

ENVIRONMENTAL CLEARANCE COMPLIANCE
(APRIL - 2019 TO SEPTEMBER – 2019)

NEO METALIKS LTD.

[F. No. J - 11011/779/2007-IA II (I), DATED 04.11.2008]

**Environmental Clearance compliance report for the period
from April – 2019 to September - 2019
for 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 level 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.	<p>A (i)Efforts made to reduce RSPM level in the ambient air is given below:-</p> <p>(a) We have installed air pollution control system to the Sinter Plant & MBF cast house. Exhaust gases from SP tail end and head end is cleaned in ESPs to less than 100 mg/Nm³ and discharged. MBF waste gas is cleaned in dry dust catcher, saturator and Ventury scrubbers to less than 5 mg/Nm³ and used as fuel for CPP boilers and process.</p> <p>(b) All the conveyors and transfer points has been enclosed.</p> <p>(c) Water sprinkling system (fixed and mobile type) has been provided in raw material handling yard, unloading point, and other vulnerable points where enclosure is not possible.</p> <p>(d) Roads and work places are cleaned at regular intervals. The cleaned materials/dust particles are collected and sent for re-use in the Sinter process plant. This is being monitored regularly and the concerned department has been made responsible to maintain it.</p> <p>(e) Raw Materials like Iron Ore Fines and Coke Fines are kept covered with Tarpaulin Sheets.</p> <p>(f) All the Vehicles plying inside the Plant are regularly checked for PUC compliance certificates (exhaust emission).</p> <p>(g) On line monitoring system has been installed for the following stacks:</p>

SL	SPECIFIC CONDITION	COMPLIANCE STATUS
		<p>1. Sinter Plant Process stack 2. Blast Furnace Stove stack 3. Captive Power Plant stack</p> <p>In addition to that, periodic (six monthly) environment monitoring is being carried out by NABL accredited agency.</p> <p>A (ii) Time bound Action Plan to reduce RSPM Level.</p> <p>(a) Tree Plantation is our ongoing process. Total 9805 nos. of saplings have been planted. Another 9000 nos. of saplings shall be planted within the financial year 2019-20 including Shrubs and Bushes in already acquired land and land to be acquired outside to make 33% of plantation.</p> <p>(b) We have not installed the EAF.</p> <p>(c) Last six-monthly report has been submitted for the period from October'18 to March'19 to this Ministry through e-mail and subsequently to its regional office at Bhubaneswar through speed post and to WBPCB by hand.</p>
A (ii)	As proposed, Waste gases from BF, Sinter Plant, induction and electric arc furnace (IF/EAF) and rolling mill reheating furnace shall be routed through suitable pollution control devices and used in sinter plant.	We have installed only the BF and sinter plant. The flue gases are routed through appropriate air pollution control devices like GCP, ESP and bag filters as explained above.
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.	<p>(a) As mentioned, Plant de-dusting system comprising of bag filters are provided to control the fugitive dust. Fixed Water Sprinkler provided at Ground hoppers, raw material handling area, truck tippler and mobile Water Sprinkling Tanker deployed to suppress the fugitive dust inside all the internal roads within the plant premises.</p> <p>(b) We have not installed EAF, IF, CCM and</p>

SL	SPECIFIC CONDITION	COMPLIANCE STATUS
		RM.
A (iv)	Gaseous emission levels including secondary fugitive emission 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.	<p>(a) Gaseous emission through stacks is within CPCB specified latest permissible limit. We monitor the environmental condition included ambient air, work zone and stack by NABL accredited external laboratory.</p> <p>(b) As mentioned above, Plant de-dusting system comprising of bag filters/ESPs are provided to control the fugitive emission in Sinter Plant and BF cast house. Fixed Water Sprinkler provided in Ground hopper, Raw Material handling area, truck tippler. Mobile Water Sprinkling Tanker deployed on daily basis, sprays water on roads inside the plant premises and in raw materials stock yard.</p>
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.	<p>Following measures have been adopted to control vehicle pollution due to transportation of raw material and finished product.</p> <p>(a) Fixed water sprinklers and Mobile water sprinkling tanker provided regularly for suppressing the vehicular dust emission at road and material handling area.</p> <p>(b) Road cleaning activity is in our regular practice.</p> <p>(c) We have made water bed on the main concrete road for washing the on road vehicle wheel.</p>
A (vi)	Total water requirement from Asansol Durgapur Development Authority (ADDA) shall not exceed 6,120 m ³ / day. No ground water shall be abstracted. Closed circuit water re-circulation system shall be used to reduce water consumption. All the treated wastewater including blow down water from BF, Sinter plant etc, Shall be recycled and reused in the process, dust suppression and green belt development. 'Zero' effluent discharged shall	<p>(a) We have permission to 2090 m³/day water from ADDA. We have not installed the SMS and Rolling Mill mentioned in EC. Only BF, CPP and Sinter Plant has been installed. The existing water requirement is 1849 m³ / day.</p> <p>(b) Permission for drawing ground water has been obtained from SWID, Govt., of West Bengal. This permission has been taken to</p>

