neo metaliks ltd.

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Website: www.neometaliks.com, CIN: U27109WB2003PLC097231

QUALITY SYSTEM CERTIFICATION DNV·GL ISO 9001:2015

To,

Date – 11/06/2021

The Environment Engineer (In-charge),

West Bengal Pollution control Board,

(Government of West Bengal)

City Centre, Durgapur - 713216

Sub: Six Monthly Environmental clearance Compliance Report for the period of **October-2020** to **March-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 **October-2020** to **March-2021** of Neo Metaliks Ltd.

This is for your kind information.

Yours faithfully,

For Neo Metaliks Ltd.

NEO METALIKS LTD Gopalpur Durgapur-12

Authorized Signatory

Cc:
Dr. Suresh Babu Pasupuleti
Scientist – C (MoEF&CC)

The Director
Ministry of Environment Forest & Climate Change,
(Government of India)
A/3 Chandrasekharpur,
Eastern Region, Bhubaneswar-751023

Environmental Clearance Compliance Report

for the period October- 2020 to March- 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/Nm^3. 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.**	**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. **(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. **(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)** Online monitoring system has been installed for the following process stacks: 1. Sinter Plant Process stack 2. Blast Furnace Stove stack 3. Captive Power Plant stack In addition to that bi-monthly Environment Monitoring is being carried out by NABL accredited laboratory.

SL	SPECIFIC CONDITION	COMPLIANCE STATUS
		A (ii) Time bound Action Plan to reduce RSPM Level. **a)** Tree Plantation is our ongoing process. Total 15785 nos. of trees have been planted in about 16.5 acre within and around the plant boundary till 31st March 2021. **b)** Further 7000 saplings will be completed during 2021 & another 7000 saplings will be completed in 2022. **c)** We are in process to purchase additional 11-acres of land adjacent to plant boundary for plantation. With this we will accommodate more than 33% of plantation in and around the plant premises. **d)** We don't have any steel making process now. **e)** Last six-monthly report has been submitted for the period of April'20 to September'20 to the Ministry through e-mail on 1st Dec. 2020 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.**	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 Venturi scrubber. 100% BF gas is used in Captive Power Plant, Hot Blast Stove, Sinter Plant and Ladle Reheating Furnace. And at the same time, it is flared if any end user points are down. ESP and bag filters are attached with Sinter Plant. The waste gas from stove heating of blast furnace is used as hot gas generator. **We do not have IF, EAF, Reheating Furnace and Rolling Mill presently.**
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 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)** We have mobilized a portable water cannon; it generates fog to suppress dust within 20 meters radius. **(d)** 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. **(e)** 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 replaced with new bags. **(f)** We don't have any steel making process now.

SL	SPECIFIC CONDITION	COMPLIANCE STATUS
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 within CPCB 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 waterbed on the main concrete road for washing the on-road vehicle wheel. **(c)** Operational of the water fog cannon at raw material handling section to suppress the fugitive emissions on regular basis.

A (vi)	**Total water requirement from Asansol Durgapur Development Authority (ADDA) shall not exceed 6,120 m3 / 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**	(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 II** (Letter no. ED/CA-79/04- 05/1428, dt-19.07.05). (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 Water discharge system (entire wastewater is recycled/ reused within plant premises). No wastewater is discharged outside the plant premises.

SL	SPECIFIC CONDITION	COMPLIANCE STATUS
	effluent shall be used for green belt development	**(d)** Sanitary effluent is treated in septic tanks and soaks pits. Canteen wastewater is treated in Oil-water separator and then used for greenery development.
A (vii)	**Permission for the drawl Of 6,120 m3/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 II**
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 / re-processors.**	**(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. MOU is attached. **Annexure III** **(c)** No steel making slag is generated as we have not installed SMS with IF and EAF. **d)** Broken refractory mass is used as sub-base material for road making and also sold it to respective agency for recycling. **e)** Used/ waste oil is sold to WBPCB authorized co-processor/ re-processor; name- M/s Ba-ma Oil Industries. The authorization letter is attached. **Annexure IV**.
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 III** **(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)** Tree Plantation is our ongoing process. Total 15785 nos. of trees have been planted in about 16.5 acre within and around the plant boundary till 31st March 2021.

		b) Further 7000 saplings will be completed during 2021 & another 7000 saplings will be completed in 2022. **c)** We are in process to purchase additional 11-acres of land adjacent to plant boundary for plantation. With this we will accommodate more than 33% of plantation in and around the plant premises.

SL.	SPECIFIC CONDITION	COMPLIANCE STATUS
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.**	Complied during construction.

SL	GENERAL CONDITION	COMPLIANCE STATUS
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. We have received the Consent to operate for MBF, Sinter Plant & CPP which is valid up to 30.04.2022.
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 complied.
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. Stack emissions monitoring are being regularly conducted by NABL accredited laboratory. Online stack monitoring system installed in process stacks. Results are directly transmitted to CPCB. **(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 online real time 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**	**(a)** We initiated ISO 14001 to ensure EMS in place for continuous improvement. **Ref: Annexure I** **(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.

	conforming to the standards. Fugitive emissions shall be regularly monitored and records maintained.	**(e)** Mobile Water Sprinkling Tanker deployed inside the plant premises at regular basis. **(f)** Operational 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 their Regional office at Bhubaneswar every six months. Also the same is sent to the State Pollution control board (WBPCB) every six months. **Ref: Annexure IA.**

SL	GENERAL CONDITION	COMPLIANCE STATUS
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, SO_2 and NOx 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 (bimonthly) environment monitoring by NABL accredited external laboratory and reports are being submitted to the Ministry through its Regional Office at Bhubaneswar and WBPCB once in six months. 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 at Bhubaneswar and WBPCB once in six months. **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 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,**	Noise monitoring results attached. The ambient noise levels at plant boundary are below 75 dB (A) during daytime and 70 dB (A) during night time. Noise levels in work environment are below 85 dB (A). The results are attached in **Annexure V**.

SL	GENERAL CONDITION	COMPLIANCE STATUS
	1989 viz. 75 dB(A) (daytime) and 70 dB(A) (night time).	
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 initiated ISO 45001 to ensure Safety and Health. **(b)** All employees during induction are screened medically by plant medical officer. **(c)** Periodic health examination is carried out as per the prevailing norms. The test of Routine parameters and Specific Parameters is conducted by industrial hygiene experts.
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 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. **(b)** We have made roof top rainwater harvesting reservoirs and the harvested rainwater is being used in process, plantation, dust suppression etc. **(c)** No natural drainage is getting intercepted by the plant boundary and it is directed by peripheral drains outside. **(d)** To have further improvement, we contacted CSIR Bhubaneswar & NIT-Durgapur to guide us. We will submit detailed action plan in July-21 for subsequent implementation,
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. In the FY 2020-21, NML conducted the following socio-economic development for which cost incurred more than 31 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**	For the existing plant consisting of MBF, Sinter Plant and CPP Rs. 13.39 Crores has been used as CAPEX for pollution control measures. **Annexure VI**

SL	GENERAL CONDITION	COMPLIANCE STATUS
	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.	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 condition compliance report is being submitted to MOEF / WBPCB on regular basis. Last submission done on 1st Dec. 2020.
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 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.**	Complied with.
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.**	Complied.

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TC-6271

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

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Sample Description Sample Mark Ref No. Date	: QLS/A/20-21/C/209 : 15.10.2020 : QLS/A/20-21/209 : Ambient Air : PCM Side Boundary Wall : W119Y-00152, Dated: 03.03.2020

Analysis Result

Location: PCM Side Boundary Wall			Date of sampling : 28-29.09.2020	
Sampling Done by: S.Ghosh/J.Sahana			Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Cloudy				
Sl. No.	**Pollutants**	**Result**	**Limit as per CPCB**	**Method of Test Reference**
1	Particulate matter (PM_{10}) in $\mu g/m^3$	66	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter $PM_{2.5}$) in $\mu g/m^3$	35	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO_2) in $\mu g/m^3$	6.9	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO_2) in $\mu g/m^3$	29.8	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in $\mu g/m^3$	446	2000	IS: 5182 (Part-10):1999,RA-2014
NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.				

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

(Authorized Signatory)

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TC-6271

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

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Sample Description Sample Mark Ref No. Date	: QLS/A/20-21/C/208 : 15.10.2020 : QLS/A/20-21/208 : Ambient Air : Near Boundary Wall (North East Side) : W120604-001, Dated: 04.06.2020

Analysis Result

Location: Near Boundary Wall (North East Side)			Date of sampling : 27-28.09.2020	
Sampling Done by: S.Ghosh/J.Sahana			Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Cloudy				
Sl. No.	**Pollutants**	**Result**	**Limit as per CPCB**	**Method of Test Reference**
1	Particulate matter (PM_{10}) in $\mu g/m^3$	54	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter $PM_{2.5}$) in $\mu g/m^3$	21	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO_2) in $\mu g/m^3$	6.5	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO_2) in $\mu g/m^3$	28.9	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in $\mu g/m^3$	492	2000	IS: 5182 (Part-10):1999,RA-2014
NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.				

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- ***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.***

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TC-6271

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

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Sample Description Sample Mark Ref No. Date	: QLS/A/20-21/C/207 : 15.10.2020 : QLS/A/20-21/207 : Ambient Air : Near CPP Cooling Tower : W119Y-00152, Dated: 03.03.2020

Analysis Result

Location: Near CPP Cooling Tower			Date of sampling : 27-28.09.2020	
Sampling Done by: S.Ghosh/J.Sahana			Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Cloudy				
Sl. No.	**Pollutants**	**Result**	**Limit as per CPCB**	**Method of Test Reference**
1	Particulate matter (PM_{10}) in $\mu g/m^3$	59	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter $PM_{2.5}$) in $\mu g/m^3$	30	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO_2) in µg/m3	7.3	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO_2) in µg/m3	34.6	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in $\mu g/m^3$	675	2000	IS: 5182 (Part-10):1999,RA-2014
NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.				

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TC-6271

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

TEST REPORT

Name & Address Of the Customer :	Report No.	: QLS/A/20-21/C/205
M/s. Neo Metaliks Ltd.	Date	: 15.10.2020
Vill + P.O. : Gopalpur	Sample No.	: QLS/A/20-21/205
P.S. : Kanksa,Durgapur	Sample Description	: Ambient Air
Paschim Bardhaman	Sample Mark	: Near Main Gate
West Bengal – 713 212	Ref No. Date	: W119Y-00152, Dated: 03.03.2020

Analysis Result

Location: Near Main Gate	Date of sampling : 27-28.09.2020
Sampling Done by: S.Ghosh/J.Sahana	Sampling done as per : CPCB Guidelines (Volume-1)
Environmental Condition : Cloudy	

Sl. No.	Pollutants	Result	Limit as per CPCB	Method of Test Reference
1	Particulate matter (PM_{10}) in $\mu g/m^3$	93	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter ($PM_{2.5}$) in $\mu g/m^3$	56	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO_2) in $\mu g/m^3$	8.4	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO_2) in $\mu g/m^3$	31.1	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in $\mu g/m^3$	984	2000	IS: 5182 (Part-10):1999,RA-2014

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

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

TC-6271

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

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Sample Description Sample Mark Ref No. Date	: QLS/A/20-21/C/206 : 15.10.2020 : QLS/A/20-21/206 : Ambient Air : Near Administrative Building : W119Y-00152, Dated: 03.03.2020

Analysis Result

Location: Near Administrative Building			Date of sampling : 26-27.09.2020	
Sampling Done by: S.Ghosh/J.Sahana			Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Cloudy				
Sl. No.	**Pollutants**	**Result**	**Limit as per CPCB**	**Method of Test Reference**
1	Particulate matter (PM_{10}) in $\mu g/m^3$	76	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter $PM_{2.5}$) in $\mu g/m^3$	43	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO_2) in $\mu g/m^3$	7.6	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO_2) in $\mu g/m^3$	32.0	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in $\mu g/m^3$	709	2000	IS: 5182 (Part-10):1999,RA-2014
NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.				

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

TC-6271

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

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/A/20-21/C/314
Vill + P.O. : Gopalpur	Date	: 01.12.2020
P.S. : Kanksa,Durgapur	Sample No.	: QLS/A/20-21/314
Paschim Bardhaman	Sample Description	: Ambient Air
West Bengal – 713 212	Sample Mark	: Near Main Gate
	Ref No. Date	: W119Y-00152, Dated: 03.03.2020

Analysis Result

Location: Near Main Gate			Date of sampling : 13/14.11.2020	
Sampling Done by: S.Ghosh			Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Clear & Sunny				
Sl. No.	**Pollutants**	**Result**	**Limit as per CPCB**	**Method of Test Reference**
1	Particulate matter (PM_{10}) in µg/m^3	147	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter ($PM_{2.5}$) in µg/m^3	86	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO_2) in µg/m^3	9.3	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO_2) in µg/m^3	32.1	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in µg/m^3	812	2000	IS: 5182 (Part-10):1999,RA-2014
NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.				

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TC-6271

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

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Sample Description Sample Mark Ref No. Date	: QLS/A/20-21/C/315 : 01.12.2020 : QLS/A/20-21/315 : Ambient Air : Near Administrative Building : W119Y-00152, Dated: 03.03.2020

Analysis Result

Location: Near Administrative Building			Date of sampling : 12/13.11.2020	
Sampling Done by: S.Ghosh			Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Clear & Sunny				
Sl. No.	**Pollutants**	**Result**	**Limit as per CPCB**	**Method of Test Reference**
1	Particulate matter (PM_{10}) in $\mu g/m^3$	90	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter ($PM_{2.5}$) in $\mu g/m^3$	56	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO_2) in $\mu g/m^3$	8.7	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO_2) in $\mu g/m^3$	30.8	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in $\mu g/m^3$	721	2000	IS: 5182 (Part-10):1999,RA-2014
NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.				

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TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Sample Description Sample Mark Ref No. Date	: QLS/A/20-21/C/316 : 01.12.2020 : QLS/A/20-21/316 : Ambient Air : Near Boundary Wall- North east side : W119Y-00152, Dated: 03.03.2020

Analysis Result

Location: Near Boundary Wall- North east side			Date of sampling : 12/13.11.2020	
Sampling Done by: S.Ghosh			Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Clear & Sunny				
Sl. No.	**Pollutants**	**Result**	**Limit as per CPCB**	**Method of Test Reference**
1	Particulate matter (PM_{10}) in µg/m^3	76	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	8.0	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO_2) in µg/m^3	30.8	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, 18th 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.	Report No.	: QLS/A/20-21/C/317
Vill + P.O. : Gopalpur	Date	: 01.12.2020
P.S. : Kanksa,Durgapur	Sample No.	: QLS/A/20-21/317
Paschim Bardhaman	Sample Description	: Ambient Air
West Bengal – 713 212	Sample Mark	: PCM Side , Boundary Wall
	Ref No. Date	: W119Y-00152, Dated: 03.03.2020

Analysis Result

Location: PCM Side , Boundary Wall			Date of sampling : 11/12.11.2020	
Sampling Done by: S.Ghosh			Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Clear & Sunny				
Sl. No.	**Pollutants**	**Result**	**Limit as per CPCB**	**Method of Test Reference**
1	Particulate matter (PM_{10}) in $\mu g/m^3$	70	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter $PM_{2.5}$) in $\mu g/m^3$	41	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO_2) in $\mu g/m^3$	8.9	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO_2) in $\mu g/m^3$	32.4	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in $\mu g/m^3$	595	2000	IS: 5182 (Part-10):1999,RA-2014
NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.				

