



metaliks ltd.



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Website: www.neometaliks.com, CIN: U27109WB2003PLC097231

To,

Date- 30/11/2021

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 Environmental Clearance Compliance Report for the period of April 2021 to September 2021 of Neo Metaliks Ltd., Durgapur- 713212, West Bengal.

Ref: F. No. - J – 11011/779/2007-IA II (I) dated on 04.11.2008.

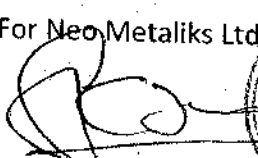
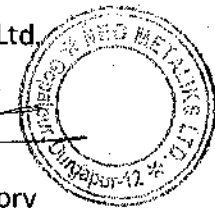
Dear Sir,

This has reference to the above subject matter enclosed herewith the Six Monthly Environmental Clearance Compliance Report for the period of **April 2021 to September 2021** of Neo Metaliks Ltd.

This is for your kind information.

Yours faithfully,

For Neo Metaliks Ltd.

Authorized Signatory

Cc:

The Environment Engineer (In-Charge),
West Bengal Pollution Control Board,
(Government of West Bengal)
City Centre, Durgapur- 713216.

**Environmental Clearance Compliance Report for
the period April- 2021 to September- 2021
of M/s Neo Metaliks Ltd. Durgapur
Vide EC. No – F. No. J - 11011/779/2007-IA II (I),
Dated 04.11.2008**

SL	SPECIFIC CONDITION	COMPLIANCE STATUS
A (i)	Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted. On-line stake monitoring facilities for all the stacks and sufficient air Pollution control devices shall be provided. Electrostatic Precipitator (ESP) to sinter plant and bag house to Electric Arc Furnace (EAF), dust catcher and Ventury scrubber to mini Blast Furnace (BF) shall be provided to control the particulate emissions below 100mg/Nm³. Data on ambient air quality and stack emissions shall be regularly submitted to this Ministry including its Regional office at Bhubaneswar / CPCB /W. B. Pollution control board (WBPCB) once in six months.	We have not installed Electric Arc Furnace (EAF) so conditions attributable to this is not applicable to us. A (i) Efforts made to reduce RSPM level in the ambient air is given below:- (a) We have installed Air Pollution Control (APC) system to the Sinter Plant (SP) & MBF cast house. Exhaust gases from SP head end and tail end is cleaned in ESPs to less than 100 mg/Nm³ and discharged through 40 meter and 50 meter tall stack. Blast Furnace gas is cleaned in dry dust catcher, saturator and venturi scrubbers and used as fuel for CPP boilers to generate 4.5 MW captive power, stove heating and sinter plant operation. (b) All the conveyors and transfer points have been enclosed to reduce the secondary fugitive emission. (c) Modification and extension of coffin box & skirt for leakage arresting at all the transfer points. (d) 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 commissioned at raw material handling sections successfully. (e) Plant internal roads, vehicle movement area and work places are developed with either concreted or paver and cleaned at regular intervals. The cleaned process dust particles are collected and sent for re-use in the Sinter process plant.

SL	SPECIFIC CONDITION	COMPLIANCE STATUS
		(f) All the raw Materials like Iron ore lump & fines, flux and coke & coke Fines are kept covered with Tarpaulin. (g) All the Vehicles plying inside the Plant are regularly checked for PUC compliance certificates (exhaust emission). (h) On line monitoring system has been installed for the following stacks: 1. Sinter Plant Process stack 2. Blast Furnace Stove stack 3. Captive Power Plant stack. In addition to that based on the recommendation from Regional Office vide letter dated 19th December, 2020, we have immediately started bi-monthly Environment Monitoring of Stack Emission, Ambient Air Quality (AAQ), Work Zone Emission, Water Quality etc. through NABL accredited laboratory. All such reports are enclosed herewith and collectively marked as Annexure- I. Work zone emissions monitoring is being done at different raw material handling sections and transfer points as follows:- a) Near Head ESP is designated for iron ore fines stock yard. b) Ground Hopper through which all the raw materials are fed to sinter plant. c) Near Tail ESP, sinter cooler machine present where hot finished sinter is received and cooled. d) Hot Metal bay where ladle pouring & handling and ladle repairing are executed.

SL	SPECIFIC CONDITION	COMPLIANCE STATUS
		A (ii) Time bound Action Plan to reduce RSPM Level. (a) Tree Plantation is our ongoing process. Total 18785 nos. of trees have been planted in about more than 25.74 acre area in and around the plant boundary till 15th September 2021. (b) Further 4000 Nos. Saplings will be planted in 2022-23. PO is placed on the greenbelt / horticulture developer for 7000 plants are already planted. Copy of PO & Photographs are attached herewith and marked as Annexure II & Annexure IIA respectively. (b) We don't have any steel making process now. (c) Last six-monthly report has been submitted for the period of October '20 to March'21 to the Ministry through e-mail on 11th June 2021 and subsequently submitted to WBPCB-Durgapur Regional office by hand.
A (ii)	As proposed, Waste gases from BF, Sinter Plant, induction and electric arc furnace (IF/ EAF) and rolling mill reheating furnace shall be routed through suitable pollution control devices and used in sinter plant.	We do not have IF, EAF, Reheating Furnace and Rolling Mill presently. So conditions attributable to this is not applicable to us. The BF gas from MBF is routed through appropriate Air Pollution Control (APC) devices like Gas Cleaning Plant (GCP) consist of dust catcher, saturator, and Ventury scrubber. 100% BF gas is being used in Sinter Plant, Captive Power Plant, Hot Blast Stove and Ladle Reheating Furnace. ESP and bag filters are attached with Sinter Plant. The waste gas from stove heating of blast furnace is being used as hot gas generator.
A (iii)	Dust suppression and extraction system including water spraying shall also be provided to control dust from raw material handling and storage area to control fugitive emissions. Fume extraction system to EAF and IF and exhaust system shall be	We don't have EAF, IF and Continuous Casting Machine (CCM) presently. So conditions attributable to this is not applicable to us.

SL	SPECIFIC CONDITION	COMPLIANCE STATUS
	provided to continuous casting machine (CCM) to control hot fumes and vapors.	(a) Plant de-dusting system comprising of bag filters are provided to control the fugitive dust. (b) Fixed Water Sprinkler provided at Ground hoppers, raw material handling area, truck tippler. (c) Mobile Water Sprinkling Tanker deployed to suppress the fugitive dust at raw material stock yard and all the internal roads within the plant premises. Along with water fog cannon has been commissioned at raw material handling sections successfully. (d) The following initiatives taken on the Fume Extraction system located at MBF cast house. i) Efficiency enhancement done by the modification of suction hood, duct line to avoid pressure drop. ii) Leakage arrested in bag filter casing. iii) Old bags changed by new bags.
A (iv)	Gaseous emission levels including secondary fugitive emissions from blast furnace and sinter plant shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed.	Gaseous emissions level through stacks and secondary fugitive emissions level from blast furnace cast house and sinter plant area are well within the MoEF&CC specified latest permissible limit. We monitor the environmental condition in respect of air included with ambient air quality monitoring, work zone monitoring, stack emission monitoring by NABL accredited external laboratory. Annexure I.
A (v)	Vehicular pollution due to transportation of raw material and finished products shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished products.	For controlling of vehicular pollution regular PUC certificates are being ensured. Following measures have been adopted to control the dust emissions during loading and unloading of raw materials and finished products. (a) Fixed water sprinklers and Mobile water sprinkling tanker are being provided for suppressing the fugitive dust emission at loading/ unloading points of raw material and finished products. (b) We have made water bed on the main concrete road for washing the on road vehicle wheel.

SL	SPECIFIC CONDITION	COMPLIANCE STATUS
		(c) Operation of the water fog cannon at raw material handling section to suppress the fugitive emissions regular basis.
A (vi)	Total water requirement from Asansol Durgapur Development Authority (ADDA) shall not exceed 6,120 m ³ / day. No ground water shall be abstracted. Closed circuit water re-circulation system shall be used to reduce water consumption. All the treated wastewater including blow down water from BF, Sinter plant etc, Shall be recycled and reused in the process, dust suppression and green belt development. 'Zero' effluent discharged shall be strictly followed and no wastewater shall be discharged outside the premises. Domestic effluent shall be treated in Sewage Treatment Plant (STP) and treated effluent shall be used for green belt development.	(a) We have permission to 2090 m³/day water from ADDA. We don't have the installation of the SMS and Rolling Mills at present. Letter is attached as Annexure III. (Letter no. ED/CA-79/04- 05/1428, dt-13.07.05). (b) Permission for drawing ground water has been obtained from SWID, Govt. of West Bengal. The permission has been taken to meet the domestic water requirement of staffs, workmen and security personnel. (c) The plant is based on Zero Liquid Discharge (ZLD) system, hence entire wastewater is recycled/ reused within plant premises. (d) Sanitary effluent is treated in septic tanks and soaks pits. Canteen waste water is treated in Oil-water separator and then used for greenery development.
A (vii)	Permission for the drawl Of 6,120 m ³ /day from Asansol Durgapur Development Authority (ADDA) shall be obtained.	Permission for 2090 m³/day water has been obtained from ADDA for MBF, SP & CPP. Ref: Annexure III.
A (viii)	All the iron ore fines, coke fines, flue dust and mill scales shall be reused in the sinter plant. All the blast furnace slag shall be granulated and provided to cement manufacturers for further utilization. SMS / EAF slag shall be properly used inside the plant premises and shall not be disposed off anywhere else. All the other solid waste including broken refractory mass shall be properly disposed off in environment friendly manner. Waste oil shall be sold to authorized recyclers / reprocessors.	(a) Iron ore fines, coke fines and flue dust are reused in Sinter Plant. Mill scale is not generated in the plant as there are no rolling mills. (b) BF Slag is granulated and sold for Cement making. Annexure IV. (c) No steel making slag is generated as we have not installed SMS with IF and EAF. Broken refractory mass is used as sub-base material for road making and also sold it to respective agency for recycling. (d) Used/ waste oil is being properly disposed of through authorized agency Name: - M/s. Waste Bengal Waste Management Limited. Manifest & Authorization is attached in

SL	SPECIFIC CONDITION	Annexure V. COMPLIANCE STATUS
A (ix)	A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.	(a) We are reusing/ disposing 100% Solid Waste generated from the plant in environment friendly manner. (b) All BF Slag is granulated and sold for Cement making. Ref: Annexure IV. (c) Flue dust and GCP sludge are being used in sinter plant. (d) Broken refractory mass is used as sub-base material for road repairing and also sold it to respective agency for recycling.
A (x)	As proposed, green belt shall be developed in 33 % area within and around the plant premises as per the CPCB guidelines in consultation with DFO.	(a) Trees plantation is our ongoing process. Total 18785 nos. of saplings have been Planted in more than 25.74 acre area in and around the plant boundary till 15th September 2021. (b) Further 4000 Nos. Saplings will be Planted in 2022-23.
A (xi)	All the recommendations made in the charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants Shall be implemented.	Neo Metaliks Ltd. is taking necessary initiative to adhere the CREP as mentioned in Annexure A.
A (xii)	The company shall provide housing for construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the projects.	Abide by the condition.
B (i)	The project authorities must strictly adhere to the stipulations made by the West Bengal Pollution Control Board (WBPCB) and the State Government.	Noted and complied. a) We have received the Consent to operate for MBF, Sinter Plant, CPP & PCI which is valid up to 30.04.2022. b) We have also obtained authorization for Hazardous & other waste Management in Form-2 vide memo no. 38/2S (HW)-2497/2009 dated on 02.03.2020 from West Bengal Pollution Control Board. Copy of the said authorization for Hazardous & other waste Management issued by WBPCB is enclosed herewith and marked as Annexure-VI.

SL	SPECIFIC CONDITION	COMPLIANCE STATUS
B (ii)	No further expansion or modification in the plant should be carried out without prior approval of the Ministry of Environment, Forests & Climate Change.	Noted and abide by the said condition. Ministry has accorded Terms of review vide letter no. F. No. J-11011/779/2007-IA.II (I) dated 27.05.2019 for expansion of the project.
B (iii)	The gaseous emission from various units shall conform to the load/mass based standards notified by this Ministry on 19th May 1993 and standards prescribed from time to time. The WBPCB may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time, the emission level shall go beyond the prescribed standard. The interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.	(a) The gaseous emissions are within limits. Online Continuous emission monitoring system (CEMS) has been installed in major stacks in August-2018 which is well connected to the CPCB servers from March-2019 and Results are directly transmitted to CPCB. Moreover, Stack emissions monitoring are also being regularly conducted by NABL accredited laboratory. (b) Pollution Control equipment are a part of the operating process of plant. The stack emissions from MBF, Sinter and CPP are monitored continuously online and real time online data is transmitted to CPCB Server. Any deviation beyond the prescribed standard is immediately taken care of by process adjustment.
B (iv)	In-plant control measures for checking fugitive emissions from all the vulnerable sources like spillage/raw materials /coal handlings etc. shall be provided. Further, specific measures like provision of dust suppression system consisting of water sprinkling, suction hoods, fans and bag filters etc. shall be installed at material transfer points and other raw material handling areas. Centralize de-dusting system i.e. collection of fugitive emissions through suction hood and subsequent treatment through bag filter or any other device and finally emitted through a stack of appropriate designed height conforming to the standards. Fugitive emissions shall be regularly monitored and records maintained.	(a) We have initiated ISO 14001 to ensure the improvement in Environment Performance. Ref: - Annexure VII. (b) Centralized de-dusting system i.e. collection of process emissions through suction hood & duct line and subsequent treatment through ESP and finally emitted through appropriate designed stack. (c) 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. (d) Fixed Water Sprinkler provided in Ground Hopper, Raw Material handling area, Truck Tippler. (e) Mobile Water Sprinkling Tanker deployed inside the plant premises at regular basis.

SL	SPECIFIC CONDITION	COMPLIANCE STATUS
		(f) Operation of water fog cannon at raw material handling section to suppress the fugitive emissions at regular basis. (g) We are measuring fugitive emissions in work environment by NABL accredited laboratory on bi-monthly basis. (h) The above bi-monthly test reports are being sent to the Ministry through its Regional office in every six months. Also the same is sent to the State Pollution control board (WBPCB) every six months and records are being maintained. Ref: Annexure I.
B (v)	At least, four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of SPM, SO₂ and NO_x are anticipated in consultation with the WBPCB. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Bhubaneswar, WBPCB and CPCB once in six months.	(a) We have established five ambient air quality monitoring stations at the near Main Gate, near Admin Building & Store, near Boundary Wall (North-East side), near CPP Cooling Tower and near PCM side boundary wall where we do the periodic (bi monthly) environment monitoring by NABL accredited external laboratory and reports are being submitted to the Ministry through its Regional Office and WBPCB once in six month. The reports are attached in Ref: Annexure I. (b) We are carrying out periodic (Bi-monthly) stack emission monitoring and records are being submitted to the Ministry through its Regional Office and WBPCB once in six month. Ref: Annexure I.
B (vi)	Industrial waste water shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	Plant wastewater is recycled and reused for slag cooling, mould cooling, gas cleaning plant and dust suppression. No wastewater is discharged outside the plant premises. Sanitary effluent is treated in septic tanks and soaks pits. Canteen waste is treated in Oil water separator and then used for plantation.
B (vii)	The overall noises levels in and around the plant area shall be kept well within the standards 85 dB(A) by providing noise control	Noise monitoring is being conducted by third party analysist viz. Qualissure Laboratory Services, a NABL accredited laboratory on regular intervals. We have already installed acoustic hoods,

SL	SPECIFIC CONDITION	COMPLIANCE STATUS
	measures including acoustic hoods, silencer, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA rules, 1989 viz. 75 dB(A) (daytime) and 70 dB(A) (night time).	silencer, enclosures on various sources of noise generation to keep overall noise level in and around the plant area well within the prescribed standards. a) The ambient noise levels at plant boundary are below 75 dB (A) during day time and 70 dB (A) during night time. b) Noise levels in work environment are below 85 dB (A). The results are attached in Annexure VIII.
B (viii)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	(a) We have initiated ISO 45001 to ensure Safety and Health. (b) All employees during induction are screened medically by plant medical officer and Doctors (on contractual basis) who visited plant for periodical medical checkup for workers including contractual labors. (c) Dispensary is well facilitated with basic first aid facilities. Ambulance is available in the plant 24*7 for immediate shifting of patients to nearby hospital in case of emergency. (d) Periodic health examination is carried out as per the prevailing norms of WB Factories Rules. The test of Routine parameters and Specific Parameters is conducted including laboratory investigations such as Blood Test, LFT, Chest-X-ray, PFT, Eye test, Audiometry Test, ECG etc. by industrial hygiene experts and updated records are being maintained. (e) All the workers are equipped with the best quality of personal Protective equipment's such as Safety helmets, Goggles, eyes and face protection (welding), nose mask, hand gloves, safety shoes, FR Suit for Hot Zone Worker, FullBody Safety Harness during work at height. etc.
B (ix)	The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	(a) We have facilitated a surface water harvesting reservoir at the north side of plant boundary where surface run off is collected and reuse it for plant operation. The capacity of the reservoir is 13000 m³ approx.

SL	SPECIFIC CONDITION	COMPLIANCE STATUS
		(b) We have augmented the existing Sumps where runoff within the plant is collected. This water is utilized in the plant for cooling and dust suppression during lean season. (c) We have made four roof top rain water harvesting reservoirs of capacities 40m³, 30m³, 15m³ and 11.25m³ respectively at the following locations were already developed with a cost of Rs.350000 (Approx.) to collect 96.25 m3 of rainwater. 1. CPP cooling tower area sump. 2. Sinter plant pump house area sump. 3. Rain water harvesting sump at MBF area 4. Rain water harvesting sump at near Admin building. and the harvested rain water is being used in process, plantation, dust suppression and indirect cooling applications wherever possible. Photos of the existing rain water harvesting sumps are attached herewith and collectively marked as Annexure-IX. (d) No natural drainage is getting intercepted by the plant boundary and it is directed by peripheral drains outside. To have further improvement, we contacted CSIR-Bhubaneswar & NIT-Durgapur to guide us.
B (x)	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA / EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care etc.	(a) NML had taken up the environmental protection measures recommended in the EIA/EMP report during the construction phase earlier and presently, we are in practice to comply with all the operational environmental protection measures/safeguards as recommended in EIA/EMP. (b) In addition, NML undertakes the socio-economic development activities in the surrounding villages through various programs. During the previous three FY's (2018-19, 2019-2020, 2020-21),

SL	SPECIFIC CONDITION	COMPLIANCE STATUS
		NML conducted the following socio-economic development for which cost incurred more than Rs. 66.00 lakhs. i) Drinking water project ii) Scholarship to the talented & deserving student. iii) Food & cloth distribution in the rural tribal villages. iv) COVID-19 support and awareness to the society. v) Training & empowering the women. vi) Health checkup camp vii) Avenue plantation
B (xi)	As proposed, Rs. 25.00 Crores and Rs. 6.00 Crores shall be earmarked towards capital cost and recurring cost/annum for environmental pollution control measures to implement the conditions stipulated by the Ministry of Environment, Forests & Climate Change as well as the state Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Ministry's Regional Office at Bhubaneswar. The funds so provided should not be diverted for any other purpose.	For the existing plant consisting of MBF, Sinter Plant and CPP Rs13.42 Crores has been utilized as Capital cost for environmental pollution control measures to implement the conditions stipulated by the Ministry of Environment, Forest & Climate Change as well as the state government. The detail breakup of equipment cost is attached herewith and marked as Annexure X. Preventive maintenance and required maintenance of the complete setup of pollution control devices namely ESP, Bag House, Gas Cleaning Plant and Dust/ Fume Extraction System are being done as a part of the recurring cost.
B (xii)	The Regional Office of this Ministry at Bhubaneswar / CPCB / WBPCB will monitor the stipulated conditions. A six monthly compliance report and the monitored date along with statistical interpretation shall be submitted to them regularly.	Six-monthly EC conditions compliance report is being submitted to MoEF&CC / WBPCB on regular basis. Last submission done on 11th June 2021.
B (xiii)	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the WBPCB and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in. This shall be advertised within 7 days from the date of issue of	Complied. Consent to Establish Sinter Plant was granted by West Bengal Pollution Control Board vide Memo No.237-2N-566/2003 Date: - 04.04.2010. Consent to Operate Mini Blast Furnace, Sinter Plant, Captive Power Plant was granted by West Bengal Pollution Control

SL	SPECIFIC CONDITION	COMPLIANCE STATUS
	the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the Same shall be forwarded to the Regional office.	Board vide Memo No. 907-7/WPBD-Cont(2809)/16 Date:- 20.04.2017 valid till 30.04.2022 and for PCI vide Memo No. 87-7/WPBD-Cont(2809)/06(Part-I) Date:- 28.04.2021 valid till 30.04.2022.
B (xiv)	Project authorities 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 and the date of commencing the land Development work.	Abide by the said condition. We have been submitting the Environmental Statement in Form-V. We have 90.045 acres of land of which 78.40 acres of land is within the boundary wall and remaining 11.645 acres of land is adjacent to boundary wall. All 90.045 acres of land has been acquired.



