron Manufacturing Plant to 0.4 MTPA capacity and inclusion of steel melting shop from Ministry of Environment, Forest & Climate Change (MoEF&CC) under the provision EIA notification 2006.
Please find enclosed the copy of EC (Environment Clearance) granted to M/s Neo Metaliks Ltd., which required to be displayed in your good office Notice Board for 30 days from the date of receipt as per EC, miscellaneous condition no. X(ii).

Submitted for your kind perusal.

Thanking you,

Yours faithfully,

NEO METALIKS LTD. Gopalpur, Durgapur-12

(Sanjay Kumar Jha)
DGM Commercial & Factory Manager
Mobile No:8420009968

Office of the District Magistrate & Collector
RECEIVED
06.06.22
Content Not Verified
Paschim Bardhaman

Enclosure: Copy of Environment Clearance (EC) accorded from Ministry of Environment, Forest & Climate Change (MoEF&CC), vide F. No: IA-J11011/779/2007-IA. II(I), Dated-01/06/2022.

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Tel.: + 91 33 4050 4050, Fax: + 91 33 2217 7317, E-mail: info@neometaliks.com
Website: www.neometaliks.com, CIN: U27109WB2003PLC097231

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Paschim Bardhhaman
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Tel.: + 91 33 4050 4050, Fax: + 91 33 2217 7317, E-mail: info@neometaliks.com
Website: www.neometaliks.com, CIN: U27109WB2003PLC097231

Date:06-06-2022

To
Office of Sub-Divisional Magistrate
City Centre
Durgapur,
West Bengal

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NEO METALIKS LTD. * Durgapur-12 *

(Sanjay Kumar Jha)
DGM Commercial & Factory Manager
Mobile No:8420009968

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4001
7 JUN 2022

Factory Address : 9B, Gopalpur, P.O. : Gopalpur Via Durgapur - 12, Dist. : Burdwan, West Bengal, PIN - 713212

Park Plaza, 71 Park Street, 6F, North Block, Kolkata - 700 016
Tel.: +91 33 4050 4050, Fax: +91 33 2217 7317, E-mail: info@neometaliks.com
Website: www.neometaliks.com, CIN: U27109WB2003PLC097231

To
The Block Development Officer
Kanksa Block
District- Paschim Bardhhaman
West Bengal

Date:06-06-2022

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Yours faithfully,

Factory Manager
For NEO METALIKS LTD.
Gopalpur, Durgapur-12

(Sanjay Kumar Jha)
DGM Commercial & Factory Manager
Mobile No:8420009958

RECEIVED
- 8 JUN 2022
CONTENTS NOT VERIFIED
Kanksa Panchayat Samiti, Paschim Bardhaman

Enclosure: Copy of Environment Clearance (EC) accorded from Ministry of Environment, Forest & Climate Change (MoEF&CC), vide F. No: IA-J11011/779/2007-IA. II(I). Dated-01/06/2022.

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Tel.: + 91 33 4050 4050, Fax: + 91 33 2217 7317, E-mail: info@neometaliks.com
Website: www.neometaliks.com, CIN: U27109WB2003PLC097231

ISO 9001:2015

To
The Prodhan
Gopalpur Gram Panchayat
P.O. & Vill- Gopalpur
District- Paschim Bardhhaman
West Bengal

Date:06-06-2022

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Please find enclosed the copy of EC (Environment Clearance) granted to M/s Neo Metaliks Ltd., which required to be displayed in your good office Notice Board for 30 days from the date of receipt as per EC, miscellaneous condition no. X(ii).

Submitted for your kind perusal.

Thanking you,

Yours faithfully,

Factory Manager
For NEO METALIKS LTD.
Gopalpur, Durgapur-12

(Sanjay Kumar Jha)
DGM Commercial & Factory Manager
Mobile No:8420009968

Enclosure: Copy of Environment Clearance (EC) accorded from Ministry of Environment, Forest & Climate Change (MoEF&CC), vide F. No: IA-J11011/779/2007-IA. II(I), Dated-01/06/2022.