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TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Sample Description Sample Mark Ref No. Date	: QLS/A/20-21/C/318 : 01.12.2020 : QLS/A/20-21/318 : Ambient Air : CPP Cooling tower : W119Y-00152, Dated: 03.03.2020

Analysis Result

Location: CPP Cooling tower			Date of sampling : 11/12.11.2020	
Sampling Done by: S.Ghosh			Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Clear & Sunny				
Sl. No.	**Pollutants**	**Result**	**Limit as per CPCB**	**Method of Test Reference**
1	Particulate matter (PM_{10}) in $\mu g/m^3$	75	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter $PM_{2.5}$) in $\mu g/m^3$	33	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO_2) in $\mu g/m^3$	7.8	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO_2) in $\mu g/m^3$	29.9	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in $\mu g/m^3$	503	2000	IS: 5182 (Part-10):1999,RA-2014
NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.				

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TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	ULR No. Report No. Date Sample No. Sample Description Sample Mark Ref No. Date	: TC627121000000206F : QLS/A/20-21/C/414 : 08.02.2021 : QLS/A/20-21/414 : Ambient Air : Near Main Gate : W120604-001, Dated: 04.06.2020

Analysis Result

Location: Near Main Gate			Date of sampling : 18-19.01.2021	
Sampling Done by: S.Ghosh/J. Sahana			Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Sunny & Clear				
Sl. No.	**Pollutants**	**Result**	**Limit as per CPCB**	**Method of Test Reference**
1	Particulate matter (PM_{10}) in $\mu g/m^3$	152	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter ($PM_{2.5}$) in $\mu g/m^3$	82	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO_2) in $\mu g/m^3$	9.6	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO_2) in $\mu g/m^3$	32.3	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in $\mu g/m^3$	881	2000	IS: 5182 (Part-10):1999,RA-2014
NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.				

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TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	ULR No. Report No. Date Sample No. Sample Description Sample Mark Ref No. Date	: TC627121000000210F : QLS/A/20-21/C/418 : 08.02.2021 : QLS/A/20-21/418 : Ambient Air : Near Store & Admin Area : W120604-001, Dated: 04.06.2020

Analysis Result

Location: Near Store & Admin Area	Date of sampling : 21-22.01.2021
Sampling Done by: S.Ghosh/J. Sahana	Sampling done as per : CPCB Guidelines (Volume-1)
Environmental Condition : Sunny & Clear	

Sl. No.	Pollutants	Result	Limit as per CPCB	Method of Test Reference
1	Particulate matter (PM_{10}) in $\mu g/m^3$	98	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter ($PM_{2.5}$) in $\mu g/m^3$	62	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO_2) in $\mu g/m^3$	8.4	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO_2) in $\mu g/m^3$	30.1	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in $\mu g/m^3$	755	2000	IS: 5182 (Part-10):1999,RA-2014

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

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TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	ULR No. Report No. Date Sample No. Sample Description Sample Mark Ref No. Date	: TC627121000000207F : QLS/A/20-21/C/415 : 08.02.2021 : QLS/A/20-21/415 : Ambient Air : Near North East Boundary wall : W120604-001, Dated: 04.06.2020

Analysis Result

Location: Near Boundary Wall- North East Side				Date of sampling : 20-21.01.2021
Sampling Done by: S.Ghosh/J. Sahana				Sampling done as per : CPCB Guidelines (Volume-1)
Environmental Condition : Sunny & Clear				
Sl. No.	**Pollutants**	**Result**	**Limit as per CPCB**	**Method of Test Reference**
1	Particulate matter (PM_{10}) in $\mu g/m^3$	86	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter $PM_{2.5}$) in $\mu g/m^3$	41	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO_2) in $\mu g/m^3$	9.0	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO_2) in $\mu g/m^3$	31.7	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in $\mu g/m^3$	726	2000	IS: 5182 (Part-10):1999,RA-2014
NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.				

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TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	ULR No. Report No. Date Sample No. Sample Description Sample Mark Ref No. Date	: TC627121000000208F : QLS/A/20-21/C/416 : 08.02.2021 : QLS/A/20-21/416 : Ambient Air : Near PCM Side, Boundary Wall : W120604-001, Dated: 04.06.2020

Analysis Result

Location: Near PCM Side, Boundary Wall			Date of sampling : 20-21.01.2021	
Sampling Done by: S.Ghosh/J. Sahana			Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Sunny & Clear				
Sl. No.	**Pollutants**	**Result**	**Limit as per CPCB**	**Method of Test Reference**
1	Particulate matter (PM_{10}) in $\mu g/m^3$	78	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter $PM_{2.5}$) in $\mu g/m^3$	43	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO_2) in $\mu g/m^3$	7.5	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO_2) in $\mu g/m^3$	34.9	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in $\mu g/m^3$	686	2000	IS: 5182 (Part-10):1999,RA-2014
NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.				

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TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	ULR No. Report No. Date Sample No. Sample Description Sample Mark Ref No. Date	: TC627121000000209F : QLS/A/20-21/C/417 : 08.02.2021 : QLS/A/20-21/417 : Ambient Air : Near CPP Cooling Tower : W120604-001, Dated: 04.06.2020

Analysis Result

Location: Near CPP Cooling Tower			Date of sampling : 20-21.01.2021	
Sampling Done by: S.Ghosh/J. Sahana			Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Sunny & Clear				
Sl. No.	**Pollutants**	**Result**	**Limit as per CPCB**	**Method of Test Reference**
1	Particulate matter (PM_{10}) in $\mu g/m^3$	88	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter ($PM_{2.5}$) in $\mu g/m^3$	46	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO_2) in $\mu g/m^3$	6.6	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO_2) in $\mu g/m^3$	29.1	80	IS: 5182 (Part- 6)-2006, RA-2017
5	Carbon Monoxide (CO) in $\mu g/m^3$	526	2000	IS: 5182 (Part-10):1999,RA-2014
NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.				

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TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Sample Description Sample Mark Ref No. Date	: QLS/A/20-21/C/220 : 15.10.2020 : QLS/A/20-21/220 : Stack Flue Gas : DG Set(1250 kVA) : W119Y-00152, Dated: 03.03.2020

Analysis Result

Date & Time of Sampling : 28.09.2020 at 02.00 P.M. Sampling done by : S.Ghosh		Sampling Procedures : EPA/IS	
A : General Information of Stack:			
1 Stack connected to	: DG Set-1250 kVA		
2 Emission due to	: Combustion 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 : 30 lit/hr		
D : Results of Sampling & Analysis of gaseous Emission :	**Result**	**Method**	**LIMIT**
1 Temperature of emission (°C)	: 260	EPA Part 2	----
2 Barometric pressure (mm of Hg)	: 752	EPA Part 2	----
3 Velocity of gas (m/sec)	: 12.58	EPA Part 2	----
4 Quantity of gas flow (Nm^3/hr)	: 1227	EPA Part 2	----
5 Concentration of Carbon monoxide(mg/Nm^3)	: 108.9 at 15% O_2	IS:13270-1992, Reaf : 2014	150
6 Concentration of Carbon dioxide(%v/v)	: 5.0	IS:13270-1992, Reaf : 2014	----
7 Concentration of Sulphur dioxide (mg/Nm^3)	: <3.4	EPA Part-6	710
8 Concentration of Nitrogen dioxide (ppm)	: 11.3 at 15% O_2	EPA Part-7	100
9 Concentration of Particulate Matters (mg/Nm^3)	: 30 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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DOC NO : QLS/SAMP/08-B/00

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/A/20-21/C/218
Vill + P.O. : Gopalpur	Date	: 15.10.2020
P.S. : Kanksa,Durgapur	Sample No.	: QLS/A/20-21/218
Paschim Bardhaman	Sample Description	: Stack Flue Gas
West Bengal – 713 212	Sample Mark	: DG Set(1500 kVA)
	Ref No. Date	: W119Y-00152, Dated: 03.03.2020

Analysis Result

Date & Time of Sampling : 28.09.2020 at 1.30 P.M Sampling done by : S.Ghosh		Sampling Procedures : EPA/IS	
A : General Information of Stack:			
1 Stack connected to	: DG Set-1500 kVA		
2 Emission due to	: Combustion 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 : 15 lit/hr		
D : Results of Sampling & Analysis of gaseous Emission :	**Result**	**Method**	**LIMIT**
1 Temperature of emission (^{0}C)	: 260	EPA Part 2	----
2 Barometric pressure (mm of Hg)	: 752	EPA Part 2	----
3 Velocity of gas (m/sec)	: 12.58	EPA Part 2	----
4 Quantity of gas flow (Nm^3/hr)	: 1227	EPA Part 2	----
5 Concentration of Carbon monoxide(mg/Nm^3)	: 102.5 at 15% O_2	IS:13270-1992, Reaf : 2014	150
6 Concentration of Carbon dioxide(%v/v)	: 5.0	IS:13270-1992, Reaf : 2014	----
7 Concentration of Sulphur dioxide (mg/Nm^3)	: <3.4	EPA Part-6	710
8 Concentration of Nitrogen dioxide (ppm)	: 9.3 at 15% O_2	EPA Part-7	100
9 Concentration of Particulate Matters (mg/Nm^3)	: 24.2 at 15% O_2	EPA Part 5	75
E : Pollution : Details of pollution control devices attached with the stack : Nil			
F : Remarks : Nil			

for **Qualissure Laboratory Services**
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Qualissure Laboratory Services

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

TC-6271

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

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Sample Description Sample Mark Ref No. Date	: QLS/A/20-21/C/215 : 15.10.2020 : QLS/A/20-21/215 : Stack Flue Gas : Sinter Plant (Tail ESP) : W119Y-00152, Dated: 03.03.2020

Analysis Result

Date & Time of Sampling : 27.09.2020 at 11.30 A.M. Sampling done by : S.Ghosh		Sampling Procedures : EPA/IS
A : General Information of Stack:		
1 Stack connected to	: Sinter Plant (Tail ESP)	
2 Emission due to	: Process Activity	
3 Material of construction of Stack	: MS	
4 Shape of Stack	: Circular	
5 Whether stack is provided with permanent platform	: Yes	
6 Generation Capacity	: ----	
B : Physical Characteristic of Stack:		
1 Height of Stack from ground level	: 40.0 m	
2 Diameter of Stack at bottom	: ----	
3 Diameter of Stack at sampling point	: 2.0 m	
4 Height of the sampling point from ground level	: 35.0 m	
5 Area of Stack	: 3.1429 m^2	
C : Analysis/Characteristic of Stack :		
1 Fuel used : ----	2. Fuel consumption : ----	
D : Results of Sampling & Analysis of gaseous Emission :	**Result**	**Method**
1 Temperature of emission (°C)	: 78	EPA Part 2
2 Barometric pressure (mm of Hg)	: 752	EPA Part 2
3 Velocity of gas (m/sec)	: 8.94	EPA Part 2
4 Quantity of gas flow (Nm^3/hr)	: 85041	EPA Part 2
5 Concentration of Carbon monoxide (%)	: <0.2	IS:13270-1992, Reaf : 2014
6 Concentration of Carbon dioxide (%)	: 0.6	IS:13270-1992, Reaf : 2014
7 Concentration of Sulphur dioxide (mg/Nm^3)	: <3.4	EPA Part-6
8 Concentration of Nitrogen dioxide (mg/Nm^3)	: 32.3	EPA Part-7
9 Concentration of Particulate Matters (mg/Nm^3)	: 41	EPA Part 5
E : Pollution :		
Details of pollution control devices attached with the stack	: ESP	
F : Remarks : Nil		

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TC-6271

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

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/A/20-21/C/219
Vill + P.O. : Gopalpur	Date	: 15.10.2020
P.S. : Kanksa,Durgapur	Sample No.	: QLS/A/20-21/219
Paschim Bardhaman	Sample Description	: Stack Flue Gas
West Bengal – 713 212	Sample Mark	: Sinter Plant (Head ESP)
	Ref No. Date	: W119Y-00152, Dated: 03.03.2020

Analysis Result

Date & Time of Sampling : 28.09.2020 at 11.00 A.M. Sampling done by : S.Ghosh		Sampling Procedures : EPA/IS
A : General Information of Stack:		
1 Stack connected to	: Sinter Plant (Head ESP)	
2 Emission due to	: Combustion BF Gas	
3 Material of construction of Stack	: MS	
4 Shape of Stack	: Circular	
5 Whether stack is provided with permanent platform	: Yes	
6 Generation Capacity	: ----	
B : Physical Characteristic of Stack:		
1 Height of Stack from ground level	: 50.0 m	
2 Diameter of Stack at bottom	: ----	
3 Diameter of Stack at sampling point	: 2.2 m	
4 Height of the sampling point from ground level	: 37.25 m	
5 Area of Stack	: 3.8029 m^2	
C : Analysis/Characteristic of Stack :		
1 Fuel used : BF Gas	2. Fuel consumption : 3500 Nm^3/hr	
D : Results of Sampling & Analysis of gaseous Emission :	**Result**	**Method**
1 Temperature of emission (^0C)	: 137	EPA Part 2
2 Barometric pressure (mm of Hg)	: 752	EPA Part 2
3 Velocity of gas (m/sec)	: 9.88	EPA Part 2
4 Quantity of gas flow (Nm^3/hr)	: 97240	EPA Part 2
5 Concentration of Carbon monoxide (%)	: <0.2	IS:13270-1992, Reaf : 2014
6 Concentration of Carbon dioxide (%)	: 6.6	IS:13270-1992, Reaf : 2014
7 Concentration of Sulphur dioxide (mg/Nm^3)	: 39.6	EPA Part-6
8 Concentration of Nitrogen dioxide (mg/Nm^3)	: 45.0	EPA Part-7
9 Concentration of Particulate Matters (mg/Nm^3)	: 66	EPA Part 5
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 :		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/A/20-21/C/217
Vill + P.O. : Gopalpur	Date	: 15.10.2020
P.S. : Kanksa, Durgapur	Sample No.	: QLS/A/20-21/217
Paschim Bardhaman	Sample Description	: Stack Flue Gas
West Bengal – 713 212	Sample Mark	: CPP
	Ref No. Date	: W119Y-00152, Dated: 03.03.2020

Analysis Result

Date & Time of Sampling : 27.09.2020 at 04.00 P.M. Sampling done by : S.Ghosh	Sampling Procedures : EPA/IS	
A : General Information of Stack:		
1 Stack connected to	: CPP	
2 Emission due to	: Combustion FO & BF Gas	
3 Material of construction of Stack	: MS	
4 Shape of Stack	: Circular	
5 Whether stack is provided with permanent platform	: Yes	
6 Generation Capacity	: 4.5 MW	
B : Physical Characteristic of Stack:		
1 Height of Stack from ground level	: 50.0 m	
2 Diameter of Stack at bottom	: ----	
3 Diameter of Stack at sampling point	: 1.4 m	
4 Height of the sampling point from ground level	: 31.0 m	
5 Area of Stack	: 1.54m^2	
C : Analysis/Characteristic of Stack :		
1. Fuel used : BF Gas & Furnace Oil	2. Fuel consumption : BF Gas- 24000 Nm^3/hr	
D : Results of Sampling & Analysis of gaseous Emission :	**Result**	**Method**
1 Temperature of emission (^oC)	: 135	EPA Part 2
2 Barometric pressure (mm of Hg)	: 752	EPA Part 2
3 Velocity of gas (m/sec)	: 11.16	EPA Part 2
4 Quantity of gas flow (Nm^3/hr)	: 44700	EPA Part 2
5 Concentration of Carbon monoxide (%)	: <0.2	IS:13270-1992, Reaf : 2014
6 Concentration of Carbon dioxide (%)	: 8.4	IS:13270-1992, Reaf : 2014
7 Concentration of Sulphur dioxide (mg/Nm^3)	: 48.85	EPA Part-6
8 Concentration of Nitrogen dioxide (mg/Nm^3)	: 55.3	EPA Part-7
9 Concentration of Particulate Matters (mg/Nm^3)	: 22 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-B/00