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

TEST REPORT

Name & Address Of the Customer :	ULR No.	: TC627121000001701F
M/s. Neo Metaliks Ltd.	Report No.	: QLS/A/21-22/C/202
Vill + P.O. : Gopalpur	Date	: 28.07.2021
P.S. : Kanksa, Durgapur	Sample No.	: QLS/A/21-22/202
Paschim Bardhaman	Sample Description	: Ambient Air
West Bengal – 713 212	Ref No. Date	: W120206-01, Dated: 06.02.2021

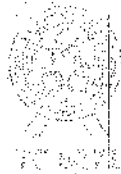
Analysis Result

Location: Near Main Gate			Date of sampling : 15-16.07.2021	
Sampling Done by: S.Ghosh/J. Sahana			Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Cloudy & Rainy				
Sl. No.	Pollutants	Result	Limit as per CPCB	Method of Test Reference
1	Particulate matter (PM ₁₀) in µg/m ³	78	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter PM _{2.5} in µg/m ³	34	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO ₂) in µg/m ³	5.5	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO ₂) in µg/m ³	21.3	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in µg/m ³	458	2000	IS: 5182 (Part-10):1999,RA-2014
NOTE: Limit as per CPCB notification, New Delhi, 18 th November 2009, for Ambient air quality.				

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	ULR No. : TC627121000001702F Report No. : QLS/A/21-22/C/203 Date : 28.07.2021 Sample No. : QLS/A/21-22/203 Sample Description : Ambient Air Ref No. Date : W120206-01, Dated: 06.02.2021
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Analysis Result

Location: Near PCI Boundary Wall			Date of sampling : 15-16.07.2021	
Sampling Done by: S.Ghosh/J. Sahana			Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Cloudy & Rainy				
Sl. No.	Pollutants	Result	Limit as per CPCB	Method of Test Reference
1	Particulate matter (PM ₁₀) in µg/m ³	62	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter PM _{2.5} in µg/m ³	31	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO ₂) in µg/m ³	4.9	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO ₂) in µg/m ³	23.0	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in µg/m ³	686	2000	IS: 5182 (Part-10):1999,RA-2014
NOTE: Limit as per CPCB notification, New Delhi, 18 th November 2009, for Ambient air quality.				

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

TEST REPORT

Name & Address Of the Customer :	ULR No. : TC627121000001703F
M/s. Neo Metaliks Ltd.	Report No. : QLS/A/21-22/C/204
VIII + P.O. : Gopalpur	Date : 28.07.2021
P.S. : Kanksa, Durgapur	Sample No. : QLS/A/21-22/204
Paschim Bardhaman	Sample Description : Ambient Air
West Bengal – 713 212	Ref No. Date : W120206-01, Dated: 06.02.2021

Analysis Result

Location: Near Admin Building.		Date of sampling : 16-17.07.2021		
Sampling Done by: S.Ghosh/J. Sahana		Sampling done as per : CPCB Guidelines (Volume-1)		
Environmental Condition : Cloudy & Rainy				
Sl. No.	Pollutants	Result	Limit as per CPCB	Method of Test Reference
1	Particulate matter (PM ₁₀) in µg/m ³	54	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter PM _{2.5} in µg/m ³	28	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO ₂) in µg/m ³	6.0	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO ₂) in µg/m ³	20.5	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in µg/m ³	801	2000	IS: 5182 (Part-10)-1999,RA-2014
NOTE: Limit as per CPCB notification, New Delhi, 18 th November 2009, for Ambient air quality.				

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361, Prantick Pally, 45/361, Bose Pukur Road, Kolkata -700107
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DOC NO : QLS/SAMP/08-A/00

TEST REPORT

Name & Address Of the Customer :	ULR No. : TC627121000001704F
M/s. Neo Metaliks Ltd.	Report No. : QLS/A/21-22/C/205
Vill + P.O. : Gopalpur	Date : 28.07.2021
P.S. : Kanksa,Durgapur	Sample No. : QLS/A/21-22/205
Paschim Bardhaman	Sample Description : Ambient Air
West Bengal – 713 212	Ref No. Date : W120206-01, Dated: 06.02.2021

Analysis Result

Location: Near CPP Cooling Tower			Date of sampling : 16-17.07.2021	
Sampling Done by: S.Ghosh/J. Sahana			Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Cloudy & Rainy				
Sl. No.	Pollutants	Result	Limit as per CPCB	Method of Test Reference
1	Particulate matter (PM ₁₀) in µg/m ³	70	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter PM _{2.5} in µg/m ³	36	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO ₂) in µg/m ³	5.3	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO ₂) in µg/m ³	23.9	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in µg/m ³	572	2000	IS: 5182 (Part-10):1999,RA-2014
NOTE: Limit as per CPCB notification, New Delhi, 18 th November 2009, for Ambient air quality.				

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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	ULR No. : TC627121000001705F Report No. : QLS/A/21-22/C/206 Date : 28.07.2021 Sample No. : QLS/A/21-22/206 Sample Description : Ambient Air Ref.No. Date : W120206-01, Dated: 06.02.2021
--	---

Analysis Result

Location: North East Boundary wall		Date of sampling : 17-18.07.2021		
Sampling Done by: S.Ghosh/J. Sahana		Sampling done as per : CPCB Guidelines (Volume-1)		
Environmental Condition : Cloudy & Rainy				
Sl. No.	Pollutants	Result	Limit as per CPCB	Method of Test Reference
1	Particulate matter (PM ₁₀) in µg/m ³	48	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter (PM _{2.5}) in µg/m ³	22	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO ₂) in µg/m ³	4.5	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO ₂) in µg/m ³	22.8	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in µg/m ³	686	2000	IS: 5182 (Part-10):1999,RA-2014
NOTE: Limit as per CPCB notification, New Delhi, 18 th November 2009, for Ambient air quality.				

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TEST REPORT

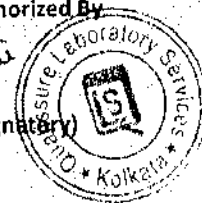
Name & Address Of the Customer :	ULR No. : TC627121000001183F
M/s. Neo Metaliks Ltd.	Report No. : QLS/A/21-22/C/77
Vill + P.O. : Gopalpur	Date : 15.05.2021
P.S. : Kanksa,Durgapur	Sample No. : QLS/A/21-22/77
Paschim Bardhaman	Sample Description : Ambient Air
West Bengal – 713 212	Ref No. Date : W120206-01, Dated: 06.02.2021

Analysis Result

Location: Near Main Gate			Date of sampling : 06-07.05.2021	
Sampling Done by: S.Ghosh/D.Sahoo			Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Cloudy & Rainy				
Sl. No.	Pollutants	Result	Limit as per CPCB	Method of Test Reference
1	Particulate matter (PM ₁₀) in µg/m ³	93	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter PM _{2.5} in µg/m ³	52	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO ₂) in µg/m ³	7.8	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO ₂) in µg/m ³	30.3	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in µg/m ³	755	2000	IS: 5182 (Part-10):1999,RA-2014
NOTE: Limit as per CPCB notification, New Delhi, 18 th November 2009, for Ambient air quality.				

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

TEST REPORT

Name & Address Of the Customer :	ULR No. : TC627121000001184F
M/s. Neo Metaliks Ltd.	Report No. : QLS/A/21-22/C/78
Vill + P.O. : Gopalpur	Date : 15.05.2021
P.S. : Kanksa, Durgapur	Sample No. : QLS/A/21-22/78
Paschim Bardhaman	Sample Description : Ambient Air
West Bengal – 713 212	Ref No. Date : W120206-01, Dated: 06.02.2021

Analysis Result

Location: Near Boundary Wall- North East Side			Date of sampling : 06-07.05.2021	
Sampling Done by: S.Ghosh/D.Sahoo			Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Cloudy & Rainy				
Sl. No.	Pollutants	Result	Limit as per CPCB	Method of Test Reference
1	Particulate matter (PM ₁₀) in µg/m ³	79	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter PM _{2.5} in µg/m ³	40	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO ₂) in µg/m ³	6.9	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO ₂) in µg/m ³	29.0	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in µg/m ³	698	2000	IS: 5182 (Part-10):1999,RA-2014
NOTE: Limit as per CPCB notification, New Delhi, 18 th November 2009, for Ambient air quality.				

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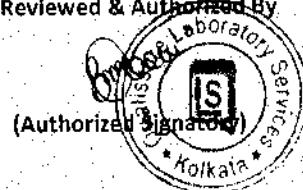
TEST REPORT

Name & Address Of the Customer :	ULR No. : TC627121000001185F
M/s. Neo Metaliks Ltd.	Report No. : QLS/A/21-22/C/79
Vill + P.O. : Gopalpur	Date : 15.05.2021
P.S. : Kanksa, Durgapur	Sample No. : QLS/A/21-22/79
Paschim Bardhaman	Sample Description : Ambient Air
West Bengal – 713 212	Ref No. Date : W120206-01, Dated: 06.02.2021

Analysis Result

Location: Near.PCM Side, Boundary Wall			Date of sampling : 06-07.05.2021	
Sampling Done by: S.Ghosh/D.Sahoo			Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Cloudy & Rainy				
Sl. No.	Pollutants	Result	Limit as per CPCB	Method of Test Reference
1	Particulate matter (PM ₁₀) in µg/m ³	70	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter PM _{2.5} in µg/m ³	36	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO ₂) in µg/m ³	6.7	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO ₂) in µg/m ³	29.7	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in µg/m ³	629	2000	IS: 5182 (Part-10):1999,RA-2014
NOTE: Limit as per CPCB notification, New Delhi, 18 th November 2009, for Ambient air quality.				

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TEST REPORT

Name & Address Of the Customer :	ULR No. : TC627121000001186F
M/s. Neo Metaliks Ltd.	Report No. : QLS/A/21-22/C/80
Vill + P.O. : Gopalpur	Date : 15.05.2021
P.S. : Kanksa,Durgapur	Sample No. : QLS/A/21-22/80
Paschim Bardhaman	Sample Description : Ambient Air
West Bengal – 713 212	Ref No. Date : W120206-01, Dated: 06.02.2021

Analysis Result

Location: Near Store & Admin Area			Date of sampling : 07-08.05.2021	
Sampling Done by: S.Ghosh/D.Sahoo			Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Cloudy & Drizzle				
Sl. No.	Pollutants	Result	Limit as per CPCB	Method of Test Reference
1	Particulate matter (PM ₁₀) in µg/m ³	87	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter PM _{2.5}) in µg/m ³	50	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO ₂) in µg/m ³	7.4	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO ₂) in µg/m ³	31.9	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in µg/m ³	721	2000	IS: 5182 (Part-10):1999,RA-2014
NOTE: Limit as per CPCB notification, New Delhi, 18 th November 2009, for Ambient air quality.				

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TEST REPORT

Name & Address Of the Customer :	ULR No. : TC627121000001187F
M/s. Neo Metaliks Ltd.	Report No. : QLS/A/21-22/C/81
Vill + P.O. : Gopalpur	Date : 15.05.2021
P.S. : Kanksa,Durgapur	Sample No. : QLS/A/21-22/81
Paschim Bardhaman	Sample Description : Ambient Air
West Bengal – 713 212	Ref No. Date : W120206-01, Dated: 06.02.2021

Analysis Result

Location: Near CPP Cooling Tower			Date of sampling : 07-08.05.2021	
Sampling Done by: S.Ghosh/D.Sahoo			Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Cloudy & Drizzle				
Sl. No.	Pollutants	Result	Limit as per CPCB	Method of Test Reference
1	Particulate matter (PM ₁₀) in µg/m ³	72	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter (PM _{2.5}) in µg/m ³	39	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO ₂) in µg/m ³	6.2	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO ₂) in µg/m ³	28.9	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in µg/m ³	641	2000	IS: 5182 (Part-10):1999,RA-2014
NOTE: Limit as per CPCB notification, New Delhi, 18 th November 2009, for Ambient air quality.				

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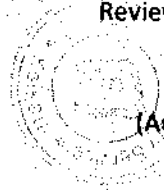
TEST REPORT

Name & Address Of the Customer :	ULR No.	TC627121000002001F
M/s. Neo Metaliks Ltd.	Report No.	QLS/A/21-22/C/300
Vill + P.O. : Gopalpur	Date	09.09.2021
P.S. : Kanksa, Durgapur	Sample No.	QLS/A/21-22/300
Paschim Bardhaman	Sample Description	Stack Flue Gas
West Bengal - 713 212	Ref No. Date	W121901-001 Dated 09.09.2021

Analysis Result

Date & Time of Sampling : 28.08.2021 at 01:30 P.M.		Sampling Procedures : EPA/IS	
Sampling done by : S. Ghosh			
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)	: 131	EPA Part 2
2	Barometric pressure (mm of Hg)	: 753	EPA Part 2
3	Velocity of gas (m/sec)	: 9.18	EPA Part 2
4	Quantity of gas flow (Nm ³ /hr)	: 91799	EPA Part 2
5	Concentration of Carbon monoxide (%)	: <0.2	IS:13270-1992, Reaf : 2017
6	Concentration of Carbon dioxide (%)	: 6.8	IS:13270-1992, Reaf : 2017
7	Concentration of Sulphur dioxide (mg/Nm ³)	: 47.3	EPA Part-6
8	Concentration of Nitrogen dioxide (mg/Nm ³)	: 53.4	EPA Part-7
9	Concentration of Particulate Matters (mg/Nm ³)	: 33	EPA Part 5
E : Pollution :			
Details of pollution control devices attached with the stack		: ESP	
F : Remarks : Nil			

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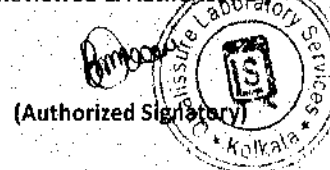
TEST REPORT

Name & Address Of the Customer :	ULR No. : TC627121000001194F
M/s. Neo Metaliks Ltd.	Report No. : QLS/A/21-22/C/88
Vill + P.O. : Gopaipur	Date : 15.05.2021
P.S. : Kanksa,Durgapur	Sample No. : QLS/A/21-22/88
Paschim Bardhaman	Sample Description : Stack Flue Gas
West Bengal – 713 212	Ref No. Date : W120206-01, Dated: 06.02.2021

Analysis Result

Date & Time of Sampling : 08.05.2021 at 03:40 P.M.	Sampling Procedures : EPA/IS
Sampling done by : S.Ghosh	
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)	: 65 EPA Part 2
2 Barometric pressure (mm of Hg)	: 7520 EPA Part 2
3 Velocity of gas (m/sec)	: 14.87 EPA Part 2
4 Quantity of gas flow (Nm ³ /hr)	: 24687 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 Nitrogen dioxide (mg/Nm ³)	: 30.8 EPA Part-7
9 Concentration of Particulate Matters (mg/Nm ³)	: 45 EPA Part 5
E : Pollution :	
Details of pollution control devices attached with the stack	: Bag Filter
F :Remarks : Nil	

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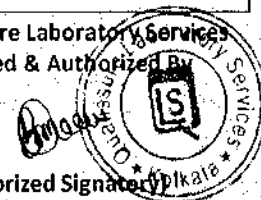
TEST REPORT

Name & Address Of the Customer :	ULR No. : TC627121000001193F
M/s. Neo Metaliks Ltd.	Report No. : QLS/A/21-22/C/87
Vill + P.O. : Gopalpur	Date : 15.05.2021
P.S. : Kanksa, Durgapur	Sample No. : QLS/A/21-22/87
Paschim Bardhaman	Sample Description : Stack Flue Gas
West Bengal - 713 212	Ref No. Date : W120206-01, Dated: 06.02.2021

Analysis Result

Date & Time of Sampling : 08.05.2021 at 02:00 P.M.		Sampling Procedures : EPA/IS
Sampling done by : S. Ghosh		
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
1	Temperature of emission (°C)	: 131
2	Barometric pressure (mm of Hg)	: 750
3	Velocity of gas (m/sec)	: 10.60
4	Quantity of gas flow (Nm ³ /hr)	: 105582
5	Concentration of Carbon monoxide (%)	: <0.2
6	Concentration of Carbon dioxide (%)	: 6.6
7	Concentration of Sulphur dioxide (mg/Nm ³)	: 40.4
8	Concentration of Nitrogen dioxide (mg/Nm ³)	: 52.3
9	Concentration of Particulate Matters (mg/Nm ³)	: 81
E : Pollution :		
Details of pollution control devices attached with the stack		: ESP
F : Remarks : Nil		

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

TEST REPORT

Name & Address Of the Customer :	ULR No. : TC627121000001192F
M/s. Neo Metaliks Ltd.	Report No. : QLS/A/21-22/C/86
Vill + P.O. : Gopalpur	Date : 15.05.2021
P.S. : Kanksa, Durgapur	Sample No. : QLS/A/21-22/86
Paschim Bardhaman	Sample Description : Stack Flue Gas
West Bengal – 713 212	Ref No. Date : W120206-01, Dated: 06.02.2021

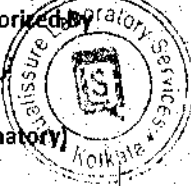
Analysis Result

Date & Time of Sampling : 08.05.2021 at 10:45 A.M.		Sampling Procedures : EPA/IS	
Sampling done by : S.Ghosh			
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)	: 76	EPA Part 2
2	Barometric pressure (mm of Hg)	: 750	EPA Part 2
3	Velocity of gas (m/sec)	: 9.91	EPA Part 2
4	Quantity of gas flow (Nm ³ /hr)	: 95580	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)	: <3.4	EPA Part-6
8	Concentration of Nitrogen dioxide (mg/Nm ³)	: 31.7	EPA Part-7
9	Concentration of Particulate Matters (mg/Nm ³)	: 38	EPA Part 5
E : Pollution :			
Details of pollution control devices attached with the stack		: ESP	
F : Remarks : Nil			

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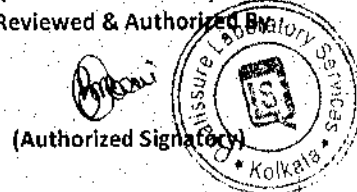
TEST REPORT

Name & Address Of the Customer :	ULR No. : TC627121000001191F
M/s. Neo Metaliks Ltd.	Report No. : QLS/A/21-22/C/85
Vill + P.O. : Gopalpur	Date : 15.05.2021
P.S. : Kanksa, Durgapur	Sample No. : QLS/A/21-22/85
Paschim Bardhaman	Sample Description : Stack Flue Gas
West Bengal – 713 212	Ref No. Date : W120206-01, Dated: 06.02.2021

Analysis Result

Date & Time of Sampling : 07.05.2021 at 04:20 P.M.		Sampling Procedures : EPA/IS		
Sampling done by : S.Ghosh				
A : General Information of Stack:				
1	Stack connected to	: DG Set-1250 kVA		
2	Emission due to	: Combustion 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)	: 219	EPA Part 2	----
2	Barometric pressure (mm of Hg)	: 752	EPA Part 2	----
3	Velocity of gas (m/sec)	: 12.30	EPA Part 2	----
4	Quantity of gas flow (Nm ³ /hr)	: 1262	EPA Part 2	----
5	Concentration of Carbon monoxide(mg/Nm ³)	: 87.6 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 Nitrogen dioxide (ppm)	: 10.6 at 15% O ₂	EPA Part-7	100
9	Concentration of Particulate Matters (mg/Nm ³)	: 46.8 at 15% O ₂	EPA Part 5	75
E : Pollution :				
Details of pollution control devices attached with the stack : NIL				
F : Remarks : Nil				

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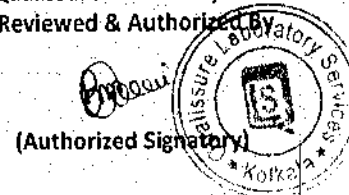
TEST REPORT

Name & Address Of the Customer :	ULR No. : TC627121000001190F
M/s. Neo Metaliks Ltd.	Report No. : QLS/A/21-22/C/84
Vill + P.O. : Gopalpur	Date : 15.05.2021
P.S. : Kanksa, Durgapur	Sample No. : QLS/A/21-22/84
Paschim Bardhaman	Sample Description : Stack Flue Gas
West Bengal - 713 212	Ref No. Date : W120206-01, Dated: 06.02.2021

Analysis Result

Date & Time of Sampling : 07.05.2021 at 03:30 P.M.		Sampling Procedures : EPA/IS	
Sampling done by : S. Ghosh			
A : General Information of Stack:			
1	Stack connected to	: DG Set-1500 kVA	
2	Emission due to	: Combustion 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
1	Temperature of emission (°C)	: 246	EPA Part 2
2	Barometric pressure (mm of Hg)	: 752	EPA Part 2
3	Velocity of gas (m/sec)	: 14.73	EPA Part 2
4	Quantity of gas flow (Nm ³ /hr)	: 1480	EPA Part 2
5	Concentration of Carbon monoxide(mg/Nm ³)	: 101.5 at 15% O ₂	IS:13270-1992, Ref: 2017
6	Concentration of Carbon dioxide(%v/v)	: 4.8	IS:13270-1992, Ref: 2017
7	Concentration of Sulphur dioxide (mg/Nm ³)	: <3.4	EPA Part-6
8	Concentration of Nitrogen dioxide (ppm)	: 12.4 at 15% O ₂	EPA Part-7
9	Concentration of Particulate Matters (mg/Nm ³)	: 35.4 at 15% O ₂	EPA Part 5
E : Pollution :			
Details of pollution control devices attached with the stack : Nil			
F : Remarks : Nil			

