



Park Plaza- 71, Park Street, 6F (Nonh Block) Kolkata - 700 016
Tel: +91 33 4050 4050 Fax: +91 33 2217 7317, E-mail: info@neometaliks.com
Website: www.neometaliks.com CIN: U27109WB2000PLC097231

To,

Date- 01/06/2020

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

Sub: Six Monthly Environmental Clearance Compliance Report for the period of October 2019 to March 2020 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 2019 to March 2020 of Neo Metaliks Ltd.

This is for your kind information.

Yours faithfully,

For Neo Metaliks

Authorized Signatory



Cc:

Dr. Suresh Babu Pasupuleti
Scientist- C (MoEF&CC)

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

ENVIRONMENTAL CLEARANCE COMPLIANCE
(OCTOBER - 2019 TO MARCH – 2020)

NEO METALIKS LTD.

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

**Environmental Clearance compliance report for the period
October– 2019 to March–2020
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. | <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 (SP) & 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 and used as fuel for CPP boilers to generate 4.5 MW captive power.</p> <p>(b) All the conveyors and transfer points have been enclosed.</p> <p>(c) Water sprinkling system (fixed and mobile type) has been provided at 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, dolomite 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 11345 nos. of trees have been planted. Another 3850 nos. of saplings shall be planted within the financial year 2020-21 including Natural 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 of April'19 to September'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 waste gases are routed through appropriate air pollution control devices like Gas Cleaning Plant (GCP) consist of dust catcher, saturator, ventury scrubber for BF, ESP and bag filters are attached with Sinter Plant. |
| 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. Fixed Water Sprinkler provided at Ground hoppers, raw material handling area, truck tippler and mobile Water Sprinkling Tanker deployed to suppress the fugitive dust at raw material stock yard and inside all the internal roads within the plant premises. |

| SL | SPECIFIC CONDITION | COMPLIANCE STATUS |
|-----------|---|--|
| | | (b) We have not installed EAF, IF, CCM and RM. |
| 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 emission through stacks and secondary fugitive emissions from blast furnace and sinter plant 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. |
| 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 fugitive dust emission at material handling/stock area and all the internal roads.</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 be strictly followed and no wastewater shall be discharged outside the premises. Domestic effluent shall be treated | <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 meet the domestic water requirement of staffs, workmen and security personnel.</p> |

| SL | SPECIFIC CONDITION | COMPLIANCE STATUS |
|----------|---|--|
| | in Sewage Treatment Plant (STP) and treated effluent shall be used for green belt development | <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 be obtained. | As we are operating only BF, SP and CPP. Permission for 2090 m3/day water has been obtained from ADDA. Letter is attached as Annexure I . (Letter no. ED/CA-79/04- 05/1428, dt-19.07.05). |
| 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 / 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. Annexure II</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 off through authorized agency; name M/s Ba-ma Oil Industries. Authorization letter is attached in Annexure III.</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) All BF Slag is granulated and sold for Cement making. Annexure II</p> <p>(c) Flue dust and GCP sludge are being used in sinter plant.</p> |

| SL | SPECIFIC CONDITION | COMPLIANCE STATUS |
|------------|--|--|
| | | (d) Broken refractory mass is used as sub-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 11345 nos. of saplings have been planted till 31 st March 2020 and another around 3850 sapling shall be planted within the financial year 2020 - 21. Tree plantation will be developed in area already acquired outside plant premises and additional area will be facilitated outside in consultation with land owner, gram Panchayet and DFO to reach 33% limit of green belt development. |
| 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. | 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. 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 laboratories. Online stack monitoring system installed in major stacks. Results are directly transmitted to WBPCB. Monitoring Results are attached in Annexure IV . (b) Pollution Control equipments 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 handlings etc. shall be provided. Further, specific measures like provision of dust suppression system consisting of water sprinkling, suction hoods, fans and bag filters etc. shall be installed at material transfer points and other raw material handling areas. Centralize de-dusting system i.e. collection of fugitive emissions through suction hood and subsequent treatment through bag filter or any other device and finally emitted through a stack of appropriate designed height conforming to the standards. Fugitive emissions | (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. 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 50 m tall provided stack. (e) We are submitting the results of fugitive |

| SL | GENERAL CONDITION | COMPLIANCE STATUS |
|----------|---|--|
| | shall be regularly monitored and 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 (bi 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 VI) . (b) We are doing periodic (Bi- monthly) 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 IV . |
| 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, mould cooling, gas cleaning plant, 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 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 VII . |
| B (viii) | Occupational health surveillance of the workers shall be done on a regular | (a) All employees during induction are screened medically by plant medical officer. . |

| SL | GENERAL CONDITION | COMPLIANCE STATUS |
|--------|--|---|
| | basis and records maintained as per the Factories Act. | (b) Periodic health examination is carried out as per the prevailing rules. The test conducted of Routine parameters and Specific Parameters 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. | <p>(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.</p> <p>(b) We have made roof top rain water harvesting reservoirs and the harvested rain water is being used in process, plantation, dust suppression etc.</p> <p>(c) 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 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 | 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 VIII |

| SL | GENERAL CONDITION | COMPLIANCE STATUS |
|----------|--|--|
| | 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. | |
| 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 submitted to MOEF / WBPCB on regular basis. Last submission done on 31.10. 2019. |
| 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, MO, KOL.

ASANSOL DURGAPUR DEVELOPMENT AUTHORITY

(A Statutory body of the Government of West Bengal)

City Centre, Durgapur-713 216, West Bengal

Phone FOR DGP : (0343) 254 0816/254 0710

Durgapur Office : 254-8889

Fax DGP : (0343) 254-0666

e-mail: dgp_addadgpr@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 19.7.05

To

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

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

Sir,

Please refer to your letter Ref. Nil. Dated 08.05.2004 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

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: 01/04/2018

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. Sitarampur, 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

- 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)
- 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.
- 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

Mahendra K Agarwalla
Proprietor

Proprietor

(Mahendra Kumar Agarwalla)

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. SITAMPUR, DIST. PASCHIM BARDHAMAN (W.B.)

Annexure- I

Date: 06/08/2018

List of Cement Manufacturing Units for which we have supplied G. Slag – purchased from Neo Metalik Ltd. For the period from 01/04/2015 to 31/03/2016

| | |
|------------------------------|----------------|
| 1) BCL | : 13959.660 MT |
| 2) Mangalpur Cement (P) Ltd. | : 1501.890 MT |
| 3) Sormistha Cement (P) Ltd. | : 2216.140 MT |
| 4) Manpasand Cement (P) Ltd. | : 1526.070 MT |
| 5) Shristi Cement Limited | : 1931.600 MT |

Total **21135.360 MT**

List of Cement Manufacturing Units for which we have supplied G. Slag – purchased from Neo Metalik Ltd. For the period from 01/04/2016 to 31/03/2017

| | |
|-----------------------------------|----------------|
| 1) BCL | : 11400.090 MT |
| 2) Burdwan Super Cements (P) Ltd. | : 5450.600 MT |
| 3) Mangalpur Cements (P) Ltd. | : 392.910 MT |
| 4) Bhawani Cements (P) Ltd. | : 1055.260 MT |
| 5) Mittal Concrete (P) Ltd | : 263.390 MT |
| 6) Fortune Cements (P) Ltd | : 268.840 MT |
| 7) G.D. Infra | : 388.040 MT |

Total **19219.130 MT**

List of Cement Manufacturing Units for which we have supplied G. Slag – purchased from Neo Metalik Ltd. For the period from 01/04/2017 to 31/03/2018

| | |
|---|---------------|
| 1) BCL | : 4121.300 MT |
| 2) Jagdamba Cements (P) Ltd. | : 495.490 MT |
| 3) Crescent Manufacturing Cement (P) Ltd. | : 1511.070 MT |
| 4) Burdwan Super Cement (P) Ltd. | : 998.260 MT |
| 5) Global leather Industries | : 167.960 MT |
| 6) Sormistha Cement (P) Ltd. | : 895.520 MT |

Total **8189.660 MT**

Yours faithfully,

For Balkrishna Trading Company

Mahendra K. Agarwalla

Proprietor

(Mahendra Kumar Agarwalla)

SIDDH ENTERPRISE

Rajasthan Road, Burnpur – 713325, Dt. Burdwan, West Bengal.
GST NO. 19ADCPA2984Q1Z2

Date: 01.04.18

To
M/s. Neo Metaliks Ltd
Park Plaza, 71, Park Street
Kolkata-700016

Kind Attn: Mr. AK Mukharjee,

Respected Sir,

Memorandum of Understanding For Purchase of Blast Furnace Slag

We, Siddh Enterprise located at Rajasthan Road, Narsingh Bandh, P.O. Burnpur – 713325, Dt. Paschim Bardhaman, 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

- 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.
- 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 yearend.
- Any other information which will be asked by the Neo Metaliks in respect of blast furnace slag.

