

# MAHARASHTRA POLLUTION CONTROL BOARD

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Sion Circle, Sion (E),  
Mumbai - 400 022

Consent No: Format 1.0/ BO/CAC-Cell/EIC No:-CH-1695-14/CAC/CAC- 421

Date- 8 /01/2016

To,  
M/s. Lloyds Metals & Energy Ltd.,  
Plot No. A-1/2, MIDC Area Ghuggus,  
District-Chandrapur-442505.

**Subject: Renewal of Consent with increase in capital investment under RED category.**

Ref : 1. Earlier Consent granted vide no. BO/CAC-Cell/EIC No:-CH-1460-13/18<sup>th</sup>  
CAC/CAC-5954 dtd. 24-06-2014.  
2. Minutes of CAC meeting held on 23.11.2015

Your application: CR1411000473

Dated: 28.10.2014

For: Renewal of Consent with increase in capital investment 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:

1. The consent is granted for a period from 01-01-2015 to 31-12-2019
2. The actual capital investment of the industry is Rs. 532.25 Crs. (As per C.A. Certificate submitted by industry)
3. The Consent is valid for the manufacture of -

Sr. No.	Product / By-Product Name	Maximum Quantity in MT/A
1	Sponge Iron	27000 MT/Month
2	Char (By-Product) (Intermediates)	4000 MT/ Month
3	Washed Coal	472500 MT/Year
4	Unwashed Coal	159375 MT/ Year
5	Low Grade Coal	15000 MT/Year
6	Electricity Generation (WHRB)	25 MW

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	745.0	As per Schedule -I	recycle for coal washery section & reused in cooling of cooler klin.
2.	Domestic effluent	55.0	As per Schedule -I	On Land for gardening

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.	bag filter at coal crusher (500 TPD)	20.00	As per Schedule -II

	screen house (100 TPD)		
3.	bag filter cooler discharge I & II	30.00	As per Schedule
4.	ESP 500 TPD	60.00	As per Schedule
5.	bag filter cooler discharge III & IV	35.00	As per Schedule
6.	bag filter surge bin (100 TPD)	30.00	As per Schedule
7.	bag filter product separator circuit (100 TPD)	30.00	As per Schedule
8.	bag filter day-bins (100 TPD)	30.00	As per Schedule
9.	ESP kiln I	55.00	As per Schedule
10.	bag filter lump iron ore crusher house	25.00	As per Schedule
11.	ESP kiln II	55.00	As per Schedule
12.	bag filter sized iron ore screen house	35.00	As per Schedule
13.	ESP kiln III	55.00	As per Schedule
14.	ESP kiln IV	55.00	As per Schedule
15.	ESP AFBC boiler	100.00	As per Schedule
16.	bag filter Lump iron ore screen house	20.00	As per Schedule
17.	bag filter day-bins	40.00	As per Schedule
18.	bag filter lump iron ore crusher house (100 TPD)	25.00	As per Schedule
19.	bag filter cooler discharge	35.00	As per Schedule
20.	bag filter product junction house	35.00	As per Schedule
21.	bag filter product separation house	35.00	As per Schedule
22.	bag filter coal crusher & screen house (100 TPD)	20.00	As per Schedule
23.	bag filter lump iron ore screen house (100 TPD)	20.00	As per Schedule

6. **Conditions about Non Hazardous Wastes :**

Sr. no.	Type Of Waste	Quantity & UoM	Treatment	Disposal
1	Fly ash from WHRB	109 T/day	---	Brick Manufacturing/land fill.
2	Bottom ash from WHRB	27 T/day	---	Brick Manufacturing/land fill.
3	ESP/GCT Sludge	90 MT/day	---	Reused in Process.
4	Accretion	10 MT/day	---	Landfill
5	De-dusting system dust	20 MT/day	---	Brick Manu.
6	Coal rejects/middling and slurry	250 MT/day	---	Sold to third party.

7. **Solid waste Management:**

a) **Char :-** It should be mixed with purchased Coal or Coal washery rejects & then used as fuel in Fluidized bed Combustion Boilers for generation of power or sale to local entrepreneurs for making Coal briquettes. It can also be mixed with coal fines converted to briquettes & used in Brick kilns. In any circumstances it should not be disposed in agricultural fields / other areas. Log book for Char production & uses must be maintained & it should be made available to Boards officials during their inspection/visit.

b) **Kiln accretions:-** Kiln accretions can be used as sub-base materials for road construction.

c) **DRP scrubber sludge:-** The sludge should be compactized & suitably used after ascertaining the composition.

d) **Flue Dust:-** The applicant shall provide adequate reuse/recycling facilities for flue dust generated from ESP or any other Air pollution control system installed at Kiln, Secondary flue dust from bag Filter or any other air Pollution control equipment installed with raw material Handling/Coal crusher, cooler discharge & product house.