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	be strictly followed and no wastewater shall be discharged outside the premises. Domestic effluent shall be used for green belt development	<p>meet the domestic water requirement of staffs, workmen and security personnel.</p> <p>(d) The plant is based on Zero Water discharge system (entire wastewater is treated and recycled/ reused within plant premises. No wastewater is discharged outside the plant premises.</p> <p>(e) Sanitary effluent is treated in septic tanks and soaks pits. Canteen waste is treated in Oil water separator and then used for greenery development.</p>
A (vii)	Permission for the drawl Of 6,120 m3/day from Asansol Durgapur Development Authority (ADDA) shall obtain.	As we are operating only BF and SP, permission for 2090 m3/day water has been obtained. Letter is attached in Annexure I from ADDA. (Letter no. ED/CA-79/04-05/1428, dt-19.07.05).
A (viii)	All the iron 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 environments-friendly manner. Waste oil shall be sold to authorized recyclers / preprocessors.	<p>(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.</p> <p>(b) All BF Slag is granulated and sold for Cement making.</p> <p>(c) No steel making slag is generated as we have not installed SMS and EAF.</p> <p>(d) Broken refractory mass is used as sub-base material for road making purpose inside the plant premises.</p> <p>(e) Waste Oil is being properly disposed through authorized agency M/s Ba-ma Oil Industries. Authorization letter is attached in Annexure II.</p>
A (ix)	A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.	<p>(a) We are disposing 100% Solid Waste generated from the plant in environment friendly manner.</p> <p>(b) Broken refractory mass is used as sub-</p>

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		base material for road making purpose inside the plant premises.
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.	Trees plantation is our ongoing process. Total 9805 nos. of saplings have been planted till 30 th September, 2019 and another around 9000 sapling shall be planted within the financial year 2019-20. Tree plantation will be developed in area already acquired outside plant premises and additional area will be acquired outside to reach 33% limit in consultation with DFO.
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. as a whole 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.	Already complied.

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 19 th 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. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceed.	(a) The emissions are within limits. Stack monitoring is being regularly conducted by NABL accredited laboratories. Online stack monitoring system installed in major stacks. Results are directly transmitted to WBPCB. Monitoring Results are attached in Annexure III . (b) Pollution Control equipment are a part of the operating process of plant.
B (iv)	In-plant control measures for checking fugitive emissions from all the vulnerable sources like spillage/raw materials /coal handling 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 design height conforming to the standards. Fugitive emissions shall be regularly monitored and	(a) Work environment monitoring is done as per direction of WBPCB. (b) Plant de-dusting system comprising of bag filters are provided to control fugitive dust in BF and Sinter Plant. Fixed Water Sprinkler provided in Ground hopper, Raw Material handling area, truck tippler. (c) Mobile Water Sprinkling Tanker deployed inside the plant premises at regular basis. (d) Centralized de-dusting system i.e. collection of fugitive emissions through suction hood and subsequent treatment through ESP and finally emitted through 40 m tall provided stack. (e) We are submitting the results of fugitive

SL	GENERAL CONDITION	COMPLIANCE STATUS
	records maintained.	emissions in work environment to this Ministry including its Regional office at Bhubaneswar / State Pollution control board (WBPCB) once in six months. The reports are attached in Annexure IV .
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 NO _x are anticipated in consultation with the WBPCB. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Bhubaneswar, WBPCB and CPCB once in six months.	(a) We established five ambient air quality monitoring stations at the near Main Gate, near Admin Building, near Boundary Wall (North-East side), near CPP Cooling Tower and near PCM boundary wall where we do the periodic (six monthly) environment monitoring by the NABL accredited external agency and records are submitted to this Ministry including its Regional Office at Bhubaneswar and WBPCB once in six month. The reports are attached in (Annexure V) . (b) We are doing periodic (Half yearly/Yearly) stack emission monitoring and records are submitted to this Ministry including its Regional Office at Bhubaneswar and WBPCB once in six month. The reports are attached in Annexure III .
B (vi)	Industrial waste water shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	Plant wastewater is treated and recycled for slag cooling, dust suppression and irrigation. 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 dBA) 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, 1989 viz. 75 dBA (daytime) and 70 dBA (night time).	Noise monitoring results attached. The ambient noise levels at plant boundary are below 75 dBA during day time and 70 dBA during night time. Noise levels in work environment are below 85 dBA. The results are attached in Annexure VI .
B (viii)	Occupational health surveillance of the workers shall be done on a regular	(a) All employees during induction are screened for their health by qualified doctors.