Thanking You,

Yours faithfully,
for SIDDH ENTERPRISE

Prasen Kumar Dasgupta
Proprietor

SIDDH ENTERPRISE

Rajasthan Road, Burnpur - 713325, Dt. Burdwan, West Bengal.
GST NO. 19ADCPA2984Q1Z2

Date: 1.4.2018

To
Neo Metaliks Limited
Park Plaza,
Kolkata.

**Sub.: Name of Cement Manufacturing Units and details of Blast Furnace
Slag sold.**

Dear Sir,

With reference to the above subject I do hereby state that I have purchased a total of 5473.500 M.T. of Granulated Slag from you since 2015-16 and sold the same to cement manufacturers. The details are as below:

| Year | Quantity | Sold to party |
|---------|--------------|--------------------------|
| 2015-16 | 1416.17 M.T. | Shristi Cement Limited |
| 2016-17 | 2558.44 M.T. | Mittal Concrete Pvt Ltd. |
| 2017-18 | 1498.89 M.T. | City Cement Pvt Ltd. |


This is for your kind information and necessary action.

Thanking you,
Your Sincerely,
for SIDDH ENTERPRISE

Prasen K. Ghosh
Proprietor

ANNEXURE III

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 - Khariel - 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-15014431 | | | |
| 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/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> | | | |
| Name and stamp | | Signature | Month | Day | Year |
| | | | 07 | 18 | 2019 |
| 15. | Transporter acknowledgement of receipt of wasgas | | | | |
| Name and stamp | | Signature | Month | Day | Year |
| | | | 07 | 18 | 2019 |
| 16. | Receiver's certification of receipt of hazardous and other waste | | | | |
| Name and stamp | | Signature | Month | Day | Year |
| | | | 07 | 18 | 2019 |

Forwarded to WBPCB by sender.

ANNEXURE IV



Qualissure Laboratory Services

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IC-62/1

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

TEST REPORT

| | |
|---|--|
| Name & Address Of the Customer : | Report No. : QLS/A/19-20/C/N-358 |
| M/s. Neo Metaliks Ltd. | Date : 05.02.2020 |
| Vilt + P.O. : Gopalpur | Sample No. : QLS/A/19-20/N-358 |
| P.S. : Kanksa, Durgapur | Sample Description : Stack Flue Gas |
| Paschim Bardhaman | Sample Mark : CPP |
| West Bengal - 713 212 | Ref No. Date : W119Y-00103, Dated: 06.01.2020 |

Analysis Result

| | |
|---|--|
| Date & Time of Sampling : 22.01.2020 at 3.00 P.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 : | Result |
| 1. Temperature of emission (°C) | : 201 |
| 2. Barometric pressure (mm of Hg) | : 754 |
| 3. Velocity of gas (m/sec) | : 14.17 |
| 4. Quantity of gas flow (Nm ³ /hr) | : 48962 |
| 5. Concentration of Carbon monoxide (%) | : Bellow 0.2 |
| 6. Concentration of Carbon dioxide (%) | : 8.6 |
| 7. Concentration of Sulphur dioxide (mg/Nm ³) | : 40.3 |
| 8. Concentration of Nitrogen dioxide (mg/Nm ³) | : 73.9 |
| 9. Concentration of Particulate Matters (mg/Nm ³) | : 36 at 12 % CO ₂ |
| E : Pollution : | Method |
| Details of pollution control devices attached with the stack | : NIL |
| F : Remarks : Nil | |

Report Reviewed By : R. Roy

for Qualissure Laboratory Services

(Signature)
Authorized Signatory

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TC-6271

DOC NO : QLS/SAMP/08-8/00

TEST REPORT

| | | |
|---|---------------------------|---|
| Name & Address Of the Customer : | Report No. | : QLS/A/19-20/C/N-361 |
| M/s. Neo Metaliks Ltd. | Date | : 05.02.2020 |
| Vill + P.O. : Gopalpur | Sample No. | : QLS/A/19-20/N-361 |
| P.S. : Kanksa, Durgapur | Sample Description | : Stack Flue Gas |
| Paschim Bardhaman | Sample Mark | : MBF Plant (Blast Furnace) |
| West Bengal - 713 212 | Ref No. Date | : W219Y-00103, Dated: 06.01.2020 |

Analysis Result

| | | | |
|---|--|---|--------------------------|
| Date & Time of Sampling : 23.01.2020 at 1.40 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 | M5 | |
| 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 | Method |
| 1 | Temperature of emission (°C) | : 141 | EPA Part 2 |
| 2 | Barometric pressure (mm of Hg) | : 753 | EPA Part 2 |
| 3 | Velocity of gas (m/sec) | : 8.93 | EPA Part 2 |
| 4 | Quantity of gas flow (Nm ³ /hr) | : 94390 | EPA Part 2 |
| 5 | Concentration of Carbon monoxide (%) | : Below 0.2 | IS:13270-1992, Ref: 2009 |
| 6 | Concentration of Carbon dioxide (%) | : 8.2 | IS:13270-1992, Ref: 2009 |
| 7 | Concentration of Sulphur dioxide (mg/Nm ³) | : 90.2 | EPA Part-6 |
| 8 | Concentration of Nitrogen dioxide (mg/Nm ³) | : 87.0 | 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 | | : Cyclone Separator & Bag Filter | |
| F : Remarks : Nil. | | | |

Report Reviewed By : R. Roy

for Qualissure Laboratory Services



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TC-6271

NOC NO. QLS//SAMP/08-B/00

TEST REPORT

| | | |
|---|---------------------------|----------------------------------|
| Name & Address Of the Customer : | Report No. | : QLS/A/19-20/C/N-359 |
| M/s. Neo Metaliks Ltd. | Date | : 06.02.2020 |
| Vill + P.O. : Gopalpur | Sample No. | : QLS/A/19-20/N 359 |
| P.S. : Kanksa, Durgapur | Sample Description | : Stack Flue Gas |
| Paschim Bardhaman | Sample Mark | : Sinter Plant (Head ESP) |
| West Bengal - 713 212 | Ref No. Date | : W119Y-00103. Dated: 06.01.2020 |

Analysis Result

| | | | |
|---|--|---|----------------------------|
| Date & Time of Sampling : 22.02.2020 at 12.00 P.M. | | Sampling Procedures : EPA/IS | |
| Sampling done by : S Ghosh | | | |
| A : General Information of Stack: | | | |
| 1 | Stack connected to | : Sinter Plant (Head ESP) | |
| 2 | Emission due to | : Combustion BF Gas | |
| 3 | Material of construction of Stack | : MS | |
| 4 | Shape of Stack | : Circular | |
| 5 | Whether stack is provided with permanent platform | : Yes | |
| 6 | Generation Capacity | : ---- | |
| B : Physical Characteristic of Stack: | | | |
| 1 | Height of Stack from ground level | : 50.0 m | |
| 2 | Diameter of Stack at bottom | : ---- | |
| 3 | Diameter of Stack at sampling point | : 2.2 m | |
| 4 | Height of the sampling point from ground level | : 37.25 m | |
| 5 | Area of Stack | : 3.8029 m ² | |
| C : Analysis/Characteristic of Stack : | | | |
| 1 | Fuel used : BF Gas | 2. Fuel consumption : 2000 m 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) | : 754 | EPA Part 2 |
| 3 | Velocity of gas (m/sec) | : 10.31 | EPA Part 2 |
| 4 | Quantity of gas flow (Nm ³ /hr) | : 103210 | EPA Part 2 |
| 5 | Concentration of Carbon monoxide (%) | : Reflow 0.2 | IS:13270-1992, Reaf : 2009 |
| 6 | Concentration of Carbon dioxide (%) | : 6.0 | IS:13270-1992, Reaf : 2009 |
| 7 | Concentration of Sulphur dioxide (mg/Nm ³) | : 37.4 | EPA Part-6 |
| 8 | Concentration of Nitrogen dioxide (mg/Nm ³) | : 69.7 | EPA Part-7 |
| 9 | Concentration of Particulate Matters (mg/Nm ³) | : 53 | EPA Part 5 |
| E : Pollution : | | | |
| Details of pollution control devices attached with the stack | | : ESP | |
| F : Remarks : Nil | | | |