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TEST REPORT

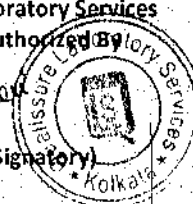
Name & Address Of the Customer :	ULR No.	: TC627121000001189F
M/s. Neo Metaliks Ltd.	Report No.	: QLS/A/21-22/C/83
Vill + P.O. : Gopalpur	Date	: 15.05.2021
P.S. : Kanksa, Durgapur	Sample No.	: QLS/A/21-22/83
Paschim Bardhaman	Sample Description	: Stack Flue Gas
West Bengal - 713 212	Ref No. Date	: W120206-01, Dated: 06.02.2021

Analysis Result

Date & Time of Sampling : 07.05.2021 at 01:00 P.M.		Sampling Procedures : EPA/IS	
Sampling done by : S.Ghosh			
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 Nm ³ /hr. / Store Coke 600 Kgs./hr.	
D : Results of Sampling & Analysis of gaseous Emission :		Result	Method
1	Temperature of emission (°C)	: 148	EPA Part 2
2	Barometric pressure (mm of Hg)	: 752	EPA Part 2
3	Velocity of gas (m/sec)	: 9.16	EPA Part 2
4	Quantity of gas flow (Nm ³ /hr)	: 95193	EPA Part 2
5	Concentration of Carbon monoxide (%)	: <0.2	IS:13270-1992, Reaf : 2017
6	Concentration of Carbon dioxide (%)	: 8.0	IS:13270-1992, Reaf : 2017
7	Concentration of Sulphur dioxide (mg/Nm ³)	: 64.4	EPA Part-6
8	Concentration of Nitrogen dioxide (mg/Nm ³)	: 51.4	EPA Part-7
9	Concentration of Particulate Matters (mg/Nm ³)	: 18	EPA Part 5
E : Pollution :			
Details of pollution control devices attached with the stack		: Cyclone Separator, Saturator & Ventury scrubber	
F : Remarks : Nil			

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TEST REPORT

Name & Address Of the Customer :	ULR No. : TC627121000001188F
M/s. Neo Metaliks Ltd.	Report No. : QLS/A/21-22/C/82
Vill + P.O. : Gopalpur	Date : 15.05.2021
P.S. : Kanksa, Durgapur	Sample No. : QLS/A/21-22/82
Paschim Bardhaman	Sample Description : Stack Flue Gas
West Bengal – 713 212	Ref No. Date : W120206-01, Dated: 06.02.2021

Analysis Result

Date & Time of Sampling : 07.05.2021 at 11:00 A.M.		Sampling Procedures : EPA/IS
Sampling done by : S.Ghosh		
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 (°C)	: 119 EPA Part 2
2	Barometric pressure (mm of Hg)	: 752 EPA Part 2
3	Velocity of gas (m/sec)	: 10.82 EPA Part 2
4	Quantity of gas flow (Nm ³ /hr)	: 45106 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/Nm ³)	: 41.1 EPA Part-6
8	Concentration of Nitrogen dioxide (mg/Nm ³)	: 59.6 EPA Part-7
9	Concentration of Particulate Matters (mg/Nm ³)	: 17 at 12 % CO ₂ EPA Part 5
E : Pollution :		
Details of pollution control devices attached with the stack : NIL		
F :Remarks : Nil		

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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	ULR No. : TC627121000001706F Report No. : QLS/A/21-22/C/207 Date : 28.07.2021 Sample No. : QLS/A/21-22/207 Sample Description : Work Zone Monitoring Ref No. Date : W120206-01, Dated: 06.02.2021
--	--

Analysis Result

Location : Near Tail ESP		Date of sampling : 15.07.2021	
Sampling Done by: S.Ghosh/J. Sahana		Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Cloudy & Rainy			
Sl. No.	Pollutants	Result	Method of Test Reference
1	Total Suspended Particulate Matter in $\mu\text{g}/\text{m}^3$	118	IS 5182 : Part.4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in $\mu\text{g}/\text{m}^3$	62	IS 5182: Part 23 : 2012
3	Sulphur dioxide (SO_2) in $\mu\text{g}/\text{m}^3$	7.1	IS: 5182 (Part-2)-2001,(RA-2012)
4	Nitrogen dioxide (NO_2) in $\mu\text{g}/\text{m}^3$	27.4	IS: 5182 (Part- 6)-2012
NOTE: ----			

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TEST REPORT

Name & Address Of the Customer :	ULR No. : TC627121000001707F
M/s. Neo Metaliks Ltd.	Report No. : QLS/A/21-22/C/208
Vill + P.O. : Gopalpur	Date : 28.07.2021
P.S. : Kanksa, Durgapur	Sample No. : QLS/A/21-22/208
Paschim Bardhaman	Sample Description : Work Zone Monitoring
West Bengal – 713 212	Ref No. Date : W120206-01, Dated: 06.02.2021

Analysis Result

Location : Ground Hopper		Date of sampling : 15.07.2021	
Sampling Done by: S.Ghosh/J. Sahana		Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Cloudy & Rainy			
Sl. No.	Pollutants	Result	Method of Test Reference
1	Total Suspended Particulate Matter in $\mu\text{g}/\text{m}^3$	258	IS 5182 : Part 4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in $\mu\text{g}/\text{m}^3$	126	IS 5182: Part 23 : 2012
3	Sulphur dioxide (SO_2) in $\mu\text{g}/\text{m}^3$	6.5	IS: 5182 (Part-2)-2001,(RA-2012)
4	Nitrogen dioxide (NO_2) in $\mu\text{g}/\text{m}^3$	24.8	IS: 5182 (Part- 6)-2012
NOTE: ----			

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TC-6271

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TEST REPORT

Name & Address Of the Customer :	ULR No. : TC627121000001708F
M/s. Neo Metaliks Ltd.	Report No. : QLS/A/21-22/C/209
Vill + P.O. : Gopalpur	Date : 28.07.2021
P.S. : Kanksa, Durgapur	Sample No. : QLS/A/21-22/209
Paschim Bardhaman	Sample Description : Work Zone Monitoring
West Bengal – 713 212	Ref No. Date : W120206-01, Dated: 06.02.2021

Analysis Result

Location : Hot Metal Bay		Date of sampling : 16.07.2021	
Sampling Done by: S.Ghosh/J. Sahana		Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Cloudy & Rainy			
Sl. No.	Pollutants	Result	Method of Test Reference
1	Total Suspended Particulate Matter in $\mu\text{g}/\text{m}^3$	266	IS 5182 : Part.4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in $\mu\text{g}/\text{m}^3$	134	IS 5182: Part 23 : 2012
3	Sulphur dioxide (SO_2) in $\mu\text{g}/\text{m}^3$	6.0	IS: 5182 (Part-2)-2001,(RA-2012)
4	Nitrogen dioxide (NO_2) in $\mu\text{g}/\text{m}^3$	26.9	IS: 5182 (Part- 6)-2012
NOTE: ----			

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TEST REPORT

Name & Address Of the Customer :	ULR No.	: TC627121000001709F
M/s. Neo Metaliks Ltd.	Report No.	: QLS/A/21-22/C/210
Vill + P.O. : Gopalpur	Date	: 28.07.2021
P.S. : Kanksa,Durgapur	Sample No.	: QLS/A/21-22/210
Paschim Bardhaman	Sample Description	: Work Zone Monitoring
West Bengal – 713 212	Ref No. Date	: W120206-01, Dated: 06.02.2021

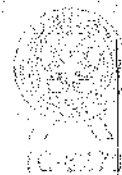
Analysis Result

Location : Near Head ESP		Date of sampling : 16.07.2021	
Sampling Done by: S.Ghosh/J. Sahana		Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Cloudy & Rainy			
Sl. No.	Pollutants	Result	Method of Test Reference
1	Total Suspended Particulate Matter in $\mu\text{g}/\text{m}^3$	284	IS 5182 : Part.4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in $\mu\text{g}/\text{m}^3$	144	IS 5182: Part 23 : 2012
3	Sulphur dioxide (SO_2) in $\mu\text{g}/\text{m}^3$	5.1	IS: 5182 (Part-2)-2001,(RA-2012)
4	Nitrogen dioxide (NO_2) in $\mu\text{g}/\text{m}^3$	25.5	IS: 5182 (Part- 6)-2012
NOTE: ---			

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TEST REPORT

Name & Address Of the Customer :	ULR No. : TC627121000001195F
M/s. Neo Metaliks Ltd.	Report No. : QLS/A/21-22/C/89
Vill + P.O. : Gopalpur	Date : 15.05.2021
P.S. : Kanksa,Durgapur	Sample No. : QLS/A/21-22/89
Paschim Bardhaman	Sample Description : Work Zone Monitoring
West Bengal – 713 212	Ref No. Date : W120206-01, Dated: 06.02.2021

Analysis Result

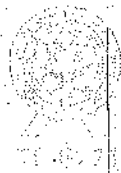
Location : Hot Metal Bay		Date of sampling : 07.05.2021	
Sampling Done by: S.Ghosh/D.Sahoo		Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Cloudy & Rainy			
Sl. No.	Pollutants	Result	Method of Test Reference
1	Total Suspended Particulate Matter in $\mu\text{g}/\text{m}^3$	143	IS 5182 ; Part.4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in $\mu\text{g}/\text{m}^3$	107	IS 5182: Part 23 : 2012
3	Sulphur dioxide (SO_2) in $\mu\text{g}/\text{m}^3$	9.2	IS: 5182 (Part-2)-2001,(RA-2012)
4	Nitrogen dioxide (NO_2) in $\mu\text{g}/\text{m}^3$	32.3	IS: 5182 (Part- 6)-2012
NOTE: ----			

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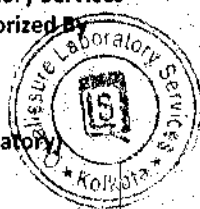
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M/s. Neo Metaliks Ltd.	Report No. : QLS/A/21-22/C/90
Vill + P.O. : Gopalpur	Date : 15.05.2021
P.S. : Kanksa, Durgapur	Sample No. : QLS/A/21-22/90
Paschim Bardhaman	Sample Description : Work Zone Monitoring
West Bengal – 713 212	Ref No. Date : W120206-01, Dated: 06.02.2021

Analysis Result

Location : Near Tail ESP		Date of sampling : 07.05.2021	
Sampling Done by: S. Ghosh/D.Sahoo		Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Cloudy & Rainy			
Sl. No.	Pollutants	Result	Method of Test Reference
1	Total Suspended Particulate Matter in $\mu\text{g}/\text{m}^3$	298	IS 5182 : Part.4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in $\mu\text{g}/\text{m}^3$	155	IS 5182: Part 23 : 2012
3	Sulphur dioxide (SO_2) in $\mu\text{g}/\text{m}^3$	7.5	IS: 5182 (Part-2)-2001,(RA-2012)
4	Nitrogen dioxide (NO_2) in $\mu\text{g}/\text{m}^3$	30.7	IS: 5182 (Part- 6)-2012
NOTE: ----			

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

TEST REPORT

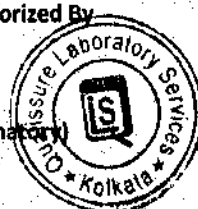
Name & Address Of the Customer :	ULR No. : TC627121000001197F
M/s. Neo Metaliks Ltd.	Report No. : QLS/A/21-22/C/91
Vill + P.O. : Gopalpur	Date : 15.05.2021
P.S. : Kanksa, Durgapur	Sample No. : QLS/A/21-22/91
Paschim Bardhaman	Sample Description : Work Zone Monitoring
West Bengal – 713 212	Ref No. Date : W120206-01, Dated: 06.02.2021

Analysis Result

Location : Ground Hopper		Date of sampling : 08.05.2021	
Sampling Done by: S. Ghosh/D.Sahoo		Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Cloudy & Drizzle			
Sl. No.	Pollutants	Result	Method of Test Reference
1	Total Suspended Particulate Matter in $\mu\text{g}/\text{m}^3$	310	IS 5182 : Part.4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in $\mu\text{g}/\text{m}^3$	188	IS 5182 : Part 23 : 2012
3	Sulphur dioxide (SO_2) In $\mu\text{g}/\text{m}^3$	6.9	IS: 5182 (Part-2)-2001,(RA-2012)
4	Nitrogen dioxide (NO_2) in $\mu\text{g}/\text{m}^3$	31.8	IS: 5182 (Part- 6)-2012
NOTE: ---			

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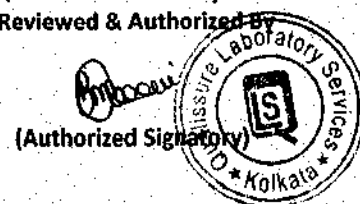
TEST REPORT

Name & Address Of the Customer :	ULR No. : TC627121000001198F
M/s. Neo Metaliks Ltd.	Report No. : QLS/A/21-22/C/92
Vill + P.O. : Gopalpur	Date : 15.05.2021
P.S. : Kanksa, Durgapur	Sample No. : QLS/A/21-22/92
Paschim Bardhaman	Sample Description : Work Zone Monitoring
West Bengal - 713 212	Ref No. Date : W120206-01, Dated: 06.02.2021

Analysis Result

Location : Near Head ESP		Date of sampling : 08.05.2021	
Sampling Done by: S.Ghosh/D.Sahoo		Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Cloudy & Drizzle			
Sl. No.	Pollutants	Result	Method of Test Reference
1	Total Suspended Particulate Matter in $\mu\text{g}/\text{m}^3$	341	IS 5182 : Part-4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in $\mu\text{g}/\text{m}^3$	189	IS 5182: Part 23 : 2012
3	Sulphur dioxide (SO ₂) in $\mu\text{g}/\text{m}^3$	7.2	IS: 5182 (Part-2)-2001,(RA-2012)
4	Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$	32.1	IS: 5182 (Part- 6)-2012
NOTE: ---			

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Qualissure Laboratory Services



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

TEST REPORT

Name & Address Of the Customer :	ULR No.	: TC627121000002060F
	Report No.	: QLS/W/21-22/C/177
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa, Durgapur Paschim Bardhaman West Bengal – 713212	Date	: 09.09.2021
	Sample No.	: QLS/W/21-22/177
	Sample Description	: Drinking Water
	Sample Mark/ Location	: Canteen Area
	Sample Drawn On	: 28.08.2021
	Sampling Method	: IS 3025(Part 1): 1987 (RA 2019)
	Date of Performance	: 31.08.2021-08.09.2021
	Ref No. Date	: W121901-001 Dated 09.09.2021

Analysis Result

(A) Microbiological Analysis

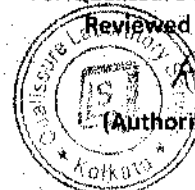
Sl.No.	Characteristic	Limit as Per IS 10500:2012 Amd. 2	Test Method	Result
1.	E.coli/100ml	Not Detectable	IS 15185-2016	Not Detected
2.	Total Coliform Bacteria/100ml	Not Detectable	IS 15185-2016	Not Detected

(B) Chemical Analysis

Sl. No.	Test Parameter	Test Method	IS 10500:2012Amd. 1 & 2		Result
			Acceptable Limit	Permissible Limit	
1.	Colour in Hazen Units	IS 3025 (Part 4): 1983 (RA 2012)	5	15	<1.0
2.	Odour	IS 3025 (Part 5): 1983 (RA 2012)	Agreeable	Agreeable	Agreeable
3.	pH Value at 25°C	IS 3025 (Part 11): 1984 (RA 2012)	6.5-8.5	No Relaxation	6.83
4.	Turbidity in NTU	IS 3025 (Part 10): 1984 (RA 2012)	1	5	<1.0
5.	Total Dissolved Solids (as TDS) in mg/l	IS 3025 (Part 16): 1984 (RA 2012)	500	2000	188
6.	Aluminium (as Al) in mg/l	IS 3025 (Part 55): 2003 (RA 2014)	0.03	0.2	<0.01
7.	Ammonia as NH ₃ in mg/l	IS 3025 (Part 34): 1988(RA 2014)	0.5	No Relaxation	<0.1
8.	Anionic Detergents(as MBAS) in mg/l	IS 13428-2005(Annex K)	0.2	1.0	<0.02
9.	Boron(as B) in mg/l	IS 13428-2005(Annex L)	0.5	2.4	<0.5
10.	Calcium(as Ca) in mg/l	IS 3025 (Part 40): 1991(RA 2014)	75	200	27.7
11.	Chloride(as Cl) in mg/l	IS 3025 (Part 32): 1988 (RA 2014)	250	1000	48.9
12.	Copper(as Cu) in mg/l	IS 3025 (Part 42): 1992(RA 2014)	0.05	1.5	<0.02
13.	Fluoride(as F) in mg/l	APHA 23rd Edition 2017, 4500 F D	1.0	1.5	<0.1
14.	Free Residual Chlorine in mg/l	IS 3025 (Part 26): 1986(RA 2014)	0.2	1.0	<0.1
15.	Iron (as Fe) in mg/l	IS 3025 (Part 53): 1988(RA 2014)	1.0	No Relaxation	<0.05
16.	Magnesium(as Mg) in mg/l	IS 3025 (Part 46): 1994(RA 2014)	30	100	11.9
17.	Manganese (as Mn) in mg/l	IS 3025 (Part 59): 2006 (RA 2014)	0.1	0.3	<0.02
18.	Nitrate (as NO ₃) in mg/l	IS 3025 (Part 34): 1988(RA 2014)	45	No Relaxation	<0.05
19.	Phenolic Compounds(as C ₆ H ₅ OH) in mg/l	IS 3025 (Part 43): 1992(RA 2014)	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 2014)	200	400	7.5
22.	Alkalinity(as CaCO ₃) in mg/l	IS 3025 (Part 23): 1986(RA 2014)	200	600	46.6
23.	Total Hardness (as CaCO ₃) in mg/l	IS 3025 (Part 21): 2013	200	600	118.8
24.	Cadmium(as Cd) in mg/l	IS 3025 (Part 41): 1992(RA 2014)	0.003	No Relaxation	<0.002
25.	Cyanide(as CN) in mg/l	IS 3025 (Part 27): 1986(RA 2014)	0.05	No Relaxation	<0.02
26.	Lead(as Pb) in mg/l	IS 3025 (Part 47): 1994 (RA 2014)	0.01	No Relaxation	<0.01
27.	Mercury(as Hg) in mg/l	IS 3025 (Part 48): 1994(RA 2014)	0.001	No Relaxation	<0.001
28.	Arsenic(as As) in mg/l	IS 3025 (Part 37): 1988 (RA 2014)	0.01	No Relaxation	<0.01
29.	Zinc(as Zn) in mg/l	IS 3025 (Part 49): 1994 (RA 2014)	5	15	<0.02
30.	Total Chromium (as Cr) in mg/l	IS 3025 (Part 52): 2014 (RA 2014)	0.05	No Relaxation	<0.05

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A. Roy

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TEST REPORT

Name & Address Of the Customer :	ULR No.	: TC627121000002059F
	Report No.	: QLS/W/21-22/C/176
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa, Durgapur Paschim Bardhaman West Bengal – 713212	Date	: 09.09.2021
	Sample No.	: QLS/W/21-22/176
	Sample Description	: Drinking Water
	Sample Mark/ Location	: CPP Area
	Sample Drawn On	: 28.08.2021
	Sampling Method	: IS 3025(Part 1): 1987 (RA 2019)
	Date of Performance	: 31.08.2021-08.09.2021
	Ref No. Date	: W121901-001 Dated 09.09.2021

Analysis Result

(A) Microbiological Analysis

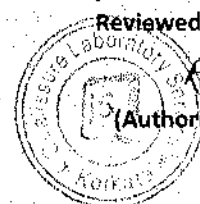
Sl.No.	Characteristic	Limit as Per IS 10500:2012 Amd. 2	Test Method	Result
1.	E.coli/100ml	Not Detectable	IS 15185-2016	Not Detected
2.	Total Coliform Bacteria/100ml	Not Detectable	IS 15185-2016	Not Detected