Gram Panchayat of Gopalpur P.O.-Gopalpur P.S.-Kanksa Dist. Paschim Burdwan

Received
6-6-2022

Park Plaza, 71 Park Street, 6F, North Block, Kolkata - 700 016
Tel.: + 91 33 4050 4050, Fax: + 91 33 2217 7317, E-mail: info@neometaliks.com
Website: www.neometaliks.com, CIN: U27109WB2003PLC097231

Date:06-06-2022

To
The Mayor
Durgapur Municipal Corporation
City Centre,
Durgapur
West Bengal

Sub: Display of Environment Clearance (EC) of Neo Metaliks Ltd for 30 days.
Ref: Govt of India, Ministry of Environment, Forest & Climate Change (MoEF&CC), vide F. No: IA- J11011/779/2007-IA.II(I), Dated-01/06/2022, as per EC, Miscellaneous Condition No. X(ii).

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Factory Manager
Gopalpur, Durgapur-12

For NEO METALIKS LTD.
Factory Manager
Gopalpur, Durgapur-12

(Sanjay Kumar Jha)
DGM Commercial & Factory Manager
Mobile No:8420009968

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Received Not Verified
Durgapur Municipal Corporation

Park Plaza, 71 Park Street, 6F, North Block, Kolkata - 700 016
Tel.: + 91 33 4050 4050, Fax: + 91 33 2217 7317, E-mail: info@neometaliks.com
Website: www.neometaliks.com, CIN: U27109WB2003PLC097231

To
Office of the ADCP Zone-I (East)
Asansol Durgapur Police Commissionerate
Durgapur
West Bengal

Date:06-06-2022

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Ref: Govt of India, Ministry of Environment, Forest & Climate Change (MoEF&CC), vide F. No: IA- J11011/779/2007-IA.II(I), Dated-01/06/2022, as per EC, Miscellaneous Condition No. X(ii).

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Gopalpur, Durgapur-12

(Sanjay Kumar Jha)
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Mobile No:8420009968

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Received
O/C Bidhan
06/06/22

Park Plaza, 71 Park Street, 6F, North Block, Kolkata - 700 016
Tel.: + 91 33 4050 4050, Fax: + 91 33 2217 7317, E-mail: info@neometaliks.com
Website: www.neometaliks.com, CIN: U27109WB2003PLC097231

Date:06-06-2022

To
The Chief Executive Officer
Asansol Durgapur Development Authority
City Centre,
Durgapur
West Bengal

Sub: Display of Environment Clearance (EC) of Neo Metaliks Ltd for 30 days.
Ref: Govt of India, Ministry of Environment, Forest & Climate Change (MoEF&CC), vide F. No: IA- J11011/779/2007-IA.II(I), Dated-01/06/2022, as per EC, Miscellaneous Condition No. X(ii).

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Factory Manager
For NEO METALIKS LTD.
Gopalpur, Durgapur-12

(Sanjay Kumar Jha)
DGM Commercial & Factory Manager
Mobile No: 8420009968

RECEIVED
Without Prejudice
6 JUN 2022
Durgapur Development Authority
City Centre, Durgapur-16

Enclosure: Copy of Environment Clearance (EC) accorded from Ministry of Environment, Forest & Climate Change (MoEF&CC), vide F. No: IA-J11011/779/2007-IA. II(I), Dated-01/06/2022.

Park Plaza, 71 Park Street, 6F, North Block, Kolkata - 700 016
Tel.: + 91 33 4050 4050, Fax: + 91 33 2247 7317. E-mail: info@neometaliks.com
Website: www.neometaliks.com, CIN: U27109WB2003PLC097231

To
The Regional Pollution Office
West Bengal Pollution Control Board
City Centre,
Durgapur
West Bengal

Date:06-06-2022

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Gopalpur, Durgapur-12

(Sanjay Kumar Jha)
DGM Commercial & Factory Manager
Mobile No:8420009968

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Website: www.neometaliks.com, CIN: U27109WB2003PLC097231

To
The I/C Kanksa
Kanksa Police Station
District- Paschim Bardhhaman
West Bengal

Date:06-06-2022

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Gopalpur, Durgapur-12

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Police Station ADPC • Paschim Bardhaman

Park Plaza, 71 Park Street, 6F, North Block, Kolkata - 700 016
Tel.: + 91 33 4050 4050, Fax: + 91 33 2217 7317, E-mail: info@neometaliks.com
Website: www.neometaliks.com, CIN: U27109WB2003PLC097231

To
Office of Police Commissioner
Asansol Durgapur Police Commissionerate
EVELYN LODGE, Asansol
West Bengal

Date:06-06-2022

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Content not verified
Received Section,
Police Office, A.D.P.C
Signature
06/06/2022