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/A/20-21/C/216
Vill + P.O. : Gopalpur	Date	: 15.10.2020
P.S. : Kanksa,Durgapur	Sample No.	: QLS/A/20-21/216
Paschim Bardhaman	Sample Description	: Stack Flue Gas
West Bengal – 713 212	Sample Mark	: MBF Plant (Blast Furnace)
	Ref No. Date	: W119Y-00152, Dated: 03.03.2020

Analysis Result

Date & Time of Sampling : 27.09.2020 at 12.30 P.M. Sampling done by : S.Ghosh		Sampling Procedures : EPA/IS
A : General Information of Stack:		
1 Stack connected to	: MBF Plant (Blast Furnace)	
2 Emission due to	: Combustion BF Gas & Coke	
3 Material of construction of Stack	: MS	
4 Shape of Stack	: Circular	
5 Whether stack is provided with permanent platform	: Yes	
6 Generation Capacity	: ----	
B : Physical Characteristic of Stack:		
1 Height of Stack from ground level	: 50.0 m	
2 Diameter of Stack at bottom	: ----	
3 Diameter of Stack at sampling point	: 2.29 m	
4 Height of the sampling point from ground level	: 26.82 m	
5 Area of Stack	: 4.1204 m^2	
C : Analysis/Characteristic of Stack :		
1 Fuel used : BF Gas & Coke	2. Fuel consumption : 36000 Nm^3/hr.	
D : Results of Sampling & Analysis of gaseous Emission :	**Result**	**Method**
1 Temperature of emission (^oC)	: 158	EPA Part 2
2 Barometric pressure (mm of Hg)	: 752	EPA Part 2
3 Velocity of gas (m/sec)	: 8.15	EPA Part 2
4 Quantity of gas flow (Nm^3/hr)	: 82765	EPA Part 2
5 Concentration of Carbon monoxide (%)	: <0.2	IS:13270-1992, Reaf : 2014
6 Concentration of Carbon dioxide (%)	: 8.4	IS:13270-1992, Reaf : 2014
7 Concentration of Sulphur dioxide (mg/Nm^3)	: 52.8	EPA Part-6
8 Concentration of Nitrogen dioxide (mg/Nm^3)	: 44.0	EPA Part-7
9 Concentration of Particulate Matters (mg/Nm^3)	: 19	EPA Part 5
E : Pollution :		
Details of pollution control devices attached with the stack	: Cyclone Separator, Saturator & Ventury crubber	
F : Remarks : Nil		

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TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/A/20-21/C/220A
Vill + P.O. : Gopalpur	Date	: 15.10.2020
P.S. : Kanksa,Durgapur	Sample No.	: QLS/A/20-21/220A
Paschim Bardhaman	Sample Description	: Stack Flue Gas
West Bengal – 713 212	Sample Mark	: Pulverised Coal Injection Plants
	Ref No. Date	: W119Y-00152, Dated: 03.03.2020

Analysis Result

Date & Time of Sampling : 01.10.2020 at 2.45 P.M. Sampling done by : S.Ghosh	Sampling Procedures : EPA/IS	
A : General Information of Stack:		
1 Stack connected to	: Vertical Roller Mill through Bag Filter	
2 Emission due to	: De-Moisturing of pulverized Coal using BF Gas	
3 Material of construction of Stack	: MS	
4 Shape of Stack	: Circular	
5 Whether stack is provided with permanent platform	: Yes	
6 Generation Capacity	: ----	
B : Physical Characteristic of Stack:		
1 Height of Stack from ground level	: 42.6 m	
2 Diameter of Stack at bottom	: ----	
3 Diameter of Stack at sampling point	: 0.820 m	
4 Height of the sampling point from ground level	: 25.6 m	
5 Area of Stack	: 0.5283 m^2	
C : Analysis/Characteristic of Stack :		
1 Fuel used : BF Gas	2. Fuel consumption : 750 Nm^3/hr	
D : Results of Sampling & Analysis of gaseous Emission :	**Result**	**Method**
1 Temperature of emission (°C)	: 69	EPA Part 2
2 Barometric pressure (mm of Hg)	: 754	EPA Part 2
3 Velocity of gas (m/sec)	: 14.89	EPA Part 2
4 Quantity of gas flow (Nm^3/hr)	: 24498	EPA Part 2
5 Concentration of Carbon monoxide (%)	: Bellow 0.2	IS:13270-1992, Reaf : 2014
6 Concentration of Carbon dioxide (%)	: 0.8	IS:13270-1992, Reaf : 2014
7 Concentration of Sulphur dioxide (mg/Nm^3)	: <3.4	EPA Part-6
8 Concentration of Nitrogen dioxide (mg/Nm^3)	: 42.5	EPA Part-7
9 Concentration of Particulate Matters (mg/Nm^3)	: 37	EPA Part 5
E : Pollution :		
Details of pollution control devices attached with the stack	: Bag Filter	
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.	Report No.	: QLS/A/20-21/C/313
Vill + P.O. : Gopalpur	Date	: 01.12.2020
P.S. : Kanksa,Durgapur	Sample No.	: QLS/A/20-21/313
Paschim Bardhaman	Sample Description	: Stack Flue Gas
West Bengal – 713 212	Sample Mark	: Sinter Plant (Head ESP)
	Ref No. Date	: W119Y-00152, Dated: 03.03.2020

Analysis Result

Date & Time of Sampling : 14.11.2020 at 10.20 A.M. Sampling done by : S.Ghosh		Sampling Procedures : EPA/IS
A : General Information of Stack:		
1 Stack connected to	: Sinter Plant (Head ESP)	
2 Emission due to	: Combustion BF Gas	
3 Material of construction of Stack	: MS	
4 Shape of Stack	: Circular	
5 Whether stack is provided with permanent platform	: Yes	
6 Generation Capacity	: ---	
B : Physical Characteristic of Stack:		
1 Height of Stack from ground level	: 50.0 m	
2 Diameter of Stack at bottom	: ---	
3 Diameter of Stack at sampling point	: 2.2 m	
4 Height of the sampling point from ground level	: 37.25 m	
5 Area of Stack	: 3.8024 m^2	
C : Analysis/Characteristic of Stack :		
1 Fuel used : BF Gas	2. Fuel consumption : 3500 Nm^3/hr	
D : Results of Sampling & Analysis of gaseous Emission :	**Result**	**Method**
1 Temperature of emission (^0C)	: 137	EPA Part 2
2 Barometric pressure (mm of Hg)	: 755	EPA Part 2
3 Velocity of gas (m/sec)	: 10.18	EPA Part 2
4 Quantity of gas flow (Nm^3/hr)	: 100572	EPA Part 2
5 Concentration of Carbon monoxide (%)	: <0.2	IS:13270-1992, Reaf : 2017
6 Concentration of Carbon dioxide (%)	: 5.8	IS:13270-1992, Reaf : 2017
7 Concentration of Sulphur dioxide (mg/Nm^3)	: 37.5	EPA Part-6
8 Concentration of Nitrogen dioxide (mg/Nm^3)	: 52.8	EPA Part-7
9 Concentration of Particulate Matters (mg/Nm^3)	: 79	EPA Part 5
E : Pollution :		
Details of pollution control devices attached with the stack	: ESP	
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.	Report No.	: QLS/A/20-21/C/312
Vill + P.O. : Gopalpur	Date	: 01.12.2020
P.S. : Kanksa,Durgapur	Sample No.	: QLS/A/20-21/312
Paschim Bardhaman	Sample Description	: Stack Flue Gas
West Bengal – 713 212	Sample Mark	: Sinter Plant (Tail ESP)
	Ref No. Date	: W119Y-00152, Dated: 03.03.2020

Analysis Result

Date & Time of Sampling : 14.11.2020 at 09.30 A.M. Sampling done by : S.Ghosh		Sampling Procedures : EPA/IS
A : General Information of Stack:		
1 Stack connected to	: Sinter Plant (Tail ESP)	
2 Emission due to	: Process Activity	
3 Material of construction of Stack	: MS	
4 Shape of Stack	: Circular	
5 Whether stack is provided with permanent platform	: Yes	
6 Generation Capacity	: ---	
B : Physical Characteristic of Stack:		
1 Height of Stack from ground level	: 40.0 m	
2 Diameter of Stack at bottom	: ---	
3 Diameter of Stack at sampling point	: 2.0 m	
4 Height of the sampling point from ground level	: 35.0 m	
5 Area of Stack	: 3.1429 m^2	
C : Analysis/Characteristic of Stack :		
1 Fuel used : ---	2. Fuel consumption : ---	
D : Results of Sampling & Analysis of gaseous Emission :	**Result**	**Method**
1 Temperature of emission (^{0}C)	: 74	EPA Part 2
2 Barometric pressure (mm of Hg)	: 755	EPA Part 2
3 Velocity of gas (m/sec)	: 10.92	EPA Part 2
4 Quantity of gas flow (Nm^3/hr)	: 105358	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)	: 39.5	EPA Part-7
9 Concentration of Particulate Matters (mg/Nm^3)	: 46	EPA Part 5
E : Pollution :		
Details of pollution control devices attached with the stack	: ESP	
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.	Report No.	: QLS/A/20-21/C/309
Vill + P.O. : Gopalpur	Date	: 01.12.2020
P.S. : Kanksa,Durgapur	Sample No.	: QLS/A/20-21/309
Paschim Bardhaman	Sample Description	: Stack Flue Gas
West Bengal – 713 212	Sample Mark	: MBF Plant (Blast Furnace)
	Ref No. Date	: W119Y-00152, Dated: 03.03.2020

Analysis Result

Date & Time of Sampling : 12.11.2020 at 03.10 P.M. Sampling done by : S.Ghosh		Sampling Procedures : EPA/IS
A : General Information of Stack:		
1 Stack connected to	: MBF Plant (Blast Furnace)	
2 Emission due to	: Combustion BF Gas & Coke	
3 Material of construction of Stack	: MS	
4 Shape of Stack	: Circular	
5 Whether stack is provided with permanent platform	: Yes	
6 Generation Capacity	: ----	
B : Physical Characteristic of Stack:		
1 Height of Stack from ground level	: 50.0 m	
2 Diameter of Stack at bottom	: ----	
3 Diameter of Stack at sampling point	: 2.29 m	
4 Height of the sampling point from ground level	: 26.82 m	
5 Area of Stack	: 4.1204 m^2	
C : Analysis/Characteristic of Stack :		
1 Fuel used : BF Gas & Coke	2. Fuel consumption : 36000 Nm^3/hr.	
D : Results of Sampling & Analysis of gaseous Emission :	**Result**	**Method**
1 Temperature of emission (^{0}C)	: 130	EPA Part 2
2 Barometric pressure (mm of Hg)	: 756	EPA Part 2
3 Velocity of gas (m/sec)	: 7.93	EPA Part 2
4 Quantity of gas flow (Nm^3/hr)	: 86425	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)	: 43.7	EPA Part-6
8 Concentration of Nitrogen dioxide (mg/Nm^3)	: 41.5	EPA Part-7
9 Concentration of Particulate Matters (mg/Nm^3)	: 22	EPA Part 5
E : Pollution :		
Details of pollution control devices attached with the stack	: Cyclone Separator, Saturator & Ventury scrubber	
F : Remarks : Nil		

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

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/A/20-21/C/310
Vill + P.O. : Gopalpur	Date	: 01.12.2020
P.S. : Kanksa, Durgapur	Sample No.	: QLS/A/20-21/310
Paschim Bardhaman	Sample Description	: Stack Flue Gas
West Bengal – 713 212	Sample Mark	: Boiler
	Ref No. Date	: W119Y-00152, Dated: 03.03.2020

Analysis Result

Date & Time of Sampling : 13.11.2020 at 02.00 P.M. Sampling done by : S.Ghosh		Sampling Procedures : EPA/IS
A : General Information of Stack:		
1 Stack connected to	: Boiler	
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 (^oC)	: 135	EPA Part 2
2 Barometric pressure (mm of Hg)	: 755	EPA Part 2
3 Velocity of gas (m/sec)	: 10.28	EPA Part 2
4 Quantity of gas flow (Nm^3/hr)	: 41341	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)	: 52.0	EPA Part-6
8 Concentration of Nitrogen dioxide (mg/Nm^3)	: 63.3	EPA Part-7
9 Concentration of Particulate Matters (mg/Nm^3)	: 19 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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Email : qualissure@gmail.com, info@qualissure.com ; Mob.No. 98312 87086 ; 9830093976 TC-6271

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

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/A/20-21/C/311
Vill + P.O. : Gopalpur	Date	: 01.12.2020
P.S. : Kanksa,Durgapur	Sample No.	: QLS/A/20-21/311
Paschim Bardhaman	Sample Description	: Stack Flue Gas
West Bengal – 713 212	Sample Mark	: PCI Plant
	Ref No. Date	: W119Y-00152, Dated: 03.03.2020

Analysis Result

Date & Time of Sampling : 13.11.2020 at 3.00 P.M. Sampling done by : S.Ghosh		Sampling Procedures : EPA/IS
A : General Information of Stack:		
1 Stack connected to	: Vertical Roller Mill through Bag Filter	
2 Emission due to	: De-Moisturing of pulverized Coal using BF Gas	
3 Material of construction of Stack	: MS	
4 Shape of Stack	: Circular	
5 Whether stack is provided with permanent platform	: Yes	
6 Generation Capacity	: ---	
B : Physical Characteristic of Stack:		
1 Height of Stack from ground level	: 42.6 m	
2 Diameter of Stack at bottom	: ---	
3 Diameter of Stack at sampling point	: 0.820 m	
4 Height of the sampling point from ground level	: 25.6 m	
5 Area of Stack	: 0.5283 m^2	
C : Analysis/Characteristic of Stack :		
1 Fuel used : BF Gas	2. Fuel consumption : 750 Nm^3/hr	
D : Results of Sampling & Analysis of gaseous Emission :	**Result**	**Method**
1 Temperature of emission (^0C)	: 63	EPA Part 2
2 Barometric pressure (mm of Hg)	: 755	EPA Part 2
3 Velocity of gas (m/sec)	: 10.04	EPA Part 2
4 Quantity of gas flow (Nm^3/hr)	: 16856	EPA Part 2
5 Concentration of Carbon monoxide (%)	: Bellow 0.2	IS:13270-1992, Reaf : 2017
6 Concentration of Carbon dioxide (%)	: 0.6	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)	: 36.6	EPA Part-7
9 Concentration of Particulate Matters (mg/Nm^3)	: 31	EPA Part 5
E : Pollution :		
Details of pollution control devices attached with the stack	: Bag Filter	
F : Remarks : Nil		

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(Authorized Signatory)

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-A/00

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Sample Description Sample Mark Ref No. Date	: QLS/A/20-21/C/307 : 01.12.2020 : QLS/A/20-21/307 : Stack Flue Gas : DG Set(1250 kVA) : W119Y-00152, Dated: 03.03.2020