Report Reviewed By : R. Roy

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TC-6271

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

TEST REPORT

| | |
|---|--|
| Name & Address Of the Customer : | Report No. : QLS/A/19-20/C/N-357 |
| M/s. Neo Metalliks Ltd. | Date : 05.02.2020 |
| Vill + P.O. : Gopalpur | Sample No. : QLS/A/19-20/N-357 |
| P.S. : Kanksa, Durgapur | Sample Description : Stack Flue Gas |
| Paschim Bardhaman | Sample Mark : DG Set 1250 kVA |
| West Bengal - 713 212 | Ref No. Date : W119Y-00103, Dated: 06.01.2020 |

Analysis Result

| | |
|---|-------------------------------------|
| Date & Time of Sampling : 20.01.2020 at 12.00 P.M. | Sampling Procedures : EPA/IS |
| Sampling done by : S. Ghosh | |

A : General Information of Stack:

| | |
|--|-------------------|
| 1. Stack connected to | : DG Set-1250 kVA |
| 2. Emission due to | : Combustion HSD |
| 3. Material of construction of Stack | : MS |
| 4. Shape of Stack | : Circular |
| 5. Whether stack is provided with permanent platform | : Yes |
| 6. Generation Capacity | : 1250 kVA |

B : Physical Characteristic of Stack:

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

C : Analysis/Characteristic of Stack :

| | |
|--------------------|---------------------------------|
| 1. Fuel used : HSD | 2. Fuel consumption : 30 lit/hr |
|--------------------|---------------------------------|

D : Results of Sampling & Analysis of gaseous Emission :

| | Result | Method |
|---|-------------|--------------------------|
| 1. Temperature of emission (°C) | : 190 | EPA Part 2 |
| 2. Barometric pressure (mm of Hg) | : 754 | EPA Part 2 |
| 3. Velocity of gas (m/sec) | : 15.81 | EPA Part 2 |
| 4. Quantity of gas flow (Nm ³ /hr) | : 1785 | EPA Part 2 |
| 5. Concentration of Carbon monoxide (%) | : Below 0.2 | IS:13270-1992, Ref: 2009 |
| 6. Concentration of Carbon dioxide (%) | : 6.0 | IS:13270-1992, Ref: 2009 |
| 7. Concentration of Sulphur dioxide (mg/Nm ³) | : 7.0 | EPA Part-6 |
| 8. Concentration of Nitrogen dioxide (mg/Nm ³) | : 19.1 | 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 | : NIL |
|--|-------|

F : Remarks : Nil

Report Reviewed By : R. Roy

for Qualissure Laboratory Services

(Benimadhab Gorai)
Authorised Signatory

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TC-6271

DOC NO : QIS/SAMP/08 B/00

TEST REPORT

| | | |
|---|---------------------------|---------------------------------------|
| Name & Address Of the Customer : | Report No. | QIS/A/19-20/C/N-356 |
| M/s. Neo Metaliks Ltd. | Date | 05.07.2020 |
| Vill + P.O. : Gopalpur | Sample No. | QIS/A/19-20/N-356 |
| P.S. : Kanksa,Durgapur | Sample Description | Stack Flue Gas |
| Paschim Bardhaman | Sample Mark | DG Set(1500 kVA) |
| West Bengal – 713 212 | Ref No. Date | W119Y-00103. Dated: 06.01 2020 |

Analysis Result

| | | | |
|---|--|----------------------------------|--------------------------|
| Date & Time of Sampling : 20.01.2020 at 3.10 P.M. | | Sampling Procedures : EPA/IS | |
| Sampling done by : S.Ghosh | | | |
| A : General Information of Stack: | | | |
| 1 | Stack connected to | : DG Set-1500 kVA | |
| 2 | Emission due to | : Combustion HSD | |
| 3 | Material of construction of Stack | : MS | |
| 4 | Shape of Stack | : Circular | |
| 5 | Whether stack is provided with permanent platform | : Yes | |
| 6 | Generation Capacity | : 1500 kVA | |
| B : Physical Characteristic of Stack: | | | |
| 1 | Height of Stack from ground level | : 30.0 m | |
| 2 | Diameter of Stack at bottom | : — | |
| 3 | Diameter of Stack at sampling point | : 0.25 m | |
| 4 | Height of the sampling point from ground level | : 7.62 m | |
| 5 | Area of Stack | : 0.0491m ² | |
| C : Analysis/Characteristic of Stack: | | | |
| 1 | Fuel used : HSD | 2. Fuel consumption : 276 lit/hr | |
| D : Results of Sampling & Analysis of gaseous Emission : | | Result | Method |
| 1 | Temperature of emission (°C) | : 275 | EPA Part 7 |
| 2 | Barometric pressure (mm of Hg) | : 754 | EPA Part 2 |
| 3 | Velocity of gas (m/sec) | : 16.92 | EPA Part 2 |
| 4 | Quantity of gas flow (Nm ³ /hr) | : 1624 | EPA Part 2 |
| 5 | Concentration of Carbon monoxide (%) | : Below 0.1 | IS:13270-1992, Ref: 2009 |
| 6 | Concentration of Carbon dioxide (%) | : 5.8 | IS:13270-1992, Ref: 2009 |
| 7 | Concentration of Sulphur dioxide (mg/Nm ³) | : 12.8 | EPA Part-6 |
| 8 | Concentration of Nitrogen dioxide (mg/Nm ³) | : 23.3 | 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 | | : Nil | |
| F : Remarks : Nil | | | |

Report Reviewed By : R. R. R.

for Qualissure Laboratory Services


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Authorised Signatory

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TEST REPORT

| | |
|---|---|
| Name & Address Of the Customer : | Report No. : QLS/A/19-20/C/N-510 |
| M/s. Neo Metaliks Ltd. | Date : 12.05.2020 |
| Vill + P.O. : Gopalpur | Sample No. : QLS/A/19-20/N-510 |
| P.S. : Kanksa, Durgapur | Sample Description : Stack Flue Gas |
| Paschim Bardhaman | Sample Mark : CPP |
| West Bengal – 713 212 | Ref No. Date : W119Y-00103, Dated: 06.01.2020 |

Analysis Result

| | | |
|---|--|--|
| Date & Time of Sampling : 20.03.2020 at 11.30 A.M. | | Sampling Procedures : EPA/IS |
| Sampling done by : C.Sahoo | | |
| 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 : | | |
| | Result | Method |
| 1 | Temperature of emission (°C) | : 190 EPA Part 2 |
| 2 | Barometric pressure (mm of Hg) | : 749 EPA Part 2 |
| 3 | Velocity of gas (m/sec) | : 10.47 EPA Part 2 |
| 4 | Quantity of gas flow (Nm ³ /hr) | : 41230 EPA Part 2 |
| 5 | Concentration of Carbon monoxide (%) | : Bellow 0.2 IS:13270-1992, Reaf : 2009 |
| 6 | Concentration of Carbon dioxide (%) | : 8.4 IS:13270-1992, Reaf : 2009 |
| 7 | Concentration of Sulphur dioxide (mg/Nm3) | : 57.2 EPA Part-6 |
| 8 | Concentration of Nitrogen dioxide (mg/Nm3) | : 78.3 EPA Part-7 |
| 9 | Concentration of Particulate Matters (mg/Nm3) | : 27 at 12 % CO ₂ EPA Part 5 |
| E : Pollution : | | |
| | Details of pollution control devices attached with the stack | : NIL |
| F : Remarks : Nil | | |

Report Reviewed By : R. Roy

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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-512 |
| M/s. Neo Metaliks Ltd. | Date : 12.05.2020 |
| Vill + P.O. : Gopalpur | Sample No. : QLS/A/19-20/N-512 |
| P.S. : Kanksa, Durgapur | Sample Description : Stack Flue Gas |
| Paschim Bardhaman | Sample Mark : MBF Plant (Blast Furnace) |
| West Bengal – 713 212 | Ref No. Date : W119Y-00103, Dated: 06.01.2020 |

Analysis Result

| | |
|---|---|
| Date & Time of Sampling : 20.03.2020 at 12.50 P.M. | Sampling Procedures : EPA/IS |
| Sampling done by : C.Sahoo | |
| 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) | : 173 |
| 2 Barometric pressure (mm of Hg) | : 749 |
| 3 Velocity of gas (m/sec) | : 9.08 |
| 4 Quantity of gas flow (Nm ³ /hr) | : 88732 |
| 5 Concentration of Carbon monoxide (%) | : Bellow 0.2 |
| 6 Concentration of Carbon dioxide (%) | : 8.4 |
| 7 Concentration of Sulphur dioxide (mg/Nm ³) | : 70.9 |
| 8 Concentration of Nitrogen dioxide (mg/Nm ³) | : 57.7 |
| 9 Concentration of Particulate Matters (mg/Nm ³) | : 52 |
| E : Pollution : | |
| Details of pollution control devices attached with the stack | : Cyclone Separator & Bag Filter |
| F : Remarks : Nil | |

