

MAHARASHTRA POLLUTION CONTROL BOARD

Phone : 4010437/4020781
/4037124/4035273
Fax : 24044532/4024068 /4023516
Email : enquiry@mpcb.gov.in
Visit At : <http://mpcb.gov.in>



Kalpataru Point, 3rd & 4th floor, Sion- Matunga
Scheme Road No. 8, Opp. Cine Planet Cinema, Near
Sion Circle, Sion (E),
Mumbai - 400 022

Consent No: Format 1.0/ BO/CAC-Cell/EIC No. NG-10950-14/CAC/8708
Date: 18/09/2014

To,
M/s Mahalaxmi TMT Pvt Ltd.
Plot no C-2, C-4, C-5 & B-1/4,
MIDC Deoli, Tal Deoli,
Dist Wardha

Subject: Renewal of Consent under RED category.

Ref : 1. Earlier Consent granted vide no- BO/JD(APC)/EIC No. NG-6919-12
& NG- 7479-12/R/CAC-545 dtd 02/08/2012
2. Minutes of CAC meeting held on 28.08.2014

Your application: CR1405000069

For: Renewal of Consent

under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 5 of the Hazardous Wastes (M, H & T M) Rules 2008 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order

- The consent is granted for a period from 01/05/2014 to 30/06/2016
- The proposed and/or actual capital investment of the industry is Rs.304.39 Crs. (As per C. A. Certificate submitted by industry)

- The Consent is valid for the manufacture of -

| Sr. No. | Product / By-Product Name | Maximum Quantity |
|---------|--|------------------|
| 1 | MS Billets | 2,00,000 TPA |
| 2 | CTD Round Bar(Re-rolled items) | 1,80,000 TPA |
| 3 | Beneficiated Iron Ore | 2,000 TPD |
| 4 | Reduced Briquette Sponge Iron (Based on static kiln briquette Iron Technology SKBIT) | 200 TPD |

- Conditions under Water (P&CP), 1974 Act for discharge of effluent:

| Sr. no. | Description | Permitted quantity of discharge (CMD) | Standards to be achieved | Disposal |
|---------|-------------------|---------------------------------------|--------------------------|-----------------------------|
| 1. | Trade effluent | 200 | As per Schedule -I | 100% recycle in the process |
| 2. | Domestic effluent | 30 | As per Schedule -I | On land for gardening |

- Conditions under Air (P& CP) Act, 1981 for air emissions:

| Sr. no. | Description of stack / source | Number of Stack | Standards to be achieved |
|---------|-------------------------------|-----------------|--------------------------|
| 1. | Induction Furnace -2 Nos | 2 | As per Schedule -II |
| 2. | Reheating Furnace | 1 | |
| 3. | Coal Gasifier | 1 | |
| 4. | Coal and iron ore dryer | 1 | |

6. Conditions about Non Hazardous Wastes:

| S.n | Type Of Waste | Quantity & UoM | Treatment | Disposal |
|-----|------------------------|----------------|-----------|-------------------------------------|
| 1 | Metal Slag | 8000 T/A | ---- | Landfill in own premises |
| 2 | Dust (Bag Filter) | 1200 T/A | ---- | |
| 3 | Mil Scrap(End cutting) | 7200 T/A | ---- | 100 % Recycled in induction furnace |
| 4 | Tailings | 800 T/D | ---- | 100 % reused in brick manufacturing |
| 5 | Coal Ash | 86 T/D | ---- | Send to cement Manufacturer. |

7. Conditions under Hazardous Waste (MH & TM) Rules, 2008 for treatment and disposal of hazardous waste:

| Sr. No. | Type Of Waste | Category | Quantity | UOM | Treatment | Disposal |
|---------|------------------|----------|----------|-------|-----------|---------------------------------------|
| 1 | Used / Spent Oil | 5.1 | 35 | Lit/M | --- | Salé authorized recycler/re-processor |

8. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
9. Industry to submit design details of APC systems by 15.10.2014
10. Industry to install CAAQMS by 31.12.2014.
11. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.

For and on behalf of the
Maharashtra Pollution Control Board

(Rajeev Kumar Mital, IAS)
Member Secretary

Received Consent fee of -

| Sr. No. | Amount(Rs.) | DD. No. | Date | Drawn On |
|---------|-------------|---------|------------|----------|
| 1 | 15,52,592 | 462448 | 07/04/2014 | UBI |
| 2 | 2,73,800 | 462476 | 17/04/2014 | UBI |

The balance consent fees of Rs. 507269/- with the Board will be considered during next Renewal of consent.