Analysis Result

Date & Time of Sampling : 12.11.2020 at 12.00 P.M Sampling done by : S.Ghosh		Sampling Procedures : EPA/IS	
A : General Information of Stack:			
1 Stack connected to	: DG Set-1250 kVA		
2 Emission due to	: Combustion 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 : 30 lit/hr		
D : Results of Sampling & Analysis of gaseous Emission :	**Result**	**Method**	**LIMIT**
1 Temperature of emission (^{0}C)	: 261	EPA Part 2	----
2 Barometric pressure (mm of Hg)	: 756	EPA Part 2	----
3 Velocity of gas (m/sec)	: 12.56	EPA Part 2	----
4 Quantity of gas flow (Nm^3/hr)	: 1232	EPA Part 2	----
5 Concentration of Carbon monoxide(mg/Nm^3)	: 98.0 at 15% O_2	IS:13270-1992, Reaf : 2017	150
6 Concentration of Carbon dioxide(%v/v)	: 4.8	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)	: 17.3 at 15% O_2	EPA Part-7	100
9 Concentration of Particulate Matters (mg/Nm^3)	: 20 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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TC-6273

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

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/A/20-21/C/308
Vill + P.O. : Gopalpur	Date	: 01.12.2020
P.S. : Kanksa,Durgapur	Sample No.	: QLS/A/20-21/308
Paschim Bardhaman	Sample Description	: Stack Flue Gas
West Bengal – 713 212	Sample Mark	: DG Set(1500 kVA)
	Ref No. Date	: W119Y-00152, Dated: 03.03.2020

Analysis Result

Date & Time of Sampling : 12.11.2020 at 12.45 P.M Sampling done by : S.Ghosh	Sampling Procedures : EPA/IS		
A : General Information of Stack:			
1 Stack connected to	: DG Set-1500 kVA		
2 Emission due to	: Combustion 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 : 270 lit/hr		
D : Results of Sampling & Analysis of gaseous Emission :	**Result**	**Method**	**LIMIT**
1 Temperature of emission (°C)	: 260	EPA Part 2	----
2 Barometric pressure (mm of Hg)	: 756	EPA Part 2	----
3 Velocity of gas (m/sec)	: 14.76	EPA Part 2	----
4 Quantity of gas flow (Nm^3/hr)	: 1424	EPA Part 2	----
5 Concentration of Carbon monoxide(mg/Nm^3)	: 103.7 at 15% O_2	IS:13270-1992, Reaf : 2017	150
6 Concentration of Carbon dioxide(%v/v)	: 4.8	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)	: 20.9 at 15% O_2	EPA Part-7	100
9 Concentration of Particulate Matters (mg/Nm^3)	: 25.0 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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TC-6271

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

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	ULR No. Report No. Date Sample No. Sample Description Sample Mark Ref No. Date	: TC627121000000216F : QLS/A/20-21/C/424 : 08.02.2021 : QLS/A/20-21/424 : Stack Flue Gas : Sinter Plant (Head ESP) : W120604-001, Dated: 04.06.2020

Analysis Result

Date & Time of Sampling : 22.01.2021 at 11:00 A.M. Sampling done by : S. Ghosh		Sampling Procedures : EPA/IS
A : General Information of Stack:		
1 Stack connected to	: Sinter Plant (Head ESP)	
2 Emission due to	: Combustion BF Gas	
3 Material of construction of Stack	: MS	
4 Shape of Stack	: Circular	
5 Whether stack is provided with permanent platform	: Yes	
6 Generation Capacity	: ----	
B : Physical Characteristic of Stack:		
1 Height of Stack from ground level	: 50.0 m	
2 Diameter of Stack at bottom	: ----	
3 Diameter of Stack at sampling point	: 2.2 m	
4 Height of the sampling point from ground level	: 37.25 m	
5 Area of Stack	: 3.8029 m^2	
C : Analysis/Characteristic of Stack :		
1 Fuel used : BF Gas	2. Fuel consumption : 3500 Nm^3/hr	
D : Results of Sampling & Analysis of gaseous Emission :	**Result**	**Method**
1 Temperature of emission (°C)	: 131	EPA Part 2
2 Barometric pressure (mm of Hg)	: 750	EPA Part 2
3 Velocity of gas (m/sec)	: 10.60	EPA Part 2
4 Quantity of gas flow (Nm^3/hr)	: 105582	EPA Part 2
5 Concentration of Carbon monoxide (%)	: <0.2	IS:13270-1992, Reaf : 2017
6 Concentration of Carbon dioxide (%)	: 6.6	IS:13270-1992, Reaf : 2017
7 Concentration of Sulphur dioxide (mg/Nm^3)	: 40.4	EPA Part-6
8 Concentration of Nitrogen dioxide (mg/Nm^3)	: 52.3	EPA Part-7
9 Concentration of Particulate Matters (mg/Nm^3)	: 81	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 :		
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Analysis Result

Date & Time of Sampling : 22.01.2021 at 11:45 A.M. Sampling done by : S. Ghosh		Sampling Procedures : EPA/IS
A : General Information of Stack:		
1 Stack connected to	: Sinter Plant (Tail ESP)	
2 Emission due to	: Process Activity	
3 Material of construction of Stack	: MS	
4 Shape of Stack	: Circular	
5 Whether stack is provided with permanent platform	: Yes	
6 Generation Capacity	: ----	
B : Physical Characteristic of Stack;		
1 Height of Stack from ground level	: 40.0 m	
2 Diameter of Stack at bottom	: ----	
3 Diameter of Stack at sampling point	: 2.0 m	
4 Height of the sampling point from ground level	: 35.0 m	
5 Area of Stack	: 3.1429 m^2	
C : Analysis/Characteristic of Stack :		
1 Fuel used : ----	2. Fuel consumption : ----	
D : Results of Sampling & Analysis of gaseous Emission :	**Result**	**Method**
1 Temperature of emission (^oC)	: 76	EPA Part 2
2 Barometric pressure (mm of Hg)	: 750	EPA Part 2
3 Velocity of gas (m/sec)	: 9.89	EPA Part 2
4 Quantity of gas flow (Nm^3/hr)	: 94251	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)	: 38.8	EPA Part-7
9 Concentration of Particulate Matters (mg/Nm^3)	: 44	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 :		
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Analysis Result

Date & Time of Sampling : 21.01.2021 at 12:20 P.M. Sampling done by : S. Ghosh		Sampling Procedures : EPA/IS	
A : General Information of Stack:			
1	Stack connected to	: MBF Plant (Blast Furnace)	
2	Emission due to	: Combustion BF Gas & Coke	
3	Material of construction of Stack	: MS	
4	Shape of Stack	: Circular	
5	Whether stack is provided with permanent platform	: Yes	
6	Generation Capacity	: ----	
B : Physical Characteristic of Stack:			
1	Height of Stack from ground level	: 50.0 m	
2	Diameter of Stack at bottom	: ----	
3	Diameter of Stack at sampling point	: 2.29 m	
4	Height of the sampling point from ground level	: 26.82 m	
5	Area of Stack	: 4.1204 m^2	
C : Analysis/Characteristic of Stack :			
1	Fuel used : BF Gas & Coke	2. Fuel consumption : 40000 Nm^3/hr. / Store Coke 600 Kgs./hr.	
D : Results of Sampling & Analysis of gaseous Emission :		**Result**	**Method**
1	Temperature of emission (°C)	: 161	EPA Part 2
2	Barometric pressure (mm of Hg)	: 750	EPA Part 2
3	Velocity of gas (m/sec)	: 10.42	EPA Part 2
4	Quantity of gas flow (Nm^3/hr)	: 104690	EPA Part 2
5	Concentration of Carbon monoxide (%)	: <0.2	IS:13270-1992, Reaf : 2017
6	Concentration of Carbon dioxide (%)	: 8.4	IS:13270-1992, Reaf : 2017
7	Concentration of Sulphur dioxide (mg/Nm^3)	: 43.3	EPA Part-6
8	Concentration of Nitrogen dioxide (mg/Nm^3)	: 40.8	EPA Part-7
9	Concentration of Particulate Matters (mg/Nm^3)	: 24	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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TC-6271

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TEST REPORT

Name & Address Of the Customer :		
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Analysis Result

Date & Time of Sampling : 21.01.2021 at 11:30 A.M. Sampling done by : S. Ghosh		Sampling Procedures : EPA/IS
A : General Information of Stack:		
1 Stack connected to	: CPP	
2 Emission due to	: Combustion FO & BF Gas	
3 Material of construction of Stack	: MS	
4 Shape of Stack	: Circular	
5 Whether stack is provided with permanent platform	: Yes	
6 Generation Capacity	: 4.5 MW	
B : Physical Characteristic of Stack:		
1 Height of Stack from ground level	: 50.0 m	
2 Diameter of Stack at bottom	: ----	
3 Diameter of Stack at sampling point	: 1.4 m	
4 Height of the sampling point from ground level	: 31.0 m	
5 Area of Stack	: 1.54m^2	
C : Analysis/Characteristic of Stack :		
1. Fuel used :BF Gas & Furnace Oil	2. Fuel consumption : BF Gas- 24000 Nm^3/hr	
D : Results of Sampling & Analysis of gaseous Emission :	**Result**	**Method**
1 Temperature of emission (°C)	: 127	EPA Part 2
2 Barometric pressure (mm of Hg)	: 750	EPA Part 2
3 Velocity of gas (m/sec)	: 10.78	EPA Part 2
4 Quantity of gas flow (Nm^3/hr)	: 43925	EPA Part 2
5 Concentration of Carbon monoxide (%)	: <0.2	IS:13270-1992, Reaf : 2017
6 Concentration of Carbon dioxide (%)	: 8.2	IS:13270-1992, Reaf : 2017
7 Concentration of Sulphur dioxide (mg/Nm^3)	: 46.2	EPA Part-6
8 Concentration of Nitrogen dioxide (mg/Nm^3)	: 63.2	EPA Part-7
9 Concentration of Particulate Matters (mg/Nm^3)	: 12 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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DOC NO : QLS/SAMP/08-B/00

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	ULR No. Report No. Date Sample No. Sample Description Sample Mark Ref No. Date	: TC627121000000215F : QLS/A/20-21/C/423 : 08.02.2021 : QLS/A/20-21/423 : Stack Flue Gas : PCI Unit : W120604-001, Dated: 04.06.2020

Analysis Result

Date & Time of Sampling : 21.01.2021 at 02:00 P.M. Sampling done by : S.Ghosh	Sampling Procedures : EPA/IS	
A : General Information of Stack:		
1 Stack connected to	: Vertical Roller Mill through Bag Filter	
2 Emission due to	: De-Moisturing of pulverized Coal using BF Gas	
3 Material of construction of Stack	: MS	
4 Shape of Stack	: Circular	
5 Whether stack is provided with permanent platform	: Yes	
6 Generation Capacity	: ----	
B : Physical Characteristic of Stack:		
1 Height of Stack from ground level	: 42.6 m	
2 Diameter of Stack at bottom	: ----	
3 Diameter of Stack at sampling point	: 0.820 m	
4 Height of the sampling point from ground level	: 25.6 m	
5 Area of Stack	: 0.5283 m^2	
C : Analysis/Characteristic of Stack :		
1 Fuel used : BF Gas	2. Fuel consumption : 750 Nm^3/hr	
D : Results of Sampling & Analysis of gaseous Emission :	**Result**	**Method**
1 Temperature of emission (°C)	: 76	EPA Part 2
2 Barometric pressure (mm of Hg)	: 750	EPA Part 2
3 Velocity of gas (m/sec)	: 15.04	EPA Part 2
4 Quantity of gas flow (Nm^3/hr)	: 24119	EPA Part 2
5 Concentration of Carbon monoxide (%)	: 0.2%	IS:13270-1992, Reaf : 2017
6 Concentration of Carbon dioxide (%)	: 0.8	IS:13270-1992, Reaf : 2017
7 Concentration of Sulphur dioxide (mg/Nm^3)	: <3.4	EPA Part-6
8 Concentration of Nitrogen dioxide (mg/Nm^3)	: 37.2	EPA Part-7
9 Concentration of Particulate Matters (mg/Nm^3)	: 30	EPA Part 5
E : Pollution : Details of pollution control devices attached with the stack	: Bag Filter	
F :Remarks : Nil		

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TC-6271

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

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	ULR No. Report No. Date Sample No. Sample Description Sample Mark Ref No. Date	: TC627121000000211F : QLS/A/20-21/C/419 : 08.02.2021 : QLS/A/20-21/419 : Stack Flue Gas : DG Set(1250 kVA) : W120604-001, Dated: 04.06.2020

Analysis Result

Date & Time of Sampling : 22.01.2021 at 02: 00 P.M. Sampling done by : S. Ghosh		Sampling Procedures : EPA/IS	
A : General Information of Stack:			
1 Stack connected to	: DG Set-1250 kVA		
2 Emission due to	: Combustion 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 (^{0}C)	: 260	EPA Part 2	----
2 Barometric pressure (mm of Hg)	: 750	EPA Part 2	----
3 Velocity of gas (m/sec)	: 12.84	EPA Part 2	----
4 Quantity of gas flow (Nm^3/hr)	: 1252	EPA Part 2	----
5 Concentration of Carbon monoxide(mg/Nm^3)	: 99.0 at 15% O_2	IS:13270-1992, Reaf : 2017	150
6 Concentration of Carbon dioxide(%v/v)	: 4.9	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)	: 18.0 at 15% O_2	EPA Part-7	100
9 Concentration of Particulate Matters (mg/Nm^3)	: 22 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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DOC NO : QLS/SAMP/08-B/00

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	ULR No. Report No. Date Sample No. Sample Description Sample Mark Ref No. Date	: TC627121000000212F : QLS/A/20-21/C/420 : 08.02.2021 : QLS/A/20-21/420 : Stack Flue Gas : DG Set(1500 kVA) : W120604-001, Dated: 04.06.2020

Analysis Result

Date & Time of Sampling : 22.01.2021 at 02:40 P.M. Sampling done by : S. Ghosh		Sampling Procedures : EPA/IS	
A : General Information of Stack:			
1 Stack connected to	: DG Set-1500 kVA		
2 Emission due to	: Combustion HSD		
3 Material of construction of Stack	: MS		
4 Shape of Stack	: Circular		
5 Whether stack is provided with permanent platform	: Yes		
6 Generation Capacity	: 1500 kVA		
B : Physical Characteristic of Stack:			
1 Height of Stack from ground level	: 30.0 m		
2 Diameter of Stack at bottom	: ----		
3 Diameter of Stack at sampling point	: 0.25 m		
4 Height of the sampling point from ground level	: 7.62 m		
5 Area of Stack	: 0.0491m^2		
C : Analysis/Characteristic of Stack :			
1 Fuel used : HSD	2. Fuel consumption : 276 lit/hr		
D : Results of Sampling & Analysis of gaseous Emission :	**Result**	**Method**	**LIMIT**
1 Temperature of emission (^oC)	: 270	EPA Part 2	----
2 Barometric pressure (mm of Hg)	: 750	EPA Part 2	----
3 Velocity of gas (m/sec)	: 14.97	EPA Part 2	----
4 Quantity of gas flow (Nm^3/hr)	: 1433	EPA Part 2	----
5 Concentration of Carbon monoxide(mg/Nm^3)	: 102.7 at 15% O_2	IS:13270-1992, Reaf : 2017	150
6 Concentration of Carbon dioxide(%v/v)	: 5.3	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)	: 21.7 at 15% O_2	EPA Part-7	100
9 Concentration of Particulate Matters (mg/Nm^3)	: 28.0 at 15% O_2	EPA Part 5	75
E : Pollution : Details of pollution control devices attached with the stack : Nil			
F : Remarks : Nil			

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

(Authorized Signatory)

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NABL
TC-8210

Urvashi Malhar, Phase II, MEAV-25, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216
Contact : 0343-2542377, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com

TEST REPORT OF STACK GAS ANALYSIS

[FORMAT NO. : GV/LAB/FM/33A]

Sample is drawn by **M/s. Greenvision**

Report No.	: GV/AR/20-21/0515	Laboratory Ref. No.	: AS-040-2021(1)
Issued to	: M/s. Neo Metaliks Ltd.	Report Date	: 26.03.2021
Address	: Vill. + P.O. : Gopalpur, P.S. : Kanksa, Durgapur, Paschim Bardhaman, 713212.	Date of Sampling	: 20.03.2021
Sample Description	: Stack Air	Analysis Started On	: 22.03.2021
Location	: Sinter Plant	Analysis Completed On	: 22.03.2021
Sample Condition	: In GMF Thimble	Time of Sampling	: 02:05 pm
Sampling Method	: CPCB, Emission Regulation (Part III)		
Test Method	: CPCB, Emission Regulation (Part III), IS:11255 (Part 1), 1985, Reaffirmed 2014, IS:11255 (Part 3), 2008, IS:11255 (Part 2), 1985, Reaffirmed 2014, IS:13270:1992, Reaffirmed 2014		

A. GENERAL INFORMATION ABOUT STACK

01. Particulars of plant		: Pig Iron Mfg. Unit		
02. Stack connected to		: Sinter Plant (Head ESP)		
03. Material of construction		: M.S.		
04. Shape of stack		: Circular		
05. Height of stack from G.L (mtr)		: 50.0	from roof level (mtr)	: ---
06. Height of sampling from G.L (mtr)		: 37.25	from L.D.Z (mtr)	: ---
07. Internal stack diameter at sampling point (mtr)		: 2.2		
08. Emission due to		: Combustion of BF Gas		
09. Steam generation capacity:	(rated)	: ---	(running)	: ---
10. Load of source:	(rated)	: 25000 MT/Month	(running)	: 25000 MT/Month

B. FUEL CHARACTERISTIC REPORT

01. Type of fuel used	: BF Gas	
02. Calorific value (K-Cal/Kg): ---	03.Ash content (% by Wt): ---	04.Sulphur content (% by Wt): ---
05. Rated fuel consumption	: ---	
06. Working fuel consumption	: 3000 Nm^3/Hr.	