Report Reviewed By : R. Roy

for Qualissure Laboratory Services



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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-515 |
| M/s. Neo Metaliks Ltd. | Date : 12.05.2020 |
| Vill + P.O. : Gopalpur | Sample No. : QLS/A/19-20/N-515 |
| P.S. : Kanksa, Durgapur | Sample Description : Stack Flue Gas |
| Paschim Bardhaman | Sample Mark : Sinter Plant (Head ESP) |
| West Bengal – 713 212 | Ref No. Date : W119Y-00103, Dated: 06.01.2020 |

Analysis Result

| | | |
|---|---|---|
| Date & Time of Sampling : 19.03.2020 at 11.50 A.M. | | Sampling Procedures : EPA/IS |
| Sampling done by : C.Sahoo | | |
| 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 : 2000 m ³ /hr |
| D : Results of Sampling & Analysis of gaseous Emission : | | <u>Result</u> |
| 1 | Temperature of emission (°C) | : 143 |
| 2 | Barometric pressure (mm of Hg) | : 749 |
| 3 | Velocity of gas (m/sec) | : 10.33 |
| 4 | Quantity of gas flow (Nm ³ /hr) | : 99692 |
| 5 | Concentration of Carbon monoxide (%) | : Bellow 0.2 |
| 6 | Concentration of Carbon dioxide (%) | : 6.2 |
| 7 | Concentration of Sulphur dioxide (mg/Nm3) | : 26.7 |
| 8 | Concentration of Nitrogen dioxide (mg/Nm3) | : 61.7 |
| 9 | Concentration of Particulate Matters (mg/Nm3) | : 44 |
| E : Pollution : | | |
| Details of pollution control devices attached with the stack | | : ESP |
| F : Remarks : Nil | | |

Report Reviewed By : R. Roy

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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-514 |
| M/s. Neo Metaliks Ltd. | Date : 12.05.2020 |
| Vill + P.O. : Gopalpur | Sample No. : QLS/A/19-20/N-514 |
| P.S. : Kanksa, Durgapur | Sample Description : Stack Flue Gas |
| Paschim Bardhaman | Sample Mark : DG Set(1250 kVA) |
| West Bengal – 713 212 | Ref No. Date : W119Y-00103, Dated: 06.01.2020 |

Analysis Result

| | | | |
|---|---|------------------------------|------------------------------|
| 1Date & Time of Sampling : 19.03.2020 at 02.00 P.M. | | Sampling Procedures : EPA/IS | |
| Sampling done by : C.Sahoo | | | |
| 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 : | | <u>Result</u> | <u>Method</u> |
| 1 | Temperature of emission (°C) | : 267 | EPA Part 2 |
| 2 | Barometric pressure (mm of Hg) | : 749 | EPA Part 2 |
| 3 | Velocity of gas (m/sec) | : 16.59 | EPA Part 2 |
| 4 | Quantity of gas flow (Nm ³ /hr) | : 1592 | EPA Part 2 |
| 5 | Concentration of Carbon monoxide (%) | : Bellow 0.2 | IS:13270-1992, Reaf : 2009 |
| 6 | Concentration of Carbon dioxide (%) | : 5.8 | IS:13270-1992, Reaf : 2009 |
| 7 | Concentration of Sulphur dioxide (mg/Nm3) | : <3.4 | EPA Part-6 |
| 8 | Concentration of Nitrogen dioxide (mg/Nm3) | : 21.9 | EPA Part-7 |
| 9 | Concentration of Particulate Matters (mg/Nm3) | : 22 | EPA Part 5 |
| E : Pollution : | | | |
| Details of pollution control devices attached with the stack | | : | NIL |
| F : Remarks : Nil | | | |

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for Qualissure Laboratory Services



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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-513 |
| M/s. Neo Metaliks Ltd. | Date : 12.05.2020 |
| Vill + P.O. : Gopalpur | Sample No. : QLS/A/19-20/N-513 |
| P.S. : Kanksa, Durgapur | Sample Description : Stack Flue Gas |
| Paschim Bardhaman | Sample Mark : DG Set(1500 kVA) |
| West Bengal – 713 212 | Ref No. Date : W119Y-00103, Dated: 06.01.2020 |

Analysis Result

| | | |
|---|---|----------------------------------|
| Date & Time of Sampling : 19.03.2020 at 4.20 P.M. | | Sampling Procedures : EPA/IS |
| Sampling done by : C.Sahoo | | |
| 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 : | | <u>Result</u> |
| 1 | Temperature of emission (°C) | : 266 |
| 2 | Barometric pressure (mm of Hg) | : 749 |
| 3 | Velocity of gas (m/sec) | : 16.46 |
| 4 | Quantity of gas flow (Nm ³ /hr) | : 1587 |
| 5 | Concentration of Carbon monoxide (%) | : Bellow 0.2 |
| 6 | Concentration of Carbon dioxide (%) | : 5.0 |
| 7 | Concentration of Sulphur dioxide (mg/Nm3) | : 6.7 |
| 8 | Concentration of Nitrogen dioxide (mg/Nm3) | : 27.7 |
| 9 | Concentration of Particulate Matters (mg/Nm3) | : 31 |
| E : Pollution : | | |
| Details of pollution control devices attached with the stack | | : Nil |
| F : Remarks : Nil | | |

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ANNEXURE V



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TC-6271

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

TEST REPORT

| | |
|---|--|
| Name & Address Of the Customer : | Report No. : QLS/A/19-20/C/N-364 |
| M/s. Neo Metaliks Ltd. | Date : 05.02.2020 |
| Vill + P.O. : Gopalpur | Sample No. : QLS/A/19-20/N-364 |
| P.S. : Kanksa,Durgapur | Sample Description : Work Zone Monitoring |
| Paschim Bardhaman | Sample Mark : Ground Hopper |
| West Bengal - 713 212 | Ref No. Date : W119Y-00103, Dated: 06.01.2020 |

Analysis Result

| Location : Ground Hopper | | Date of sampling : 22.01.2020 | |
|---|---|---|----------------------------------|
| 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 $\mu\text{g}/\text{m}^3$ | 963 | IS 5182 : Part-4-1999,(HA-2014) |
| 2 | Respirable Suspended Particulate Matter in $\mu\text{g}/\text{m}^3$ | 415 | IS 5182, Part 23 : 2012 |
| 3 | Sulphur dioxide (SO_2) in $\mu\text{g}/\text{m}^3$ | 9.7 | IS: 5182 (Part-2)-2001,(RA-2012) |
| 4 | Nitrogen dioxide (NO_2) in $\mu\text{g}/\text{m}^3$ | 40.9 | IS: 5182 (Part- 6)-2012 |
| NOTE: ---- | | | |

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TC-6271

DOC NO : QLS/SAMP/08 A/00

TEST REPORT

| | | |
|---|---------------------------|--------------------------------|
| Name & Address Of the Customer : | Report No. | QLS/A/19-20/C/N-363 |
| | Date | 05.02.2020 |
| M/s. Neo Metaliks Ltd. | Sample No. | QLS/A/19-20/N-363 |
| Vill + P.O. : Gopalpur | Sample Description | Work Zone Monitoring |
| P.S. : Kanksa, Durgapur | Sample Mark | Near Head ESP |
| Paschim Bardhaman | Ref No. Date | W119Y 00103, Dated: 06.01.2020 |
| West Bengal - 713 212 | | |

Analysis Result

| Location : Near Head ESP | | Date of sampling : 20.01.2020 | |
|---|---|---|----------------------------------|
| 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 $\mu\text{g}/\text{m}^3$ | 1384 | IS 5182 : Part-4-1999,(RA-2014) |
| 2 | Respirable Suspended Particulate Matter in $\mu\text{g}/\text{m}^3$ | 639 | IS 5182: Part 23 : 2017 |
| 3 | Sulphur dioxide (SO_2) in $\mu\text{g}/\text{m}^3$ | 10.0 | IS: 5182 (Part-2)-2001, RA-2017 |
| 4 | Nitrogen dioxide (NO_2) in $\mu\text{g}/\text{m}^3$ | 41.4 | IS: 5182 (Part- 6)-2006, RA-2017 |
| NOTE: ---- | | | |