8. **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	10	KG/D ay	—	Reuse in klin for firing

9. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.

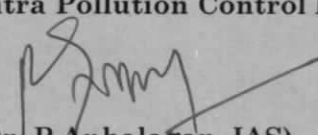
10. The industry shall comply with the directions issued by the Board vide dtd 22.01.21015.

11. Industry shall up-grade ESP to achieve the standard of 75 mg/Nm<sup>3</sup> on or before 30.04.2017 for sponge iron plant & on or before 30.11.2016 for Power Plant as per the minutes of personal hearing extended to the industry & submit BG of Rs. 25/- Lakhs for compliance of the same.

12. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.

13. This consent is issued without prejudice to the order passed or being passed by Hon'ble NGT.

For and on behalf of the  
Maharashtra Pollution Control Board

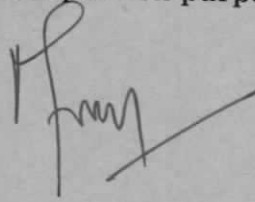
  
(Dr. P Anbalagan, IAS)  
Member Secretary

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1.	10,64,608.00	988877	25.10.2014	Union Bank Of India
2.	32,36,940.00	990754	29.12.2015	Union Bank Of India
3.	10,79,080.00	830090	23.11.2015	Union Bank Of India

Copy to:

1. Regional Officer - Chandrapur and Sub -Regional Officer - Chandrapur, MPCB, Chandrapur. They are directed to ensure the compliance of the consent conditions & submit present status report of the industry every 45 days for review before CAC every two months.
2. Chief Accounts Officer, MPCB, Mumbai.
3. CC/CAC desk- for record & website updation purposes.



Maharashtra Pollution Control Board

### 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 750.0 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.

Sr No.	Parameters	Standards prescribed by Board (If any)
	<b>I. Compulsory Parameters</b>	Limiting Concentration in mg/l, except for pH
01	pH	5.5 to 9.0
02	Oil & Grease	10
03	BOD (3 days 27oC)	100.0
04	Total Dissolved Solids	2100
05	Phenolics (C6H5OH)	1
06	Suspended Solids	100
07	Chloride	600
08	Sulphate	1000
09	Nitrogen/ Nitrate	10

The industrial effluent arising from various sections of power plant shall be given such treatment either collective or individually as the site condition permits that the final quality of effluent shall have following character standards:

#### **I. Condenser Cooling Water**

- |                            |               |  |
|----------------------------|---------------|--|
| 1) pH                      | Between       | 6.5 to 8.5                                     |
| 2) Temperature             | Not to exceed | 5 Degree C. Higher than the intake water Temp. |
| 3) Free Available Chlorine | Not to Exceed | 0.5 mg/l                                       |

#### **II. Boiler Blow Down**

- |                   |               |          |
|-------------------|---------------|----------|
| 1) SS             | Not to Exceed | 100 mg/l |
| 2) Oil and Grease | Not to Exceed | 20 mg/l  |
| 3) Copper (Total) | Not to Exceed | 1.0 mg/l |
| 4) Iron (Total)   | Not to Exceed | 1.0 mg/l |

#### **III. Cooling Tower Blow Down**

- |                            |               |          |
|----------------------------|---------------|----------|
| 1) Free Available Chlorine | Not to Exceed | 0.5 mg/l |
| 2) Zinc                    | Not to Exceed | 1.0 mg/l |
| 3) Chromium (Total)        | Not to Exceed | 0.2 mg/l |
| 4) Phosphate               | Not to Exceed | 5.0 mg/l |

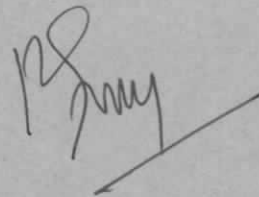
#### **IV. DM Plant Effluent**

- |                       |               |            |
|-----------------------|---------------|------------|
| 1) pH                 | Between       | 5.5 to 9.0 |
| 2) BOD days 27 Deg. C | Not to Exceed | 30 mg/l    |
| 3) COD                | Not to Exceed | 250 mg/l   |
| 4) SS                 | Not to Exceed | 100 mg/l   |
| 5) Oil and Grease     | Not to Exceed | 10 mg/l    |
| 6) TDS                | Not to Exceed | 2100 mg/l  |

- C) The treated effluent shall be recycled in the process for coal washery section & reused in cooling of cooler of klin to the maximum extent and remaining shall be used on land of 100 acres for gardening 745.0 CMD
- 2) A.] As per your consent application, generation of domestic effluent is 55.0 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 27oC.  | Not to exceed | 100 | mg/l. |
- C] The treated sewage shall be soaked in a soak pit, which shall be got cleaned periodically. Overflow, if any, shall be used on land of 100 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	5665.0 CMD
2.	Domestic purpose	75.0 CMD
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	900.0 CMD
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	Nil.