C. RESULTS OF GASEUS EMISSION SAMPLING

01. Flue gas temperature (^{0}C)	: 122
02. Barometric pressure (mm of Hg)	: 754.0
03. Velocity of flue gas (m/sec)	: 8.73
04. Quantity of gas flow (Nm^3/hr.)	: 89429.71
05. Concentration of Particulate Matter (mg/ Nm^3)	: 41.3
06. Particulate Matter normalized at 12% CO_2	: ---
07. Concentration of SO_2 (mg/ Nm^3)	: ---
08. Concentration of NO_2 (mg/ Nm^3)	: ---
09. Concentration of CO_2 (% V/V)	: 6.6
10. Concentration of CO (% V/V)	: < 1.0
Pollution Control Device	: ESP
Permanent Ladder and Platform	: Yes

Checked by
Junior Scientist

Authorised Signatory
Authorised Signatory
For GREENVISION

Note: 1. This report refers to the values obtained at the time of testing and results related to the items tested.
2. All the information under column A & B are supplied by the respective industry.
3. This certificate may not be reproduced in part or full without written permission of the management.
4. Retention period of tested sample (Thimble) is 6 months from the date of issue test report unless otherwise specified.

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Contact : 0343-2542377, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com

NABL TC-8210

TEST REPORT OF STACK GAS ANALYSIS

[FORMAT NO. : GV/LAB/FM/33A]

Sample is drawn by **M/s. Greenvision**

Report No.	: GV/AR/20-21/0516	Laboratory Ref. No.	: AS-040-2021(2)
Issued to	: M/s. Neo Metaliks Ltd.	Report Date	: 26.03.2021
Address	: Vill. + P.O. : Gopalpur, P.S. : Kanksa, Durgapur, Paschim Bardhaman, 713212.	Date of Sampling	: 20.03.2021
Sample Description	: Stack Air	Analysis Started On	: 22.03.2021
Location	: Sinter Plant	Analysis Completed On	: 22.03.2021
Sample Condition	: In GMF Thimble	Time of Sampling	: 03:50 pm
Sampling Method	: CPCB, Emission Regulation (Part III)		
Test Method	: CPCB, Emission Regulation (Part III), IS:11255 (Part 1), 1985, Reaffirmed 2014, IS:11255 (Part 3), 2008, IS:11255 (Part 2), 1985, Reaffirmed 2014, IS:13270:1992, Reaffirmed 2014		

A. GENERAL INFORMATION ABOUT STACK

01. Particulars of plant		: Pig Iron Mfg. Unit		
02. Stack connected to		: Sinter Plant (Tail ESP)		
03. Material of construction		: M.S.		
04. Shape of stack		: Circular		
05. Height of stack from G.L (mtr)		: 40.0	from roof level (mtr)	: ---
06. Height of sampling from G.L (mtr)		: 35.0	from L.D.Z (mtr)	: ---
07. Internal stack diameter at sampling point (mtr)		: 2.0		
08. Emission due to		: Process Activities		
09. Steam generation capacity:	(rated)	: ---	(running)	: ---
10. Load of source:	(rated)	: ---	(running)	: ---

B. FUEL CHARACTERISTIC REPORT

01. Type of fuel used	: ---	
02. Calorific value (K-Cal/Kg): ---	03.Ash content (% by Wt): ---	04.Sulphur content (% by Wt): ---
05. Rated fuel consumption	: ---	
06. Working fuel consumption	: ---	

C. RESULTS OF GASEUS EMISSION SAMPLING

01. Flue gas temperature (^{0}C)	: 101
02. Barometric pressure (mm of Hg)	: 754.0
03. Velocity of flue gas (m/sec)	: 8.99
04. Quantity of gas flow (Nm^3/hr.)	: 80393.8
05. Concentration of Particulate Matter (mg/ Nm^3)	: 32.12
06. Particulate Matter normalized at 12% CO_2	: ---
07. Concentration of SO_2 (mg/ Nm^3)	: ---
08. Concentration of NO_2 (mg/ Nm^3)	: ---
09. Concentration of CO_2 (% V/V)	: ---
10. Concentration of CO (% V/V)	: < 1.0
Pollution Control Device	**: ESP**
Permanent Ladder and Platform	**: Yes**

Checked by Senior Scientist

Authorised Signatory

Authorised Signatory
FOR GREENVISION

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Qualissure Laboratory Services

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TC-6271

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

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Sample Description Sample Mark Ref No. Date	: QLS/A/20-21/C/214 : 15.10.2020 : QLS/A/20-21/214 : Work Zone Monitoring : Near Tail ESP : W119Y-00152, Dated: 03.03.2020

Analysis Result

Location : Near Tail ESP		Date of sampling : 28.09.2020	
Sampling Done by : S.Ghosh/J.Sahana		Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Clear & Sunny			
Sl. No.	**Pollutants**	**Result**	**Method of Test Reference**
1	Total Suspended Particulate Matter in $\mu g/m^3$	612	IS 5182 : Part.4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in $\mu g/m^3$	421	IS 5182: Part 23 : 2017
3	Sulphur dioxide (SO_2) in $\mu g/m^3$	7.8	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO_2) in $\mu g/m^3$	32.2	IS: 5182 (Part- 6)-2006, RA-2017
NOTE: ----			

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

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Sample Description Sample Mark Ref No. Date	: QLS/A/20-21/C/212 : 15.10.2020 : QLS/A/20-21/212 : Work Zone Monitoring : Near Head ESP : W119Y-00152, Dated: 03.03.2020

Analysis Result

Location : Near Head ESP		Date of sampling : 29.09.2020	
Sampling Done by: S.Ghosh/J.Sahana		Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Cloudy			
Sl. No.	**Pollutants**	**Result**	**Method of Test Reference**
1	Total Suspended Particulate Matter in $\mu g/m^3$	874	IS 5182 : Part.4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in $\mu g/m^3$	483	IS 5182: Part 23 : 2017
3	Sulphur dioxide (SO_2) in µg/m3	7.5	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO_2) in µg/m3	32.8	IS: 5182 (Part- 6)-2006, RA-2017
NOTE: ----			

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TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Sample Description Sample Mark Ref No. Date	: QLS/A/20-21/C/213 : 15.10.2020 : QLS/A/20-21/213 : Work Zone Monitoring : Ground Hopper : W119Y-00152, Dated: 03.03.2020

Analysis Result

Location : Ground Hopper			Date of sampling : 29.09.2020
Sampling Done by: S.Ghosh/J.Sahana			Sampling done as per : CPCB Guidelines (Volume-1)
Environmental Condition : Cloudy			
Sl. No.	**Pollutants**	**Result**	**Method of Test Reference**
1	Total Suspended Particulate Matter in $\mu g/m^3$	324	IS 5182 : Part.4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in $\mu g/m^3$	156	IS 5182: Part 23 : 2012
3	Sulphur dioxide (SO_2) in $\mu g/m^3$	7.8	IS: 5182 (Part-2)-2001,(RA-2012)
4	Nitrogen dioxide (NO_2) in $\mu g/m^3$	32.2	IS: 5182 (Part- 6)-2012
NOTE: ----			

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Analysis Result

Location : Hot Metal Bay		Date of sampling : 29.09.2020	
Sampling Done by: S.Ghosh/J.Sahana		Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Cloudy			
Sl. No.	**Pollutants**	**Result**	**Method of Test Reference**
1	Total Suspended Particulate Matter in $\mu g/m^3$	347	IS 5182 : Part.4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in $\mu g/m^3$	155	IS 5182: Part 23 : 2012
3	Sulphur dioxide (SO_2) in $\mu g/m^3$	8.1	IS: 5182 (Part-2)-2001,(RA-2012)
4	Nitrogen dioxide (NO_2) in $\mu g/m^3$	34.5	IS: 5182 (Part- 6)-2012
NOTE: ----			

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TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Sample Description Sample Mark Ref No. Date	: QLS/A/20-21/C/321 : 01.12.2020 : QLS/A/20-21/321 : Work Zone Monitoring : Near Head ESP : W119Y-00152, Dated: 03.03.2020

Analysis Result

Location : Near Head ESP		Date of sampling : 13.11.2020	
Sampling Done by: S.Ghosh		Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Clear & Sunny			
Sl. No.	**Pollutants**	**Result**	**Method of Test Reference**
1	Total Suspended Particulate Matter in $\mu g/m^3$	413	IS 5182 : Part.4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in $\mu g/m^3$	322	IS 5182: Part 23 : 2012
3	Sulphur dioxide (SO_2) in $\mu g/m^3$	10.6	IS: 5182 (Part-2)-2001,(RA-2012)
4	Nitrogen dioxide (NO_2) in $\mu g/m^3$	33.5	IS: 5182 (Part- 6)-2012
NOTE: ----			

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TC-6233

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

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Sample Description Sample Mark Ref No. Date	: QLS/A/20-21/C/322 : 01.12.2020 : QLS/A/20-21/322 : Work Zone Monitoring : Near Tail ESP : W119Y-00152, Dated: 03.03.2020

Analysis Result

Location : Near Tail ESP		Date of sampling : 13.11.2020	
Sampling Done by: S.Ghosh		Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Clear & Sunny			
Sl. No.	**Pollutants**	**Result**	**Method of Test Reference**
1	Total Suspended Particulate Matter in $\mu g/m^3$	580	IS 5182 : Part.4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in $\mu g/m^3$	347	IS 5182: Part 23 : 2012
3	Sulphur dioxide (SO_2) in $\mu g/m^3$	10.7	IS: 5182 (Part-2)-2001,(RA-2012)
4	Nitrogen dioxide (NO_2) in $\mu g/m^3$	34.2	IS: 5182 (Part- 6)-2012
NOTE: ---			

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TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Sample Description Sample Mark Ref No. Date	: QLS/A/20-21/C/323 : 01.12.2020 : QLS/A/20-21/323 : Work Zone Monitoring : Hot Metal Bay : W119Y-00152, Dated: 03.03.2020

Analysis Result

Location : Hot Metal Bay		Date of sampling : 13.11.2020	
Sampling Done by: S.Ghosh		Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Clear & Sunny			
Sl. No.	**Pollutants**	**Result**	**Method of Test Reference**
1	Total Suspended Particulate Matter in $\mu g/m^3$	296	IS 5182 : Part.4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in $\mu g/m^3$	264	IS 5182: Part 23 : 2012
3	Sulphur dioxide (SO_2) in $\mu g/m^3$	12.7	IS: 5182 (Part-2)-2001,(RA-2012)
4	Nitrogen dioxide (NO_2) in $\mu g/m^3$	32.8	IS: 5182 (Part- 6)-2012
NOTE: ----			

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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. Report No. Date Sample No. Sample Description Sample Mark Ref No. Date	: TC627121000000218F : QLS/A/20-21/C/426 : 08.02.2021 : QLS/A/20-21/426 : Work Zone Monitoring : Ground Hopper : W120604-001, Dated: 04.06.2020

Analysis Result

Location : Ground Hopper		Date of sampling : 21.01.2021	
Sampling Done by: S. Ghosh/J. Sahana		Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Sunny & Clear			
Sl. No.	**Pollutants**	**Result**	**Method of Test Reference**
1	Total Suspended Particulate Matter in $\mu g/m^3$	480	IS 5182 : Part.4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in $\mu g/m^3$	394	IS 5182: Part 23 : 2012
3	Sulphur dioxide (SO_2) in $\mu g/m^3$	8.8	IS: 5182 (Part-2)-2001,(RA-2012)
4	Nitrogen dioxide (NO_2) in $\mu g/m^3$	35.0	IS: 5182 (Part- 6)-2012
NOTE: ----			

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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. Report No. Date Sample No. Sample Description Sample Mark Ref No. Date	: TC627121000000219F : QLS/A/20-21/C/427 : 08.02.2021 : QLS/A/20-21/427 : Work Zone Monitoring : Near Head ESP : W120604-001, Dated: 04.06.2020

Analysis Result

Location : Near Head ESP	Date of sampling : 21.01.2021
Sampling Done by: S. Ghosh/J. Sahana	Sampling done as per : CPCB Guidelines (Volume-1)

Environmental Condition : Sunny & Clear

Sl. No.	Pollutants	Result	Method of Test Reference
1	Total Suspended Particulate Matter in $\mu g/m^3$	420	IS 5182 : Part.4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in $\mu g/m^3$	328	IS 5182: Part 23 : 2012
3	Sulphur dioxide (SO_2) in $\mu g/m^3$	8.4	IS: 5182 (Part-2)-2001,(RA-2012)
4	Nitrogen dioxide (NO_2) in $\mu g/m^3$	33.1	IS: 5182 (Part- 6)-2012

NOTE: ----

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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. : TC627121000000220F Report No. : QLS/A/20-21/C/428 Date : 08.02.2021 Sample No. : QLS/A/20-21/428 Sample Description : Work Zone Monitoring Sample Mark : Near Tail ESP Ref No. Date : W120604-001, Dated: 04.06.2020

Analysis Result

Location : Near Tail ESP	Date of sampling : 21.01.2021
Sampling Done by: S. Ghosh/J. Sahana	Sampling done as per : CPCB Guidelines (Volume-1)
Environmental Condition : Sunny & Clear	

Sl. No.	Pollutants	Result	Method of Test Reference
1	Total Suspended Particulate Matter in $\mu g/m^3$	590	IS 5182 : Part.4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in $\mu g/m^3$	372	IS 5182: Part 23 : 2012
3	Sulphur dioxide (SO_2) in $\mu g/m^3$	10.3	IS: 5182 (Part-2)-2001,(RA-2012)
4	Nitrogen dioxide (NO_2) in $\mu g/m^3$	34.8	IS: 5182 (Part- 6)-2012

NOTE: ----

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

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. Report No. Date Sample No. Sample Description Sample Mark Ref No. Date	: TC627121000000221F : QLS/A/20-21/C/429 : 08.02.2021 : QLS/A/20-21/429 : Work Zone Monitoring : Hot Metal Bay : W120604-001, Dated: 04.06.2020

Analysis Result

Location : Hot Metal Bay		Date of sampling : 21.01.2021	
Sampling Done by: S.Ghosh		Sampling done as per : CPCB Guidelines (Volume-1)	
Environmental Condition : Clear & Sunny			
Sl. No.	**Pollutants**	**Result**	**Method of Test Reference**
1	Total Suspended Particulate Matter in $\mu g/m^3$	302	IS 5182 : Part.4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in $\mu g/m^3$	272	IS 5182: Part 23 : 2012
3	Sulphur dioxide (SO_2) in $\mu g/m^3$	11.5	IS: 5182 (Part-2)-2001,(RA-2012)
4	Nitrogen dioxide (NO_2) in $\mu g/m^3$	33.7	IS: 5182 (Part- 6)-2012
NOTE: ---			

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 Repor***

ANNEX - II

KIA: MR D. GHOSH, MD, KOL.