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	basis and records maintained as per the factories Act.	(b) Periodic health examination is carried out as per the prevailing rules. The test conducted is Routine parameters and Specific Parameters and is done by per 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.	<p>(a) We have augmented the existing Sumps where runoff within the plant is collected. This water is utilized in the plant for dust suppression during lean season.</p> <p>(b) No natural drainage is getting intercepted by the plant boundary and it is directed by peripheral drains outside.</p>
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.	<p>(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.</p> <p>(b) In addition, NML undertake the socio-economic development activities in the surrounding villages through this various programs like drinking water supply, improvement in village through infrastructure and sanitation development, health checkup camp, eye camp, blood donation camp, handicap camp, Skill development camp such as Stitching etc. are taken up on regular intervals.</p>
B (xi)	As proposed, Rs. 25.00 Crores and Rs. 6.00 Crores shall be earmarked towards capital cost and recurring cost/annum for environmental pollution control measures to implement the conditions stipulated by the Ministry of Environment, Forests & Climate Change as well as the state Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Ministry's Regional Office at Bhubaneswar. The funds so provided	For the existing plant consisting of MBF, Sinter Plant and CPP Rs. 13.39 Crores has been used as CAPEX for pollution control measures. (Refer Annexure VII)

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	should not be diverted for any other purpose.	
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 data along with statistical interpretation shall be submitted to them regularly.	Six-monthly EC condition compliance report is submitted to MOEF / WBPCB on regular basis.
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.

ANNEXURE I

KJA: MR D. GHOSH, HO, KOL.

ASANSOL DURGAPUR DEVELOPMENT AUTHORITY

(A Statutory body of the Government of West Bengal)

City Centre, Durgapur-713 216, West Bengal

Phone NOX DGP : (0343) 254 0815/ 254 0710

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/CN-79/04-05/1428

From

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

Date 13.7.05

To

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

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

Sir,

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

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

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

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

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

Thanking you.

Yours faithfully,

Chief Executive Officer,
Asansol Durgapur Dev. Authority.

13/7/2005

Ref. No. ADDA/DGP/

Dated

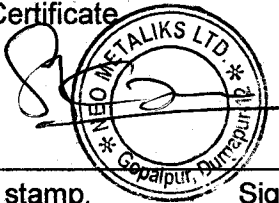
Copy forwarded to:-

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

Chief Executive Officer,
Asansol Durgapur Dev. Authority.

ANNEXURE II

FORM 10
{ See Rule 19 (1) }
MANIFEST FOR HAZARDOUS AND OTHER WASTE

1.	Sender's name and mailing address (including Phone No. and e-mail)	NEO METALIKS LTD, vill-Gopalpur, P.O. Gopalpur Dist- Burdwan.			
2.	Sender's authorisation No.	84/25(HW)-2497/2009			
3.	Manifest Document No.				
4.	Transporter's name and address : (including Phone No. e-mail)	BA-MA OIL INDUSTRIES, Panchayat Road, vill-Kharial, P.O. Dankuni C.C., Dist- Hooghly			
5.	Type of vehicle	(Truck/Tanker/Special Vehicle) mini vehicle			
6.	Transporter's registration No.	36/25(HW)-155/98-99			
7.	Vehicle registration No.	WB-15B/4431			
8.	Receiver's name and mailing address (including Phone No. and e-mail)	BA-MA OIL INDUSTRIES PANCHAYAT ROAD, VILL-KHARIAL P.O. DANKUNI CC. DIST.-HOOGHLY -712310 2674-1678, 2659-2183, bmoind@yahoo.co.in			
9.	Receiver's authorisation No.	36/25(HW)-155/98-99			
10.	Waste description	Waste Oil			
11.	Total quantity No. of Containers 610 Ltr. m ³ or MT 4 Nos.			
12.	Physical form	(Solid/ Semi Solid/ Sludge/Dirt/Tarry/Slurry/Liquid)			
13.	Special handling instructions and additional information	Handling with care			
14.	Sender's Certificate	 <p>I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.</p>			
15.	Name and stamp.	Signature	Month	Day	Year
			07	18	2019
15.	Transporter acknowledgement of receipt of wasges				
16.	Name and stamp.	Signature	Month	Day	Year
	BA-MA OIL INDUSTRIES Panchayat Road Vill: Kharial, P.O. Dankuni Dist: Hooghly	<i>S. Sander</i>	07	18	2019
16.	Receiver's certification for receipt of hazardous and other waste				
16.	Name and stamp.	Signature	Month	Day	Year
	BA-MA OIL INDUSTRIES Panchayat Road Vill: Kharial, P.O. Dankuni Dist: Hooghly	<i>S. Sander</i>	07	18	2019