Copy to:

1. Regional Officer, Nagpur. He is directed to forfeit BG of Rs. 2/- Lakhs obtained against compliance of consent conditions & obtain fresh BG of Rs. 5/- Lakhs as per schedule III
2. Sub-Regional Officer-II, Nagpur, MPCB. They are directed to ensure the compliance of the consent conditions.
3. Chief Accounts Officer, MPCB, Mumbai.
4. CC/CAC desk- for record & website updation purposes.

Schedule-I

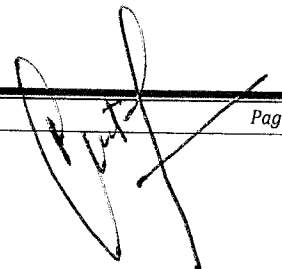
Terms & conditions for compliance of Water Pollution Control:

- 1) A] The total treated effluent shall be 100 % recycled / reused for in the process and there shall not be any discharge outside the factory premises.
- 2) A] As per your application, you have provided the septic tank and soak pit for treatment of domestic effluent.

B] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards/ prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.
 - (1) Suspended Solids. Not to exceed 100 mg/l.
 - (2) BOD 3 days 27°C. Not to exceed 100 mg/l.
- C] The treated domestic effluent shall be soaked in soak pit, Overflow, if, any shall be used on land of 8.15 acres for gardening.
- 3) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or and extension or addition thereto.
- 4) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
- 5) The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 and as amended, by installing water meters, filing water cess returns in Form-I and other provisions as contained in the said act.

| Sr. no. | Purpose for water consumed | Water consumption quantity (CMD) |
|---------|--|----------------------------------|
| 1. | Industrial Cooling, spraying in mine pits or boiler feed | 155 |
| 2. | Domestic purpose | 50 |
| 3. | Processing whereby water gets polluted & pollutants are easily biodegradable | 1000 |
| 4. | Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic | --- |

- 6) The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines.



Schedule-II

Terms & conditions for compliance of Air Pollution Control:

1. As per your application, you have proposed to install/ provided the Air pollution control (APC) system and also proposed to erect / erected following stack (s) and to observe the following fuel pattern-

| Sr. No. | Stack Attached To | APC System | Height in Mtrs. | Type of Fuel | Quantity & UoM | S % | SO ₂ Kg/Day |
|---------|--------------------------|--|-----------------|---------------|----------------|------|------------------------|
| 1 | Induction Furnace -2 Nos | Venture scrubber followed by cyclone separator | 42 each | Electricity | --- | -- | -- |
| 2 | Reheating Furnace | --- | 42 | Coal | 300 MT/D | 0.5% | 3000 |
| 3 | Coal Gasifier | Cyclone Separator is provided | 32# | Coal | | | |
| 4 | Coal and iron ore dryer | Bag filter is provided | 32# | Coal Gasifier | 4 T/D | 0.5% | 40 |
| 5 | D G Set 500 KVA | --- | 4.5 | Diesel | 400 Lit/M | 1% | 0.26 |

All de-dusting stack should be at least 2.5 m above the nearest building height

2. The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time / Environmental Clearance / CREP guidelines.

3. The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

| | | |
|--------------------|---------------|-------------------------|
| Particulate matter | Not to exceed | 50 mg/Nm ³ . |
|--------------------|---------------|-------------------------|

4. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement well before its life come to an end or erection of new pollution control equipment.

5. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).

6.

- 1) All material handling stations shall be provided by centralized De-dusting systems.

2) **Raw Material handling and Preparation:-**

- a. Unloading of coal by trucks or wagons should be carried out with proper care avoiding dropping of the materials from height. It is advisable to moist the material by sprinkling water while unloading.

- b. Crushing and screening operation should be carried out in enclosed area. Centralizes de-dusting facility (collection hood and suction arrangements followed by de-ducting unit like bag- filter or ESP or equally effective method or wet scrubber and finally discharge of emission through a stack) should be provided to

control Fugitive Particulate Matter Emissions. Particulate Matter emission level in the stack should not exceed 50 mg/Nm³. Water sprinkling arrangement should be provided at raw material heaps and on land around the crushing and screening units.

- c. Work area surrounding the plant shall be asphalted or concreted.
- d. Enclosure should be provided for belt conveyors and transfer points of belt conveyors.