ASANSOL DURGAPUR DEVELOPMENT AUTHORITY

(A Statutory body of the Government of West Bengal)

City Centre, Durgapur-713 216, West Bengal

Phone PBX DGP : (0343) 254 6815/ 254 6710
Durgapur Office 254-6889
Fax DGP : (0343) 254-6665
e-mail : dgp_addadgp@sancharnet.in

Asansol 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 Date 13.7.05

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

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 planed to meet your requirement of 2090.10m^3 /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,

13/7/2005

Chief Executive Officer,
Asansol Durgapur Dev. Authority.

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.

ANNEX - II

BALKRISHNA TRADING COMPANY

E-mail : balkrishnatradingco@gmail.com
Mobile : +91 9434033392, 9832044443

Deals in :
GRANULATED SLAG, PHOSPHO-GYPSUM
CLINKER & GENERAL ORDER SUPPLIERS

P.V. COMPLEX, CHITTARANJAN ROAD, NEAMATPUR
P. O. SITARAMPUR, DIST. PASCHIM BARDHAMAN (W.B.)

Date: 01/04/2021
To
M/s. Neo Metaliks Ltd
Park Plaza, 71, Park Street
Kolkata-700016

Kind Attn: Mr. AK Mukherjee,

Respected Sir,

Memorandum of Understanding
For Purchase of
Blast Furnace Slag

We, Balkrishna Trading Company located at P.V. Complex, Chittranjan Road, Neamatpur, P.O. Sitarmpur, Dist- Paschim Burdwan (West Bengal) are dealers of all types of clay, refractory items and blast furnace slag.

We are getting orders from various Cement manufacturing companies for supply of blast furnace slag on recurring basis. In order to fulfil such demand from cement manufacturing companies, we are interested in procuring the blast furnace slag from Neo Metaliks limited.

We also indemnify and undertakes that the entire blast furnace slag so procured from Neo Metaliks limited would only be supplied to cement manufactures and not to anyone else under any circumstances.

We also undertake to provide Neo Metaliks Limited a summarized statement of the following at the year end

a. List of Cement Manufacturing units to which we will be supplying blast furnace slag at the beginning of the year along with their estimated demand from us. (annexure I)
b. Reconciling the blast furnace slag so procured from Neo Metaliks Ltd Vis-a-Vis blast furnace slag sold to such cement manufacturers in the financial year at the year end.
c. Any other information which will be asked by the Neo Metaliks in respect of blast furnace slag.

Thanking You,

Yours faithfully,
For Balkrishna Trading Company

BALKRISHNA TRADING COMPANY

Proprietor
(Mahendra Kumar Agarwalla)

BALKRISHNA TRADING COMPANY

E-mail : balkrishnatradingco@gmail.com
Mobile : +91 9434033892, 9832044443

Deals in :
GRANULATED SLAG, PHOSPHO-GYPSUM
CLINKER & GENERAL ORDER SUPPLIERS

P.V. COMPLEX, CHITTARANJAN ROAD, NEAMATPUR
P. O. SITARAMPUR, DIST. PASCHIM BARDHAMAN (W.B.)

Annexure- I

Date: 01/04/2021

List of Cement Manufacturing Units for which we have supplied G. Slag – purchased from Neo Metallk Ltd. For the period from 01/04/2020 to 31/03/2021

1)	BCL	: 7500 MT
2)	Sormistha Cement (P) Ltd.	: 1000 MT
3)	Jagdamba Industries Ltd.	: 4500 MT
4)	Srijan Cement Ltd.	: 1500 MT
5)	Ma chandi Durga Cement Pvt ltd.	: 8000 MT
6)	Shristi Cement Ltd.	: 1000 MT
7)	Star Cement Ltd.	: 500 MT
8)	Fortune Cement Pvt Ltd.	: 1500 MT
	Total	**25,500 MT**

Further this is to Inform you that we required approx 50,000/- MT Granulated Slag in the FY - 2021-22 and these materials will be sold to following expected customers

Shristi Cement Ltd.
Sormistha Cement Priviate Ltd.
Birla Corporation ltd.
Star Cement Ltd.
Sormistha Cement Ltd.
Jagdamba Industries Ltd
Fortune Cement Pvt Ltd.
Ma Chandi Durga Cement Pvt Ltd. .

For Balkrishna Trading Company

Mahendra Kr Agarwalla

Proprietor
(Mahendra Kumar Agarwalla)

BALKRISHNA TRADING COMPANY

ANNEX-III

DEORAHA TRADING COMPANY

Deals in All types of Clay Refractory Items & B. F. Slag

131, N. S. B. Road
Opp. Hotel Neelkanth
RANIGANJ

Ref. No. .....

Date .....

Date: 12.04.2021

To,
Neo Metaliks Limited
Gopalpur, Durgapur -713213

Sub : Sale details for the period 2020-21

Dear Sir,

This is to inform you that we have purchased 22485.430 M.T of G/Slag from you during the period 2020-21 and we have sold the purchased G/Slag to Cement Plant only. We have not stock of any G/Slag in godown. We assure you that we will develop a good relationship in future.

Party wise sale details attached extra sheet.

Thanking You,

Yours faithfully

For, Deoraha Trading Company

DEORAHA TRADING COMPANY

Deals in : All types of Clay, Refractory Items & B. F. Slag

131, N. S. B. Road
Opp. Hotel Neelkanth
RANIGANJ

Ref. No. ..... *Date* .....

SL. NO	FINANCIAL YEAR	PURCHASED FROM YOU IN QUANTITY (M.T.)	SALE DETAILS	
			NAME OF PARTY	QUANTITY (M.T.)
1	2020-21	22485.430	BHAVIKA COMMERCIAL PVT. LTD.	114.490
			Burdwan Super Cement Pvt. Ltd.	3463.990
			Century Rolling Mills Pvt. Ltd.	456.930
			Damodar Cement Industries (P) Ltd.	498.530
			Fortune Cement Pvt. Ltd.	1005.870
			Jagdamba Industries Ltd.	2201.490
			KHAITAN CEMENT PRIVATE LIMITED	1198.300
			MANGALPUR CEMENT PVT. LTD.	126.600
			RKM Realtors Limited	1512.410
			Shri Shyam Cement Works Pvt. Ltd.	4767.320
			Shriati Cement Limited	5430.570
			Sonmetha Cement Pvt. Ltd.	791.150
			Srijan Cements Ltd	3837.780
TOTAL		22485.430		22485.430

For DEORAHA TRADING COMPANY

Partner

ANNEX-III

SHIVA MINERALS

Deals in : GRANULATED SLAG, GYPSUM, COAL & GENERAL ORDER SUPPLIERS

P. V. COMPLEX, CHITTARANJAN ROAD, NEAMATPUR, P.O. SITARAMPUR, DIST. PASCHIM BARDHAMAN

CELL : 9831959709 | E-mail : shivaminerals1969@yahoo.com

Date: 01/04/2021

To

M/s. Neo Metaliks Ltd

Park Plaza, 71, Park Street

Kolkata-700016

Kind Attn: Mr. AK Mukherjee,

Respected Sir,

Memorandum of Understanding
For Purchase of
Blast Furnace Slag

We, Shiva Minerals located at P.V. Complex, Chittranjan Road, Neamatpur, P.O, Sitarmpur, Dist- Paschim Burdwan (West Bengal) are dealers of all types of clay, refractory items and blast furnace slag.

We are getting orders from various Cement manufacturing companies for supply of blast furnace slag on recurring basis. In order to fulfil such demand from cement manufacturing companies, we are interested in procuring the blast furnace slag from Neo Metaliks limited.

We also indemnify and undertakes that the entire blast furnace slag so procured from Neo Metaliks limited would only be supplied to cement manufactures and not to anyone else under any circumstances.

We also undertake to provide Neo Metaliks Limited a summarized statement of the following at the year end

a. List of Cement Manufacturing units to which we will be supplying blast furnace slag at the beginning of the year along with their estimated demand from us. (annexure I)
b. Reconciling the blast furnace slag so procured from Neo Metaliks Ltd Vis-a-Vis blast furnace slag sold to such cement manufacturers in the financial year at the year end.
c. Any other information which will be asked by the Neo Metaliks in respect of blast furnace slag.

Thanking You,

Yours faithfully,
For Shiva Minerals

SHIVA MINERALS

Proprietor

Proprietor
(Shio Shankar Agarwalla)

SHIVA MINERALS

Deals in : GRANULATED SLAG, GYPSUM, COAL & GENERAL ORDER SUPPLIERS
P. V. COMPLEX, CHITTARANJAN ROAD, NEAMATPUR, P.O. SITARAMPUR, DIST. PASCHIM BARDHAMAN
CELL : 9831959709 | E-mail : shivaminerals1969@yahoo.com

Annexure- I

Date: 01/04/2021

List of Cement Manufacturing Units for which we have supplied G. Slag – purchased from Neo Metalik Ltd. For the period from 01/04/2020 to 31/03/2021

1)	Birla Corporation Limited	: 800 MT
2)	Ma chandi Durga Cement Pvt ltd.	: 688 MT
	Total	**1488 MT**

Further this is to inform you that we required approx 30000/- MT Granulated Slag in the FY - 2021-22 and these materials will be supplied to following expected customers

Shristi Cement Ltd.
Sormistha Cement Priviate Ltd.
Birla Corporation ltd.
Star Cement Ltd.
Sormistha Cement Ltd.
Ma Chandi Durga Cement Pvt Ltd.

SHIVA MINERALS
Proprietor

ANNEX-III

GSTIN - 19ACVPD7422L1Z1

SANDEEP ENTERPRISES

A/2/3, Malti Mangal Plaza
130 G.T. Road, Rambandhu Talaw,
Asansol -713303,
M-9434032122,

4, Ballav Das Street, Room No. 303
Kolkata -700007.

Date : 10.04.2021

The
HOD – Marketing
Neo Metaliks Ltd
71, Park Street , Park Plaza
Kolkata – 16.

Kind Attention: Mr.A.K.Mukherjee

Dear Sir

Further as required by your good self we would like to state that we have purchased 23737.900 Mt G. Slag from you from 1.4.2020 to 31.3.2021 and have delivered the same to various Cement manufacturing units in the area. Some of our Clients are named here under:

	PARTY NAME & ADDRESS	QUANTITY
1.	Birla Corporation Ltd – Durgapur	9036.030
2.	Shristi Cement Ltd – Mangalpur , Ranigung	4124.200
3.	Omni Cement Pvt Ltd, Kanyapur, Asansol	1147.880
4.	City Cement Pvt Ltd – Kalyaneswari – Asansol	2322.460
5.	Manpasand Cement Pvt Ltd – Mangalpur , Ranigung	471.740
6.	Damodar Cement Industries Pvt Ltd – Ikrah , Jamuria	1003.890
7.	Shri Shyam Cement works pvt Ltd – Mangalpur , Ranigung	425.990
8.	Shri Gopal Concrete pvt ltd – Jamuria	2688.570
9.	Srijan Cement Ltd – Jamuria	1940.980
10.	Burdwan super cement pvt ltd –Sarpi	332.030
11.	Kolkata Cement Pvt Ltd, Mangalpur	244.130
	TOTAL	**23737.900**

In the current year we plan to buy 25000.000 M.T. from you and supply to various cement manufacturing units.

Hope this will serve your requirement.

Thanking You

Yours Faithfully

SANDEEP ENTERPRISES,

Authorised Signatory

ANNEX - III

SKM

Srikrishna Marketing

General Order Supplier

Date : 08.04.21

To
M/s. NEO METALIKS LTD.
71, Park Street
Park Plaza
Kolkata - 700016

Kind Attn. : Mr. A K Mukherjee

Respected Sir,

Memorandum of Understanding for Purchase of Blast Furnace Slag

We, Srikrishna Marketing , Salbangan Road, Benachity, Durgapur - 713213 Dist. – Paschim Bardhaman, West Bengal
Are dealers of Fly Ash and G.Slag.

We are getting orders from various Cement manufacturing companies for supply of blast furnace slag on recurring basis. In order to fulfil such demand from cement manufacturing companies, we are interested in procuring the blast furnace slag from Neo Metaliks Limited.

We also indemnify and undertakes that the entire blast furnace slag so procured from Neo Metaliks Limited would only be supplied to cement manufactures and not to anyone else under any circumstances.

We also undertake to provide New Metaliks Limited a summarized statement of the following at the year end.

a. List of Cement Manufacturing units to which we will be supplying blast furnace slag at the beginning of the year along with their estimated demand from us.
b. Reconciling the blast furnace slag so procured from New Metaliks Ltd Vis-a-Vis blast furnace slag sold to such cement manufacturers in the financial year at the year end.
c. Any other information which will be asked by the Neo Metaliks in respect of blast furnace slag.

Thanking you
Your's faithfully

SRI KRISHNA MARKETING

Partner

SKM

Srikrishna Marketing

General Order Supplier

Date : 08.04.21

To
M/s. NEO METALIKS LTD.
71, Park Street
Park Plaza, 3E North Block
Kolkata - 700016

Subject : Annual requirement of Granulated Slag.

Dear Sir,

With reference to the above subject we would like to state that we are a trading firm procuring Granulated Slag from various Pig Iron manufacturing units and selling the same to various cement manufacturing units located in and all over west Bengal.

Sir, we have an annual requirement of 1000 metric tons of granulated blast furnace slag which we wish to procure from you and sell the same to the various cement units.

Sir, you are requested to let us know the availability of the same with you so that we can plan our purchase accordingly.