Forwarded to WBPCB by sender,

ANNEXURE A

ANNEXURE A:		
Status of Charter on Corporate Responsibility for Environment Protection (CREP		
Sl	Action Points For Integrated Iron & Steel Industry.	Status at NML/ Action Plan.
1	Coke oven plant	
	a. To meet the parameters PLD (% leaking doors). PLL (% leaking lids).	Not applicable because we do not have the Coke Oven Plant.
	b. To rebuild at least 40% of the coke oven batteries in next 10 years (December 2012)	Not applicable because we do not have the Coke Oven Plant.
2	Steel Melting shop	Not applicable because we do not have the Steel Melting Shop
	Fugitive emission to reduce 30% within March 2004 and 100% in March 2008 (Including installation of secondary De-dusting facilities).	Not applicable because we do not have the Steel Melting Shop.
3	Blast furnace	
	Direct injection of reducing agent by June 2013 (C.D.I)	We are planning to retrofit PCI by Dec'19.
4	Solid waste / Hazardous waste	
	Utilization of steel Melting shop (SMS)/ Blast Furnace(BF) slag by: By 2004-70% By 2006-80% By 2008-100%	100% BF Slag is Sold for Cement making. 100% Dust Collected from Air Pollution Control Devices and Sludge from Gas Cleaning Plant is reused in the Sinter Plant.
5	Hazardous Waste Management	
	Charge of tar sludge & ETP sludge to Coke ovens by June' 03.	As we don't have Coke Oven plant, we are not generating any tar sludge or ETP sludge.
	Inventorization of hazardous waste as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. (Tar sludge, acid sludge, and waste Lubricating oil and type flue falls in the category of hazardous waste.	Tar Sludge and Acid Sludge are not generated in BF. Waste lubricating Oil is Sold to authorized re-processor.
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 in Annexure III.
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's are operated efficiently and record maintained. Compliance report in this regard is submitted to SPCB as Stipulated in CTO.
9		To implement the recommendations of Life Cycle Assessment (LCA) study sponsored by MOEF by December 2003.	Not Applicable as because no such recommendation of LCA Study is available in MOEF & CPCB Website.
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. Being a mini BF, 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).	We have installed fume extraction System in Cast House.
	d	Suppression of fugitive emissions using nitrogen gas or any other inert gas.	There is no fugitive emission of Hydro Carbon or Volatile Organic Compounds from the BF and Sinter Plant that requires suppression by using nitrogen gas or any other inert gas.

	e	To study the possibility of slag fly ash transportation back to the abandoned mines to fill up the cavities through empty railway wagons while they return back to the mines and its implementation.	We are Selling 100% Slag for cement making. We are not generating any Fly Ash.
	f	Processing of the waste containing flux & ferrous wastes through waste recycle plant.	We are reusing entire dust in sinter plant.
	g	To implement rain water harvesting.	We have made the water harvesting sumps 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	We have reduced the Power Consumption.
	2	Use of byproducts gases for power generation	The hot 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.	Complied.
	4	As regard to the conservation of energy and fuel, we are using the heat exchanger to recover the waste heat energy of flue gases.	From April-2018, we have successfully commissioned the recuperator for the utilization of waste heat from flue gases.
	i	To progressively set targets for resource conservation such as raw material, energy and water consumption to match international standards.	We are Converting the dust to Sinter and using the Sinter in BF. This is reducing the use of Iron Ore in BF and helping in resource Conservation. Our Water Consumption is 1849 M3 per day to make about 537 Tons of material (Approx. 3.44 m3 water consumption per ton of finished metal produced).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.	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.	<p>(a) To improve the house keeping within the plant premises, we are in practice of 5S implementation.</p> <p>(b) On regular basis cleaning of the spillage especially in RMHS and Ground hopper area is carried out.</p> <p>(c) The cleaned materials/dust particles are collected and sent for re-use in the Sinter process plant. This is being monitored regularly and the concerned department has been made responsible to maintain it.</p>

ANNEXURE III



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 :	Report No. : QLS/A/19-20/C/N-177
M/s. Neo Metaliks Ltd.	Date : 17.09.2019
Vill + P.O. : Gopalpur	Sample No. : QLS/A/19-20/N-177
P.S. : Kanksa, Durgapur	Sample Description : Stack Flue Gas
Paschim Bardhaman	Sample Mark : CPP
West Bengal – 713 212	Ref No. Date : 19-20/00333/WBFREV, Dated: 11.09.2019