- 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 provided the Air pollution control (APC) system and also 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 <sub>2</sub> Kg/Day
1	bag filter at coal crusher (500 TPD)	Pulse Jet Bag Filter	20.00	NA	NA	NA	NA
2	bag filter sized iron ore screen house (100 TPD)	Pulse Jet Bag Filter	35.00	NA	NA	NA	NA
3	bag filter cooler discharge I & II	Pulse Jet Bag Filter	30.00	NA	NA	NA	NA
4	ESP 500 TPD	ESP (Boiler)	60.00	Coal	1000 TPD	0.5 %	10 TPD
5	bag filter cooler discharge III & IV	Pulse Jet Bag Filter	35.00	NA	NA	NA	NA
6	bag filter surge bin (100 TPD)	Pulse Jet Bag Filter	30.00	NA	NA	NA	NA
7	bag filter product separator circuit (100 TPD)	Pulse Jet Bag Filter	30.00	NA	NA	NA	NA
8	bag filter day-bins (100 TPD)	Pulse Jet Bag Filter	30.00	NA	NA	NA	NA
9	ESP kiln I	ESP	55.00	Coal	200 TPD	0.5 %	2 TPD
10	bag filter lump iron ore crusher house	Pulse Jet Bag Filter	25.00	NA	NA	NA	NA
11	ESP kiln II	ESP	55.00	Coal	200 TPD	0.5 %	2 TPD
12	bag filter sized iron ore screen house	Pulse Jet Bag Filter	35.00	NA	NA	NA	NA
13	ESP kiln III	ESP	55.00	Coal	200 TPD	0.5 %	2 TPD
14	ESP kiln IV	ESP	55.00	Coal	200 TPD	0.5 %	2 TPD
15	ESP AFBC boiler	ESP	100.00	Coal	350 TPD	0.5 %	3.5 TPD
16	bag filter Lump iron ore screen house	Pulse Jet Bag Filter	20.00	NA	NA	NA	NA
17	bag filter day-bins	Pulse Jet Bag Filter	40.00	NA	NA	NA	NA
18	bag filter lump	Pulse Jet	25.00	NA	NA	NA	NA

	iron ore crusher house (100 TPD)	Bag Filter					
19	bag filter cooler discharge	Pulse Jet Bag Filter	35.00	NA	NA	NA	NA
20	bag filter product junction house	Pulse Jet Bag Filter	35.00	NA	NA	NA	NA
21	bag filter product separation house	Pulse Jet Bag Filter	35.00	NA	NA	NA	NA
22	bag filter coal crusher & screen house (100 TPD)	Pulse Jet Bag Filter	20.00	NA	NA	NA	NA
23	bag filter lump iron ore screen house (100 TPD)	Pulse Jet Bag Filter	20.00	NA	NA	NA	NA

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	75 mg/Nm <sup>3</sup>
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**A) Control Equipment:**

The industry shall install a comprehensive control system consisting of control equipments as is warranted with reference to generation of emission and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards.

1. Dust Collector/ESP/Bag Filter/Scrubber of sufficient capacities shall be provided to

- i) FBC Boiler
- ii) WHRSG Boiler
- iii) Cooler (DRP)
- iv) Discharge Building (DRP)
- v) Coal Crusher (DRP)
- vi) Raw Material handling (DRP)

2. The air pollution control system comprising of economizer, air preheater and ESP of sufficient capacities shall be provided to boiler and shall be operated and maintained properly.



3. Coal Handling Plant shall be provided with dust collector, complete dust extraction arrangement automatic water sprinkling with fog nozzles shall be provided wherever necessary for dust suppression. The following shall be taken care as follows

- i) Dust generation points machinery will be covered by hoods.
- ii) Spraying of water as necessary at working area, dump area, stock piles etc.
- iii) Coal shall be properly covered during transportation.
- iv) The applicant shall carry out tree plantation along road side.
- v) Black topping metalled/tarred/MBF slag mixed cement roads shall be provided and well maintained to prevent dust formation.
- vi) Overloading of dumpers shall be avoided to prevent spillages.

4. (i) Adequately designed ESP or Bag filter or wet scrubbing system or other suitable and adequate air pollution system/combination of system should be installed to achieve the prescribed stack emission.

(i) Kiln off gas treatment with efficient dedusting shall be provided. The plant having more than 100 TPD shall use waste Heat Recovery Boiler for generation of power.

(ii) The safety cap/emergency stack or 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. The stack cap to be kept open only during extreme emergency & its opening & closing must be logged & reported to MPCB.