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TC-6271

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

TEST REPORT

| | | |
|---|---------------------------|----------------------------------|
| Name & Address Of the Customer : | Report No. | - QLS/A/19-20/C/N-362 |
| M/s. Neo Metaliks Ltd. | Date | : 05.02.2020 |
| Vill + P.O. : Gopalpur | Sample No. | : QLS/A/19-20/N-362 |
| P.S. : Kanksa, Durgapur | Sample Description | : Work Zone Monitoring |
| Paschim Bardhaman | Sample Mark | : Near Tail ESP |
| West Bengal - 713 212 | Ref No. Date | : W119Y 00103, Dated: 06.01.2020 |

Analysis Result

| Location : Near Tail ESP | | Date of sampling : 20.01.2020 | |
|---|---|---|----------------------------------|
| 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 $\mu\text{g}/\text{m}^3$ | 1390 | IS 5182 : Part.4-1959,(RA-2014) |
| 2 | Respirable Suspended Particulate Matter in $\mu\text{g}/\text{m}^3$ | 573 | IS 5182: Part 23 : 2017 |
| 3 | Sulphur dioxide (SO_2) in $\mu\text{g}/\text{m}^3$ | 10.3 | IS: 5182 (Part-2) 2001, RA-2017 |
| 4 | Nitrogen dioxide (NO_2) in $\mu\text{g}/\text{m}^3$ | 39.7 | IS: 5182 (Part- G) 2006, RA 2017 |
| NOTE: ---- | | | |

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TC-6271

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

TEST REPORT

| | | |
|---|---------------------------|---|
| Name & Address Of the Customer : | Report No. | : QLS/A/19-20/C/N-365 |
| M/s. Neo Metafiks Ltd. | Date | : 05.02.2020 |
| Vill + P.O. : Gopalpur | Sample No. | : QLS/A/19-20/N-365 |
| P.S. : Kanksa, Durgapur | Sample Description | : Work Zone Monitoring |
| Paschim Bardhaman | Sample Mark | : Hot Metal Bay |
| West Bengal – 713 212 | Ref No. Date | : W119Y-00103, Dated: 06.01.2020 |

Analysis Result

| Location : Hot Metal Bay | | Date of sampling : 23.01.2020 | |
|---|---|---|----------------------------------|
| 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 $\mu\text{g}/\text{m}^3$ | 694 | IS 5182 : Part-4-1999,(RA-2014) |
| 2 | Respirable Suspended Particulate Matter in $\mu\text{g}/\text{m}^3$ | 247 | IS 5182: Part 23 : 2012 |
| 3 | Sulphur dioxide (SO_2) in $\mu\text{g}/\text{m}^3$ | 10.7 | IS: 5182 (Part 2)-2001,(RA-2012) |
| 4 | Nitrogen dioxide (NO_2) in $\mu\text{g}/\text{m}^3$ | 40.7 | IS: 5182 (Part- 6)-2012 |
| NOTE: ---- | | | |

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(Signature)

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TEST REPORT

| | |
|---|---|
| Name & Address Of the Customer : | Report No. : QLS/A/19-20/C/N-522 |
| M/s. Neo Metaliks Ltd. | Date : 12.05.2020 |
| Vill + P.O. : Gopalpur | Sample No. : QLS/A/19-20/N-522 |
| P.S. : Kanksa, Durgapur | Sample Description : Work Zone Monitoring |
| Paschim Bardhaman | Sample Mark : Ground Hopper |
| West Bengal – 713 212 | Ref No. Date : W119Y-00103, Dated: 06.01.2020 |

Analysis Result

| Location : Ground Hopper | | Date of sampling : 21.03.2020 | |
|---|---|---|----------------------------------|
| 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 $\mu\text{g}/\text{m}^3$ | 634 | IS 5182 : Part.4-1999,(RA-2014) |
| 2 | Respirable Suspended Particulate Matter in $\mu\text{g}/\text{m}^3$ | 398 | IS 5182: Part 23 : 2012 |
| 3 | Sulphur dioxide (SO ₂) in $\mu\text{g}/\text{m}^3$ | 9.0 | IS: 5182 (Part-2)-2001,(RA-2012) |
| 4 | Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$ | 37.8 | IS: 5182 (Part- 6)-2012 |
| NOTE: ---- | | | |

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TEST REPORT

| | |
|---|---|
| Name & Address Of the Customer : | Report No. : QLS/A/19-20/C/N-523 |
| M/s. Neo Metaliks Ltd. | Date : 12.05.2020 |
| Vill + P.O. : Gopalpur | Sample No. : QLS/A/19-20/N-523 |
| P.S. : Kanksa,Durgapur | Sample Description : Work Zone Monitoring |
| Paschim Bardhaman | Sample Mark : Near Head ESP |
| West Bengal – 713 212 | Ref No. Date : W119Y-00103, Dated: 06.01.2020 |

Analysis Result

| Location : Near Head ESP | | Date of sampling : 19.03.2020 | |
|---|---|---|----------------------------------|
| 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 $\mu\text{g}/\text{m}^3$ | 1745 | IS 5182 : Part.4-1999,(RA-2014) |
| 2 | Respirable Suspended Particulate Matter in $\mu\text{g}/\text{m}^3$ | 834 | IS 5182: Part 23 : 2017 |
| 3 | Sulphur dioxide (SO ₂) in $\mu\text{g}/\text{m}^3$ | 9.8 | IS: 5182 (Part-2)-2001, RA-2017 |
| 4 | Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$ | 38.3 | IS: 5182 (Part- 6)-2006, RA-2017 |
| NOTE: ---- | | | |

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TEST REPORT

| | |
|---|---|
| Name & Address Of the Customer : | Report No. : QLS/A/19-20/C/N-524 |
| M/s. Neo Metaliks Ltd. | Date : 12.05.2020 |
| Vill + P.O. : Gopalpur | Sample No. : QLS/A/19-20/N-524 |
| P.S. : Kanksa,Durgapur | Sample Description : Work Zone Monitoring |
| Paschim Bardhaman | Sample Mark : Near Tail ESP |
| West Bengal – 713 212 | Ref No. Date : W119Y-00103, Dated: 06.01.2020 |

Analysis Result

| Location : Near Tail ESP | | Date of sampling : 19.03.2020 | |
|---|---|---|----------------------------------|
| 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 $\mu\text{g}/\text{m}^3$ | 1272 | IS 5182 : Part.4-1999,(RA-2014) |
| 2 | Respirable Suspended Particulate Matter in $\mu\text{g}/\text{m}^3$ | 660 | IS 5182: Part 23 : 2017 |
| 3 | Sulphur dioxide (SO ₂) in $\mu\text{g}/\text{m}^3$ | 9.3 | IS: 5182 (Part-2)-2001, RA-2017 |
| 4 | Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$ | 36.5 | 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 : | Report No. : QLS/A/19-20/C/N-525 |
| M/s. Neo Metaliks Ltd. | Date : 12.05.2020 |
| Vill + P.O. : Gopalpur | Sample No. : QLS/A/19-20/N-525 |
| P.S. : Kanksa,Durgapur | Sample Description : Work Zone Monitoring |
| Paschim Bardhaman | Sample Mark : Hot Metal Bay |
| West Bengal – 713 212 | Ref No. Date : W119Y-00103, Dated: 06.01.2020 |

Analysis Result

| Location : Hot Metal Bay | | Date of sampling : 19.03.2020 | |
|---|---|---|----------------------------------|
| 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 $\mu\text{g}/\text{m}^3$ | 583 | IS 5182 : Part.4-1999,(RA-2014) |
| 2 | Respirable Suspended Particulate Matter in $\mu\text{g}/\text{m}^3$ | 357 | IS 5182: Part 23 : 2012 |
| 3 | Sulphur dioxide (SO ₂) in $\mu\text{g}/\text{m}^3$ | 9.2 | IS: 5182 (Part-2)-2001,(RA-2012) |
| 4 | Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$ | 33.9 | IS: 5182 (Part- 6)-2012 |
| NOTE: ---- | | | |

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ANNEXURE VI



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TC-6273

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

TEST REPORT

| | | |
|---|---------------------------|----------------------------------|
| Name & Address Of the Customer : | Report No. | : QLS/A/19-20/C/N-355 |
| M/s. Neo Metalliks Ltd. | Date | : 05.02.2020 |
| Vill + P.O. : Gopalpur | Sample No. | : QLS/A/19-20/N-355 |
| P.S. : Kankra, Durgapur | Sample Description | : Ambient Air |
| Paschim Bardhaman | Sample Mark | : Near CPP Cooling Tower |
| West Bengal - 713 212 | Ref No. Date | : W119Y-00103, Dated: 06.01.2020 |