(B) Chemical Analysis

Sl. No.	Test Parameter	Test Method	IS 10500:2012Amd. 1 & 2		Result
			Acceptable Limit	Permissible Limit	
1.	Colour in Hazen Units	IS 3025 (Part 4): 1983 (RA 2012)	5	15	<1.0
2.	Odour	IS 3025 (Part 5): 1983 (RA 2012)	Agreeable	Agreeable	Agreeable
3.	pH Value at 25°C	IS 3025 (Part 11): 1984 (RA 2012)	6.5-8.5	No Relaxation	6.86
4.	Turbidity in NTU	IS 3025 (Part 10): 1984 (RA 2012)	1	5	<1.0
5.	Total Dissolved Solids (as TDS) in mg/l	IS 3025 (Part 16): 1984 (RA 2012)	500	2000	278
6.	Aluminium (as Al) in mg/l	IS 3025 (Part 55): 2003 (RA 2014)	0.03	0.2	<0.01
7.	Ammonia as NH ₃ in mg/l	IS 3025 (Part 34): 1988(RA 2014)	0.5	No Relaxation	<0.1
8.	Anionic Detergents(as MBAS) in mg/l	IS 13428-2005(Annex K)	0.2	1.0	<0.02
9.	Boron(as B) in mg/l	IS 13428-2005(Annex L)	0.5	2.4	<0.5
10.	Calcium(as Ca) in mg/l	IS 3025 (Part 40): 1991(RA 2014)	75	200	59.4
11.	Chloride(as Cl) in mg/l	IS 3025 (Part 32): 1988 (RA 2014)	250	1000	57.8
12.	Copper(as Cu) in mg/l	IS 3025 (Part 42): 1992(RA 2014)	0.05	1.5	<0.02
13.	Fluoride(as F) in mg/l	APHA 23rd Edition 2017, 4500 F D	1.0	1.5	<0.1
14.	Free Residual Chlorine in mg/l	IS 3025 (Part 26): 1986(RA 2014)	0.2	1.0	<0.1
15.	Iron (as Fe) in mg/l	IS 3025 (Part 53): 1988(RA 2014)	1.0	No Relaxation	0.12
16.	Magnesium(as Mg) in mg/l	IS 3025 (Part 46): 1994(RA 2014)	30	100	26.1
17.	Manganese (as Mn) in mg/l	IS 3025 (Part 59): 2006 (RA 2014)	0.1	0.3	<0.02
18.	Nitrate (as NO ₃) in mg/l	IS 3025 (Part 34): 1988(RA 2014)	45	No Relaxation	<0.05
19.	Phenolic Compounds(as C ₆ H ₅ OH) in mg/l	IS 3025 (Part 43): 1992(RA 2014)	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 2014)	200	400	1.5
22.	Alkalinity(as CaCO ₃) in mg/l	IS 3025 (Part 23): 1986(RA 2014)	200	600	93.2
23.	Total Hardness (as CaCO ₃) in mg/l	IS 3025 (Part 21): 2013	200	600	257.4
24.	Cadmium(as Cd) in mg/l	IS 3025 (Part 41): 1992(RA 2014)	0.003	No Relaxation	<0.002
25.	Cyanide(as CN) in mg/l	IS 3025 (Part 27): 1986(RA 2014)	0.05	No Relaxation	<0.02
26.	Lead(as Pb) in mg/l	IS 3025 (Part 47): 1994 (RA 2014)	0.01	No Relaxation	<0.01
27.	Mercury(as Hg) in mg/l	IS 3025 (Part 48): 1994(RA 2014)	0.001	No Relaxation	<0.001
28.	Arsenic(as As) in mg/l	IS 3025 (Part 37): 1988 (RA 2014)	0.01	No Relaxation	<0.01
29.	Zinc(as Zn) in mg/l	IS 3025 (Part 49): 1994 (RA 2014)	5	15	<0.02
30.	Total Chromium (as Cr) in mg/l	IS 3025 (Part 52): 2014(RA 2014)	0.05	No Relaxation	<0.05

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TEST REPORT

Name & Address Of the Customer :	ULR No.	: TC627121000002055F
	Report No.	: QLS/W/21-22/C/172
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa, Durgapur Paschim Bardhaman West Bengal – 713212	Date	: 09.09.2021
	Sample No.	: QLS/W/21-22/172
	Sample Description	: Drinking Water
	Sample Mark/ Location	: MIS Area
	Sample Drawn On	: 28.08.2021
	Sampling Method	: IS 3025(Part 1): 1987 (RA 2019)
	Date of Performance	: 31.08.2021-08.09.2021
	Ref No. Date	: W121901-001 Dated 09.09.2021

Analysis Result

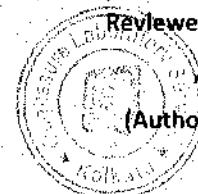
(A) Microbiological Analysis

Sl.No.	Characteristic	Limit as Per IS 10500:2012 Amd. 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

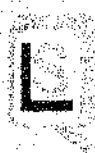
Sl. No.	Test Parameter	Test Method	IS 10500:2012Amd. 1 & 2		Result
			Acceptable Limit	Permissible Limit	
1.	Colour in Hazen Units	IS 3025 (Part 4): 1983 (RA 2012)	5	15	<1.0
2.	Odour	IS 3025 (Part 5): 1983 (RA 2012)	Agreeable	Agreeable	Agreeable
3.	pH Value at 25°C	IS 3025 (Part 11): 1984 (RA 2012)	6.5-8.5	No Relaxation	6.82
4.	Turbidity in NTU	IS 3025 (Part 10): 1984 (RA 2012)	1	5	<1.0
5.	Total Dissolved Solids (as TDS) in mg/l	IS 3025 (Part 16): 1984 (RA 2012)	500	2000	168
6.	Aluminium (as Al) in mg/l	IS 3025 (Part 55): 2003 (RA 2014)	0.03	0.2	<0.01
7.	Ammonia as NH ₃ in mg/l	IS 3025 (Part 34): 1988(RA 2014)	0.5	No Relaxation	<0.1
8.	Anionic Detergents(as MBAS) in mg/l	IS 13428-2005(Annex K)	0.2	1.0	<0.02
9.	Boron(as B) in mg/l	IS 13428-2005(Annex L)	0.5	2.4	<0.5
10.	Calcium(as Ca) in mg/l	IS 3025 (Part 40): 1991(RA 2014)	75	200	27.7
11.	Chloride(as Cl) in mg/l	IS 3025 (Part 32): 1988 (RA 2014)	250	1000	44.5
12.	Copper(as Cu) in mg/l	IS 3025 (Part 42): 1992(RA 2014)	0.05	1.5	<0.02
13.	Fluoride(as F) in mg/l	APHA 23rd Edition 2017, 4500 F D	1.0	1.5	<0.1
14.	Free Residual Chlorine in mg/l	IS 3025 (Part 26): 1986(RA 2014)	0.2	1.0	<0.1
15.	Iron (as Fe) in mg/l	IS 3025 (Part 53): 1988(RA 2014)	1.0	No Relaxation	<0.05
16.	Magnesium(as Mg) in mg/l	IS 3025 (Part 46): 1994(RA 2014)	30	100	14.3
17.	Manganese (as Mn) in mg/l	IS 3025 (Part 59): 2006 (RA 2014)	0.1	0.3	<0.02
18.	Nitrate (as NO ₃) in mg/l	IS 3025 (Part 34): 1988(RA 2014)	45	No Relaxation	<0.05
19.	Phenolic Compounds(as C ₆ H ₅ OH) in mg/l	IS 3025 (Part 43): 1992(RA 2014)	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 2014)	200	400	3.9
22.	Alkalinity(as CaCO ₃) in mg/l	IS 3025 (Part 23): 1986(RA 2014)	200	600	35
23.	Total Hardness (as CaCO ₃) in mg/l	IS 3025 (Part 21): 2013	200	600	128.7
24.	Cadmium(as Cd) in mg/l	IS 3025 (Part 41): 1992(RA 2014)	0.003	No Relaxation	<0.002
25.	Cyanide(as CN) in mg/l	IS 3025 (Part 27): 1986(RA 2014)	0.05	No Relaxation	<0.02
26.	Lead(as Pb) in mg/l	IS 3025 (Part 47): 1994 (RA 2014)	0.01	No Relaxation	<0.01
27.	Mercury(as Hg) in mg/l	IS 3025 (Part 48): 1994(RA 2014)	0.001	No Relaxation	<0.001
28.	Arsenic(as As) in mg/l	IS 3025 (Part 37): 1988 (RA 2014)	0.01	No Relaxation	<0.01
29.	Zinc(as Zn) in mg/l	IS 3025 (Part 49): 1994 (RA 2014)	5	15	<0.02
30.	Total Chromium (as Cr) in mg/l	IS 3025 (Part 52): 2014(RA 2014)	0.05	No Relaxation	<0.05

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R. Roy
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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 – 713212	ULR No.	: TC627121000002054F
	Report No.	: QLS/W/21-22/C/171
	Date	: 09.09.2021
	Sample No.	: QLS/W/21-22/171
	Sample Description	: Drinking Water
	Sample Mark/ Location	: Admin Building
	Sample Drawn On	: 28.08.2021
	Sampling Method	: IS 3025(Part 1): 1987 (RA 2019)
	Date of Performance	: 31.08.2021-08.09.2021
	Ref No. Date	: W121901-001 Dated 09.09.2021

Analysis Result

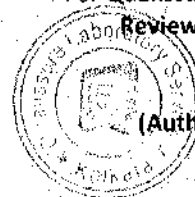
(A) Microbiological Analysis

Sl.No.	Characteristic	Limit as Per IS 10500:2012 Amd. 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. 1 & 2		Result
			Acceptable Limit	Permissible Limit	
1.	Colour in Hazen Units	IS 3025 (Part 4): 1983 (RA 2012)	5	15	<1.0
2.	Odour	IS 3025 (Part 5): 1983 (RA 2012)	Agreeable	Agreeable	Agreeable
3.	pH Value at 25°C	IS 3025 (Part 11): 1984 (RA 2012)	6.5-8.5	No Relaxation	6.89
4.	Turbidity in NTU	IS 3025 (Part 10): 1984 (RA 2012)	1	5	<1.0
5.	Total Dissolved Solids (as TDS) in mg/l	IS 3025 (Part 16): 1984 (RA 2012)	500	2000	178
6.	Aluminium (as Al) in mg/l	IS 3025 (Part 55): 2003 (RA 2014)	0.03	0.2	<0.01
7.	Ammonia as NH ₃ in mg/l	IS 3025 (Part 34): 1988(RA 2014)	0.5	No Relaxation	<0.1
8.	Anionic Detergents(as MBAS) in mg/l	IS 13428-2005(Annex K)	0.2	1.0	<0.02
9.	Boron(as B) in mg/l	IS 13428-2005(Annex L)	0.5	2.4	<0.5
10.	Calcium(as Ca) in mg/l	IS 3025 (Part 40): 1991(RA 2014)	75	200	31.7
11.	Chloride(as Cl) in mg/l	IS 3025 (Part 32): 1988(RA 2014)	250	1000	40
12.	Copper(as Cu) in mg/l	IS 3025 (Part 42): 1992(RA 2014)	0.05	1.5	<0.02
13.	Fluoride(as F) in mg/l	APHA 23rd Edition 2017, 4500 F D	1.0	1.5	<0.1
14.	Free Residual Chlorine in mg/l	IS 3025 (Part 26): 1986(RA 2014)	0.2	1.0	<0.1
15.	Iron (as Fe) in mg/l	IS 3025 (Part 53): 1988(RA 2014)	1.0	No Relaxation	<0.05
16.	Magnesium(as Mg) in mg/l	IS 3025 (Part 46): 1994(RA 2014)	30	100	14.3
17.	Manganese (as Mn) in mg/l	IS 3025 (Part 59): 2006 (RA 2014)	0.1	0.3	<0.02
18.	Nitrate (as NO ₃) in mg/l	IS 3025 (Part 34): 1988(RA 2014)	45	No Relaxation	<0.05
19.	Phenolic Compounds(as C ₆ H ₅ OH) in mg/l	IS 3025 (Part 43): 1992(RA 2014)	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 2014)	200	400	5.2
22.	Alkalinity(as CaCO ₃) in mg/l	IS 3025 (Part 23): 1986(RA 2014)	200	600	46.6
23.	Total Hardness (as CaCO ₃) in mg/l	IS 3025 (Part 21): 2013	200	600	138.6
24.	Cadmium(as Cd) in mg/l	IS 3025 (Part 41): 1992(RA 2014)	0.003	No Relaxation	<0.002
25.	Cyanide(as CN) in mg/l	IS 3025 (Part 27): 1986(RA 2014)	0.05	No Relaxation	<0.02
26.	Lead(as Pb) in mg/l	IS 3025 (Part 47): 1994 (RA 2014)	0.01	No Relaxation	<0.01
27.	Mercury(as Hg) in mg/l	IS 3025 (Part 48): 1994(RA 2014)	0.001	No Relaxation	<0.001
28.	Arsenic(as As) in mg/l	IS 3025 (Part 37): 1988 (RA 2014)	0.01	No Relaxation	<0.01
29.	Zinc(as Zn) in mg/l	IS 3025 (Part 49): 1994 (RA 2014)	5	15	<0.02
30.	Total Chromium (as Cr) in mg/l	IS 3025 (Part 52): 2014(RA 2014)	0.05	No Relaxation	<0.05

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Reviewed & Authorized By



R. Roy
(Authorized Signatory)

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TEST REPORT

Name & Address Of the Customer :	ULR No.	TC62712100002053F
	Report No.	QLS/W/21-22/C/170
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa, Durgapur Paschim Bardhaman West Bengal – 713212	Date	09.09.2021
	Sample No.	QLS/W/21-22/170
	Sample Description	Drinking Water
	Sample Mark/ Location	Main Building
	Sample Drawn On	28.08.2021
	Sampling Method	IS 3025(Part 1): 1987 (RA 2019)
	Date of Performance	31.08.2021-08.09.2021
	Ref No. Date	W121901-001 Dated 09.09.2021

Analysis Result

(A) Microbiological Analysis

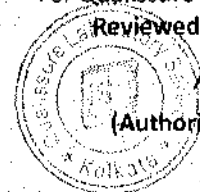
Sl.No.	Characteristic	Limit as Per IS 10500:2012 Amd. 2	Test Method	Result
1.	E.coli/100ml	Not Detectable	IS 15185-2016	Not Detected
2.	Total Coliform Bacteria/100ml	Not Detectable	IS 15185-2016	Not Detected

(B) Chemical Analysis

Sl. No.	Test Parameter	Test Method	IS 10500:2012Amd. 1 & 2		Result
			Acceptable Limit	Permissible Limit	
1.	Colour in Hazen Units	IS 3025 (Part 4): 1983 (RA 2012)	5	15	<1.0
2.	Odour	IS 3025 (Part 5): 1983 (RA 2012)	Agreeable	Agreeable	Agreeable
3.	pH Value at 25°C	IS 3025 (Part 11): 1984 (RA 2012)	6.5-8.5	No Relaxation	6.96
4.	Turbidity in NTU	IS 3025 (Part 10): 1984 (RA 2012)	1	5	<1.0
5.	Total Dissolved Solids (as TDS) in mg/l	IS 3025 (Part 16): 1984 (RA 2012)	500	2000	208
6.	Aluminium (as Al) in mg/l	IS 3025 (Part 55): 2003 (RA 2014)	0.03	0.2	<0.01
7.	Ammonia (as NH ₃) in mg/l	IS 3025 (Part 34): 1988(RA 2014)	0.5	No Relaxation	<0.1
8.	Anionic Detergents(as MBAS) in mg/l	IS 13428-2005(Annex K)	0.2	1.0	<0.02
9.	Boron(as B) in mg/l	IS 13428-2005(Annex L)	0.5	2.4	<0.5
10.	Calcium(as Ca) in mg/l	IS 3025 (Part 40): 1991(RA 2014)	75	200	27.7
11.	Chloride(as Cl) in mg/l	IS 3025 (Part 32): 1988 (RA 2014)	250	1000	48.9
12.	Copper(as Cu) in mg/l	IS 3025 (Part 42): 1992(RA 2014)	0.05	1.5	<0.02
13.	Fluoride(as F) in mg/l	APHA 23rd Edition 2017, 4500 F D	1.0	1.5	<0.1
14.	Free Residual Chlorine in mg/l	IS 3025 (Part 26): 1986(RA 2014)	0.2	1.0	<0.1
15.	Iron (as Fe) in mg/l	IS 3025 (Part 53): 1988(RA 2014)	1.0	No Relaxation	0.08
16.	Magnesium(as Mg) in mg/l	IS 3025 (Part 46): 1994(RA 2014)	30	100	11.9
17.	Manganese (as Mn) in mg/l	IS 3025 (Part 59): 2006 (RA 2014)	0.1	0.3	<0.02
18.	Nitrate (as NO ₃) in mg/l	IS 3025 (Part 34): 1988(RA 2014)	45	No Relaxation	<0.05
19.	Phenolic Compounds(as C ₆ H ₅ OH) in mg/l	IS 3025 (Part 43): 1992(RA 2014)	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 2014)	200	400	4.9
22.	Alkalinity(as CaCO ₃) in mg/l	IS 3025 (Part 23): 1986(RA 2014)	200	600	93.2
23.	Total Hardness (as CaCO ₃) in mg/l	IS 3025 (Part 21): 2013	200	600	118.8
24.	Cadmium(as Cd) in mg/l	IS 3025 (Part 41): 1992(RA 2014)	0.003	No Relaxation	<0.002
25.	Cyanide(as CN) in mg/l	IS 3025 (Part 27): 1986(RA 2014)	0.05	No Relaxation	<0.02
26.	Lead(as Pb) in mg/l	IS 3025 (Part 47): 1994 (RA 2014)	0.01	No Relaxation	<0.01
27.	Mercury(as Hg) in mg/l	IS 3025 (Part 48): 1994(RA 2014)	0.001	No Relaxation	<0.001
28.	Arsenic(as As) in mg/l	IS 3025 (Part 37): 1988 (RA 2014)	0.01	No Relaxation	<0.01
29.	Zinc(as Zn) in mg/l	IS 3025 (Part 49): 1994 (RA 2014)	5	15	<0.02
30.	Total Chromium (as Cr) in mg/l	IS 3025 (Part 52): 2014(RA 2014)	0.05	No Relaxation	<0.05

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

TEST REPORT

Name & Address Of the Customer :	ULR No.	: TC627121000002052F
	Report No.	: QLS/W/21-22/C/169
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa, Durgapur Paschim Bardhaman West Bengal – 713212	Date	: 09.09.2021
	Sample No.	: QLS/W/21-22/169
	Sample Description	: Drinking Water
	Sample Mark/ Location	: MBF Stove Cooling Tower Back
	Sample Drawn On	: 28.08.2021
	Sampling Method	: IS 3025(Part 1): 1987 (RA 2019)
	Date of Performance	: 31.08.2021-08.09.2021
	Ref No. Date	: W121901-001 Dated 09.09.2021

Analysis Result

(A) Microbiological Analysis

Sl.No.	Characteristic	Limit as Per IS 10500:2012 Amd. 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. 1 & 2		Result
			Acceptable Limit	Permissible Limit	
1.	Colour in Hazen Units	IS 3025 (Part 4): 1983 (RA 2012)	5	15	<1.0
2.	Odour	IS 3025 (Part 5): 1983 (RA 2012)	Agreeable	Agreeable	Agreeable
3.	pH Value at 25°C	IS 3025 (Part 11): 1984 (RA 2012)	6.5-8.5	No Relaxation	6.85
4.	Turbidity in NTU	IS 3025 (Part 10): 1984 (RA 2012)	1	5	<1.0
5.	Total Dissolved Solids (as TDS) in mg/l	IS 3025 (Part 16): 1984 (RA 2012)	500	2000	318
6.	Aluminium (as Al) in mg/l	IS 3025 (Part 55): 2003 (RA 2014)	0.03	0.2	<0.01
7.	Ammonia as NH ₃ in mg/l	IS 3025 (Part 34): 1988(RA 2014)	0.5	No Relaxation	<0.1
8.	Anionic Detergents(as MBAS) in mg/l	IS 13428-2005(Annex K)	0.2	1.0	<0.02
9.	Boron(as B) in mg/l	IS 13428-2005(Annex L)	0.5	2.4	<0.5
10.	Calcium(as Ca) in mg/l	IS 3025 (Part 40): 1991(RA 2014)	75	200	47.5
11.	Chloride(as Cl) in mg/l	IS 3025 (Part 32): 1988 (RA 2014)	250	1000	88.9
12.	Copper(as Cu) in mg/l	IS 3025 (Part 42): 1992(RA 2014)	0.05	1.5	<0.02
13.	Fluoride(as F) in mg/l	APHA 23rd Edition 2017, 4500 F D	1.0	1.5	<0.1
14.	Free Residual Chlorine in mg/l	IS 3025 (Part 26): 1986(RA 2014)	0.2	1.0	<0.1
15.	Iron (as Fe) in mg/l	IS 3025 (Part 53): 1988(RA 2014)	1.0	No Relaxation	0.14
16.	Magnesium(as Mg) in mg/l	IS 3025 (Part 46): 1994(RA 2014)	30	100	23.8
17.	Manganese (as Mn) in mg/l	IS 3025 (Part 59): 2006 (RA 2014)	0.1	0.3	<0.02
18.	Nitrate (as NO ₃) in mg/l	IS 3025 (Part 34): 1988(RA 2014)	45	No Relaxation	<0.05
19.	Phenolic Compounds(as C ₆ H ₅ OH) in mg/l	IS 3025 (Part 43): 1992(RA 2014)	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 2014)	200	400	19.6
22.	Alkalinity(as CaCO ₃) in mg/l	IS 3025 (Part 23): 1986(RA 2014)	200	600	69.6
23.	Total Hardness (as CaCO ₃) in mg/l	IS 3025 (Part 21): 2013	200	600	217.8
24.	Cadmium(as Cd) in mg/l	IS 3025 (Part 41): 1992(RA 2014)	0.003	No Relaxation	<0.002
25.	Cyanide(as CN) in mg/l	IS 3025 (Part 27): 1986(RA 2014)	0.05	No Relaxation	<0.02
26.	Lead(as Pb) in mg/l	IS 3025 (Part 47): 1994 (RA 2014)	0.01	No Relaxation	<0.01
27.	Mercury(as Hg) in mg/l	IS 3025 (Part 48): 1994(RA 2014)	0.001	No Relaxation	<0.001
28.	Arsenic(as As) in mg/l	IS 3025 (Part 37): 1988 (RA 2014)	0.01	No Relaxation	<0.01
29.	Zinc(as Zn) in mg/l	IS 3025 (Part 49): 1994 (RA 2014)	5	15	<0.02
30.	Total Chromium (as Cr) in mg/l	IS 3025 (Part 52): 2014(RA 2014)	0.05	No Relaxation	<0.05