(iii) Inter locking facility should be provided to ensure stoppage of plant in case of failure of the pollution control systems and safety cap of the rotary kiln is bypassing the emissions.

(iv) There shall not be any Secondary (fugitive) emission from the plant.

#### B) Noise Levels Standards

1.00AM – 10.00 PM

10.00 PM-6.00 AM

Noise level Leq 75 dB (9A)

Leq 70 dB (A)

#### C) Fugitive Emission Standards:

The fugitive emissions level of suspended particulate matter (SPM) should not exceed  $3000 \text{ ug/m}^3$ .

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

a) The existing industry shall comply with the standard of  $2000 \text{ ug/m}^3$

b) 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.

**D) Other Conditions:**

- 1) 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 10<sup>th</sup> 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) Dust collector of sufficient capacity provided to coal crusher, pulverisers & all sources of dust emission shall be operated properly.
- 11) Spraying of water on all working area, dump area, stock piles.
- 12) Coal shall be properly covered during transportation.

- 13) Black topper metalled roads shall be provided and well maintained to prevent dust formation.
- 14) Overloading of dumpers shall be avoided to prevent spillage.
- 15) 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.
- 16) The crushers/pulverizers of the coal washery shall be provided with enclosures, fitted with suitable air pollution control measures and finally emitted through a stack of minimum height of 30 m, conforming particulate emission standard of  $150\text{mg}/\text{Nm}^3$  or provided with adequate water sprinkling arrangement.
- 17) Water sprinkling by using the fine atomizer nozzles arrangement shall be provided on the coal heaps and on land around the crusher/pulverizers.
- 18) Area, in and around the coal washery shall be pucca either asphalted or concreted.

**E) 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  $100\text{ mg}/\text{Nm}^3$ . Water sprinkling arrangement should be provided at raw material heaps and on land around he 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.

**F) 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  $100\text{ mg}/\text{Nm}^3$ . (particulate Matter).

- G) Extensive plantation/ Green belt shall be developed along the roads and boundary line of the industry.
- H) Stack, effluent, fugitive emission, noise monitoring shall be done as per CPCB regulation and MPCB's consent conditions.
- I) 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.
- J) 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.

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.

- K) 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.

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).**

**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. 5.0 Lakhs	Forfeited	Installation of additional CAAQMS	Forfeited	Forfeited
2	C to R	Rs. 3.0 Lakhs	Forfeited	Installation of new ash silo	Forfeited	Forfeited
3	C to R	Rs. 2.0 Lakhs	Forfeited	Disposal of solid waste	Forfeited	Forfeited

**Existing BG's**

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 to be extended)	Rs. 10/- Lakhs	15 Days	O & M of Pollution control systems	31.12.2018	30.04.2019
2	C to R (existing to be extended)	Rs. 4/- Lakhs	15 Days	Disposal of solid waste	31.12.2018	30.04.2019
3	C to R (existing to be extended)	Rs. 2/- Lakhs	15 Days	For submission of concrete proposal on the basis of feasibility study for upgradation of APC	31.12.2018	30.04.2019

**Proposed BG's**

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. 25/- Lakhs	15 Days	up-gradation of ESP to achieve the standard of 75 mg/Nm <sup>3</sup> within 18 months for sponge iron plant & within 12 month for Power Plant	31.12.2018	30.04.2019

*[Handwritten Signature]*

#### Schedule-IV

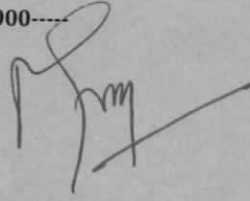
##### **General Conditions:**

- 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 if applicable.
- 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
- 9) /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.
- 10) 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 30<sup>th</sup> June of every year.
- 11) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 12) **The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.**
- 13) 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](http://www.mpcb.gov.in)).
- 14) 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.
- 15) 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.
- 16) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.

- 17) 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.
- 18) 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
- 19) The industry should not cause any nuisance in surrounding area.
- 20) 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.
- 21) The applicant shall maintain good housekeeping.
- 22) 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 31<sup>st</sup> March of the year and number of trees planted by September end, with the Environment Statement.
- 23) 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.
- 24) 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.
- 25) 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.
- 26) 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).
- 27) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 28) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.
- 29) The applicant shall comply with the conditions stipulated in Environmental Clearance for Washery granted by MoEF/GoM vide No. J-11015/272/2007-IA dtd. 09.04.2008. Environment Clearance granted by GoM No. J-13012/123/07-IA-H dated 12.10.2009 for

25 MW WHRB and Environment Clearance granted by GoM vide letter no. ENV(NOC)/2005/747/CR97 dated 28.12.2005 for sponge iron.

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Maharashtra Pollution Control Board