Analysis Result

| Location: Near CPP Cooling Tower | | | Date of sampling : 23.01.2020-24.01.2020 | |
|---|---|--------|---|----------------------------------|
| 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 | 80 | 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/m ³ | 9.6 | 80 | IS: 5182 (Part-2) 2001, RA-2017 |
| 4 | Nitrogen dioxide (NO ₂) in µg/m ³ | 35.5 | 80 | IS: 5182 (Part- 6)-2006, RA-2017 |
| 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. Vih + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212 | Report No. : QLS/A/19-20/C/N-352 Date : 05.02.2020 Sample No. : QLS/A/19-20/N-352 Sample Description : Ambient Air Sample Mark : Near Main Gate Ref No. Date : W119Y-00103, Dated: 06.01.2020 |
|--|--|

Analysis Result

| Location: Near Main Gate | | Date of sampling : 22.01.2020-23.01.2020 | | |
|--|--|---|-------------------|----------------------------------|
| 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 | 96 | 100 | IS: 5182 (Part-23), RA-2017 |
| 2 | Particulate matter (PM _{2.5}) in µg/m ³ | 56 | 60 | USEPA CFR-40,Part-50, Appendix-L |
| 3 | Sulphur dioxide (SO ₂) in µg/m ³ | 11.1 | 80 | IS: 5182 (Part-2)-2001, RA-2017 |
| 4 | Nitrogen dioxide (NO ₂) in µg/m ³ | 40.1 | 80 | IS: 5182 (Part- 6)-2006, RA-2017 |
| NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality. | | | | |

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TC-6271

TEST REPORT

| | | |
|---|---------------------------|----------------------------------|
| Name & Address Of the Customer : | Report No. | : QLS/A/19-20/C/N-351 |
| M/s. Neo Metaliks Ltd. | Date | : 05.02.2020 |
| Vill + P.O. : Gopalpur | Sample No. | : QLS/A/19-20/N-351 |
| P.S. : Kanksa, Durgapur | Sample Description | : Ambient Air |
| Paschim Bardhaman | Sample Mark | : Near Administrative Building |
| West Bengal - 713 212 | Ref No. Date | : W119Y-00103, Dated: 06.01.2020 |

Analysis Result

| Location: Near Administrative Building | | Date of sampling: 20.01.2020 – 21.01.2020 | | |
|---|--|--|-------------------|-----------------------------------|
| Sampling Done by: J.Sethana/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 | 97 | 100 | IS: 5182 (Part-23), RA-2017 |
| 2 | Particulate matter (PM _{2.5}) in µg/m ³ | 56 | 60 | USEPA CFR 40, Part-50, Appendix-L |
| 3 | Sulphur dioxide (SO ₂) in µg/m ³ | 9.9 | 80 | IS: 5182 (Part 2)-2001, RA-2017 |
| 4 | Nitrogen dioxide (NO ₂) in µg/m ³ | 37.9 | 80 | IS: 5182 (Part-6)-2006, RA-2017 |
| NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality. | | | | |

Report Reviewed By

for Qualissure Laboratory Services



(Benimadhab Ghosh)
Authorised Signatory

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Qualissure Laboratory Services

361, Prantik Pathy, #5/361, Base Pulur Road, Kolkata-700107
Email: qualissure@gmail.com info@qualissure.com; Mob.No. 98312 87086; 9830093976



TC-6271

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

TEST REPORT

| | | |
|---|----------------------------|--------------------------------|
| Name & Address Of the Customer : | Report No. | QLS/A/19-20/C/N-354 |
| M/s. Neo Metals Ltd | Date | 05.02.2020 |
| Vill + P.O. : Gopalpur | Sample No. | QLS/A/19-20/N-354 |
| P.S. : Kanksa, Durgapur | Sample Description: | Ambient Air |
| Paschim Bardhaman | Sample Mark | PCM Side Boundary Wall |
| West Bengal - 713 212 | Ref No. Date | W1197-00103, Dated: 06.01.2020 |

Analysis Result

| Location: PCM Side Boundary Wall | | | Date of sampling: 23.01.2020-24.01.2020 | |
|---|---|--------|---|----------------------------------|
| 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 | 91 | 100 | IS: 5182 (Part-23), RA-2017 |
| 2 | Particulate matter PM _{2.5} in µg/m ³ | 50 | 60 | USEPA CFR-40,Part-50, Appendix-L |
| 3 | Sulphur dioxide (SO ₂) in µg/m ³ | 9.2 | 80 | IS: 5182 (Part-2)-2001, RA-2017 |
| 4 | Nitrogen dioxide (NO ₂) in µg/m ³ | 33.4 | 80 | IS: 5182 (Part- 6)-2006, RA-2017 |

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

Report Reviewed By

[Signature]

for Qualissure Laboratory Services

(Benimadhab Goral)
Authorized Signatory

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Qualissure Laboratory Services

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Email : qualissure@gmail.com ; info@qualissure.com ; Mob.No. 98312 87046 ; 9830093076



TC-6271

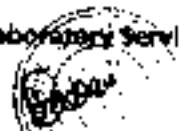
| | | |
|---|----------------------------|--|
| Name & Address Of the Customer : | Report No. | : QLS/A/19-20/C/N-353 |
| M/s. Neo Metaliks Ltd. | Date | : 05.02.2020 |
| Vill - P.O. : Gopelpur | Sample No. | : QLS/A/19-20/N-353 |
| P.S - Kanksa, Durgapur | Sample Description: | : Ambient Air |
| Paschim Bardhaman | Sample Mark | : Near Boundary Wall (North East Side) |
| West Bengal - 713 212 | Ref No. Date | : W119Y-00103, Dated: 06.01.2020 |

Analysis Result

| Location: Near Boundary Wall (North East Side) | | | Date of sampling : 22.01.2020-23.01.2020 | |
|---|---|--------|---|-----------------------------------|
| 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 $\mu\text{g}/\text{m}^3$ | 83 | 100 | IS: 5182 (Part-23), RA-2017 |
| 2 | Particulate matter (PM _{2.5}) in $\mu\text{g}/\text{m}^3$ | 41 | 60 | USEPA CFR-40, Part-50, Appendix-L |
| 3 | Sulphur dioxide (SO ₂) in $\mu\text{g}/\text{m}^3$ | 10.1 | 80 | IS: 5182 (Part-2)-2001, RA-2017 |
| 4 | Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$ | 39.9 | 80 | IS: 5182 (Part-6)-2006, RA-2017 |
| NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality. | | | | |

Report Reviewed By

for Qualissure Laboratory Services



(Benimadhab Gorai)
Authorised Signatory

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

TEST REPORT

| | |
|---|--|
| Name & Address Of the Customer : M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212 | Report No. : QLS/A/19-20/C/N-516 Date : 12.05.2020 Sample No. : QLS/A/19-20/N-516 Sample Description : Ambient Air Sample Mark : PCM Side Boundary Wall Ref No. Date : W119Y-00103, Dated: 06.01.2020 |
|---|--|

Analysis Result

| Location: PCM Side Boundary Wall | | | Date of sampling :20.03.2020 | |
|--|---|--------|---|----------------------------------|
| Sampling Done by: C.Sahoo/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 | 41 | 60 | USEPA CFR-40,Part-50, Appendix-L |
| 3 | Sulphur dioxide (SO ₂) in µg/m ³ | 8.8 | 80 | IS: 5182 (Part-2)-2001, RA-2017 |
| 4 | Nitrogen dioxide (NO ₂) in µg/m ³ | 30.4 | 80 | IS: 5182 (Part- 6)-2006, RA-2017 |
| NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality. | | | | |

Report Reviewed By : R. Roy

for Qualissure Laboratory Services



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TEST REPORT

| | | |
|---|--------------------|----------------------------------|
| Name & Address Of the Customer : | Report No. | : QLS/A/19-20/C/N-517 |
| M/s. Neo Metaliks Ltd. | Date | : 12.05.2020 |
| Vill + P.O. : Gopalpur | Sample No. | : QLS/A/19-20/N-517 |
| P.S. : Kanksa,Durgapur | Sample Description | : Ambient Air |
| Paschim Bardhaman | Sample Mark | : Near Administrative Building |
| West Bengal – 713 212 | Ref No. Date | : W119Y-00103, Dated: 06.01.2020 |