Thanking you
Yours sincerely

SRI KRISHNA MARKETING

Partner

1No. : Shalbagan Road, Benachity, Durgapur - 713213

Annex IV

FORM
(See Rule 19 (1))
MANIFEST FOR HAZARDOUS AND OTHER WASTE

1.	Sender's name and mailing address (including Phone No. and e-mail)	[illegible]
2.	Sender's authorisation No.	[illegible]
3.	Manifest Document No.	
4.	Transporter's name and address (including Phone No. e-mail)	[illegible]
5.	Type of vehicle	(Truck/Tanker/Special vehicle)
6.	Transporter's registration No.	[illegible]
7.	Vehicle registration No.	[illegible]
8.	Receiver's name and mailing address (including Phone No. and e-mail)	BA-MA OIL INDUSTRIES PANCHAYAT ROAD, VILL-KHARIAL P.O. DANKUNI [illegible] DIST-HOOGHLY-712311 [illegible]
9.	Receiver's authorisation No.	[illegible]
10.	Waste description	[illegible]
11.	Total quantity No. of Containers	[illegible] ... Nos.
12.	Physical form	(Solid/Semi Solid/Sludge/Oily/Tarry/Slurry) etc.
13.	Special handling instructions and additional information	[illegible]
14.	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorized, packed, marked, and labeled, and are in all respects in proper condition for transport by road according to applicable national government regulations.
	Name and stamp: Signature:	Month Day Year [illegible]
15.	Transporter acknowledgement of receipt of wastes	
	Name and stamp: [illegible] Road [illegible] P.O. Dankuni Signature:	Month Day Year [illegible]
16.	Receiver's certification for receipt of hazardous and other waste	
	Name and stamp: [illegible] Road Signature:	Month Day Year [illegible]

Sent by the [illegible] to the sender.

FORM 10

[See Rule 10 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (including Phone No. and e-mail)	
2	Sender's authorisation No.	
3	Manifest Document No.	
4	Transporter's name and address (including Phone No. e-mail)	
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	
8	Receiver's name and mailing address (including Phone No. and e-mail)	**BALMA OIL INDUSTRIES** **PANCHAYAT ROAD, VILL-KHARIAL,** P.O.-DANKUNI, CO, DIST.-HOOGHLY-712310 2674-1078, 2659-2163, bmoilc@vsnl.com
9	Receiver's authorisation No.	
10	Waste description	
11	Total quantity No. of Containers	m³ or MT Nos.
12	Physical form	(Solid/ Semi Solid/ Sludge/ Oily Tarry/ Slurry/ Liquid)
13	Special handling instructions and additional information	
14	Sender's Certificate	I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are packaged, marked, labelled and in all respects in proper condition for transport by road according to applicable national government regulations.
	Name and Designation	Signature Month Day Year
15	Transporter's acknowledgement of receipt of wastes	
	Name and Designation	Signature Month Day Year
16	Receiver's declaration for receipt of hazardous and other wastes	
	Name and Designation	Signature Month Day Year

ANNEX – IV

FORM 10

WEST BENGAL WASTE MANAGEMENT LIMITED

6th Copy

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) :	
2	Sender's authorization No. :	ZL2212
3	Manifest Document No. :	1 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. :	
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. :	
10	Waste description :	
11	Total quantity No. of Containers :	..... m3 or MT ..... Nos.
12	Physical form :	**(Soild/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)**
13	Special handling instructions and additional information	
14	Sender's Certificate Name and stamp	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. Signature Day Month Year
15	Transporter acknowledgement of receipt of wastes : Name and stamp	Signature Day Month Year
16	Receiver's certification for receipt of hazardous and other waste : Name and stamp	Signature Day Month Year 07 04 2021

1. White Colour forwarded to WBPCB by HzW Sender
2. Yellow Colour retained by HzW sender
3. Pink Colour retained by HzW Receiver
4. Orange Colour retained by transporter
5. Green Colour forwarded to WBPCP after disposal by HzW Receiver
6. Blue Colour returned to sender after disposal by HzW Receiver

FORM 10

6th Copy

WEST BENGAL WASTE MANAGEMENT LIMITED

– 103, Mouza – Purba Srikrishnapur, P.O. & P.S. – Sutahata, PIN – 721635, Haldia, Dist. – Purba Medinipur, West Bengal

MANIFEST FOR HAZARDOUS AND OTHER WASTE

	Sender's name and mailing address (including Phone No. and e-mail) :	
2	Sender's authorization No. :	
3	Manifest Document No. :	1 14728
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. :	
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. :	
10	Waste description :	
11	Total quantity No. of Containers :	..... m3 or MT ..... Nos.
12	Physical form :	**(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)**
13	Special handling instructions and additional information	
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
15	Transporter acknowledgement of receipt of Wastes :	
	Name and stamp	Signature — Day / Month / Year
16	Receiver's certification for receipt of hazardous and other waste :	
	Name and stamp: S. Dutta	Signature — Day: 07 / Month: 04 / Year: 2021

1. White Colour forwarded to WBPCB by HzW Sender
2. Yellow Colour retained by HzW sender
3. Pink Colour retained by HzW Receiver
4. Orange Colour retained by transporter
5. Green Colour forwarded to WBPCP ofter disposal by HzW Receiver
6. Blue Colour returned to sender after disposal by HzW Receiver

FORM 10

6th Copy

WEST BENGAL WASTE MANAGEMENT LIMITED

– 103, Mouza – Purba Srikrishnapur, P.O. & P.S. – Sutahata, PIN – 721635, Haldia, Dist. – Purba Medinipur, West Bengal

MANIFEST FOR HAZARDOUS AND OTHER WASTE

	Sender's name and mailing address (including Phone No. and e-mail) :	
	Sender's authorization No. :	
	Manifest Document No. :	1 14730
	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
	Type of vehicle :	(Truck/Tanker/Special Vehicle)
	Transporter's registration No. :	1-MD(E)/X/06
	Vehicle registration No. :	
	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
	Receiver's authorization No. :	
)	Waste description :	
	Total quantity No. of Containers :	..... m3 or MT ..... Nos.
2	Physical form :	**(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)**
3	Special handling instructions and additional information	
4	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
	Transporter acknowledgement of receipt of Wastes :	
15	Name and stamp	Signature Day Month Year
	Receiver's certification for receipt of hazardous and other waste :	
16	Name and stamp	Signature Day Month Year 07 04 2024

1. White Colour forwarded to WBPCB by HzW Sender
2. Yellow Colour retained by HzW sender
3. Pink Colour retained by HzW Receiver
4. Orange Colour retained by transporter
5. Green Colour forwarded to WBPCP ofter disposal by HzW Receiver
6. Blue Colour returned to sender after disposal by HzW Receiver

West Bengal Waste Management Ltd.

Invoice No.WB0020000070

NO	VEHICLE NO	MANIFEST DATE	MANIFEST NO	GENERATOR NAME	LOCATION	TYPE OF WASTE	DISPOSAL PATHWAY	QUANTITY (M.T)
1	WB31N-0085	05.04.2021	14730	NEO METALIKS LTD	DURGAPUR	SPENT ION EXCHANGE RESIN	INC	0.830
2	WB31N-0085	05.04.2021	14728	NEO METALIKS LTD	DURGAPUR	DG FILTER	INC	0.040
3	WB31N-0085	05.04.2021	14729	NEO METALIKS LTD	DURGAPUR	WASTE OIL	INC	0.310
				TOTAL				1.180

MDB Dept
Name Asgar Mollick.
Designation

Operations Dept
Name Partha Pratim Nath
Designation Asst. Mngr.

Lab Dept
Name Tapan Mondal
Designation Sr. Asst. Manager

F&A Dept.
Name
Designation

ANNEX-IV

Pass Book for Procurement of Hazardous and Other Wastes

Name and Address of the industry	M/s Ba-Ma Oil Industries Panchayat Road [illegible] P.O. Dankuni G.S. Dist. [illegible] West Bengal Pin [illegible]
Telephone No.	(033) 2650 2183, [illegible] 23533
Fax No.	2624-1678
E-mail Address	bmaind@yahoo.co.in
Passbook No.	01 (New)
Date of Issue	18.12.2018
Validity of Authorization issued under Hazardous & Other Waste (M&TBM) Rules, 2016	No. 26/25(HW)-155/98-99 Dt. 01.02.2011 Valid upto 31.01.2021

Type & Quantity of Hazardous & Other Waste(s) permitted for procurement and recycling

Sl. No.	Hazardous & Other Wastes	Quantity (Tons Per Annum)
01.	- Used Oil	3000 KL (Three thousand Only)
02.	- Waste Oil	3000 KL (Three thousand Only)

Authorised Signatory & Seal

Endorsement by the Auctioneer/Seller/Competent authority/person

[Condition No. 3 of the Passbook]

Passbook No. 01(New) Date of issue 15/12/2012

Sl. No.	Date	Name & Address of the Auctioneer/ Seller	Type & Quantity of Hazardous & Other Wastes sold/ Auctioned	Signature & Seal of the Auctioneer/ Seller Competent authority/ person with date	Date of arrival in the Recycler's (actual user) premises & Challan No.	Quantity Procured in current financial year	Balance Quantity that can be procured in current financial year
(1)	(2)	(3)	(4)	(5)	(6)*	(7)*	(8)*
13	10/12/12	Nec Metaliks Limited Durgapur	Used Oil 6.2016				

* To be filled by the Recycler

Qualissure Laboratory Services

361, Prantick Pally, 45/361, Bose Pukur Road, Kolkata - 700107
Email : qualissure@gmail.com; info@qualissure.com ; Mob No. 9831287086 ; 9830093976

TC-6271

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

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa, Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Sample Description Sample Location Date of Performance Sample Drawn On Ref No. Date	: QLS/W/20-21/C/209 : 30.11.2020 : QLS/W/20-21/209 : Waste Water : Near Main Gate Canteen Outlet : 16.11.2020 - 28.11.2020 : 14.11.2020 : W119Y-00152, Dated: 03.03.2020

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 23rd Edition-2017, 4500 H+	7.18	5.5 to 9.0	5.5 to 9.0
2	Total Suspended Solid in mg/l	APHA 23rd Edition-2017, 2540 D	44.0	100	600
3	Chemical Oxygen Demand (as COD) mg/l	APHA 23rd Edition-2017, 5220B	96.0	250	---
4	Biochemical Oxygen Demand (as BOD) mg/l	IS 3025 (Part 44)-1993, RA:2014	24.0	30	350
5	Oil & Grease in mg/l	APHA 23rd Edition-2017, 5520A	3.2	10	20

for Qualissure Laboratory Services
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TC-5271

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

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Sample Description Sample Location Date Of Performance Sample Drawn On Ref No. Date	: QLS/W/20-21/C/210 : 30.11.2020 : QLS/W/20-21/210 : Waste Water : CPP Cooling Tower Blow down : 16.11.2020-28.11.2020 : 14.11.2020 : W119Y-00152, Dated: 03.03.2020

Analysis Result

Sl. No.	Parameter	TEST METHOD	Result	Limit as per CPCB for discharge of effluents	
				Inland Surface Water	Public Sewers
1	pH at 25^0 C	APHA 23rd Edition-2017, 4500 H+	6.88	5.5 to 9.0	5.5 to 9.0
2	Total Suspended Solid in mg/l	APHA 23rd Edition-2017, 2540 D	<2.5	100	600
3	Oil & Grease in mg/l	APHA 23rd Edition-2017, 5520A	< 1.4	10	20

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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 PaschimBardhaman West Bengal – 713212	ULR No.	: TC627121000000173F
	Report No.	: QLS/W/20-21/C/333
	Date	: 04.02.2021
	Sample No.	: QLS/W/20-21/333
	Sample Description	: Domestic Waste Water
	Sample Location	: Near Main Gate Canteen Outlet
	Date of Performance	: 25.01.-04.02.2021
	Sample Drawn On	: 22.01.2021
	Ref No. Date	: W120604-001, Dated: 04.06.2020

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 23rd Edition-2017, 4500H+	7.12	5.5 to 9.0	5.5 to 9.0
2	Total Suspended Solid in mg/l	APHA 23rd Edition-2017, 2540D	46.0	100	600
3	Chemical Oxygen Demand (as COD) mg/l	APHA 23rd Edition-2017, 5220B	115.0	250	--
4	Biochemical Oxygen Demand (as BOD) mg/l	IS 3025 (Part 44)-1993, RA:2014	25.0	30	350
5	Oil & Grease in mg/l	APHA 23rd Edition-2017, 5520A	4.4	10	20

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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. Report No. Date Sample No. Sample Description Sample Location Date Of Performance Sample Drawn On Ref No. Date	: TC627121000000174F : QLS/W/20-21/C/334 : 04.02.2021 : QLS/W/20-21/334 : Process Waste Water : CPP Cooling Tower Blowdown : 25.01.-04.02.2021 : 22.01.2021 : W120604-001, Dated: 04.06.2020

Analysis Result

Sl. No.	Parameter	TEST METHOD	Result	Limit as per CPCB for discharge of effluents	
				Inland Surface Water	Public Sewers
1.	pH at 25^0 C	APHA 23rd Edition-2017, 4500H+	6.72	5.5 to 9.0	5.5 to 9.0
2.	Total Suspended Solid in mg/l	APHA 23rd Edition-2017, 2540 D	<2.5	100	600
3.	Oil & Grease in mg/l	APHA 23rd Edition-2017, 5520 A	< 1.4	10	20

for **Qualissure Laboratory Services**
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Email : qualissure@gmail.com, info@qualissure.com ; Mob.No. 98312 87086 ; 9830093976

TC-6271

ULR No.: TC627120000000241F DOC NO : QLS/SAMP/08-D/00

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd.	Report No.	: QLS/W/20-21/C/208
Vill + P.O. : Gopalpur	Date	: 30.11.2020
P.S. : Kanksa,Durgapur	Sample No.	: QLS/W/20-21/208
Paschim Bardhaman	Sample Description	: Drinking Water
West Bengal – 713 212	Sample Mark/ Location	: MBF Plant
	Date of Performance(s)	: 16.11.-28.11.2020
	Sample Drawn On	: 14.11.2020
	Ref No. Date	: W119Y-00152, Dated: 03.03.2020

(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 10500:2012 Amd. 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	7.52
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	320.0
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	38.26
11.	Chloride(as Cl) in mg/l	IS 3025 (Part 32): 1988 (RA 2014)	250	1000	25.99
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	<0.05
16.	Magnesium(as Mg) in mg/l	IS 3025 (Part 46): 1994(RA 2014)	30	100	19.28
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	0.88
19.	Phenolic Compounds(as C_6H_5OH) 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	32.64
22.	Alkalinity(as $CaCO_3$)in mg/l	IS 3025 (Part 23): 1986(RA 2014)	200	600	162.0
23.	Total Hardness (as $CaCO_3$) in mg/l	IS 3025 (Part 21): 2013	200	600	176.0
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

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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.	: TC627121000000172F
Report No.	: QLS/W/20-21/C/335
Date	: 04.02.2021
Sample No.	: QLS/W/20-21/335
Sample Description	: Drinking Water
Sample Mark/ Location	: Admin Building Aqua guard
Date of Performance(s)	: 25.01.-04.02.2021
Sample Drawn On	: 22.1.2021
Ref No. Date	: W120604-001, Dated: 04.06.2020

(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	6.95
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	298.0
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	48.0
11.	Chloride(as Cl) in mg/l	IS 3025 (Part 32): 1988 (RA 2014)	250	1000	29.99
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	0.25
16.	Magnesium(as Mg) in mg/l	IS 3025 (Part 46): 1994(RA 2014)	30	100	19.20
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	2.70
19.	Phenolic Compounds(as C_6H_5OH) 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	5.73
22.	Alkalinity(as $CaCO_3$)in mg/l	IS 3025 (Part 23): 1986(RA 2014)	200	600	140.0
23.	Total Hardness (as $CaCO_3$) in mg/l	IS 3025 (Part 21): 2013	200	600	200.0
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

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TC-6271

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

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Sample Description Sample Location Date Of Performance Sample Drawn On Ref No. Date	: QLS/W/20-21/C/129 : 19.10.2020 : QLS/W/20-21/129 : Waste Water : CPP Boiler Blow down : 01-15.10.2020 : 29.09.2020 : W119Y-00152, Dated: 03.03.2020