The above enclosures shall be rigid (and not of flexible/cloth type enclosures) and to be fitted with self-closing doors and close fitting entrances and exists. Where conveyors pass through the enclosures, flexible covers should be installed at entries and exit of the conveyors to the enclosures, minimizing the gaps around the conveyors.

In wet system, provide water sprays/ sprinklers at following strategic location for dust suppression raw material transfer.

- Belt conveyors discharge / transfer point
- Crusher / screen discharge locations.

3) Cooler Discharge and Product Separation Unit.

Enclosure should be provided for belt conveyors and transfer points of belt conveyors. Dust extraction cum control system to be installed preferably bag filter or ESP or equally effective method to arrest product loss in Cooler Discharge and Product Separation area, the stack emission not be exceed 100 mg/Nm³. (particulate Matter).

- 4) Extensive plantation/ Green belt shall be developed along the roads and boundary line of the industry.
- 5) Stack, effluent, fugitive emission, noise monitoring shall be done as per CPCB regulation and MPCB's consent conditions.
- 6) Pollution control system shall be operated as and integral part of production to ensure minimum emissions. Pollution Control System shall start before conveyor operation/ operation of plant. Similarly pollution control system shall be stopped only after completion of conveyor operation/operation of plant so that chances of settlement of dust in duct are avoided. Timely evacuation of dust (from Dust catchers, ESPs, Bag filter hopper etc.) shall be routinely organized.
- 7) Kiln of gas treatment with efficient de-dusting shall be provided Waste heat utilization for power generation should be followed.
 - Provisions of Gas conditioning Tower followed by Pollution Control system for small capacity Kiln (size 100 TPD and below).
 - Entrepreneur having more than 100 TPD kilns shall use WHPB for generation of power.
- 8) The safely cap/emergency stack of rotary kiln type plant, which is generally installed above the After Burner Chamber (ABC) of feed end column should not be used for discharging untreated emission, by passing the air pollution control device.

In the midst of a process, the auxiliary stack cap which is generally kept closed, is opened only when,

- There is process disturbance and
- Non functioning of kiln off gas system

The above activity is carried out by manual intervention from the operation control desk of the PLC/DCS based automation system. It is recommend that stack cap to be kept open to minimum period of time and its opening must be recorded on a compulsory basis and reasons for opening must be logged and reported to MPCB. Further stack cap must be kept closed except.

- During startup, commissioning and bringing the kiln to stabilized operation.
 - At the start of a fresh campaign.
 - In case of extreme emergency enumerated above.
- 9) Interlocking facility should be provided to ensure stoppage of plant if the pollution control system is not in operation of safety cap of the rotary kiln is bypassing the emissions

7.

A) Noise Levels Standards

| | |
|----------------------------|------------------|
| 1.00 AM – 10.00 PM | 10.00 PM-6.00 AM |
| Noise level Leq 75 dB (9A) | Leq 70 dB (A) |

B) Fugitive Emission Standards:

The applicant shall install de-dusting system at the following locations & monitor the fugitive emissions levels and submit report to the board monthly.

- The existing industry shall comply with the standard of 2000 ug/m³
- Fugitive emission shall be monitored at a distance 10 meters from the source of fugitive emissions as per following.

| Sr. No. | Area | Monitoring Location |
|---------|----------------------------|---|
| 1 | Raw material handling area | Wagon tippler, Screen area, Transfer Points, Stock Bin area. |
| 2 | Crusher area | Crushing plant, vibrating screen, transfer points. |
| 3 | Raw material feed area | Feeder area, Mixing area, transfer points, days bins |
| 4 | Cooler discharge area | Over size discharge area, Transfer points. |
| 5 | Product processing area | Intermediate stock bin area. Vibrating screens, Magnetic Separation unit. Transfer Points, Over Size discharge area, Product separation area, Bagging area, hoppers/storage bins. |

8. Other Conditions:

- Continuous monitoring system shall be installed for monitoring Sulphur Dioxide & Suspended Particulate Matter and results submitted to the Board every fortnight. The

results for continuous monitoring done on daily basis shall be submitted after every 15 days to Regional Officer, Nagpur with a copy to Member Secretary, Mumbai. In the event of difficulty in providing the continuous monitoring system, monitoring shall be done daily and results be submitted as stated above.

