

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 order No:-BO/JD(APC)/EIC No: CH-1784-15/O/CC-4318

Date: 29/03/2016

To,
M/s. Chaman Metallics Pvt. Ltd, (Kiln-I & Kiln-II),
Plot No. A-26, MIDC, Tadali Growth Center,
Tadali, Tal & Dist. Chandrapur.

Subject: Consent to operate -RED category.

- Ref: 1. Earlier Consent granted for Kiln -I & Kiln-II vide no. .BO/JD(APC)/R/EIC
No. CH-1424-13/CC- 1873, dated: 28/02/2014
2. Minutes of CC meeting held on dt: 03/02/2016.

Your application No: CR1508000151, Dated: 02/06/2015.

For: Renewal of Consent to operate 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 upto: 31/05/2020.
- The actual capital investment of the industry is Rs. 44.30 Crs. (As per C.A.Certificate submitted by industry along with application).
- The Consent is valid for the manufacture of -

| Sr. No. | Product / By-Product Name | Maximum Quantity |
|---------|--------------------------------|------------------|
| 1. | Sponge Iron (Kiln-I & Kiln-II) | 6000 MT/Month |
| 2. | Char (By-Products) | 900 MT/Month |

4. 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 | Nil | As per Schedule -I | Recycle |
| 2. | Domestic effluent | 6.4 | As per Schedule -I | Recycle |

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

| Sr. no. | Description of stack / source | Number of Stack | Standards to be achieved |
|---------|---|-----------------|--------------------------|
| 1. | Kiln-I & II (common) | 1 | As per Schedule -II |
| 2 | Coal Crusher & Screen House (Kiln-I & II) | 1 | |
| 3 | Iron Ore Crusher and Screen House (Kiln I & II) | 1 | |
| 4 | Stock House (Kiln I & II) | 1 | |
| 5 | Cooler Discharge - Kiln I | 1 | |
| 6 | Cooler Discharge- Kiln II | 1 | |
| 7 | Intermediate Bin Section (Kiln I & II) | 1 | |
| 8 | Product House (Kiln I & II) | 1 | |
| 9 | D.G. Set 750 KVA (Kiln I & II) | 1 | |

6. Conditions about Non Hazardous Wastes:

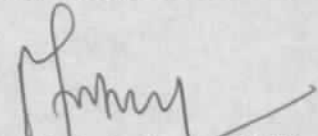
| Sr.No | Type of waste | Quantity | Disposal |
|-------|-----------------------------|--------------|------------------|
| 1. | Raw material fines &Rejects | 650 MT/Month | By sale |
| 2 | ESP Dust | 540 MT/Month | By sale/Landfill |
| 3 | Bag Filter dust | 20 MT/Month | By sale/Landfill |
| 4 | DSC Sludge | 30 MT/Month | Landfill |

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

| Sr. No. | Type Of Waste | Category | Quantity | UOM | Disposal |
|---------|----------------|----------|----------|----------|--|
| 1 | Used/spent oil | 5.1 | 0.1 | MT/Month | Sale to 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. The activity shall comply with the condition of Environmental Clearance granted by Env. Dept, GOM vide No: ENV (NOC)2005/66/CR.7/D.1, dt: 20/04/2005.
10. The applicant shall obtain the specific permission from RO-Chandrapur, MPCB before restarting the coal washery unit.
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


(Dr. P. Anbalagan, IAS)
Member Secretary

Received Consent fee of -

| Sr. No. | Amount (Rs.) | DD. No. | Date | Drawn On |
|---------|--------------|---------|------------|---------------------|
| 1 | 1,50,600/- | 001183 | 13/05/2015 | HDFC Bank |
| 2 | 2,25,000/- | 931583 | 29/02/2016 | State Bank of India |

Copy to:

- Regional Officer - Chandrapur and Sub-Regional Officer - Chandrapur, MPCB, -
They are also directed to extend existing bank guarantee (BG) of Rs. 5.0/- Lakhs obtained towards O & M of PCS and submit the compliance report.
- Chief Accounts Officer, MPCB, Mumbai.
- CC/CAC desk- for record & website updation purposes.

Schedule-I

Terms & conditions for compliance of Water Pollution Control:

- 1) A] As per your application, you have provided the Effluent Treatment Plant (ETP) with the design capacity of ---- CMD.
- B] The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.
- (a) All efforts should be made to reuse and re-circulate the water and to maintain zero effluent discharge.
- (b) In case for maintenance / cleaning of the system the settling tanks effluent of wet scrubbing system of re-circulation system is required to be discharged, it should be treated suitably to conform the following standards:-
- | | | |
|------------------------------|---------------|------------|
| PH | - Between | 5.5 to 9.0 |
| Total Suspended Solids (TSS) | Not to exceed | -100 mg/l |
| Chemical Oxygen Demand (COD) | Not to exceed | -250 mg/l |
| Oil and Grease (O & G) | Not to exceed | -10 mg/l |
- C] The treated effluent shall be 100% recycled in the process to achieve zero discharge. In no case effluent shall find its way for gardening/outside factory premises.