Analysis Result

| Location: Near Administrative Building | | | Date of sampling : 20.03.2020 | |
|--|---|--------|---|----------------------------------|
| Sampling Done by: C.Sahoo/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 | 91 | 100 | IS: 5182 (Part-23), RA-2017 |
| 2 | Particulate matter PM _{2.5}) in µg/m ³ | 50 | 60 | USEPA CFR-40,Part-50, Appendix-L |
| 3 | Sulphur dioxide (SO ₂) in µg/m ³ | 8.0 | 80 | IS: 5182 (Part-2)-2001, RA-2017 |
| 4 | Nitrogen dioxide (NO ₂) in µg/m ³ | 33.2 | 80 | IS: 5182 (Part- 6)-2006, RA-2017 |
| NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality. | | | | |

Report Reviewed 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-518 |
| M/s. Neo Metaliks Ltd. | Date : 12.05.2020 |
| Vill + P.O. : Gopalpur | Sample No. : QLS/A/19-20/N-518 |
| P.S. : Kanksa,Durgapur | Sample Description : Ambient Air |
| Paschim Bardhaman | Sample Mark : Near CPP Cooling Tower |
| West Bengal – 713 212 | Ref No. Date : W119Y-00103, Dated: 06.01.2020 |

Analysis Result

| Location: Near CPP Cooling Tower | | | Date of sampling : 20.03.2020 | |
|--|---|--------|---|----------------------------------|
| Sampling Done by: C.Sahoo/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 | 41 | 60 | USEPA CFR-40,Part-50, Appendix-L |
| 3 | Sulphur dioxide (SO ₂) in µg/m ³ | 7.8 | 80 | IS: 5182 (Part-2)-2001, RA-2017 |
| 4 | Nitrogen dioxide (NO ₂) in µg/m ³ | 30.5 | 80 | IS: 5182 (Part- 6)-2006, RA-2017 |
| NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality. | | | | |

Report Reviewed By : R. Roy

for Qualissure Laboratory Services



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TEST REPORT

| | | |
|---|--------------------|--|
| Name & Address Of the Customer : | Report No. | : QLS/A/19-20/C/N-519 |
| M/s. Neo Metaliks Ltd. | Date | : 12.05.2020 |
| Vill + P.O. : Gopalpur | Sample No. | : QLS/A/19-20/N-519 |
| 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 | : W119Y-00103, Dated: 06.01.2020 |

Analysis Result

| Location: Near Boundary Wall (North East Side) | | | Date of sampling : 19.03.2020 | |
|--|---|--------|---|----------------------------------|
| Sampling Done by: C.Sahoo/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 | 80 | 100 | IS: 5182 (Part-23), RA-2017 |
| 2 | Particulate matter PM _{2.5}) in µg/m ³ | 43 | 60 | USEPA CFR-40,Part-50, Appendix-L |
| 3 | Sulphur dioxide (SO ₂) in µg/m3 | 8.1 | 80 | IS: 5182 (Part-2)-2001, RA-2017 |
| 4 | Nitrogen dioxide (NO ₂) in µg/m3 | 32.4 | 80 | IS: 5182 (Part- 6)-2006, RA-2017 |
| NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality. | | | | |

Report Reviewed 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-520 |
| M/s. Neo Metaliks Ltd. | Date : 12.05.2020 |
| Vill + P.O. : Gopalpur | Sample No. : QLS/A/19-20/N-520 |
| P.S. : Kanksa,Durgapur | Sample Description : Ambient Air |
| Paschim Bardhaman | Sample Mark : Near Main Gate |
| West Bengal – 713 212 | Ref No. Date : W119Y-00103, Dated: 06.01.2020 |

Analysis Result

| Location: Near Main Gate | | | Date of sampling : 19.03.2020 | |
|--|---|--------|---|----------------------------------|
| Sampling Done by: C.Sahoo/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 | 93 | 100 | IS: 5182 (Part-23), RA-2017 |
| 2 | Particulate matter PM _{2.5}) in µg/m ³ | 52 | 60 | USEPA CFR-40,Part-50, Appendix-L |
| 3 | Sulphur dioxide (SO ₂) in µg/m3 | 8.5 | 80 | IS: 5182 (Part-2)-2001, RA-2017 |
| 4 | Nitrogen dioxide (NO ₂) in µg/m3 | 34.7 | 80 | IS: 5182 (Part- 6)-2006, RA-2017 |
| NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality. | | | | |

Report Reviewed By : R. Roy

for Qualissure Laboratory Services



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ANNEXURE VII



Qualissure Laboratory Services

361, Premick Pally, 45/361, Bose Police 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 : | Report No. | : QLS/A/19-20/C/N-366 |
| M/s. Neo Metaliks Ltd. | Date | : 05.02.2020 |
| Vill + P.O. : Gopalpur | Sample No. | : QLS/A/19-20/N-366(A-D) |
| P.S. : Kanksa, Durgapur | Sample Description | : Noise Monitoring |
| Paschim Bardhaman | Ref No. Date | : W119Y-00103, Dated: 06.01.2020 |
| West Bengal – 713 212 | | |

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 |
| 366A | 20.01.2020 | Near PCM Boundary Wall | 59.8 | 65 | 49.8 | 55 |
| 366B | 21.01.2020 | Admin Building | 61.2 | 65 | 52.3 | 55 |
| 366C | 22.01.2020 | Near CPP Area | 60.0 | 65 | 50.7 | 55 |
| 366D | 23.01.2020 | Near Main Gate | 64.7 | 65 | 53.1 | 55 |

Report Reviewed By : R. Roy

for Qualissure Laboratory Services


[Benimadhab Goral]
Authorized Signatory

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TEST REPORT

| | |
|---|--|
| Name & Address Of the Customer : M/s. Neo Metaliks Ltd. Vill + P.O. : Gopalpur P.S. : Kanksa,Durgapur Paschim Bardhaman West Bengal – 713 212 | Report No. : QLS/A/19-20/C/N-521 Date : 12.05.2020 Sample No. : QLS/A/19-20/N-521(A-D) Sample Description : Noise Monitoring Ref No. Date : W119Y-00103, Dated: 06.01.2020 |
|---|--|

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 |
| 521A | 19.03.2020 | Near PCM Boundary Wall | 58,5 | 65 | 48.1 | 55 |
| 521B | | Admin Building | 62.5 | 65 | 54.9 | 55 |
| 521C | 20.03.2020 | Near CPP Area | 61.4 | 65 | 52.9 | 55 |
| 521D | | Near Main Gate | 64.4 | 65 | 54.2 | 55 |

Report Reviewed By : R. Roy

for Qualissure Laboratory Services



(Benimadhab Gorai)
Authorised Signatory

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ANNEXURE VIII

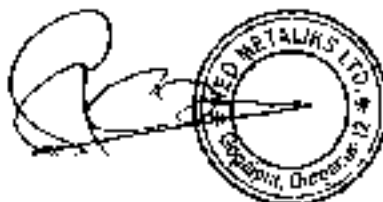


NEO METALS LTD.

Park Plaza, 71, Park Street, 8F (North Block), Kolkata - 700 016
 Tel: +91 33 4050 4050, Fax: +91 33 2217 7317, E-mail: info@neometalliks.com
 Website: www.neometalliks.com CIN: U27109WB2003PLC097211

ANNEXURE- VIII

| 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 | ALL STACK (I) | 0.35 |
| 04 | ONLINE STACK MONITERING SYSTEM | 0.03 |
| | TOTAL | 13.39 |



ANNEXURE IX

F.No. J-11013/44/2018-IA-1(M)
Government of India
Ministry of Environment, Forest and Climate Change
(I.A Division)

Indira Parayavaran Bhavan
Jor Bagh Road, Aliganj
New Delhi-110003
E-mail: sudheer.ch@gov.in
Date: 07.02.2019

To

M/s Neo Metaliks Ltd
71, Park Street, 6F, Park Plaza
North Block, Kolkata-700016
West Bengal.

Subject: M/s Neo Metaliks Ltd. for Expansion of Pig iron plant (1,88,000 MTPA) to Steel Plant (Sinter 3,00,000 MTPA; Billets 6,17,000 MTPA; Bar and Rods 3,69,000 MTPA) at Village Gopalpur, Durgapur, District Burdwan, West Bengal

This is with reference to your letter dated 8th January, 2019 wherein you are seeking permission to install the Pulverised Coal Injection (PCI) in Blast Furnace (BF).