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TEST REPORT

Name & Address Of the Customer :	ULR No.	: TC627121000002050F
	Report No.	: QLS/W/21-22/C/167
M/s. Neo-Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa, Durgapur Paschim Bardhaman West Bengal – 713212	Date	: 09.09.2021
	Sample No.	: QLS/W/21-22/167
	Sample Description	: Drinking Water
	Sample Mark/ Location	: Stove Area
	Sample Drawn On	: 28.08.2021
	Sampling Method	: IS 3025(Part 1): 1987 (RA 2019)
	Date of Performance	: 31.08.2021-08.09.2021
	Ref No. Date	: W121901-001 Dated 09.09.2021

Analysis Result

(A) Microbiological Analysis

Sl.No.	Characteristic	Limit as Per IS 10500:2012 Amd. 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. 1 & 2		Result
			Acceptable Limit	Permissible Limit	
1.	Colour in Hazen Units	IS 3025 (Part 4): 1983 (RA 2012)	5	15	<1.0
2.	Odour	IS 3025 (Part 5): 1983 (RA 2012)	Agreeable	Agreeable	Agreeable
3.	pH Value at 25°C	IS 3025 (Part 11): 1984 (RA 2012)	6.5-8.5	No Relaxation	6.89
4.	Turbidity in NTU	IS 3025 (Part 10): 1984 (RA 2012)	1	5	<1.0
5.	Total Dissolved Solids (as TDS) in mg/l	IS 3025 (Part 16): 1984 (RA 2012)	500	2000	386
6.	Aluminium (as Al) in mg/l	IS 3025 (Part 55): 2003 (RA 2014)	0.03	0.2	<0.01
7.	Ammonia as NH ₃ in mg/l	IS 3025 (Part 34): 1988 (RA 2014)	0.5	No Relaxation	<0.1
8.	Anionic Detergents(as MBAS) in mg/l	IS 13428-2005(Annex K)	0.2	1.0	<0.02
9.	Boron(as B) in mg/l	IS 13428-2005(Annex L)	0.5	2.4	<0.5
10.	Calcium(as Ca) in mg/l	IS 3025 (Part 40): 1991(RA 2014)	75	200	47.5
11.	Chloride(as Cl) in mg/l	IS 3025 (Part 32): 1988 (RA 2014)	250	1000	84.5
12.	Copper(as Cu) in mg/l	IS 3025 (Part 42): 1992(RA 2014)	0.05	1.5	<0.02
13.	Fluoride(as F) in mg/l	APHA 23rd Edition 2017, 4500 F D	1.0	1.5	<0.1
14.	Free Residual Chlorine in mg/l	IS 3025 (Part 26): 1986(RA 2014)	0.2	1.0	<0.1
15.	Iron (as Fe) in mg/l	IS 3025 (Part 53): 1988(RA 2014)	1.0	No Relaxation	0.18
16.	Magnesium(as Mg) in mg/l	IS 3025 (Part 46): 1994(RA 2014)	30	100	16.6
17.	Manganese (as Mn) in mg/l	IS 3025 (Part 59): 2006 (RA 2014)	0.1	0.3	<0.02
18.	Nitrate (as NO ₃) in mg/l	IS 3025 (Part 34): 1988(RA 2014)	45	No Relaxation	<0.05
19.	Phenolic Compounds(as C ₆ H ₅ OH) in mg/l	IS 3025 (Part 43): 1992(RA 2014)	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 2014)	200	400	15.8
22.	Alkalinity(as CaCO ₃) in mg/l	IS 3025 (Part 23): 1986(RA 2014)	200	600	186.4
23.	Total Hardness (as CaCO ₃) in mg/l	IS 3025 (Part 21): 2013	200	600	188.1
24.	Cadmium(as Cd) in mg/l	IS 3025 (Part 41): 1992(RA 2014)	0.003	No Relaxation	<0.002
25.	Cyanide(as CN) in mg/l	IS 3025 (Part 27): 1986(RA 2014)	0.05	No Relaxation	<0.02
26.	Lead(as Pb) in mg/l	IS 3025 (Part 47): 1994 (RA 2014)	0.01	No Relaxation	<0.01
27.	Mercury(as Hg) in mg/l	IS 3025 (Part 48): 1994(RA 2014)	0.001	No Relaxation	<0.001
28.	Arsenic(as As) in mg/l	IS 3025 (Part 37): 1988 (RA 2014)	0.01	No Relaxation	<0.01
29.	Zinc(as Zn) in mg/l	IS 3025 (Part 49): 1994 (RA 2014)	5	15	<0.02
30.	Total Chromium (as Cr) in mg/l	IS 3025 (Part 52): 2014 (RA 2014)	0.05	No Relaxation	<0.05

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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 – 713212	ULR No.	: TC62712100002051F
	Report No.	: QLS/W/21-22/C/168
	Date	: 09.09.2021
	Sample No.	: QLS/W/21-22/168
	Sample Description	: Drinking Water
	Sample Mark/ Location	: Sinter Plant Mechanical Area
	Sample Drawn On	: 28.08.2021
	Sampling Method	: IS 3025(Part 1): 1987 (RA 2019)
	Date of Performance	: 31.08.2021-08.09.2021
	Ref No. Date	: W121901-001 Dated 09.09.2021

Analysis Result

(A) Microbiological Analysis

Sl.No.	Characteristic	Limit as Per IS 10500:2012 Amd. 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. 1 & 2		Result
			Acceptable Limit	Permissible Limit	
1.	Colour in Hazen Units	IS 3025 (Part 4): 1983 (RA 2012)	5	15	<1.0
2.	Odour	IS 3025 (Part 5): 1983 (RA 2012)	Agreeable	Agreeable	Agreeable
3.	pH Value at 25°C	IS 3025 (Part 11): 1984 (RA 2012)	6.5-8.5	No Relaxation	7.02
4.	Turbidity in NTU	IS 3025 (Part 10): 1984 (RA 2012)	1	5	<1.0
5.	Total Dissolved Solids (as TDS) in mg/l	IS 3025 (Part 16): 1984 (RA 2012)	500	2000	234
6.	Aluminium (as Al) in mg/l	IS 3025 (Part 55): 2003 (RA 2014)	0.03	0.2	<0.01
7.	Ammonia as NH ₃ in mg/l	IS 3025 (Part 34): 1988(RA 2014)	0.5	No Relaxation	<0.1
8.	Anionic Detergents(as MBAS) in mg/l	IS 13428-2005(Annex K)	0.2	1.0	<0.02
9.	Boron(as B) in mg/l	IS 13428-2005(Annex L)	0.5	2.4	<0.5
10.	Calcium(as Ca) in mg/l	IS 3025 (Part 40): 1991(RA 2014)	75	200	35.6
11.	Chloride(as Cl) in mg/l	IS 3025 (Part 32): 1988 (RA 2014)	250	1000	57.8
12.	Copper(as Cu) in mg/l	IS 3025 (Part 42): 1992(RA 2014)	0.05	1.5	<0.02
13.	Fluoride(as F) in mg/l	APHA 23rd Edition 2017, 4500 F D	1.0	1.5	<0.1
14.	Free Residual Chlorine in mg/l	IS 3025 (Part 26): 1986(RA 2014)	0.2	1.0	<0.1
15.	Iron (as Fe) in mg/l	IS 3025 (Part 53): 1988(RA 2014)	1.0	No Relaxation	0.11
16.	Magnesium(as Mg) in mg/l	IS 3025 (Part 46): 1994(RA 2014)	30	100	11.9
17.	Manganese (as Mn) in mg/l	IS 3025 (Part 59): 2006 (RA 2014)	0.1	0.3	<0.02
18.	Nitrate (as NO ₃) in mg/l	IS 3025 (Part 34): 1988(RA 2014)	45	No Relaxation	<0.05
19.	Phenolic Compounds(as C ₆ H ₅ OH) in mg/l	IS 3025 (Part 43): 1992(RA 2014)	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 2014)	200	400	2.7
22.	Alkalinity(as CaCO ₃) in mg/l	IS 3025 (Part 23): 1986(RA 2014)	200	600	104.9
23.	Total Hardness (as CaCO ₃) in mg/l	IS 3025 (Part 21): 2013	200	600	138.6
24.	Cadmium(as Cd) in mg/l	IS 3025 (Part 41): 1992(RA 2014)	0.003	No Relaxation	<0.002
25.	Cyanide(as CN) in mg/l	IS 3025 (Part 27): 1986(RA 2014)	0.05	No Relaxation	<0.02
26.	Lead(as Pb) in mg/l	IS 3025 (Part 47): 1994 (RA 2014)	0.01	No Relaxation	<0.01
27.	Mercury(as Hg) in mg/l	IS 3025 (Part 48): 1994(RA 2014)	0.001	No Relaxation	<0.001
28.	Arsenic(as As) in mg/l	IS 3025 (Part 37): 1988 (RA 2014)	0.01	No Relaxation	<0.01
29.	Zinc(as Zn) in mg/l	IS 3025 (Part 49): 1994 (RA 2014)	5	15	<0.02
30.	Total Chromium (as Cr) in mg/l	IS 3025 (Part 52): 2014 (RA 2014)	0.05	No Relaxation	<0.05

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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 – 713212	ULR No.	: TC627121000001711F
	Report No.	: QLS/W/21-22/C/113
	Date	: 28.07.2021
	Sample No.	: QLS/W/21-22/113
	Sample Description	: Drinking Water
	Sample Mark/ Location	: MBF Plant
	Sample Drawn On	: 17.07.2021
	Sampling Method	: IS 3025(Part 1): 1987 (RA 2019)
	Date of Performance	: 20.07.2021 - 27.07.2021
	Ref No. Date	: W120206-01, Dated: 06.02.2021

(A) Microbiological Analysis

Sl.No.	Characteristic	Limit as Per IS 10500:2012 Amd. 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. 1 & 2		Result
			Acceptable Limit	Permissible Limit	
1.	Colour in Hazen Units	IS 3025 (Part 4): 1983 (RA 2012)	5	15	<1.0
2.	Odour	IS 3025 (Part 5): 1983 (RA 2012)	Agreeable	Agreeable	Agreeable
3.	pH Value at 25°C	IS 3025 (Part 11): 1984 (RA 2012)	6.5-8.5	No Relaxation	7.12
4.	Turbidity in NTU	IS 3025 (Part 10): 1984 (RA 2012)	1	5	<1.0
5.	Total Dissolved Solids (as TDS) in mg/l	IS 3025 (Part 16): 1984 (RA 2012)	500	2000	312
6.	Aluminium (as Al) in mg/l	IS 3025 (Part 55): 2003 (RA 2014)	0.03	0.2	<0.01
7.	Ammonia as NH ₃ in mg/l	IS 3025 (Part 34): 1988(RA 2014)	0.5	No Relaxation	<0.1
8.	Anionic Detergents(as MBAS) in mg/l	IS 13428-2005(Annex K)	0.2	1.0	<0.02
9.	Boron(as B) in mg/l	IS 13428-2005(Annex L)	0.5	2.4	<0.5
10.	Calcium(as Ca) in mg/l	IS 3025 (Part 40): 1991(RA 2014)	75	200	52.2
11.	Chloride(as Cl) in mg/l	IS 3025 (Part 32): 1988 (RA 2014)	250	1000	49.6
12.	Copper(as Cu) in mg/l	IS 3025 (Part 42): 1992(RA 2014)	0.05	1.5	<0.02
13.	Fluoride(as F) in mg/l	APHA 23rd Edition 2017, 4500 F D	1.0	1.5	<0.1
14.	Free Residual Chlorine in mg/l	IS 3025 (Part 26): 1986(RA 2014)	0.2	1.0	<0.1
15.	Iron (as Fe) in mg/l	IS 3025 (Part 53): 1988(RA 2014)	1.0	No Relaxation	0.19
16.	Magnesium(as Mg) in mg/l	IS 3025 (Part 46): 1994(RA 2014)	30	100	18.3
17.	Manganese (as Mn) in mg/l	IS 3025 (Part 59): 2006 (RA 2014)	0.1	0.3	<0.02
18.	Nitrate (as NO ₃) in mg/l	IS 3025 (Part 34): 1988(RA 2014)	45	No Relaxation	<0.05
19.	Phenolic Compounds(as C ₆ H ₅ OH) in mg/l	IS 3025 (Part 43): 1992(RA 2014)	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 2014)	200	400	7.4
22.	Alkalinity(as CaCO ₃) in mg/l	IS 3025 (Part 23): 1986(RA 2014)	200	600	184
23.	Total Hardness (as CaCO ₃) in mg/l	IS 3025 (Part 21): 2013	200	600	206.7
24.	Cadmium(as Cd) in mg/l	IS 3025 (Part 41): 1992(RA 2014)	0.003	No Relaxation	<0.002
25.	Cyanide(as CN) in mg/l	IS 3025 (Part 27): 1986(RA 2014)	0.05	No Relaxation	<0.02
26.	Lead(as Pb) in mg/l	IS 3025 (Part 47): 1994 (RA 2014)	0.01	No Relaxation	<0.01
27.	Mercury(as Hg) in mg/l	IS 3025 (Part 48): 1994(RA 2014)	0.001	No Relaxation	<0.001
28.	Arsenic(as As) in mg/l	IS 3025 (Part 37): 1988 (RA 2014)	0.01	No Relaxation	<0.01
29.	Zinc(as Zn) in mg/l	IS 3025 (Part 49): 1994 (RA 2014)	5	15	<0.02
30.	Total Chromium (as Cr) in mg/l	IS 3025 (Part 52): 2014(RA 2014)	0.05	No Relaxation	<0.05

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TEST REPORT

Name & Address Of the Customer :	ULR No.	: TC527121000001200F
	Report No.	: QLS/W/21-22/C/50
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa, Durgapur Paschim Bardhaman West Bengal – 713212	Date	: 15.05.2021
	Sample No.	: QLS/W/21-22/50
	Sample Description	: Drinking Water
	Sample Mark/ Location	: MBF Plant
	Sample Drawn On	: 08.05.2021
	Ref No. Date	: W120206-01, Dated: 06.02.2021

(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. 1 & 2		Result
			Desirable Limit	Permissible Limit	
1.	Colour in Hazen Units	IS 3025 (Part 4): 1983 (RA 2012)	5	15	<1.0
2.	Odour	IS 3025 (Part 5): 1983 (RA 2012)	Agreeable	Agreeable	Agreeable
3.	pH Value at 25°C	IS 3025 (Part 11): 1984 (RA 2012)	6.5-8.5	No Relaxation	7.38
4.	Turbidity in NTU	IS 3025 (Part 10): 1984 (RA 2012)	1	5	<1.0
5.	Total Dissolved Solids (as TDS) in mg/l	IS 3025 (Part 16): 1984 (RA 2012)	500	2000	280.0
6.	Aluminium (as Al) in mg/l	IS 3025 (Part 55): 2003 (RA 2014)	0.03	0.2	<0.01
7.	Ammonia as NH ₃ in mg/l	IS 3025 (Part 34): 1988(RA 2014)	0.5	No Relaxation	<0.1
8.	Anionic Detergents(as MBAS) in mg/l	IS 13428-2005(Annex K)	0.2	1.0	<0.02
9.	Boron(as B) in mg/l	IS 13428-2005(Annex L)	0.5	2.4	<0.5
10.	Calcium(as Ca) in mg/l	IS 3025 (Part 40): 1991(RA 2014)	75	200	40.48
11.	Chloride(as Cl) in mg/l	IS 3025 (Part 32): 1988 (RA 2014)	250	1000	39.98
12.	Copper(as Cu) in mg/l	IS 3025 (Part 42): 1992(RA 2014)	0.05	1.5	<0.02
13.	Fluoride(as F) in mg/l	IS 3025 (Part 60): 2008(RA 2013)	1.0	1.5	<0.1
14.	Free Residual Chlorine in mg/l	IS 3025 (Part 26): 1986(RA 2014)	0.2	1.0	<0.1
15.	Iron (as Fe) in mg/l	IS 3025 (Part 53): 1988(RA 2014)	1.0	No Relaxation	0.16
16.	Magnesium(as Mg) in mg/l	IS 3025 (Part 46): 1994(RA 2014)	30	100	23.23
17.	Manganese (as Mn) in mg/l	IS 3025 (Part 59): 2006 (RA 2014)	0.1	0.3	<0.02
18.	Nitrate (as NO ₃) in mg/l	IS 3025 (Part 34): 1988(RA 2014)	45	No Relaxation	2.82
19.	Phenolic Compounds(as C ₆ H ₅ OH) in mg/l	IS 3025 (Part 43): 1992(RA 2014)	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 2014)	200	400	4.28
22.	Alkalinity(as CaCO ₃) in mg/l	IS 3025 (Part 23): 1986(RA 2014)	200	600	190.0
23.	Total Hardness (as CaCO ₃) in mg/l	IS 3025 (Part 21): 2013	200	600	198.0
24.	Cadmium(as Cd) in mg/l	IS 3025 (Part 41): 1992(RA 2014)	0.003	No Relaxation	<0.002
25.	Cyanide(as CN) in mg/l	IS 3025 (Part 27): 1986(RA 2014)	0.05	No Relaxation	<0.02
26.	Lead(as Pb) in mg/l	IS 3025 (Part 47): 1994 (RA 2014)	0.01	No Relaxation	<0.01
27.	Mercury(as Hg) in mg/l	IS 3025 (Part 48): 1994(RA 2014)	0.001	No Relaxation	<0.001
28.	Arsenic(as As) in mg/l	IS 3025 (Part 37): 1988 (RA 2014)	0.01	No Relaxation	<0.01
29.	Zinc(as Zn) in mg/l	IS 3025 (Part 49): 1994 (RA 2014)	5	15	<0.02
30.	Total Chromium (as Cr) in mg/l	IS 3025 (Part 52): 2014(RA 2014)	0.05	No Relaxation	<0.05

For Qualissure Laboratory Services
Reviewed & Authorized By

(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.
- 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-D/00

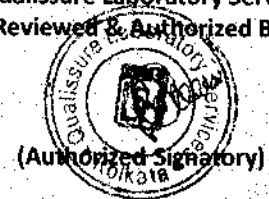
TEST REPORT

Name & Address Of the Customer : M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa, Durgapur Paschim Bardhaman West Bengal – 713212	ULR No.	: TC627121000001712F
	Report No.	: QLS/W/21-22/C/114
	Date	: 28.07.2021
	Sample No.	: QLS/W/21-22/114
	Sample Description	: Domestic Waste Water
	Sample Location	: Near Main Gate Canteen Outlet
	Sample Drawn On	: 17.07.2021
	Sampling Method	: IS 3025(Part 1): 1987 (RA 2019)
	Date of Performance	: 20.07.2021 – 27.07.2021
	Ref No. Date	: W120206-01, Dated: 06.02.2021

Analysis Result

Sl. No.	Parameter	TEST METHOD	Result	Limit as per CPCB for discharge of effluents	
				Inland Surface Water	Public Sewers
1	pH at 25°C	APHA 23 rd Edition-2017, 4500H+	7.27	5.5 to 9.0	5.5 to 9.0
2	Total Suspended Solid in mg/l	APHA 23 rd Edition-2017, 2540D	38	100	600
3	Chemical Oxygen Demand (as COD) mg/l	APHA 23 rd Edition-2017, 5220B	99	250	---
4	Biochemical Oxygen Demand (as BOD) mg/l	IS 3025 (Part 44)-1993, RA:2014	26	30	350
5	Oil & Grease in mg/l	APHA 23 rd Edition-2017, 5520A	5.2	10	20

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Reviewed & Authorized By



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Qualissure Laboratory Services

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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 – 713212	ULR No.	: TC627121000001201F
	Report No.	: QLS/W/21-22/C/51
	Date	: 15.05.2021
	Sample No.	: QLS/W/21-22/51
	Sample Description	: Process Waste Water
	Sample Location	: CPP Cooling Tower Blow down
	Sample Drawn On	: 08.05.2021
	Ref No. Date	: W120206-01, Dated: 06.02.2021

Analysis Result

Sl. No.	Parameter	TEST METHOD	Result	Limit as per CPCB for discharge of effluents	
				Inland Surface Water	Public Sewers
1.	pH at 25° C	APHA 23 rd Edition-2017, 4500H+	7.45	5.5 to 9.0	5.5 to 9.0
2.	Total Suspended Solid in mg/l	APHA 23 rd Edition-2017, 2540 D	<2.5	100	600
3.	Oil & Grease in mg/l	APHA 23 rd Edition-2017, 5520 A	< 1.4	10	20

for Qualissure Laboratory Services
Reviewed & Authorized

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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



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 – 713212	ULR No.	: TC627121000001202F
	Report No.	: QLS/W/21-22/C/52
	Date	: 15.05.2021
	Sample No.	: QLS/W/21-22/52
	Sample Description	: Domestic Waste Water
	Sample Location	: Near Main Gate Canteen Outlet
	Sample Drawn On	: 08.05.2021
	Ref No. Date	: W120206-01, Dated: 06.02.2021

Analysis Result

Sl. No.	Parameter	TEST METHOD	Result	Limit as per CPCB for discharge of effluents	
				Inland Surface Water	Public Sewers
1	pH at 25° C	APHA 23 rd Edition-2017, 4500H+	7.20	5.5 to 9.0	5.5 to 9.0
2	Total Suspended Solid in mg/l	APHA 23 rd Edition-2017, 2540D	52.0	100	600
3	Chemical Oxygen Demand (as COD) mg/l	APHA 23 rd Edition-2017, 5220B	128.0	250	—
4	Biochemical Oxygen Demand (as BOD) mg/l	IS 3025 (Part 44)-1993, RA:2014	28.0	30	350
5	Oil & Grease in mg/l	APHA 23 rd Edition-2017, 5520A	5.8	10	20

for Qualissure Laboratory Services
Reviewed & Authorized by

(Authorized Signatory)
Kolkata

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Park Plaza, 71 Park Street, 6F, North Block, Kolkata, Pin-700016-713212
Tel : 033-40504050 Fax No - 033-22177317 Email : info@neometaliks.com
Website : www.neometaliks.com CIN No. : U27109WB2003PLC097231