Analysis Result

Date & Time of Sampling : 11.09.2019 at 11.30 A.M.	Sampling Procedures : EPA/IS
Sampling done by : S.Ghosh	
A : General Information of Stack:	
1 Stack connected to	: CPP
2 Emission due to	: Combustion FO & BF Gas
3 Material of construction of Stack	: MS
4 Shape of Stack	: Circular
5 Whether stack is provided with permanent platform	: Yes
6 Generation Capacity	: 4.5 MW
B : Physical Characteristic of Stack:	
1 Height of Stack from ground level	: 50.0 m
2 Diameter of Stack at bottom	: ---
3 Diameter of Stack at sampling point	: 1.4 m
4 Height of the sampling point from ground level	: 31.0 m
5 Area of Stack	: 1.54m ²
C : Analysis/Characteristic of Stack :	
1. Fuel used : BF Gas & Furnace Oil	2. Fuel consumption : BF Gas- 24000 m ³ /hr
D : Results of Sampling & Analysis of gaseous Emission :	
1 Temperature of emission (°C)	Result : 135 Method : EPA Part 2
2 Barometric pressure (mm of Hg)	: 755 EPA Part 2
3 Velocity of gas (m/sec)	: 11.11 EPA Part 2
4 Quantity of gas flow (Nm ³ /hr)	: 44638 EPA Part 2
5 Concentration of Carbon monoxide (%)	: Bellow 0.2 IS:13270-1992, Reaf : 2009
6 Concentration of Carbon dioxide (%)	: 8.2 IS:13270-1992, Reaf : 2009
7 Concentration of Sulphur dioxide (mg/Nm ³)	: 64.0 EPA Part-6
8 Concentration of Nitrogen dioxide (mg/Nm ³)	: 88.4 EPA Part-7
9 Concentration of Particulate Matters (mg/Nm ³)	: 27 at 12 % CO ₂ EPA Part 5
E : Pollution :	
Details of pollution control devices attached with the stack	: NIL
F : Remarks : Nil	

Report prepared By : R. Roy

for Qualissure Laboratory Services


(Benimadhab Gorai)
Authorised Signatory

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

TEST REPORT

Name & Address Of the Customer :	Report No.	: QLS/A/19-20/C/N-178
M/s. Neo Metaliks Ltd.	Date	: 17.09.2019
Vill + P.O. : Gopalpur	Sample No.	: QLS/A/19-20/N-178
P.S. : Kanksa,Durgapur	Sample Description	: Stack Flue Gas
Paschim Bardhaman	Sample Mark	: MBF Plant (Blast Furnace)
West Bengal – 713 212	Ref No. Date	: 19-20/00333/WBFREV, Dated: 11.09.2019

Analysis Result

Date & Time of Sampling : 11.09.2019 at 1.10 P.M	Sampling Procedures : EPA/IS
Sampling done by : S.Ghosh	
A : General Information of Stack:	
1 Stack connected to	: MBF Plant (Blast Furnace)
2 Emission due to	: Combustion BF Gas & Coke
3 Material of construction of Stack	: MS
4 Shape of Stack	: Circular
5 Whether stack is provided with permanent platform	: Yes
6 Generation Capacity	: ---
B : Physical Characteristic of Stack:	
1 Height of Stack from ground level	: 50.0 m
2 Diameter of Stack at bottom	: ---
3 Diameter of Stack at sampling point	: 2.29 m
4 Height of the sampling point from ground level	: 26.82 m
5 Area of Stack	: 4.1204 m ²
C : Analysis/Characteristic of Stack :	
1 Fuel used : BF Gas & Coke	2. Fuel consumption : 40000 m ³ /hr/stove & Coke-600 kg/T.
D : Results of Sampling & Analysis of gaseous Emission :	Result
1 Temperature of emission (°C)	: 170
2 Barometric pressure (mm of Hg)	: 755
3 Velocity of gas (m/sec)	: 7.94
4 Quantity of gas flow (Nm ³ /hr)	: 78647
5 Concentration of Carbon monoxide (%)	: Bellow 0.2
6 Concentration of Carbon dioxide (%)	: 8.6
7 Concentration of Sulphur dioxide (mg/Nm ³)	: 81.0
8 Concentration of Nitrogen dioxide (mg/Nm ³)	: 93.4
9 Concentration of Particulate Matters (mg/Nm ³)	: 32
E : Pollution :	
Details of pollution control devices attached with the stack	: Cyclone Separator & Bag Filter
F : Remarks :	Nil