Analysis Result

Sl. No.	Parameter	TEST METHOD	Result	Limit as per CPCB for discharge of effluents	
				Inland Surface Water	Public Sewers
1	pH at 25^0 C	APHA 23rd Edition-2017, 4500 H+	6.92	5.5 to 9.0	5.5 to 9.0
2	Total Suspended Solid in mg/l	APHA 23rd Edition-2017, 2540 D	<2.5	100	600
3	Oil & Grease in mg/l	APHA 23rd Edition-2017, 5520A	< 1.4	10	20

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

R. Roy
(Authorized Signatory)

Qualissure Laboratory Services (P) Ltd.
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Email : qualissure@gmail.com; info@qualissure.com ; Mob.No. 98312 87086 ; 9830093976

ULR No.: TC627120000000193F

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	Report No.	: QLS/W/20-21/C/128
	Date	: 19.10.2020
	Sample No.	: QLS/ W/20-21/128
	Sample Description	: Drinking Water
	Sample Mark/ Location	: Near MBF Plant Borewell
	Date of Performance(s)	: 01-15.10.2020
	Sample Drawn On	: 29.09.2020
	Ref No. Date	: W119Y-00152, Dated: 03-03-2020

(A) Microbiological Analysis

Sl. No.	Characteristic	Limit as Per IS 10500 :2012	Test Method	Result
1	E.coli/100ml	Not Detectable	IS 1622-1981,Reff.2003	Not Detected
2	Total Coliform Bacteria/100ml	Not Detectable	IS 1622-1981,Reff.2003	Not Detected

(B) Chemical Analysis

Sl. No.	Test Parameter	Test Method	IS 10500:2012		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	7.61
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	344
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	1.0	<0.5
10.	Calcium(as Ca) in mg/l	IS 3025 (Part 40): 1991(RA 2014)	75	200	48.4
11.	Chloride(as Cl) in mg/l	IS 3025 (Part 32): 1988 (RA 2014)	250	1000	26.3
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	0.28
16.	Magnesium(as Mg) in mg/l	IS 3025 (Part 46): 1994(RA 2014)	30	100	21.36
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	2.71
19.	Phenolic Compounds(as C_6H_5OH) 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	34.8
22.	Alkalinity(as $CaCO_3$)in mg/l	IS 3025 (Part 23): 1986(RA 2014)	200	600	182
23.	Total Hardness (as $CaCO_3$) in mg/l	IS 3025 (Part 21): 2013	200	600	210
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	0.05	<0.01
29.	Zinc(as Zn) in mg/l	IS 3025 (Part 49): 1994 (RA 2014)	5	15	0.48
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

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

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	Report No.	: QLS/W/20-21/C/130
	Date	: 19.10.2020
	Sample No.	: QLS/W/20-21/130
	Sample Description	: Waste Water
	Sample Location	: Near Main Gate Main Drain
	Date of Performance	: 01-15.10.2020
	Sample Drawn On	: 29.09.2020
	Ref No. Date	: W119Y-00152, Dated: 03-03-2020

Analysis Result

Sl. No.	Parameter	TEST METHOD	Result	Limit as per CPCB for discharge of effluents	
				Inland Surface Water	Public Sewers
1	pH at 25^0 C	APHA 23rd Edition-2017, 4500 H+	7.32	5.5 to 9.0	5.5 to 9.0
2	Total Suspended Solid in mg/l	APHA 23rd Edition-2017, 2540 D	38	100	600
3	Chemical Oxygen Demand (as COD) mg/l	APHA 23rd Edition-2017, 5220B	77	250	---
4	Biochemical Oxygen Demand (as BOD) mg/l	IS 3025 (Part 44)-1993, RA:2014	18	30	350
5	Oil & Grease in mg/l	APHA 23rd Edition-2017, 5520A	3.6	10	20

for Qualissure Laboratory Services
Reviewed & Authorized By

R. Roy
(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.*

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
	a	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**	
	a	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**	
	a	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**	
	a	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.
	b	Envenomization 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 is Sold to WBPCB authorized co-processor/ re-processor, name M/s Bama Oil Industries. 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 31st 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 as per list attached 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 m3, 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).	Operational 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 Hydrocarbon 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 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 rainwater 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 rainwater 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 adhering 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.

ANNEX - 1

SPEED POST

NOC No159423

WEST BENGAL POLLUTION CONTROL BOARD

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

Memo No. 1125-2N-566/2003-PART-I Dated 22.11.2019

From
Member Secretary,
West Bengal Pollution Control Board

To M/s. Neo Metaliks Limited,
Park Plaza,
71, Park Street, 6F, North Block, Kolkata - 700 016.

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

Ref: Your letter No. [redacted] Dated 22.10.2019

Dear Sirs,

In response to the application for Consent to Establish (NOC) for proposed Unit of M/s Neo Metaliks Limited for [redacted] of 100% Retrofitted Pulverised Coal Injection System in it[redacted] existing produ[redacted] at existing unit located at J.L. No.65, Mouza-Gopalpur, P.O.+P.S.-* this is to inform you that this [redacted] grant Consent to Establish (NOC) from the environmental point of the above subject to the follow[redacted]ons [redacted]al [redacted]s an[redacted]

* Kanksa, List.- Paschi[redacted]rdh[redacted]n, [redacted]-713212.

1. The quality of sewage and trade effluent to be discharged from your factory shall satisfy the permissible limits as prescribed in IS : 2490 (Pt. I) of 1974, and/or its subsequent amendment and Environment (Protection) Rules 1986.

2. Suitable measures to treat your effluent shall be adopted by you in order to reduce the pollutional load so that the quality of the effluent satisfies the standards mentioned above.

3. You shall have to apply to this Board for its consent to operate and discharge of sewage and trade effluent according to the provisions of the water (Prevention & Control of Pollution) Act, 1974. No sewage or trade effluent shall be discharged by you without prior consent of this Board.

4. All emission from your factory shall conform to the standards as laid down by this Board.

5. No emission shall be permitted without prior approval of this Board and you shall apply to this Board for its consent to operate and atmospheric emission as per provision of the Air (Prevention & Control Pollution) act, 1981.

6. No industrial plant, furnace, flues, chimneys, control equipment, etc. shall be constructed/reconstructed/ erected/re-erected without prior approval of this Board.

NO159423

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

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

SPECIAL CONDITION :

See Annexure.

Gross Capital Investment for installation of 100TPD Pulverized Coal Injection System in existing 215m^3 Blast Furnace is Rs.9.75 Crores Only.

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

Yours faithfully,

Member Secretary, / SR. ENV. ENGR.
West Bengal Pollution Control Board (EIM CELL)

Memo No. 1125 -2N-566/2003-PART-I dt. 22.11.2013 Dated Environmental Engineer
W. B. Pollution Control Board
Dept. of Environment, GoWB

Copy forwarded for information to :

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

Himalaya Bhawan Delhi Road, Dankuni Dist. Hooghly	Vill, Panpur Kalyani Expressway P.O. Narayanpur Dist. 24 Pgs. (N)	Sahid Khudiram Sarani City Centre, Durgapur-13 Dist. Burdwan	10, Camac Street 2nd Floor Kolkata-700 017
Paribesh Bhawan 10A, LA-Block, Sector-III Salt Lake City, Kolkata - 700 098	Block-05 at 40 Flats Complex Adjacent to Priyambada Housing Estate P.O. : Khanjanchak, P.S. Durgachak Haldia-721602 Dist. : Purba Medinipur	Paribahan Nagar Matigara, Siliguri Dist.-Darjeeling	
Satya Chowdhury Indoor Stadium	Asansol Sub-Regional Office ADDA Commercial Market (2nd Floor) Opposite Asansol Fire Station		

Member Secretary, / SR. E. E.

CII

Confederation of Indian Industry

125 Years - Since 1895

13th CII encon awards 2020

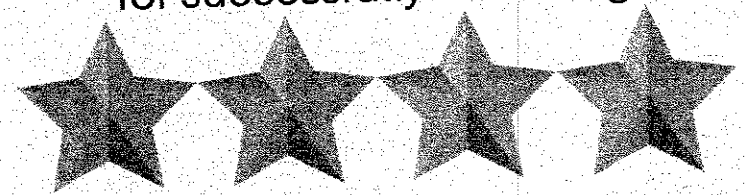
Recognition of Excellence in Energy Conservation
Through CII Virtual Platform

CERTIFICATE

Congratulation to

Neo Metaliks Limited

for successfully achieving



in the **Large Scale Category** of **Energy Conservation Award (ENCON) 2020,** CII Eastern Region

Abhijit Roy

Abhijit Roy

Chairman, CII Eastern Region

Annx-2

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) 2335-0088 / 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

Memo No. 38 /2S(HW) –2497/2009 Date: 02.03.2020 ~~02/2020~~

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.

2/3/2020
[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

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 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 4 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 not store hazardous wastes onsite for more than 180 (one hundred eighty) days.
3. Used oil (5.1) shall be sold through manifest system (Form 10) only to the recyclers having valid registration of the State Pollution Control Board (SPCB). During each sale, the original Pass-book issued by SPCB to the registered recyclers shall be endorsed mentioning the quantity and copy of the same should be kept as 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 Vechiles 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.

[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

Enclosed: As stated.

ANNEX-C

Report Prepared for:

Neo Metaliks Limited
Vill: Gopalpur, PO: Gopalpur, Via: Durgapur,
Dist.: Burdwan, Durgapur 713212, West Bengal, India.
Ph: +91 33 4050 4050
Fax: +91 33 2217 7317
E-mail: info@neometaliks.com

Contact:

Mr. Samar Sarkar
E-Mail: dgmcpp@neometaliks.com

This report is prepared by **Verde Consulting Pvt. Limited.**
Authors of this report: Mr. Goutam Saha, Mr. Anirudhha Neogi and Mr. Sandipan Sinha

Contact:

Partha Pratim P Chaudhuri
E-mail: partha.chaudhuri@verde-group.org

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:

Sr. No.	Particulars	Saving		Investment	Payback Period	ECM No. Ref.
		Electricity kWh/yr.	Monetary In Lakh INR/yr.	Lakh INR	Years	
1	**Proposal I** Electrical Energy Saving through Overhauling of Sinter ID Fan	350586	19.5	10	0.51	1
2	**Proposal II** Electrical Energy Saving through Replacing the Existing ID Fan with an Energy Efficient ID Fan	1168793	65	18	0.28	1
3	Replace existing Major Pumps in CPP, Sinter and MBF section by Energy Efficient Pumps	616075	34.19	19	0.56	2
4	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	3
5	Replace Existing Sinter Cooling Fans by Energy Efficient Fans and Save Energy	332243	18.44	24	1.3	4

6	Install Energy Efficient Boiler Feed Pump (BFP) with VFD Drive	218654	12.14	27	2.22	5
7	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
8	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
9	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
10	Improvement in boiler feed water temperature by repair/replacement of economizer tubes.	750291	3.75	2	0.53	9
11	Boiler Feed Water Pump Pressure drop Optimization	65344	3.63	NIL	Immediate	10
12	Optimize the Discharge Pressure of Condensate Extraction Pump (CEP)	48117	2.67	NIL	Immediate	11
13	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
14	Improve effectiveness of cooling tower through overhauling and cleaning	470577	2.35	1.5	0.64	13
15	Preheat the BF Gas by Sinter Flue Gas Before Using at Sinter Ignition Furnace and Save Energy	312784	1.56	-	-	14

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

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

neo metaliks ltd.

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

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 12.05.2021
2) 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.

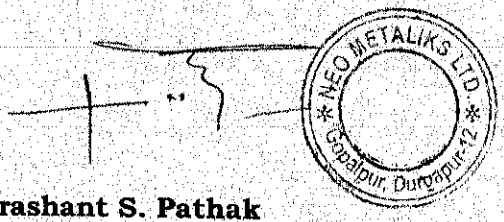
You have to provide the Xerox copy of the PAN of your company at the time of submitting the bill, otherwise as per Income Tax Law we will deduct TDS @ 20%.
Please return the duplicate copy of this order duly signed and stamped as a token of your acceptance. Without your acceptance copy we will not be 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, 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 :	Report No.	: QLS/A/20-21/C/210(A-D)
M/s. Neo Metaliks Ltd.	Date	: 15.10.2020
Vill + P.O. : Gopalpur	Sample No.	: QLS/A/20-21/210(A-D)
P.S. : Kanksa,Durgapur	Sample Description	: Noise Monitoring
Paschim Bardhaman	Ref No. Date	: W119Y-00152, Dated: 03.03.2020
West Bengal – 713 212		

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
210A	27.09.2020	Near PCM Boundary Wall	62.1	65	54.3	55
210B		Near North East Boundary Wall	60.7	65	53.9	55
210C	28.09.2020	Near Admin Building	62.8	65	51.3	55
210D		Near Main Gate	64.7	65	53.8	55

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

(Authorized Signatory)

Qualissure Laboratory Services

361, Prantick Pally, 45/361, Bose Pukur Road, Kolkata - 700107
Email : qualissure@gmail.com; info@qualissure.com ; Mob.No. 9831287086 , 9830093976

TC-6271

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

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. Date Sample No. Sample Description Ref No. Date	: QLS/A/20-21/C/319 : 01.12.2020 : QLS/A/20-21/319(A-E) : Noise Monitoring : W119Y-00152, Dated: 03.03.2020

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
A	11.11.2020	Near PCM Boundary Wall	62.6	65	52.8	55
B		Near CPP Cooling Tower	62.9	65	54.3	55
C	12.11.2020	Near Admin Building	61.4	65	50.4	55
D		Near Boundary Wall- North east side	61.8	65	54.3	55
E	13.11.2020	Near main Gate	60.6	65	51.9	55

for Qualissure Laboratory Services
Reviewed & Authorised 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-C/00

TEST REPORT

Name & Address Of the Customer :		
M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	ULR No.	: TC627121000000222F
	Report No.	: QLS/A/20-21/C/430
	Date	: 08.02.2021
	Sample No.	: QLS/A/20-21/430(A-D)
	Date of Performance	: 25-30.01.2021
	Sample Description	: Noise Monitoring
	Ref No. Date	: W120604-001, Dated: 04.06.2020

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
1150-A	21-22.01.2021	Near Store Area	64.8	65	54.6	55
1150-B		Near Main Gate	63.2	65	48.9	55
1150-C	22-23.01.2021	Near East Side Boundary Wall	63.9	65	53.7	55
1150-D		Near CPP Cooling Tower	64.7	65	54.8	55

for Qualissure Laboratory Services
Reviewed & Authorized By

(Authorized Signatory)

neo metaliks ltd.

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

Annexure-VI		
DETAILS OF CAPITAL EXP. FOR ENVIRONMENTAL PROTECTION EQUIPMENTS		
SL. No.	Name of the Equipments	Amount (Rs. In Crores)
	MBF	
1	GAS CLEANING PLANT	3.80
2	VENTURY	
3	SATURATOR	
4	FUME EXTRACTION SYSTEMS	0.075
5	ALL MBF STACK (II,IV & V)	0.55
6	ONLINE STACK MONITORING SYSTEM	0.03
7	WATER CANNON FOGGING MACHINE	0.019
8	DE-DUSTING SYSTEM	0.177
	CPP	
1	CPP STACK (III)	0.28
	SINTER	
1	ESP	7.25
2	BAG FILTER	0.40
3	ALL STACK(I)	0.35
4	ONLINE STACK MONITORING SYSTEM	0.03
	Total	**12.96**