SUPPLIER'S COPY / OFFICE COPY

purchase@neometaliks.com

PURCHASE ORDER

Page 1 of 2

Details of Supplier DUTTA ENTERPRISE GOPALPUR, DURGAPUR, PASCHIM BARDHAMAN State Name : West Bengal State Code : 19 GSTIN/Unique ID: 19BBJP02381L1ZE PAN No. : BBJP02381L Contact Detail : Mo. No. : 7908001897 / 9832833366,		PO. No. : P121804-002 PO. Date : 04-08-2021 Div Code : Blast Furnace Quotation No. : OFFER DT 25.06.2021 Quotation Date : 25-06-2021 Kind Attn. Person : SRIDHAR DUTTA									
Shipping From Address State Name : State Code : GSTIN/Unique ID : PAN No. : Contact Detail :		Billing To Address NEO METALIKS LIMITED VILL : GOPALPUR, PO : GOPALPUR, VIA : DURGAPUR, DIST : BURDWAN, DURGAPUR - 713212 State Name : West Bengal State Code : 19 GSTIN : 19AABCN8514G1ZE PAN No. : AABCN8514G CIN No. : U27109WB2003PLC Contact Detail : Ph. No. : 40504050, Email : info@neometaliks.com									
Sr No.	Item Code	Description	HSN No.	Ref. No.	UN	Qty	Price/Unit (INR)	Discount	Value		
1	190601002	SAPLINGS Remark : For Green Belt Development	0601	1121Y-00215	NOS	3000.000	22.00		66,000.00		
In Words-Rs - Sixty Six Thousand Only .								Total (INR)	66,000.00		
							FREIGHT 5,000.00 SGST 4,260.00 CGST 4,260.00				
In Words-Rs - Seventy Nine Thousand Five Hundred Twenty Only .							Order Amount (INR) 79,520.00				
HSN/SAC		Taxable value	Rate	CGST		SGST		IGST		CESS	
				Amt.	Rate	Amt.	Rate	Amt.	Rate	Amt.	
0601		71000	6	4260	6	4260				0	0
Total :		71000		4260		4260				0	0
Total Tax Value (In Word) : Total Tax (in word) : Rs - Eight Thousand Five Hundred Twenty Only .											
Terms & Conditions : Price Basis : FREIGHT CHARGE EXTRA SHALL BE PAID BY NML Taxes & Duties : AS MENTIONED IN PO Mode of Dispatch : BY ROAD Freight : Extra @ Rs 5000/- Payment terms : ADVANCE AGAINST PI Delivery period : READY - TO BE DELIVERED AS PER OUR REQUIREMENT Inspection : AT OUR SITE Rejection : IF NOT AS PER REQUIREMENT											
NOTE : Please mention Order No., Unit of measurement (UOM) & A/C head in Challan/Invoice for faster payment. In case of an Excisable Goods, Excise Invoice, Challan and Gate Pass should be submitted with us for claiming the Cenvat Credit. Your General conditions of sale are not applicable to us. Your WBST/CST Regd. No. should be quoted on your Challan/Invoice. Materials will be accepted only against the submission of the copy of the Tax Invoice & Excise Gate pass.											
Disputes & Arbitration : Any dispute or difference by and between the parties relating to, arising out of or concerning this purchase order including the interpretation of any of its terms and condition shall be referred to the Arbitrator, to be nominated by NML, whose award shall be final and binding on the parties thereto. Any processing to such arbitration shall be subject to the jurisdiction of Courts of Kolkata only. Such arbitration shall be in accordance with the provision of the Arbitration and Conciliation Act, 1996 of India.											
Special Terms & Conditions We hereby place our order on you for the supply / execution of the following in accordance with the technical & Commercial annexures. Acceptance of this order including all terms & conditions shall be deemed accepted unless you shall expressly notify us to											



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PURCHASE ORDER

Page 2 of 2

PO. No. : P121804-002
PO. Date : 04-08-2021

the contrary within five days after the receipt of this order.

In view of implementation of GST and being a GST registered party, you must be complying all the provisions of GST applicable to you.

In case we fail to get Input Credit of GST due to your non-compliant/payment of GST tax in time, you are indemnifying us to deduct the said amount from your bill by way of Dr Note/Cr. Note.

We have right to review/check your books to verify that you are complying all GST regulation in time if required.

For NEO METALIKS LIMITED

(PRASHANT S. PATHAK)
(Authorised Signatory)

PRATEEK KUMAR DE
(Prepared By)



Park Plaza, 71 Park Street, 6F, North Block, Kolkata, Pin-700016-713212
Tel : 033-40504050 Fax No - 033-22177317 Email : info@neometaliks.com
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PURCHASE ORDER

Page 1 of 2

Details of Supplier DUTTA ENTERPRISE GOPALPUR, DURGAPUR, PASCHIM BARDHAMAN State Name : West Bengal State Code : 19 GSTIN/Unique ID: 19BBJPD2381L1ZE PAN No. : BBJPD2381L Contact Detail : Mo. No. : 7908001897 / 9832833366,		PO. No. : P120D03-001 PO. Date : 03-12-2020 Div Code : Factory General Quotation No. : OFFER Quotation Date : 30-11-2020 Kind Attn. Person : SRIDHAR DUTTA				
Shipping From Address State Name : State Code : GSTIN/Unique ID : PAN No. : Contact Detail :		Billing To Address NEO METALIKS LIMITED VILL : GOPALPUR, PO : GOPALPUR, VIA : DURGAPUR, DIST : BURDWAN, DURGAPUR - 713212 State Name : West Bengal State Code : 19 GSTIN : 19AABCN8514G1ZE PAN No. : AABCN8514G CIN No. : U27109WB2003PLC Contact Detail : Ph. No. : 40504050, Email : info@neometaliks.com				

Sr No.	Item Code	Description	HSN No.	Ref. No.	UM	Qty	Price/Unit (INR)	Discount	Value
1	190601002	SAPLINGS Remark : FOR TREE PLANTATION	0601	1120Y-00343	NOS	4000.000	22.00		88,000.00
								Total (INR)	88,000.00

In Words-Rs - Eighty Eight Thousand Only .

	FREIGHT 5,000.00 SGST 5,580.00 CGST 5,580.00
--	---

In Words-Rs - One Lakh Four Thousand One Hundred Sixty Only .

		Order Amount (INR)	
		1,04,160.00	

HSN/SAC	Taxable value	CGST		SGST		IGST		CESS	
		Rate	Amt.	Rate	Amt.	Rate	Amt.	Rate	Amt.
0601	93000	6	5580	6	5580			0	0
Total :	93000		5580		5580				0

Total Tax Value (In Word) : Total Tax (in word) : Rs - Eleven Thousand One Hundred Sixty Only .

Terms & Conditions :

Price Basis : F O R DURGAPUR

Taxes & Duties : AS MENTIONED IN PO

Mode of Dispatch : BY ROAD

Freight : NIL

Payment terms : 100% ADVANCE

Delivery period : READY - TO BE DELIVERED AS PER OUR REQUIREMENT

Inspection : AT OUR SITE

Rejection : IF NOT AT PUR REQUIREMENT

NOTE : Please mention Order No., Unit of measurement (UOM) & A/C head in Challan/Invoice for faster payment.
 In case of an Excisable Goods, Excise Invoice, Challan and Gate Pass should be submitted with us for claiming the Cervat Credit.
 Your General conditions of sale are not applicable to us.
 Your WBST/CST Regd. No. should be quoted on your Challan/Invoice.
 Materials will be accepted only against the submission of the copy of the Tax Invoice & Excise Gate pass.

Disputes & Arbitration :
 Any dispute or difference by and between the parties relating to, arising out of or concerning this purchase order including the interpretation of any of its terms and condition shall be referred to the Arbitrator, to be nominated by NML, whose award shall be final and binding on the parties thereto. Any processing to such arbitration shall be subject to the jurisdiction of Courts of Kolkata only. Such arbitration shall be in accordance with the provision of the Arbitration and Conciliation Act, 1996 of India.

Special Terms & Conditions We hereby place our order on you for the supply / execution of the following in accordance with the technical & Commercial annexures. Acceptance of this order including all terms & conditions shall be deemed accepted unless you shall expressly notify us to the contrary within five days after the receipt of this order.



Park Plaza, 71 Park Street, 6F, North Block, Kolkata, Pin-700016-713212
Tel : 033-40504050 Fax No - 033-22177317 Email : info@neometaliks.com
Website : www.neometaliks.com CIN No. : U27109WB2003PLC097231

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PURCHASE ORDER

Page 2 of 2

PO. No. : P120D03-001
PO. Date : 03-12-2020

In view of implementation of GST and being a GST registered party, you must be complying all the provisions of GST applicable to you.

In case we fail to get Input Credit of GST due to your non-compliant/payment of GST tax in time, you are indemnifying us to deduct the said amount from your bill by way of Dr Note/Cr. Note.

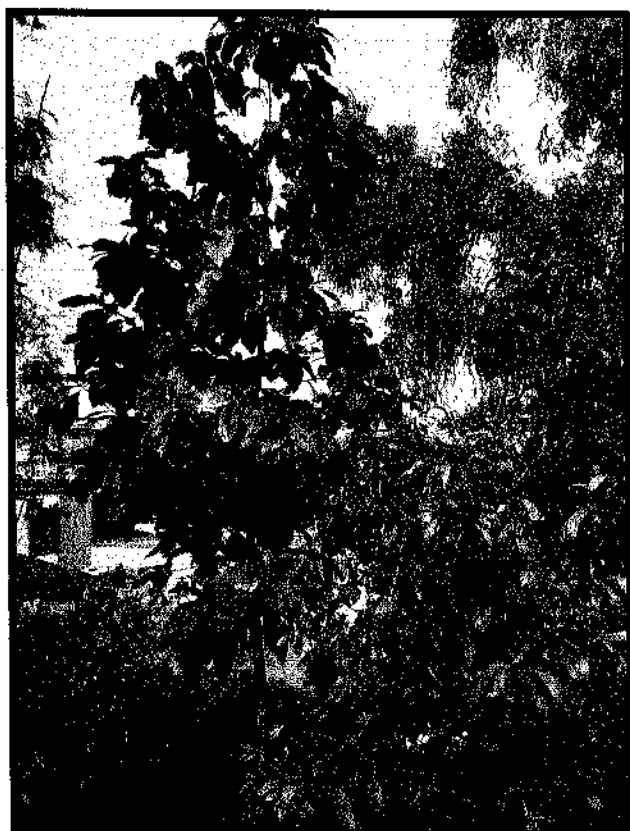
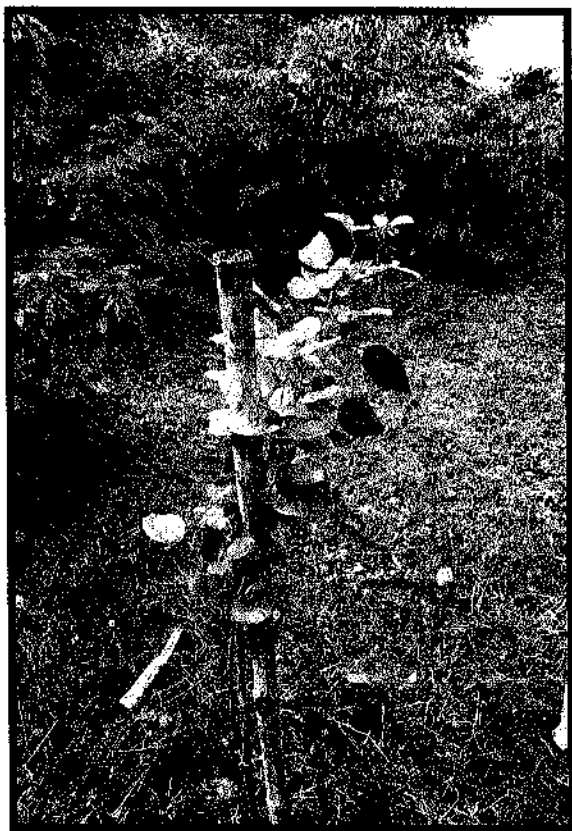
We have right to review/check your books to verify that you are complying all GST regulation in time if required.

For NEO METALIKS LIMITED

(PRASHANT S. PATHAK)
(Authorised Signatory)

BARUN KUMAR DHAR
(Prepared By)

PHOTOGRAPHS OF PLANTATION



PHOTOGRAPHS OF PLANTATION



PHOTOGRAPHS OF PLANTATION



FROM : NEO SITE

FAX NO. : 03432520948

Oct. 24 2005 06:10PM P1

KJA: MR D. GHOSH, MO, KOL.

ASANSOL DURGAPUR DEVELOPMENT AUTHORITY



(A Statutory body of the Government of West Bengal)

City Centre, Durgapur-713 216, West Bengal

Phone PBX DCN - (9343) 254 0015/ 254 0710

Durgapur Office 254-6889

Fax DGP - (0343) 254-6665

e-mail : dgp_addadgp@sanchamnet.in

Assembly Office

G. T. Road (East) Asansol

Ph : (0341) 220-3004/ 220-2242

Fax No. : (0341) 220-5374

Ref. No. ADDA/DGP/

ED/CW-79/04-05/1428

From

Chief Executive Officer,
Asansol Durgapur Dev. Authority
City Centre, Durgapur-16.

Date: 13.7.05

To

Neo Metaliks Ltd.
Park Plaza
714, Park street, 3E (North Block)
Kolkata-700016.

Sub:- Water line for your Mega Project at Gopalpur, Durgapur-12

Sir,

Please refer to your letter Ref. Nil. Dated 06.05.2004 on the above referred subject and be informed that we have planned to meet your requirement of 2090.10m³/day from HFCL water treatment plant.

We will be drawing a pipeline of 355 mm O.D.HDPE pipe of 5.87 km long to meet your requirement. A pump house including pumps and motor set and other ancillary work is to be constructed and installed as required.

The total rough cost estimate has been worked out to be Rs.159.00 lakhs.

As we are creating a total infrastructure of water supply to Bamunara - Banskopa Industrial complex some infrastructure development cost is expected to be shared by our company over and above the standard fees and security money charged by the Authority.

In view of the above you are requested to deposit Rs.36.78 lakhs which is approximately 33.00% of the pipe line material cost at 20% discount only at the earliest to enable us to take further steps for implementation of the scheme.

Thanking you.

Yours faithfully,

Chief Executive Officer,
Asansol Durgapur Dev. Authority.

1317/2005

Ref. No. ADDA/DGP/

Dated

Copy forwarded to:-

- 1) The Secretary, Bamunara Industries Association R.T.F. Ltd.
Lanin Sarani, Durgapur.

Chief Executive Officer,
Asansol Durgapur Dev. Authority.

ANNEXURE IV ☎ 0341-2667794



M/S. SIA CEMENTO PRIVATE LIMITED

Office : Opposite Gaighata Hindi F. P. School, N.H.-60, Gaighata More,
P.O.- Haripur, Dist.- Paschim Bardhaman, Pin - 713378 (W.B.)

Ref No. SC/21-22/12Date 7/10/21

To

Sales Officer

Neo Metals Ltd.

Muckhpara, Durgapur.

Dear Sir,

We would like to inform you that our installed production capacity is 500 Metric Tonne/day or 15000 Metric Tonne/monthly.

We are producing P.S. cement with the brand name CEM X CEMENT and have our sales network in Bihar, Jharkhand and West Bengal.

Thanking you,

Yours faithfully,

[Signature]

WEST BENGAL WASTE MANAGEMENT LIMITED

J.L. No. - 103, Mouza - Purba Srikrishnapur, P.O. & P.S. - Sutahata, PIN - 721635, Haldia, Dist. - Purba Medinipur, West Bengal

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (including Phone No. and e-mail)	NEOMETALIKS LTD. VW+P.O. - Gopalpur, P.S. - Kanku Dist. - Paschim Bardhaman Durgapur - 713212		
2	Sender's authorization No.	38/25(HW)-2497/2009		
3	Manifest Document No.	14729		
4	Transporter's name and address (including Phone No. and e-mail)	West Bengal Waste Management Limited J.L. No. 103, Mouza Purba Srikrishnapur, P.O. & P.S. Sutahata, Haldia 721635 Dist. Purba Medinipur, West Bengal, Ph. No.-03224-278238 / 39 E-mail : wbwml_haldia@ramky.com		
5	Type of vehicle	(Truck/Tanker/Special Vehicle) ☒		
6	Transporter's registration No.	1-MD(E)/X/06		
7	Vehicle registration No.	WB-31 N 0085		
8	Receiver's name and mailing address (including Phone No. and e-mail)	West Bengal Waste Management Limited J.L. No. 103, Mouza Purba Srikrishnapur, P.O. & P.S. Sutahata, Haldia 721635 Dist. Purba Medinipur, West Bengal, Ph. No.-03224-278238 / 39 E-mail : wbwml_haldia@ramky.com		
9	Receiver's authorization No.	160/25(HW)-1506/2003 (Pt. IV)		
10	Waste description	Waste oil, Category - 5.2		
11	Total quantity No. of Containers	0.31 m3 or MT		
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Sturry/Liquid) ☒		
13	Special handling instructions and additional information	Handling with care		
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping categorized, packed, marked and name and are labeled and are in all respects in proper conditions for transport by road according to applicable National Government Regulations.		
	Name and stamp	Signature	Day	Month
	Malay Kumar Samanta	[Signature]	05	04
			20	21
15	Transporter acknowledgement of receipt of hazardous wastes		Day	Month
	Name and stamp	Signature	Day	Month
	[Signature]	[Signature]	05	04
			20	21
16	Receiver's certification for receipt of hazardous and other waste		Day	Month
	Name and stamp	Signature	Day	Month

1. White Colour forwarded to WBPCB by HzW Sender

3. Pink Colour retained by HzW Receiver

5. Green Colour forwarded to WBPCP after disposal by HzW Receiver

2. Yellow Colour retained by HzW sender

4. Orange Colour retained by transporter

6. Blue Colour returned to sender after disposal by HzW Receiver

WEST BENGAL WASTE MANAGEMENT LIMITED

J.L. No. - 103, Mouza - Purba Srikrishnapur, P.O. & P.S. - Sutahata, PIN - 721635, Haldia, Dist. - Purba Medinipur, West Bengal

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (including Phone No. and e-mail)	NEO METALIKS LTD. V.V. + P.O. - Gopalpur, P.S. - Kanku Dist. - Paschim Bardhaman Durgapur - 713212 38/25(HW)-2497/2009		
2	Sender's authorization No.	14728		
3	Manifest Document No.	1		
4	Transporter's name and address (including Phone No. and e-mail)	West Bengal Waste Management Limited J.L. No. 103, Mouza Purba Srikrishnapur, P.O. & P.S. Sutahata, Haldia 721635 Dist. Purba Medinipur, West Bengal, Ph. No.-03224-278238 / 39 E-mail : wbwml_haldia@ramky.com		
5	Type of vehicle	(Truck/Tanker/Special Vehicle)		
6	Transporter's registration No.	1-MD(E)/X/06		
7	Vehicle registration No.	WB-31 N0085		
8	Receiver's name and mailing address (including Phone No. and e-mail)	West Bengal Waste Management Limited J.L. No. 103, Mouza Purba Srikrishnapur, P.O. & P.S. Sutahata, Haldia 721635 Dist. Purba Medinipur, West Bengal, Ph. No.-03224-278238 / 39 E-mail : wbwml_haldia@ramky.com		
9	Receiver's authorization No.	160/25(HW)-1506/2003(Pl. IV)		
10	Waste description	DG. Set Filter, Category-36.2		
11	Total quantity No. of Containers	0.04 m3 or MT Nos.		
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)		
13	Special handling instructions and additional information	Handling with care		
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping categorized, packed, marked and name and are labeled and are in all respects in proper conditions for transport by road according to applicable National Government Regulations.		
	Name and stamp	Signature	Day	Month
	Malay Kumar Samanta	[Signature]	05	02
			20	21
15	Transporter acknowledgement of receipt of wastes			
	Name and stamp	Signature	Day	Month
	[Signature]	[Signature]	05	04
			20	21
16	Receiver's certification for receipt of hazardous and other waste			
	Name and stamp	Signature	Day	Month

1. White Colour forwarded to WBPCB by HzW Sender

3. Pink Colour retained by HzW Receiver

5. Green Colour forwarded to WBPCP after disposal by HzW Receiver

2. Yellow Colour retained by HzW sender

4. Orange Colour retained by transporter

6. Blue Colour returned to sender after disposal by HzW Receiver

WEST BENGAL WASTE MANAGEMENT LIMITED

J.L. No - 103, Mouza - Purba Srikrishnapur, P.O. & P.S. - Sutahata, PIN - 721635, Haldia, Dist. - Purba Medinipur, West Bengal

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (including Phone No. and e-mail):	NEO METALIKS LTD. Vill + P.O. Gopalpur, P.S. - Kank Dist. - Paschim Bardhaman, Durgapur - 713212			
2	Sender's authorization No.:	38/25(HW)-2497/2009			
3	Manifest Document No.:	14730			
4	Transporter's name and address (including Phone No. and e-mail):	West Bengal Waste Management Limited J.L. No. 103, Mouza Purba Srikrishnapur, P.O. & P.S. Sutahata, Haldia 721635 Dist. Purba Medinipur, West Bengal, Ph. No.-03224-278238 / 39 E-mail : wbwml_haldia@ramky.com			
5	Type of vehicle:	(Truck/Tanker/Special Vehicle)			
6	Transporter's registration No.:	1-MD(E)/X/06			
7	Vehicle registration No.:	WB-31N 0085			
8	Receiver's name and mailing address (including Phone No. and e-mail):	West Bengal Waste Management Limited J.L. No. 103, Mouza Purba Srikrishnapur, P.O. & P.S. Sutahata, Haldia 721635 Dist. Purba Medinipur, West Bengal, Ph. No.-03224-278238 / 39 E-mail : wbwml_haldia@ramky.com			
9	Receiver's authorization No.:	160/25(HW)-1506/2003(Pt. IV)			
10	Waste description:	Spent Ion-exchange Resin, cat: 35			
11	Total quantity No. of Containers:	0.83 m3 or MJ Nos.			
12	Physical form:	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)			
13	Special handling instructions and additional information:	Handling with care			
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping categorized, packed, marked and name and are labeled and are in all respects in proper conditions for transport by road according to applicable National Government Regulations.			
	Name and stamp	Signature	Day	Month	Year
	Malay Kumar Samanta	[Signature]	05	04	2021
15	Transporter acknowledgement of receipt of Wastes				
	Name and stamp	Signature	Day	Month	Year
	[Signature]	[Signature]	05	04	2021
16	Receiver's certification for receipt of hazardous and other waste				
	Name and stamp	Signature	Day	Month	Year

1. White Colour forwarded to WBPCB by HzW Sender

3. Pink Colour retained by HzW Receiver

5. Green Colour forwarded to WBPCP after disposal by HzW Receiver

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4. Orange Colour retained by transporter

6. Blue Colour returned to sender after disposal by HzW Receiver



WEST BENGAL POLLUTION CONTROL BOARD

(Department of Environment, Govt. of West Bengal)

Paribesh Bhawan

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

Kolkata - 700 098

Tel : 0091 (033) 2335-9088 / 8861 / 8211 / 8073 / 6731

2335-0261 / 8212 / 8213 / 7428 / 5975

Fax : 0091 (033) 2335 6730 / 2813

Website : www.wbpcb.gov.in, e-mail : wbpcbnet@wbpcb.gov.in

Authorisation letter no.:

Memo No. 160 /2S(HW) -1506/2003(Pt. IV)

Date: 13.08.2018

FORM 2

Grant of Authorization under the provisions of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

Ref.: Application for renewal of authorization dated 16.01.2018 for management & handling of hazardous & other waste.