- 2) A.] As per your consent application, you have provided the sewage treatment system with the design capacity of 6.4 CMD.
- 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 100% treated sewage shall be recycled for flushing ,fire fighting, cooling etc
- 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 | 250.0 |
| 2. | Domestic purpose | 8.0 |
| 3. | Processing whereby water gets polluted & pollutants are easily biodegradable | --- |
| 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 | kiln I & II | ESP | 47.50 # | Coal | 125 Ton/day | 0.5 | 1250 |
| 2 | Coal crusher & Screen I & II | Bag filter | 12.00 # | -- | -- | -- | -- |
| 3 | Iron Ore crusher & Screen I & II | Bag filter | 12.50 # | -- | -- | -- | -- |
| 4 | Stock house I & II | Bag filter | 14.50 # | -- | -- | -- | -- |
| 5 | Cooler discharge I | Bag filter | 13.50 # | -- | -- | -- | -- |
| 6 | Cooler discharge II | Bag filter | 13.5 # | -- | -- | -- | -- |
| 7 | Intermediate bin section I & II | Bag filter | 12.00 # | -- | -- | -- | -- |
| 8 | Product house I & II | Bag filter | 17.00 # | -- | -- | -- | -- |
| 9 | DG for 1 x 750 KVA | --- | 5.50 * | HSD | 0.8 KL/day | 1 | 16 |

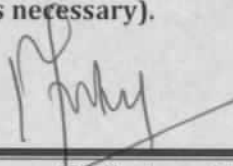
All de-dusting stack should be at least 2.5 m above the nearest building height. Sampling Portholes and Platforms etc shall be provided as per CPCB guidelines.

* Height above the roof of bldg., where it is installed.

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. (Concern section shall mention specific control equipments)
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 | 100 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/alteration 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. 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 100 mg/ Nm^3 . 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 locations for dust suppression raw material transfer.

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

7] 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/ Nm^3 .(particulate Matter).

8] Extensive plantation/ Green belt shall be developed along the roads and boundary line of the industry.

9] Stack, effluent, fugitive emission, noise monitoring shall be done as per CPCB regulation and MPCB's consent condition.

10] Pollution control system shall be operated as an 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.

11] Kiln off 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.

Adequately designed ESP or Bag Filter or Wet scrubbing system or any other adequate air pollution control system / combination of system should be installed to achieve the prescribed stack emission standards.

- 12] The safety 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 a 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.
-

- 13] 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.

A) Noise Levels Standards

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

B) Fugitive Emission Standards

The fugitive emissions level of suspended particulate matter (SPM) should not exceed 2000 ug/ m³ at a distance of - 10 mtrs approximately from the source. The applicant shall install de-dusting system at the following locations & monitor the fugitive emissions levels and submit report to the board monthly.

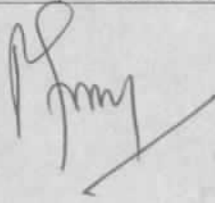
| Sr.No. | Area | Monitoring Location |
|--------|----------------------------|--|
| 1. | Raw material handling area | Wagon tippler, Screen area, Transfer Points, Stock Bin area. |
| 2. | Crusher area | Crushing plant, vibrating screen, transfer points. |
| 3. | Raw material feed area | Feeder area, Mixing area, transfer points, day 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. |
| 6. | Other areas | Area as specified by State Pollution Control Board. |

- (14) 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.

Schedule-III

Details of Bank Guarantees

| 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. 5.0/- Lakhs (To be Extended) | 15-days | Operation & Maintenance of Pollution Control System as to achieve the consented standards. | 31/05/2020 | 30/09/2020 |



Maharashtra Pollution Control Board

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) If the MIDC pipeline is broken/ overflowing chamber, in such cases industry shall not discharge their treated effluent into MIDC drain, it shall be sent to CETP by tanker.
- 3) Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
- 4) 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.
- 5) 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.
- 6) 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.
- 7) 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.
- 8) 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/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 Hazardous 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 (in case of Renewal of 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.mpch.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 dated. 16.11.2009 as amended.

28) **Specific Conditions-**

- 1) The industry shall comply with the notification issued by MoEF for utilization of flyash from coal or lignite based thermal power plants dated 14th September, 1999 and as amended on 3rd November, 2009.
- 2) 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
- 3) Transportation of coal & fly ash shall be by closed system, Conveyor system wherever possible.
- 4) The applicant shall operate online continuous monitoring system for process stack emission analysis & same shall be directly connected to MPCB website as well as to the respective Regional Office within 3 months period and operate the same regularly.
- 5) The applicant shall operate all continuous automatic ambient air and micrometeorological monitoring station at location indicated by State Board to be set up and operate at its own cost measure SO₂, NO_x and particulate matter. These CAAQMS shall also have necessary provision of networking to the Air Quality Monitoring network of MPCB.

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