Report prepared By : R. Roy

for Qualissure Laboratory Services


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TC-6271

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

TEST REPORT

Name & Address Of the Customer :	Report No. : QLS/A/19-20/C/N-179
M/s. Neo Metaliks Ltd.	Date : 17.09.2019
Vill + P.O. : Gopalpur	Sample No. : QLS/A/19-20/N-179
P.S. : Kanksa,Durgapur	Sample Description : Stack Flue Gas
Paschim Bardhaman	Sample Mark : Sinter Plant (Tail ESP)
West Bengal – 713 212	Ref No. Date : 19-20/00333/WBFREV, Dated: 11.09.2019

Analysis Result

Date & Time of Sampling : 12.09.2019 at 12.40 P.M.		Sampling Procedures : EPA/IS
Sampling done by : S.Ghosh		
A : General Information of Stack:		
1	Stack connected to	: Sinter Plant (Tail ESP)
2	Emission due to	: Process Activity
3	Material of construction of Stack	: MS
4	Shape of Stack	: Circular
5	Whether stack is provided with permanent platform	: Yes
6	Generation Capacity	: ---
B : Physical Characteristic of Stack:		
1	Height of Stack from ground level	: 40.0 m
2	Diameter of Stack at bottom	: ---
3	Diameter of Stack at sampling point	: 2.0 m
4	Height of the sampling point from ground level	: 35.0 m
5	Area of Stack	: 3.1429 m ²
C : Analysis/Characteristic of Stack :		
1	Fuel used : ---	2. Fuel consumption : ---
D : Results of Sampling & Analysis of gaseous Emission :		
	Result	Method
1	Temperature of emission (°C)	: 76 EPA Part 2
2	Barometric pressure (mm of Hg)	: 755 EPA Part 2
3	Velocity of gas (m/sec)	: 10.36 EPA Part 2
4	Quantity of gas flow (Nm ³ /hr)	: 99090 EPA Part 2
5	Concentration of Carbon monoxide (%)	: Bellow 0.2 IS:13270-1992, Reaf : 2009
6	Concentration of Carbon dioxide (%)	: 2.4 IS:13270-1992, Reaf : 2009
7	Concentration of Sulphur dioxide (mg/Nm3)	: <3.4 EPA Part-6
8	Concentration of Nitrogen dioxide (mg/Nm3)	: 48.8 EPA Part-7
9	Concentration of Particulate Matters (mg/Nm3)	: 23 EPA Part 5
E : Pollution :		
Details of pollution control devices attached with the stack		: ESP
F : Remarks : Nil		

Report prepared By :

for Qualissure Laboratory Services

(Benimadhab Gorai)
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ANNEXURE IV



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

TEST REPORT

Name & Address Of the Customer :	Report No. : QLS/A/19-20/C/N-185
M/s. Neo Metaliks Ltd.	Date : 17.09.2019
Vill + P.O. : Gopalpur	Sample No. : QLS/A/19-20/N-185
P.S. : Kanksa,Durgapur	Sample Description : Work Zone Monitoring
Paschim Bardhaman	Sample Mark : Near Tail ESP
West Bengal – 713 212	Ref No. Date : 19-20/00333/WBFREV, Dated: 11.09.2019

Analysis Result

Location : Near Tail ESP		Date of sampling : 11.09.2019	
Sampling Done by: J.Sahana/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 $\mu\text{g}/\text{m}^3$	1208	IS 5182 : Part.4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in $\mu\text{g}/\text{m}^3$	489	IS 5182: Part 23 : 2017
3	Sulphur dioxide (SO ₂) in $\mu\text{g}/\text{m}^3$	8.2	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$	43.8	IS: 5182 (Part- 6)-2006, RA-2017
NOTE: ----			

Report prepared By : R. Roy

for Qualissure Laboratory Services

(Benimadhab Gorai)
Authorized Signatory

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TEST REPORT

Name & Address Of the Customer :	Report No. : QLS/A/19-20/C/N-187
M/s. Neo Metaliks Ltd.	Date : 17.09.2019
Vill + P.O. : Gopalpur	Sample No. : QLS/A/19-20/N-187
P.S. : Kanksa,Durgapur	Sample Description : Work Zone Monitoring
Paschim Bardhaman	Sample Mark : Hot Metal Bay
West Bengal – 713 212	Ref No. Date : 19-20/00333/WBFREV, Dated: 11.09.2019

Analysis Result

Location : Hot Metal Bay		Date of sampling : 12.09.2019	
Sampling Done by: J.Sahana/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 $\mu\text{g}/\text{m}^3$	803	IS 5182 : Part.4-1999,(RA-2014)
2	Respirable Suspended Particulate Matter in $\mu\text{g}/\text{m}^3$	369	IS 5182: Part 23 : 2012
3	Sulphur dioxide (SO ₂) in $\mu\text{g}/\text{m}^3$	7.7	IS: 5182 (Part-2)-2001,(RA-2012)
4	Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$	38.8	IS: 5182 (Part- 6)-2012
NOTE: ----			