M/s. West Bengal Waste Management Ltd.,

JL - 103, Purba Srikrishnapur, P.O. & P.S. - Satahata, Dist. - Medinipur (E), Pin - 721 635, West Bengal is hereby granted an authorisation based on the enclosed signed inspection report for generation, collection, reception, storage, transport, reuse, recycling, recovery, pre-processing, co-processing, utilisation, treatment, disposal, or any other use of hazardous or other wastes or both on the premises situated at **JL - 103, Purba Srikrishnapur, P.O. & P.S. - Satahata, Dist. - Medinipur (E), Pin - 721 635, West Bengal.**

Details of Authorisation

A. The authorisation is valid for handling the following quantities of hazardous wastes:

Sl. no.	Type of Hazardous waste	Authorised mode of disposal	Quantity (ton/annum)
1.	Direct Landfilable waste	Direct Landfill. *	1,20,000.00
2.	Landfillable waste after stabilization	Landfilling after stabilization. *	60,000.00
3.	Incinerable waste	Incineration. *	10,800.00

B. The following hazardous waste to be generated onsite:

Sl. no.	Category of Hazardous Waste as per the Schedule I, II and III of these rules	Authorised mode of disposal or recycling or utilization or co-processing etc.	Quantity (ton/annum)
1.	37.2	Disposal in onsite Hazardous Waste Landfill. *	886.7
2.	5.2	Incineration onsite. *	2.96

*** For detail refer to Specific Conditions.**

(1) Authorisation shall be valid for a period upto **31.12.2022** with effect from the date of issue

(2) The authorisation is subject to the following general and specific conditions:

[Chief Engineer]

Waste Management Cell

West Bengal Pollution Control Board

Page 01 of 03

A. General conditions of authorisation

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.
3. The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
4. Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.
5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;
6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty"
7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.
8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
10. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation.
11. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
12. An application for the renewal of an authorisation shall be three months before the expiry of such authorisation.
13. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
14. Annual return shall be filed by June 30th every year for the period ending 31st March of that year.

B. Specific conditions :

1. The unit shall store the hazardous wastes (category wise separately) under shade in an environment friendly safe manner within the premises at designated places.
2. The unit shall dispose of the incinerator ash & Bag filter ash (37.2) in the on-site Common Hazardous Waste Landfill.
3. Oil soaked cotton waste (5.2) shall be disposed of to CHWTSDF after incineration.
4. Hazardous wastes collected from member units shall be stored, treated and disposed in accordance with the Hazardous & Other Waste (Management and Transboundary Movement) Rules, 2016 and guidelines issued by CPCB.

5. Transport of hazardous and other waste shall be in accordance with the Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016, guidelines issued by the Central Pollution Control Board (CPCB) and rules made under the Motor Vehicles Act, 1988. The responsibility of safe transport shall be either of the sender or the receiver whosoever arranges the transport and this responsibility shall be clearly indicated in the Manifest.
6. Hazardous wastes Landfill and Incinerator to be operated and maintained as per CPCB guidelines. The incinerator shall not be operated below the prescribed temperatures under any circumstances. Incinerator repair and maintenance shall be taken up immediately and compliance report shall be submitted to the State Board.
7. CEMS data shall be transmitted to CPCB and WBPCB.
8. Arrangement shall be made for sampling of gases from closed landfill vents.
9. Records of hazardous waste collection, generation, storage, treatment and disposal shall be maintained properly and shall be available to the inspecting officials of the State Board during inspection.
10. The unit shall update regularly the environmental information in Display Boards as per the order of the Hon'ble Supreme Court dated. 14.10.2003 in W.P.(C) NO.657 of 1995.
11. Authorisation will be revoked in case of non-compliances with any of the above conditions.

✓ M/s. West Bengal Waste Management Ltd.,
JL - 103, Purba Srikrishnapur, P.O. & P.S. - Satahata,
Dist. - Medinipur (E), Pin - 721 635, West Bengal.


[Chief Engineer]
Waste Management Cell
West Bengal Pollution Control Board

Enclosed: As stated.



WEST BENGAL POLLUTION CONTROL BOARD

(Department of Environment, Govt. of West Bengal)

Paribesh Bhawan

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

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Fax : 0091 (033) 2335 6730 / 2813

Website : www.wbpcb.gov.in e-mail : wbpcb@wbpcb.gov.in

Memo No. 38 /2S(HW) -2497/2009

Date: 02.03.2020
10/3/2020

FORM 2

Grant of Authorization under the provisions of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

Ref.: Application for renewal of authorization dated 24.04.2019 for management & handling of hazardous and other wastes.

M/s. Neo Metaliks Limited,

Banscopa Industrial Complex, P.O.: Gopalpur, P.S. - Kanksa, Dist. - Burdwan, PIN: 713 212, West Bengal is hereby granted an authorisation based on the enclosed signed inspection report for generation, collection, reception, storage, transport, reuse, recycling, recovery, pre-processing, co-processing, utilisation, treatment, disposal, or any other use of hazardous or other wastes or both on the premises situated at Banscopa Industrial Complex, P.O.: Gopalpur, P.S. - Kanksa, Dist. - Burdwan, PIN: 713 212, West Bengal.

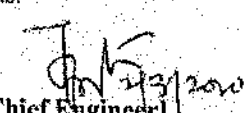
Details of Authorisation:

Sl. no.	Category of Hazardous Waste as per the Schedule I, II and III of these rules	Authorised mode of disposal or recycling or utilization or co-processing etc.	Quantity (ton/annum)
1.	5.1	Recycling through authorized recyclers *	0.40
2.	36.2	Disposal to CHWTSDF. *	0.001
3.	35.2	Disposal to CHWTSDF. *	0.04

* For detail refer to Specific Conditions.

(1) Authorisation shall be valid for a period upto 31.03.2024 with effect from the date of issue.

(2) The authorisation is subject to the following general and specific conditions.


[Chief Engineer]
Waste Management Cell
West Bengal Pollution Control Board
Dr. T. K. GUPTA
Chief Engineer
Planning & Waste Management Cell
West Bengal Pollution Control Board

4. General conditions of authorisation

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.
3. The person authorised shall not rent, lease, sell, transfer or otherwise transport the hazardous and other wastes except where is permitted through this authorisation.
4. Any unauthorised change in personal or equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.
5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all the possible scenarios such as spillage, leakage, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.
6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Measures for Environmental Damages due to Handling and Disposal of Hazardous Wastes and Fluids".
7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.
8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and in case of operation.
9. The record of consumption and use of the imported hazardous and other wastes shall be maintained.
10. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation.
11. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
12. An application for the renewal of an authorisation shall be made three months before the expiry of such authorisation.
13. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
14. Annual return in Form A shall be filed by Form B² every year for the period ending 31st March of that year.

11. Specific conditions:

1. The unit shall store the hazardous wastes (separately and separately) under shade or an environment friendly safe container within the premises at designated places.
2. The unit shall not store hazardous wastes within for more than 180 (one hundred eighty) days.
3. Used oil (S.O.) shall be sold through manifest system (Form 10) only to the recycler having valid registration of the State Pollution Control Board (SPCB). During each sale, the original Record issued by SPCB to the registered recycler shall be enclosed mentioning the quantity and type of the waste should be kept in record.

4. Discarded D. G. Set oil filter (36.2) and Spent Resin (35.2) shall be disposed off either through co-incineration in Cement Kilns having prior approval from the concerned SPCB where such cement kilns are located or to be disposed off to the Common Hazardous Waste Treatment, Storage & Disposal Facility (CHWTSDF) through Manifest (Form 10).
5. Transport of hazardous and other waste shall be in accordance with the Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016, guidelines issued by the Central Pollution Control Board (CPCB) and rules made under the Motor Vehicles Act, 1988. The responsibility of safe transport shall be either of the sender or the receiver whosoever arranges the transport and this responsibility shall be clearly indicated in the Manifest.
6. Records of hazardous waste generation, storage and disposal shall be maintained properly and shall be available to the inspecting officials of the State Board during inspection.
7. The unit shall update regularly the environmental information in Display Boards as per the order of the Hon'ble Supreme Court dated: 14.10.2003 in W.P.(C) NO.657 of 1995.
8. Environmental information display boards in English and Bengali shall be provided outside the main gate as per the order of the Hon'ble Supreme Court dt.14.10.2003 in W.P.(C) no. 657 of 1995.
9. Authorisation will be revoked in case of non-compliances with any of the above conditions.

M/s. Neo Metaliks Limited,

Banscopa Industrial Complex, P.O.:
Gopalpur, P.S. - Kanksa, Dist. - Burdwan,
PIN: 713 212, West Bengal.

Enclosed: As stated.

[Chief Engineer]

Waste Management Cell
West Bengal Pollution Control Board

Dr. T. K. GUPTA

Chief Engineer

Planning & Waste Management Cell
West Bengal Pollution Control Board

**Work Order****Ref: NML/DBVGBA/21-22/1106****Date: 11.06.2021****To,****DNV GL BUSINESS ASSURANCE**

Netaji Subhash
Place 902 & 903, 9th Floor,
NDM 2, New Delhi,
India, 110034

Kind Attn: Mr. Mohammed Mirajuddin**Sub:- Work Order for Certification & subsequent audits for EMS (ISO 14001) & ISO 45001 (OHSMS)****Ref:** 1) Your Quotation No. Q25969 Revision No.:1 Dated 12.05.20212) Your revised Quotation No. Q25969 Revision No.:1 Dated 20.05.2021 based on our final discussion held on 20th May 2021.

Dear Sir,

With reference to the above mentioned subject and subsequent discussions we had with you on 20th May'21, we are pleased to award the Order on following broad Terms & Conditions -

Option II - EMS (ISO 14001) + ISO 45001 (OHSMS)

Phase	Service Description	Onsite Mandays	Offsite Mandays	Total Value (Rs.)
Phase 0	Certification Fee	N.A.	N.A.	50,000.00
Phase 0	Document Review & Initial Visit	1,500	0,000	24,750.00
Phase 0	Initial Audit	9,000	3,000	1,65,000.00
Phase 1	Periodic Audit P1	3,500	1,000	66,000.00
Phase 2	Periodic Audit P2	3,500	1,000	66,000.00
Total (Rs)				3,71,750.00
(In Words-Rupees Three Lakh Seventy One Thousand Seven Hundred & Fifty Only-)				

Ref: NML/DNVGBA/21-22/0906

Scope of Work:-

DNV GL shall execute the Work as described in the Scope of Work in accordance with the provisions of the Agreement, and any agreed applicable rules and standards. Unless otherwise agreed, the relevant Management System Certification Scheme and any applicable accreditation requirements shall apply. The extent of the Work to be performed is described in the Agreement. DNV GL shall provide qualified personnel to carry out the Work. Unless otherwise agreed, DNV GL may at any time, and for its own cost and risk, substitute personnel assigned to the Work, provided that any substituting personnel are suitably qualified. DNV GL may, on its own account, extend the audit team with an observer(s) for purposes such as training, peer evaluations and supervision by the Accreditation body, the management system certification scheme owner and/or governmental body.

1. Internal system Audit for certification of EMS (ISO 14001) + ISO 45001 (OHSMS) at the auditee's premises in order to verify conformance between the system as documented and its implementation (Factory & Head office).
2. Issue of the certificate of conformity, including Registration.
3. Periodic audit fees, for the number of periodic audits conducted within the validity of the certificate.

Area of Audit:

Mini-Blast Furnace (MBF), Sinter Plant and Captive Power Plant (CPP)

General Conditions:

1. The audit team must be accompanied by a lead Metallurgical auditor with an experience of at least 5 yrs or more in the industry.
2. The above engineer must be in your full time employment, not less than one (1) year.
3. The other auditor must be either a Mechanical or Electrical Engineer.
4. The above two cases are also apply in case of Surveillance audit.
5. Value addition from both the auditors on a continual basis.
6. The name and resume of the auditors must be informed in advance not less than 2 weeks prior to the audit.
7. Travel, Boarding and Lodging at NML scope, If arrange by you NML will be pay at actual basis.
8. Service Charges will be paid as per prevailing Government Notification.
9. Since you have an office in Kolkata, we will provide all the Travel expenses from Kolkata to Durgapur only and accommodation in Durgapur alone.
10. All working procedure and "Terms & Condition" will be as per quotation No. : Q25969
Revision No.: 1 Dated 20/5/2021

Special condition:

1. You have to ensure that bad elements are not engaged by you, if found, you have to replace such person.
2. During the execution of the contract your rates will remain firm and fixed and no escalation will be entertained by NML.
3. For Technical matter NML go consult with **Mr. Mohammed Mirajuddin , Ph No- +91 3330217000 Email Id- : Mohammed.Mirajuddin@dnv.com**

Ref: NML/DNVGBA/21-22/0906

Payment schedule:

- a. Certification Fees to be paid on completion of certification audit & receipt of certificate.
- b. Documentation review payment to be paid after completion of work against submission of Certified invoice by EIC.
- c. Periodic Audit Fees to be paid in two (2) equal installments at the completion of each periodic Audit preferably on date of Audit
- d. Deductions if any will be made as per the prevailing rates of state / Central Govt. rules pertaining to the nature of the Job.
- e. All rates are exclusive of prevailing taxes and duties of central / state Govt.

Arbitration and Jurisdiction:

Any dispute or difference by and between the parties relating to, arising out of or concerning this purchase order including the interpretation of any of its terms and condition shall be referred to the Arbitrator, to be nominated by NML, whose award shall be final and binding on the parties thereto. Any processing to such arbitration shall be subject to the jurisdiction of Courts of Kolkata only. Such arbitration shall be in accordance with the provision of the Arbitration and Conciliation Act, 1996.

Note:

You have to mention both the address (Factory and Head office - As mentioned below) in your Invoice along with your Service Tax number, Excise Registration number, VAT, CST number and PAN (Permanent Account Number) as applicable.

You have to provide the Xerox copy of the PAN of your company at the time of submitting the bill, otherwise as per Income Tax Law we will deduct TDS @ 20%.

Please return the duplicate copy of this order duly signed and stamped as a token of your acceptance. Without your acceptance copy we will not be able to process your bill.

Correspondence Address:

Neo Metaliks Ltd. 71, Park Street, Park Plaza, North Block, 3rd Floor, Kolkata - 700 016.

Billing & Shipping Address:

Neo Metaliks Ltd. Mouza: Gopalpur, P.O.: Gopalpur, P S: Kanksa, Durgapur - 713 213. Burdwan, West Bengal.

This work order is used in duplicate, please return one copy of this order duly signed and stamped as a token of your acceptance.

Thanking You,
Yours faithfully

For Neo Metaliks Limited

Prashant S. Pathak
Vice President (Commercial)





Qualissure Laboratory Services

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



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

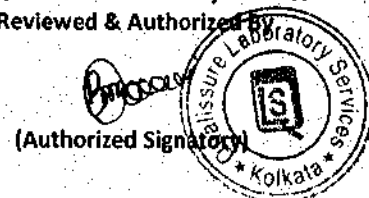
TEST REPORT

Name & Address Of the Customer :	ULR No.	: TC627121000001199F
M/s. Neo Metaliks Ltd.	Report No.	: QLS/A/21-22/C/93
Vill + P.O. : Gopalpur	Date	: 15.05.2021
P.S. : Kanksa,Durgapur	Sample No.	: QLS/A/21-22/93(A-D)
Paschim Bardhaman	Sample Description	: Noise Monitoring
West Bengal – 713 212	Ref No. Date	: W120206-01, Dated: 06.02.2021

Analysis Result of Noise

Sampling Done By : S.Ghosh/D.Sahoo						
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
93A	06-07.05.2021	In between Store & Admin Area	63.4	65	50.6	55
93B		Near Main Gate	64.1	65	49.7	55
93C	07-08.05.2021	Near North East Side Boundary Wall	62.0	65	51.3	55
93D		Near CPP Cooling Tower	64.2	65	53.0	55

for Qualissure Laboratory Services
Reviewed & Authorized By



- 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



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

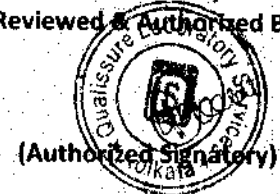
TEST REPORT

Name & Address Of the Customer :	ULR No.	: TC627121000001710F
M/s. Neo Metaliks Ltd.	Report No.	: QLS/A/21-22/C/211
Vill + P.O. : Gopalpur	Date	: 28.07.2021
P.S. : Kanksa,Durgapur	Sample No.	: QLS/A/21-22/211(A-D)
Paschim Bardhaman	Sample Description	: Noise Monitoring
West Bengal – 713 212	Ref No. Date	: W120206-01, Dated: 06.02.2021

Analysis Result of Noise

Sampling Done By : S.Ghosh/J. Sahana						
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
211-A	17-18.07.2021	Near Admin Area	56.2	65	47.7	55
211-B		Near Main Gate	62.6	65	52.0	55
211-C	18-19.07.2021	Near North East Side Boundary Wall	51.0	65	48.2	55
211-D		Near CPP Cooling Tower	53.5	65	48.9	55

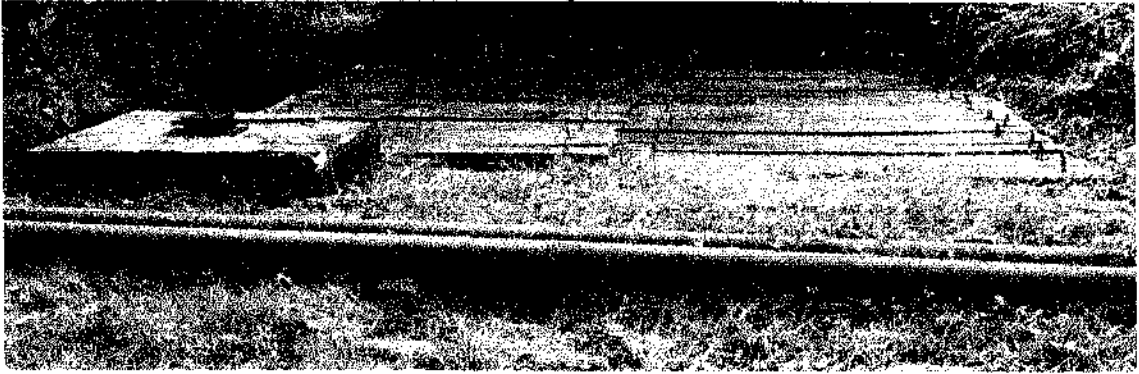
for Qualissure Laboratory Services
Reviewed & Authorized By



- 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.