2. In this regard, it is submitted that as per amendment in EIA notification, 2006 vide S.O 3518 (E), that

"Any change in the configuration of the plant from the environmental clearance conditions during execution of the project after detailed engineering shall be exempt from the requirement of environmental clearance, if there is no change in production and pollution load. The project proponent shall inform the Ministry of Environment, Forests and Climate change/ State Level Environment Impact Assessment Authority and the concerned State Pollution Control Board."

3. Considering the above, no fresh permission would be required for M/s Neo Metaliks Ltd. for installing retrofit Pulverised Coal Injection (PCI). However, progress of such activity needs to be reported in the six monthly compliance report submitted to the regulatory agencies concerned.


(Dr. Sudheer Chintalapati)
Scientist D

ANNEXURE X

WEST BENGAL POLLUTION CONTROL BOARD

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

Memo No. **1185-2M-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. **111** received **22.10.2019**

WEST BENGAL

Dear Sirs,

In response to the application for Consent to Establish (NOC) for proposed Unit of M/s. **Neo Metaliks Limited**

for **installation of 100TPD Retrofit Pulverized Coal Injection System in its existing 215 Plant Furnace without any increase in existing production capacity** at **existing unit located at J.L. No. 65, Mouza-Gopalpur, P.O.+P.S.-***

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

* **Kanksa, Dist.- Paschim Bardhaman, W.B., PIN-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/started without prior approval of this Board.

2. 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, 1996 and Amended Rules 2000 if applicable.
- (xi) Recycled Plastics Manufacture and Usage Rules 1990, if applicable and
- (xii) Ozone Depleting Substances (Regulation & Control) Rules, 2000, if applicable

3. 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 215m³ 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,

[Signature]
Member Secretary, /SR. ENV. ENGR.,
West Bengal Pollution Control Board
(EIM CELL)
Sr. Environmental Engineer
W. B. Pollution Control Board
Dept. of Environment, GoWB

1125 - 2N-566/2003-PART-I dt. 22.11.2013
Memo No.
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./G.R.O./Haldia R.O./S.R.O./Asansol/ Sub-R.O./WBPC Board

Himalaya Bhawan
Delhi Road, Darkuni
Dist. Hooghly

Vill, Panpur
Kalyani Expressway
P.O. Narayanpur
Dist. 24 Pgs. (N)

Sahid Khudiram Sarani
City Centre, Durgapur-16
Dist. Burdwan

10, Camac Street
2nd Floor
Kolkata-700 017

Paribesh Bhawan
10A, LA-Block, Sector-III
Salt Lake City,
Kolkata - 700 098

Block 05 at 40
Flats Complex
Adjacent to Priyambada
Housing Estate
P.O. : Khanjanchak,
P.S. Durgachak
Haldia-721602
Dist. Purba Medinipur

Paribahan Nagar
Matigara, Siliguri
Dist.-Darjeeling

Saiya Chowdhury
Indoor Stadium
Balurghar Bandh Road

Asansol Sub-Regional Office
ADDA Commercial Market (2nd Floor)
Opposite Asansol Fire Station

[Signature]
Member Secretary, /SR. E. R.

Annexure to NOC Sl. No. - NO159423

Special Conditions issued to M/s. Neo Metaliks Limited, located in J.L. no. 65, Mouza-Gopalpur, P.O.+P.S.- Kanksa, Dist.- Paschim Bardhaman, W.B., PIN- 713212

A) Emission:-

Coal Pulveriser: One no.100 TPD- to be connected to stack of 42 m. (approx. from G.L.) provided with Bag Filter, as proposed.
Stack to have sampling port and permanent platform & ladder as per Emission Regulation (Part-III) of CPCB.

B) Effluent:-

- 1) Process- to be used for in-house dust suppression.
- 2) Domestic- to be discharged through septic tank to soakpit within the unit premises.

C) Solid Waste :-

- 1) Hazardous- to be disposed through authorized reproprocessors/recyclers as per provisions of the Hazardous and Waste (Management & Transboundary Movement) Rules, 2016 and subsequent amendments.
- 2) Non-hazardous- to be disposed through proper system in environment-friendly manner.

D) General:-

- 1) Noise Control - Ambient noise level not to exceed the permissible limit.
- 2) No additional machinery / equipment can be installed without permission from this board.
- 3) The unit should not start operation without obtaining 'Consent-to-Operate' from this Board.
- 4) The unit should conform with the Environmental Standards for discharge of effluent and emission after adequate treatment.
- 5) The unit should obtain authorization for waste and used oil under Hazardous and Waste (Management & Transboundary Movement) Rules, 2016 and subsequent amendments.
- 6) Good house-keeping to be maintained.
- 7) At least 33% of the project area should be under green belt.
- 8) Rain water harvesting must be done however recharging of harvested rain water is not allowed under any circumstances.
- 9) The unit should obtain permission from the District level authority for ground water abstraction as per The West Bengal Ground Water Resources (Management, Control and Regulation) Act, 2005: before applying for 'Consent to Operate' to this Board.
- 10) Conditions laid down in the Environmental Clearance obtained issued by MoEF&CC vide memo no. J/11011/779/2007-IA-II(I) dated 04.11.2008 and vide memo no. J/11013/44/2018-IA-I(M) dated 07.02.2019 for the proposed expansion project must be strictly followed.
- 11) This NOC is valid for installation of Retrofit Pulverized Coal Injection system in its existing 215m³ Blast Furnace without any increase in existing production capacity.
- 12) This NOC is valid up to 31.10.2026 for proposed expansion without any increase in production capacity.

Shub
27/10/2024
Sr. Environmental Engineer (EIM Cell)
West Bengal Pollution Control Board

Sr. Environmental Engineer
W. B. Pollution Control Board
Dept. of Environment, GoWB

ANNEXURE XI



WEST BENGAL POLLUTION CONTROL BOARD

(Department of Environment, Govt. of West Bengal)

Paribesh Bhawan

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

Kolkata - 700 098

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

2335-0261 / 8212 / 8213 / 7428 / 5975

Fax : 0091 (033) 2335 6730 / 2813

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

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.


[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 Vehicles Act, 1988. The responsibility of safe transport shall be either of the sender or the receiver whosoever arranges the transport and this responsibility shall be clearly indicated in the Manifest.
6. Records of hazardous waste generation, storage and disposal shall be maintained properly and shall be available to the inspecting officials of the State Board during inspection.
7. The unit shall update regularly the environmental information in Display Boards as per the order of the Hon'ble Supreme Court dated. 14.10.2003 in W.P.(C) NO.657 of 1995.
8. Environmental information display boards in English and Bengali shall be provided outside the main gate as per the order of the Hon'ble Supreme Court dt.14.10.2003 in W.P.(C) no. 657 of 1995.
9. Authorisation will be revoked in case of non-compliances with any of the above conditions.

✓ M/s. Neo Metaliks Limited,

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


[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.

ANNEXURE A

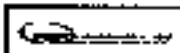
| ANNEXURE A: | | |
|--|---|---|
| Status of Charter on Corporate Responsibility for Environment Protection (CREP) | | |
| Sl | Action Points For Integrated Iron & Steel Industry. | Status at NML/ Action Plan. |
| 1 | Coke oven plant | |
| | a. To meet the parameters PLD (% leaking doors). PLL (% leaking 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 installing the Pulverized Coal Injection system and planning to retrofit the same by July-2020. Permission granted from MoEF&CC on 07.02.2019. Annexure IX CTE obtained from WBPCB on 22.11.2019. Annexure X |
| 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. West Bengal Pollution Control Board has issued us the authorization for hazardous waste management in Form- 2 vide memo no.- 38/2S (HW)- 2497/2009 dated on 02.03.2020 and valid up to 31 st March 2024. Annexure XI |
| 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 IV. |
| 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 roof top rain water harvesting reservoirs to collect the rain water and it is being used for our auxiliary consumption. |
| h | Reduction of greenhouse gases by: | |
| 1 | Reduction in power consumption | We have been reducing the power consumption by using of LED lighting arrangements, requisite preventive maintenance schedule along with rotating equipments/ parts alignment and static & dynamic balancing. |
| 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. Annexure B |
| 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-2018, we have successfully commissioned the recuperator for the utilization of waste heat from flue gases and the recovered heat energy is used for stove heating purpose. |
| 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. Successfully operational of recuperator and recovering of flue gas waste heat to utilize in process is conserving the resources and energy. 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). The plant is based on water recirculation system, entire water is recycled and reused and for that the raw water consumption is |

| | | | |
|--|---|--|--|
| | | | reduced. 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. | <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 B

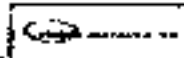


We would be happy to provide any further clarifications, if required, to facilitate implementation of the recommendations.

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

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.