- 2) There shall not be any fugitive emissions.
- 3) The factory authorities shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants. The quarterly returns of the energy consumption shall be submitted to Board Office under intimation to respective Regional & sub-Regional Officer on each 10th of January, April, July & October.
- 4) The firm shall provided continuous flow meter for the measurement of flow of the effluent.
- 5) The firm shall carry out tree plantation along road side, around dumps or compulsory a forestation as per the proposal approved by Forests Department. The tree plantation programme shall be taken up well in advance of the actual mining activity, so that green belt of sufficient width & height is developed between mining area /road and surrounding area.
- 6) The industry shall not cause any nuisance in surrounding area.
- 7) The industry shall monitor stack emissions & ambient air quality regularly.
- 8) Coal handling plant shall be provided with Dust Collector, complete dust extraction arrangement and Automatic Water Sprinkler with fog nozzles shall be provided where necessary for dust- suppression. Dust generation points / machinery shall be covered by hoods.
- 9) Dust collector of sufficient capacity provided to coal crusher, pulverizers & all sources of dust emission shall be operated properly.
- 10) Spraying of water on all working area, dump area, stock piles.
- 11) Coal shall be properly covered during transportation.
- 12) Black topper metalled roads shall be provided and well maintained to prevent dust formation.
- 13) Overloading of dumpers shall be ayoided to prevent spillage.
- 14) Water of Water mixed chemical shall be sprayed at all strategic coal transfer points such as conveyors, loading unloading points etc. As far as practically possible conveyors, transfer points etc, shall be provide with enclosures

**Schedule-III
Details of Bank Guarantees**

BG History

| Sr. No. | Consent (C to E/O/R) | Amt of BG Imposed | Submission Period | Purpose of BG | Compliance Period | Validity Date |
|---------|----------------------|-------------------|-------------------|-----------------|-------------------|-----------------|
| 1 | C to R | Rs. 2/- Lakhs | To be forfeited | To be forfeited | To be forfeited | To be forfeited |

BG Details

| Sr. No. | Consent (C to E/O/R) | Amt of BG Imposed | Submission Period | Purpose of BG | Compliance Period | Validity Date |
|---------|---|-------------------|-------------------|--|-------------------|---------------|
| 1 | C to R (Existing obtained against ID to be extended) | Rs. 5 lakh | 15 days | For installation of CAAQMS | 31.12.2014 | 31.10.2016 |
| 2 | C to R | Rs. 5 lakh | 15 days | Towards O&M of pollution control System | 30.06.2015 | 31.10.2015 |
| 3 | C to R | Rs. 2 Lakh | 15 days | Towards submission of design details of APC system | 15.10.2014 | 31.10.2015 |

Schedule-IV

General Conditions:

- 1) The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2) Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
- 3) The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- 4) Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
- 5) The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
- 6) The firm shall submit to this office, the 30th day of September every year, the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- 7) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the HW(MH&TM) Rules 2008, which can be recycled
- 8) /processed/reused/recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc should go for that purpose, in order to reduce load on incineration and landfill site/environment.
- 9) The industry should comply with the Hazardous Waste (M,H & TM) Rules, 2008 and submit the Annual Returns as per Rule 5(6) & 22(2) of Hazarsous Waste (M,H & TM) Rules, 2008 for the preceding year April to March in Form-IV by 30th June of every year.
- 10) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 11) **The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.**
- 12) Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act,1981 and Environmental Protection Act,1986 and industry specific standard under EP Rules 1986 which are available on MPCB website(www.mpcb.gov.in).
- 13) The industry shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent condition towards Environment Protection.
- 14) Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
- 15) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 16) The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
- 17) Conditions for D.G. Set
 - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
 - b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of

- 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
- c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
 - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use
 - f) D.G. Set shall be operated only in case of power failure.
 - g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
 - h) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel
- 18) The industry should not cause any nuisance in surrounding area.
 - 19) The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
 - 20) The applicant shall maintain good housekeeping.
 - 21) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a statement on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end, with the Environment Statement.
 - 22) The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
 - 23) The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
 - 24) The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
 - 25) The industry shall submit quarterly statement in respect of industries' obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can be downloaded from MPCB official site).
 - 26) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
 - 27) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.
 - 28) Industry shall provide dry fly ash handling & collection system and utilize the fly ash as per the fly ash notification of the Govt. of India.
 - 29) Transportation of coal & fly ash shall be by closed system, Conveyor system wherever possible.
 - 30) The applicant shall comply with the conditions stipulated in the Environmental Clearance granted by MoEF, Gol vide No. J-11011/664/2009-IA II (I) dated 4/10/2011.

-----0000-----