RAIN WATER HARVESTING SUMPS

CPP cooling tower area sump



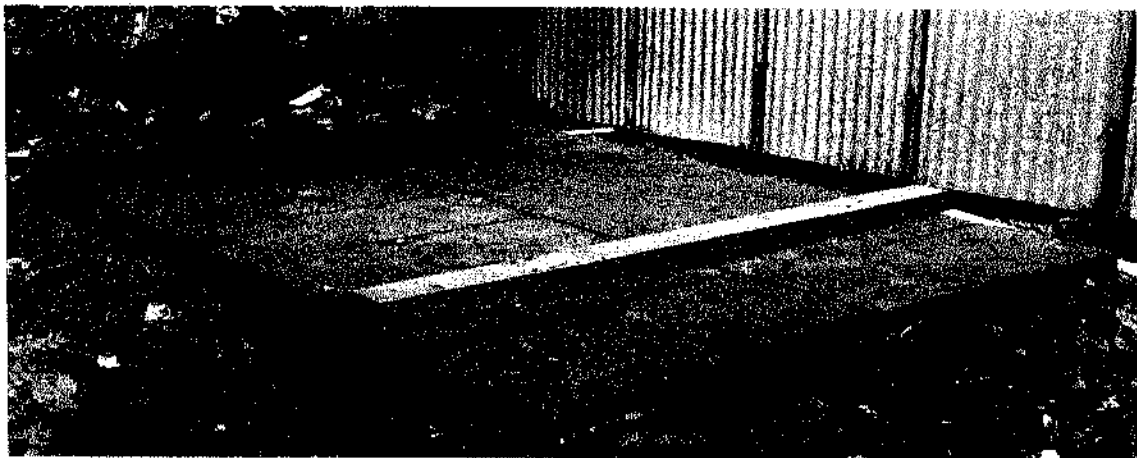
Sinter Plant pump house area sump



Rain water harvesting sump at MBF area



Rain water harvesting sump at near Admin building



ANNEXURE- X

DETAILS OF CAPITAL EXP. FOR ENVIRONMENTAL POLLUTION CONTROL MEASURES		
SL. No.	Name of the Equipment/Abatement Measures	Amount (Rs. In Crores)
	MBF	
01	GAS CLEANING PLANT	3.80
02	VENTURY	
03	SATURATOR	
04	FUME EXTRACTION SYSTEMS	0.70
05	ALL MBF STACK (II,IV&V)	0.55
06	ONLINE STACK MONITERING SYSTEM	0.03
	CPP	
01	CPP STACK (III)	0.28
	SINTER	
01	ESP	7.25
02	BAG FILTER	0.40
03	STACK (I)	0.35
04	ONLINE STACK MONITERING SYSTEM	0.03
A	TREE PLANTATION	0.03
	TOTAL	13.42

DETAILS OF RECURRING EXP. FOR ENVIRONMENTAL POLLUTION CONTROL MEASURES		
SL. No.	Name of the Equipment/Abatement Measures	Amount (Rs. In Crores)
1	MAINT. OF SAPLINGS	0.02
2	ENVIRONMENT MONITORING	0.03
	TOTAL	0.05

ANNEXURE A:		
Status of Charter on Corporate Responsibility for Environment Protection (CREP)		
Sl	Action Points For Integrated Iron & Steel Industry.	Status at NML/ Action Plan.
1	Coke Oven Plant	
	a. To meet the parameters PLD (% leaking doors), PLL (% leaking lids).	Not applicable because we do not have the Coke Oven Plant.
	b. To rebuild at least 40% of the coke oven batteries in next 10 years (December 2012)	Not applicable because we do not have the Coke Oven Plant.
2	Steel Melting Shop	Not applicable because we do not have the Steel Melting Shop
	Fugitive emission to reduce 30% within March 2004 and 100% in March 2008 (Including installation of secondary De-dusting facilities).	Not applicable because we do not have the Steel Melting Shop.
3	Blast Furnace	
	Direct injection of reducing agent by June 2013 (C.D.I)	i) Permission granted from MoEF&CC on 07.02.2019. ii) CTE obtained from WBPCB on 22.11.2019. iii) CTO obtained from WBPCB on 28.04.2021. Annexure 1.
4	Solid Waste / Hazardous Waste	
	Utilization of steel Melting shop (SMS)/ Blast Furnace(BF) slag by: By 2004-70% By 2006-80% By 2008-100%	i) 100% BF Slag is sold for Cement making. ii) 100% Dust Collected from Air Pollution Control Devices and Sludge from Gas Cleaning Plant are reused in the Sinter Plant.
5	Hazardous Waste Management	
	Charge of tar sludge & ETP sludge to Coke ovens by June' 03.	As we don't have Coke Oven plant, we are not generating any tar sludge or ETP sludge.
	Inventorization of hazardous waste as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. (Tar sludge, acid sludge, and waste Lubricating oil and type flue falls in the category of hazardous waste.	Tar Sludge and Acid Sludge are not generated in BF. Used Oil/Waste Oil is Sold/Disposal to WBPCB authorized co-processor/ re-processor/CHWTSDF. West Bengal Pollution Control Board has issued us the authorization for hazardous waste management in Form- 2 vide memo no.-38/2S (HW)- 2497/2009 dated on 02.03.2020 and valid up to 31 st March 2024. Annexure 2.

6		Water Conservation /Water Pollution	
	a.	To reduce specific water consumption of 5 m ³ /t for long products by December 2005.	We are not making any long products / No Rolling Mill Exists in the Plant.
	b	To operate the CO & BPP effluent treatment plant efficiently to achieve the notified effluent discharge standards - by July 2005.	No Coke Oven and By-Products plant existing in the Plant.
7		Installation of continuous stack monitoring system & its calibration in major stacks and setting up of the online ambient air quality monitoring stations by June 2005.	Installed in Major Stacks and results are directly transmitted to CPCB.
8		To operate the existing pollution control equipment efficiently and to keep proper record run hours, failure time and efficiency with immediate effect. Compliance report in this regard is submitted to CPCB/SPCB every three month.	Pollution Control Equipment are operated efficiently and record maintained. Compliance report in this regard is submitted to WBPCB as Stipulated in CTO.
9		To implement the recommendations of Life Cycle Assessment (LCA) study sponsored by MOEF by December 2003.	No such recommendation was asked for in the Environmental Clearance letter.
10		The industry will initiate the steps to	
	a	Energy recovery to top blast furnace gas	Blast furnace gas after cleaning in GCP is being utilized as a fuel in C.P.P, MBF Stove, Sinter Plant, and Ladle pre-heating. As of a mini BF- 215 m ³ , will not much of top pressure, thus energy recovery from top gas pressure is not provided.
	b	Use of tar free runner linings.	We are using Tar Free runner linings.
	c	Cast house de-dusting (tap holes, runners, skimmer, ladle and charging points).	Operation of fume extraction System in Cast House to control the fugitive emissions at cast house.

	d	Suppression of fugitive emissions using nitrogen gas or any other inert gas.	There is no fugitive emission of Hydro Carbon or Volatile Organic Compounds from the BF and Sinter Plant that requires suppression by using nitrogen gas or any other inert gas.
	e	To study the possibility of slag fly ash transportation back to the abandoned mines to fill up the cavities through empty railway wagons while they return back to the mines and its implementation.	We are Selling 100% BF Slag for cement making. We are not generating any Fly Ash as we are operating mini Blast Furnace, Sinter Plant and BFG fired Captive Power Plant.
	f	Processing of the waste containing flux & ferrous wastes through waste recycle plant.	We are reusing entire fines of flux & ferrous in sinter plant.
	g	To implement rain water harvesting.	We have augmented the existing Sumps where runoff within the plant is collected. This water is utilized in the plant for cooling and dust suppression during lean season. We have made the roof top rain water harvesting reservoirs to collect the rain water and it is being used for our auxiliary consumption.
	h	Reduction of greenhouse gases by:	
	1	Reduction in power consumption	i) We are using the waste heat of flue gas to recuperator/ hot gas generator and economizer. ii) We are using LED lighting arrangements. iii) We are adhere to Preventive Maintenance, Preventive Inspection and Condition Base Monitoring schedules and align with Dynamic Balancing for avoiding the wastage of energy. Along with all such efforts, we achieved Large Scale Category of Energy Conservation Award (ENCON) 2020, CII Eastern Region. Annexure B.
	2	Use of byproducts gases for power generation	The BF gas generated from blast furnace is being utilized in the power generation in CPP which generates 4.5 MW power.
	3	Promotion of energy optimization technology, including energy audit,	Energy Audit conducted on August- 2020. Report attached as Annexure C.
	4	As regard to the conservation of energy and fuel, using of heat exchanger to recover the waste heat energy of flue gases.	From April'18, we have successfully commissioned the recuperator for the re-utilization of the waste gas from stove heating of blast furnace which is used as hot gas generator.

i	To progressively set targets for resource conservation such as raw material, energy and water consumption to match international standards.	i) We are converting the collected fines to Sinter and using the Sinter in BF. This is reducing the use of Iron Ore in BF and helping in resource Conservation. ii) Successfully operational of recuperator and recovering of flue gas waste heat to re-utilize in process is conserving the resources and energy. iii) Waste heat from sinter cooler is being utilized for coke drying. iv) Our Water Consumption is 1849 m³ per day to make about 537 ton of material. This yield approx. 3.44 m³ specific water consumption per ton of finished metal produced as against 5 m³/t for long products and 7 m³/t for flat products. The plant is based on water recirculation system, entire water is recycled and reused and for that the raw water consumption is 3.44 m³/t. We are making efforts to further reduce the specific water consumption.
j	Up gradation in the monitoring analysis facilities for air and water pollution. Also to impart laboratory training to the manpower so that realistic data is obtained in the environmental monitoring laboratories.	We are conducting environment monitoring analysis in respect of air and water bi-monthly basis through NABL accredited laboratory. Our Lab Staff is trained for analyzing the basic parameters in water and waste water. Online Monitoring facility has been provided in all major stacks. The Staff has been trained to analyze the trends along with NABL accredited lab.
k	To improve housekeeping.	(a) To improve the house keeping within the plant premises, we are in practice of 5S implementation. (b) On regular basis cleaning of the spillage especially in RMHS and Ground hopper area is carried out. (c) The cleaned materials/dust particles are collected and sent for re-use in the Sinter plant. This is being monitored regularly and the concerned department has been made responsible to maintain it.

"Expansion"
WEST BENGAL POLLUTION CONTROL BOARD

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



Consent Letter Number : CO131940

Memo Number : 87-7/WPBD-Cont(2809)/06(Part-I)

Date : 28/04/2021

Consent to Operate

under

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

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

M/s. Neo Metal Ltd.

WEST BENGAL

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

(hereinafter referred to as Applicant) for its unit located at Vill-2 P.O. Gopalpur, P.S. - Kankra,
Durgapur, Paschim Bardhaman - 713212

(Detailed address of the manufacturing unit)

for a period from date of issue to 30/04/2022

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

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

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

This Consent is valid for operation of 100 TPD Retrofit Pulverised Coal Injection system on it's existing Blast Furnace without increase of production capacity



For and on behalf of the State Board

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

Harshi
28/04/21
Environmental Engineer
W. B. Pollution Control Board
Operation & Execution Cell

(2)

ANNEXURE

Consent to M/s. Neo Metaliks Ltd.
 for its unit at Vill. & P.O. - Gopalpur, P.S. - Kankesan, Durgapur,
Paschim Bardhaman - 713212

Conditions :

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

Sl. No.	Name of major products and by-products	Quantity manufactured per month
01	Pulverised coal	3,500 MT
02	(for using as fuel in the	
03	existing Blast Furnace without	
04	increase its existing production	
05	capacity) WEST BENGAL	
06		
07		
08		
09		
10		
11		
12		

02. The Applicant shall remain responsible for quantity and quality of liquid effluent and air emissions.
03. Daily discharge of industrial liquid effluent shall not exceed recycled KL.
04. Daily discharge of domestic liquid effluent shall not exceed 1.12 KL.
05. Daily discharge of mixed (industrial & domestic) liquid effluent shall not exceed — KL.
06. The Applicant shall discharge liquid effluent to STP to Soakpit (ZLD) (place of discharge) through — nos. outlets / outfalls.
07. To bring into any altered or new outlet/outfall or to change the place of discharge, the Applicant shall have to inform the Board and obtain prior permission of the Board in this effect.
08. The Applicant shall provide comprehensive facility for treatment of industrial liquid waste and domestic liquid waste (sewage, sullage and liquid effluent generated from canteen), and operate and maintain the same continuously so that the quality of final effluent conforms to the Standard as given in Table-I in page 03.

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

M. K. Das
 28/04/21
 Environmental Engineer
 W. B. Pollution Control Board
 Operation & Execution Cell

(3)
Consent to Mrs. Mrs. Melabika L.L.
for its unit at Kelli P. P.O. - Gopalpur, P.S. - Kankar, Durgapur.
Paschim Bardhaman - 713212

[illegible]

10. Dally water consumption for the following purposes should not exceed :-

- The Applicant shall regularly submit to the Board the Returns of Water Consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.

Environmental Engineer
W. B. Pollution Control Board
Operation & Execution Unit

(4)

Consent to M/s. Neo Metaliks Ltd.
 for its unit at Vill. & P.O. - Gopalpur, P.S. - Kanksa, Durgapur,
Paschim Bardhaman - 713212

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

Table-II

Stack No.	Stack height from G.L. (in mts.)	Stack attached to (sources and control system, if any):	Volume Nm ³ /hr.	Velocity of gas emission m/sec	Concentrations of parameters not to exceed				Frequency of emission sampling
					SPM (mg/Nm ³)	CO ₂ (%v/v)	SO ₂ (mg/Nm ³)	NO _x (mg/Nm ³)	
S-1	50	Pulverised Coal Injection unit	—	—	100	—	—	—	Half Yearly
S-2		with Bag filter							
S-3									
S-4									
S-5									
S-6									
S-7									
S-8									
S-9									
S-10									

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

Environmental Engineer
 W. B. Pollution Control Board
 Operation & Execution Cell

CO131940

(5)

Consent to M/s. Neo Metaliks Ltd.
for its unit at Vill 8 P.O. - Gopalpur, P.S. - Kankra, Durgam,
Paschim Bardhaman - 713212

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

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

Sl. No	Type of fuel	Quantity consumed per day	Fuel burning operation where the fuel is used
01			
02			
03			
04			
05			

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

Type of waste	Quantity	Treatment	Disposal

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

Time	Limit in dB(A) L_{eq}
Day Time (06 a.m. to 09 p.m.)	65
Night Time (09 p.m. to 06 a.m.)	55

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

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

20. The Applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the Applicant to maintain compliance with the terms and conditions of the consent. In absence of such an alternate electric power source, the Applicant shall stop, reduce or otherwise control production to abide by the terms and conditions of the Consent regarding pollution level.

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

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

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

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

Haroli
28/04/21
Environmental Engineer
W. B. Pollution Control Board
Operation & Execution Cell

Consent to M/s Neo Metaliks Ltd.

for its unit at Vill. R.P.O. - Gopalpur, P.S. - Kanksa, Durgapur,
Paschim Bardhaman - 713212

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

Additional Conditions See Annexure.

(Member Secretary/Chief-Engr./Sr-Env-Engr. /

Environmental Engineer.)

W. B. Pollution Control Board
 Operation & Execution Cell

Annexure to Consent Letter Number COI31940

Additional Conditions issued M/s. Neo Metaliks Limited at existing factory premises VIII & P.O. Gopalpur, P.S. Kanksa, Dist. Paschim Bardhaman, PIN-713212

1. The unit should comply all the conditions mentioned in Consent to Establish (NOC) Sl.No.NO159423 vide memo no.F125-2N-566/2003-Part-I issued in favour of the industry for expansion project.
2. The unit should obtain all the statutory licenses as applicable from other concerned Govt. Department.
3. This consent may be revoked at any time on violation of environmental norms.
4. The unit shall submit a status of compliance of the conditions stipulated in EC.
6. This consent to Operate is valid for operation of Retrofit Pulverised Coal Injection system in its existing 215 m³ Blast Furnace without any increase in existing production capacity.

Wardi
28/04/20
Environmental Engineer
West Bengal Pollution Control Board
Environmental Engineer
W. B. Pollution Control Board
Operation & Execution Cell



Confederation of Indian Industry



Recognition of Excellence in Energy Conservation

CERTIFICATE

Congratulation to

Neo Metaliks Limited

for successfully achieving



in the Large Scale Category of Energy Conservation Award (ENCON) 2021, CII Eastern Region

Vijay Dewan

Chairman, CII Eastern Region

Report Prepared for:

Neo Metaliks Limited

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This report is prepared by **Verde Consulting Pvt. Limited.**

Authors of this report: Mr. Goutam Saha, Mr. Anirudhha Neogi and Mr. Sandipan Sinha

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Disclaimer

The information contained in this report has been compiled by **Verde Consulting Pvt. Limited (VCPL)** on the basis of information provided by site personnel at **Gopalpur Unit of Neo Metaliks Ltd.**, during the visit made by VCPL team in the months of August 2020 and thorough measurements made with online portable instruments.

No liability of any kind whatsoever is assumed by VCPL, or any of its directors, officers, employees, advisors or agents in relation to any findings, conclusions, opinions, forecasts, projections, or otherwise in relation to this study report.

Acknowledgement

We express our sincere gratitude to M/s. Neo Metaliks Ltd. (NML) for giving us the opportunity to conduct Energy Audit study and present the findings and recommendations for its unit located at Vill: Gopalpur, PO: Gopalpur, Via: Durgapur, Dist.: Burdwan, Durgapur 713212, West Bengal, India. We thankfully acknowledge the support and guidance provided by all concerned officials during the study.

Neo Metaliks Limited

- | | |
|--------------------|----------------------|
| ➤ Mr. Nilotpal Roy | - Executive Director |
| ➤ Mr. Samar Sarkar | - DGM (CPP) |

Last but not the least, we are thankful to all officers and employees of the unit, with whom we had interacted during the field study, for their wholehearted support in undertaking measurements and eagerness to assess the system.

1. EXECUTIVE SUMMARY

1.1 Energy Conservation Measures (ECM)

The assignment covers study of the major energy consuming equipment and systems of the plant, like boiler, turbine, condenser, cooling towers, mini blast furnace, blowers, fans, pumps, sintering sections, compressors and lighting system.

Based on the detailed study of all major energy intensive areas, following Energy Conservation Measurements (ECMs) are suggested:

	Electricity kWh/yr.	Monetary In Lakh INR/yr.	Investment	
			Lakh INR	Years
Proposal I				
Electrical Energy Saving through Overhauling of Sinter ID Fan	350586	19.5	10	0.51
Proposal II				
Electrical Energy Saving through Replacing the Existing ID Fan with an Energy Efficient ID Fan	1168793	65	18	0.28
Replace existing Major Pumps in CPP, Sinter and MBF section by Energy Efficient Pumps	616075	34.19	19	0.56
Replace existing Cooling Towers at MBF and Sinter Section by Fanless and Finless Cooling Tower and Save Energy and Water.	443732	14.64	40	2.73
Replace Existing Sinter Cooling Fans by Energy Efficient Fans and Save Energy	332243	18.44	24	1.3

VERDE

Install Energy Efficient Boiler Feed Pump (BFP) with VFD Drive	218654	12.14	27	2.22	5
Efficiency Improvement of Force Draft (FD) Fan at CPP Section by Installing Energy Efficient Fan & Motor and operate at best efficiency point by existing VFD	74727	4.15	8	1.93	6
Main Cooling Water (MCW) Pump Efficiency Improvement through overhauling and operate at best efficiency point by Installing VFD and Save Electrical Energy	134767	7.48	14	1.87	7
Reduce the power consumption of ID to by control of Control of High Excess Air and Cold Air ingress in APH	83953	4.66	3	0.64	8
Improvement in boiler feed water temperature by repair/replacement of economizer tubes.	750291	3.75	2	0.53	9
Boiler Feed Water Pump Pressure drop Optimization	65344	3.63	NIL	Immediate	10
Optimize the Discharge Pressure of Condensate Extraction Pump (CEP)	48117	2.67	NIL	Immediate	11
Efficiency Improvement of Induced Draft (ID) Fan at CPP Section by overhauling and operate at best efficiency point through existing VFD	45201	2.51	2	0.8	12
Improve effectiveness of cooling tower through overhauling and cleaning	470577	2.35	1.5	0.64	13
Preheat the BF Gas by Sinter Flue Gas Before Using at Sinter Ignition Furnace and Save Energy	312784	1.56	-	-	14

Energy Savings by Installation of Rotary Type Screen at Inlet of 4 Roll Crusher in Sinter Plant	14969	0.83	2	2.41	15
Install Static Capacitor at Load end for Major Equipment of MBF Section and Save Electrical Energy	10361	0.58	0.98	1.70	16
Install Static Capacitor at Load end for Major Equipment of CPP Section and Save Electrical Energy	6901	0.38	0.90	2.35	17
Replace Existing 400W HPSV Lights with 150W LED Flood Light and Save Energy	102194	5.25	4.26	0.81	18
Replace Existing 250W HPSV Lights with 100W LED Light and Save Energy	24769	1.22	1.51	1.24	19
Replace Existing 150W HPSV Lights with 75W LED Light and Save Energy	37121	1.77	2.93	1.66	20
Replace Existing 70W HPSV Lights with 40W LED Light and Save Energy	12693	0.53	1.76	3.32	21
	4974266	188	173	0.92	-

**Total value is calculated considering ECM-1 Proposal II