Report prepared By : R. Roy

for Qualissure Laboratory Services

(Benimadhab Gorai)
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ANNEXURE V



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

TEST REPORT

Name & Address Of the Customer :	Report No. : QLS/A/19-20/C/N-172
M/s. Neo Metaliks Ltd.	Date : 17.09.2019
Vill + P.O. : Gopalpur	Sample No. : QLS/A/19-20/N-172
P.S. : Kanksa,Durgapur	Sample Description : Ambient Air
Paschim Bardhaman	Sample Mark : PCM Side Boundary Wall
West Bengal – 713 212	Ref No. Date : 19-20/00333/WBFREV, Dated: 11.09.2019

Analysis Result

Location: PCM Side Boundary Wall			Date of sampling : 11.09.2019	
Sampling Done by: J.Sahana/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	88	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter PM _{2.5}) in µg/m ³	47	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO ₂) in µg/m3	9.1	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO ₂) in µg/m3	37.0	80	IS: 5182 (Part- 6)-2006, RA-2017
NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.				

Report prepared By : R. Roy

for Qualissure Laboratory Services

(Benimadhab Gorai)
Authorised Signatory

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TEST REPORT

Name & Address Of the Customer :	Report No. : QLS/A/19-20/C/N-173
M/s. Neo Metaliks Ltd.	Date : 17.09.2019
Vill + P.O. : Gopalpur	Sample No. : QLS/A/19-20/N-173
P.S. : Kanksa,Durgapur	Sample Description : Ambient Air
Paschim Bardhaman	Sample Mark : Near Main Gate
West Bengal – 713 212	Ref No. Date : 19-20/00333/WBFREV, Dated: 11.09.2019

Analysis Result

Location: Near Main Gate			Date of sampling : 11.09.2019	
Sampling Done by: J.Sahana/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	94	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter PM _{2.5} in µg/m ³	59	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO ₂) in µg/m ³	8.5	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO ₂) in µg/m ³	35.2	80	IS: 5182 (Part- 6)-2006, RA-2017
NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.				

Report prepared By : R. Roy

for Qualissure Laboratory Services

(Benimadhab Gorai)
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TEST REPORT

Name & Address Of the Customer :	Report No. : QLS/A/19-20/C/N-174
M/s. Neo Metaliks Ltd.	Date : 17.09.2019
Vill + P.O. : Gopalpur	Sample No. : QLS/A/19-20/N-174
P.S. : Kanksa,Durgapur	Sample Description : Ambient Air
Paschim Bardhaman	Sample Mark : Near Boundary Wall (North East Side)
West Bengal – 713 212	Ref No. Date : 19-20/00333/WBFREV, Dated: 11.09.2019

Analysis Result

Location: Near Boundary Wall (North East Side)			Date of sampling : 11.09.2019	
Sampling Done by: J.Sahana/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	83	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter PM _{2.5} in µg/m ³	46	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO ₂) in µg/m3	10.0	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO ₂) in µg/m3	36.3	80	IS: 5182 (Part- 6)-2006, RA-2017
NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.				

Report prepared By : R. Roy

for Qualissure Laboratory Services

(Benimadhab Gorai)
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TEST REPORT

Name & Address Of the Customer :	Report No. : QLS/A/19-20/C/N-175
M/s. Neo Metaliks Ltd.	Date : 17.09.2019
Vill + P.O. : Gopalpur	Sample No. : QLS/A/19-20/N-175
P.S. : Kanksa,Durgapur	Sample Description : Ambient Air
Paschim Bardhaman	Sample Mark : Near CPP Cooling Tower
West Bengal – 713 212	Ref No. Date : 19-20/00333/WBFREV, Dated: 11.09.2019

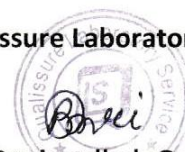
Analysis Result

Location: Near CPP Cooling Tower			Date of sampling : 12.09.2019	
Sampling Done by: J.Sahana/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	77	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter PM _{2.5}) in µg/m ³	45	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO ₂) in µg/m3	9.1	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO ₂) in µg/m3	31.9	80	IS: 5182 (Part- 6)-2006, RA-2017
NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.				

Report prepared By : R. Roy

for Qualissure Laboratory Services

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

TEST REPORT

Name & Address Of the Customer : M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. : QLS/A/19-20/C/N-176 Date : 17.09.2019 Sample No. : QLS/A/19-20/N-176 Sample Description : Ambient Air Sample Mark : Near Administrative Building Ref No. Date : 19-20/00333/WBFREV, Dated: 11.09.2019
---	---

Analysis Result

Location: Near Administrative Building			Date of sampling : 12.09.2019	
Sampling Done by: J.Sahana/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	82	100	IS: 5182 (Part-23), RA-2017
2	Particulate matter PM _{2.5}) in µg/m ³	45	60	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide (SO ₂) in µg/m ³	8.4	80	IS: 5182 (Part-2)-2001, RA-2017
4	Nitrogen dioxide (NO ₂) in µg/m ³	35.9	80	IS: 5182 (Part- 6)-2006, RA-2017
NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality.				

Report prepared By : R. Roy

for Qualissure Laboratory Services

(Benimadhab Gorai)
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ANNEXURE VI



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

TEST REPORT

Name & Address Of the Customer : M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212	Report No. : QLS/A/19-20/C/N-184 Date : 17.09.2019 Sample No. : QLS/A/19-20/N-184(A-D) Sample Description : Noise Monitoring Ref No. Date : 19-20/00333/WBFREV, Dated: 11.09.2019
---	--

Analysis Result of Noise

Sampling Done By: J.Sahana/S.Ghosh						
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
184A	11.09.2019	Near PCM Boundary Wall	61.0	65	54.8	55
184B	12.09.2019	Admin Building	62.2	65	51.7	55
184C	12.09.2019	Near CPP Area	63.5	65	54.6	55
184D	11.09.2019	Near Main Gate	64.1	65	53.2	55

Report Prepared By : Soumy Chakraborty

for Qualissure Laboratory Services



(Dr. Sutapa Bhowmik)
Authorized Signatory

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ANNEXURE VII

ANNEXURE- VII

DETAILS OF CAPITAL EXP. FOR ENVIRONMENTAL PROTECTION EQUIPMENTS		
SL. No.	Name of the Equipments	Amount (Rs. In Crores)
	MBF	
01	GAS CLEANING PLANT	3.80
02	VENTURY	
03	SATURATOR	
04	FUME EXTRACTION SYSTEMS	0.70
05	ALL MBF STACK (II , IV & V)	0.55
06	ONLINE STACK MONITERING SYSTEM	0.03
	CPP	
01	CPP STACK (III)	0.28
	SINTER	
01	ESP	7.25
02	BAG FILTER	0.40
03	STACK (I)	0.35
04	ONLINE STACK MONITERING SYSTEM	0.03
	TOTAL	13.39



ANNEXURE B

We would be happy to provide any further clarifications, if required, to facilitate Implementation of the recommendations.

We received full co-operation and active support from the officers and maintenance staff of the Gopalpur Plant, NEO METALIKS LTD.

2.0 Notes

This section presents a brief summary of the results of the Detailed Energy Audit 2016-17 carried out during August to September 2017. The study covered mainly scope for electrical & thermal energy savings in "NEO METALIKS LTD", located at Gopalpur, Durgapur, West Bengal with a focus mainly on proposals and recommendations, which require low, medium & high investments.

1. A team of specialist consultants including Certified Energy auditors BEE, Govt. of India and three assistant were involved in energy audit. The energy audit was mainly targeted at indentifying practical, sustainable and economically viable energy saving opportunities in all sections of the plant, resulting from a detailed study and analysis of technical parameters. The energy audit involved using a wide range of sophisticated, portable, diagnostic and measuring instruments to generate the data festinate in analysis to give a more reliable basis for evaluation of energy saving potential and economic Viability.
2. There is ample scope for Auxiliary power consumption reduction in Plant and if all the recommendation is implemented enough energy saving can be archive.
3. For techno – economic calculation purpose electricity rate of rupees 4.2/ KWH has been considerate.

5. The total proposed Annual energy saving is 25,80,579 KWH which corresponds to approximately 325.83KW load in respect of 7290 Total running hour's in a year . In the energy saving calculation we have considered energy cost as Rs 4.2/ KWH(DVC's/ unit average energy charge on monthly electric bill including all rebates etc) with Total Investment of Rs.115.61 Lakhs. In practice the savings may come 1/4th of the calculated saving shown in the proposal as the power cost of CPP is considered as Rs 1/ KWH and hence in most of the cases the payback period may be 4th times than what has been shown. But considering the plant condition of constrain in MBF gas this reduction in power consumption to the tune of approximately 280KW may be considered worth. Besides the annual energy saving there is approximately (2376+240+34848+647) =38111 tone of Yearly MBF gas saving which is Equivalent to approximately (161+16+2369+44) = 2590 TOE saving as shown in Proposal no. 10,12, 13&14.