

# MAHARASHTRA POLLUTION CONTROL BOARD

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Red/L.S.I

Date 08/06/2012

Consent No:BO/JD(APC)/EIC No. TN-2672-10/O-CC- GAC-448

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 / Renewal of Authorization under Rule 5 of the Hazardous Wastes (Management, Handling & Transboundary Movement) Rules 2008

[To be referred as Water Act, Air Act and HW (M&H) Rules respectively].

CONSENT is hereby granted to

M/s. Mukand Ltd.  
Dighe, Post - Kalwe.  
Thane- Belapur Road,  
Thane 400 605

located in the area declared under the provisions of the Water Act, Air act and Authorization under the provisions of HW(M&H) Rules and amendments thereto subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following terms and conditions:

1. The Consent to Operate is granted for a period up to: 31/12/2013.
2. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity	UOM
1	Wire Rods, Bars & Casting of Iron.	41670	MT M
2.	Over Head Cranes & Process Plant equipments.	1800	MT M

### 3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed 450 M<sup>3</sup>.
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 175 M<sup>3</sup>.

#### (iii) Trade Effluent :

Treatment: The applicant shall provide comprehensive treatment system consisting of primary / secondary treatment as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of the treated effluent to the following standards:

Sr.no	Parameter	Limit
1	pH	Between 5.5 to 9.0
2	BOD	Not to exceed 100 mg/l
3	COD	Not to exceed 250 mg/l
4	Oil & Grease	Not to exceed 10 mg/l
5	Suspended Solids	Not to exceed 100 mg/l
6	TDS	Not to exceed 2100 mg/l
7	Sulphate	Not to exceed 1000 mg/l
8	Chloride	Not to exceed 600 mg/l
9	Iron	Not to exceed 3.0 mg/l
10	Fluoride (as F)	Not to exceed 2.0 mg/l
11	Total Metal	Not to exceed 5.0 mg/l

- (iv) **Trade Effluent Disposal:** The treated industrial effluent shall be reused/recycled to the maximum extent and remaining treated effluent shall use on land for gardening. There shall not be any discharge outside the factory premises.
- (v) **Sewage Effluent Treatment:** The applicant shall provide comprehensive treatment system as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of treated effluent to the following standards.
- |     |                   |               |           |
|-----|-------------------|---------------|-----------|
| (1) | Suspended Solids  | Not to exceed | 100 mg/l. |
| (2) | BOD 3 days 27o C. | Not to exceed | 100 mg/l. |
- (vi) **Sewage Effluent Disposal:** The treated domestic effluent shall be soaked in a soak pit, which shall be got cleaned periodically. Overflow, if any, shall be used on land for gardening / plantation only.
- (vii) **Non-Hazardous Solid Wastes:**

Sr. No.	Type Of Waste	Quantity	UOM	Treatment & Disposal
1	Furnace Slag	25000	MT/A	Landfill or To be sold for cement manufacturing /road making etc.)
2	Mill Scales	6500	MT/A	Sell to external party.
3	Broken refractory	5700	MT/A	Sell to external party.

(viii) **Other Conditions:** Industry should monitor effluent quality regularly.

**4. The applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 (to be referred as Cess Act) and amendment Rules, 2003 there under**

The daily water consumption for the following categories is as under:

(i) Domestic	...	200.0 CMD
(ii) Industrial Processing	...	320.0 CMD
(iii) Industrial Cooling	...	2250 CMD
(iv) Agriculture / Gardening	...	30.0 CMD

The applicant shall regularly submit to the Board the returns of water consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.

**5. CONDITIONS UNDER AIR ACT :**

(i) The applicant 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:

**a. Control Equipment: -**

1. Bag Filter of sufficient capacity shall be provided to UHP furnace operate continuously.
2. Fume extraction system followed by ventury scrubber of sufficient capacity shall be operate continuously, provided to pickling section & any other sources of gaseous emission.
3. There shall not any secondary (fugitive) emissions

**6. 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. The industry shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise to less than 75 dB(A) during day time and 70 dB(A) during the night time. Day time is reckoned between 6 a.m. to 10 p.m and night time is reckoned between 10 p.m to 6 a.m.
- d. 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.
- e. Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
- f. 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
- g. D.G. Set shall be operated only in case of power failure.
- h. The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set

**Standards for Emissions of Air Pollutants:**

(i)	SPM/TPM	Not to exceed	150	mg/Nm <sup>3</sup>
(ii)	So2	Not to exceed	17.25	T/day
(iii)	Acid mist	Not to exceed	35	mg/Nm <sup>3</sup>

(i) The applicant shall observe the following fuel pattern:

Sr. No.	Type Of Fuel	Quantity	UOM
1	LDO	9.0	KL/D
2	Furnace Oil	173.0	KL/D
3	LPG	17.0	MT/D

(ii) The applicant shall erect the chimney(s) of the following specifications:-

Sr. No.	Chimney Attached To	Height in Mtrs.
1	Boiler MR-1189	30
2	Grinding Machine CM-4	20
3	Wire Rod Mill (BRF-New)	53
4	Blooming Mill (BRF)	45
5	Non IBR Boiler (WRM)	15
6	Shot Blasting Machine-2	15
7	Annealing Furnace-1 & 2	30
8	Gega cutter exhaust Blower	20
9	Non IBR Boiler (CFD)	30
10	UHPF/Converter	34
11	Grinding Machine CM-1	15
12	Scrubber tank-1 exhaust	15
13	Scrubber tank-2 exhaust	15
14	Grinding Machine CM-3	15
15	Bar Mill (BRF)	32
16	Heat treatment Furnace	25
17	5 MT/20 MT Furnace	38
18	Annealing Furnace-3 &4	30
19	Shot Blasting Machine	20
20	Scrubber tank-3 exhaust	15
21	Shot Blasting Machine-1	15
22	Shot Blasting Machine-3	15
23	Boiler MR-10965	30
24	LRF Exhaust Blower	32
25	Heat Treatment Furnace	16
26	Grinding Machine CM-2	15

(iii) 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.

(vi) **Other Conditions:**

- 1) The industry should not cause any nuisance in surrounding area.
- 2) The industry should monitor stack emissions and ambient air quality regularly.

**7. CONDITIONS UNDER HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDARY MOVEMENT) RULES, 2008:**

(i) The Industry shall handle hazardous wastes as specified below.

Sr. No	Type Of Waste	Quantit	UOM	Disposal
1	5.1 Used/Spent Oil	100	MT/Y	To be sent authorized party
2	12.1 Acid residue	1592	MT/Y	At CETP (after neutralization) or Authorized regenerator
3	34.1 Flue gas cleaning residue	2400	MT/Y	At CHWTSDF or Reuse in melting
4	34.3 Chemical sludge from waste water treatment	2000	MT/Y	At CHWTSDF
5	5.2 Oil laden cotton / hosiery waste	3	MT/M	At CHWTSDF for Incineration
6	33.3 Empty paint drums	300	Nos./M	Reuse in melting as scrap or To be sent to external party.
7	3.3 Tank Bottom Sludge	225	MT/Y	To be sent authorized party

- (ii) Treatment: - NIL
- 1. The authorization is hereby granted to operate a facility for collection, storage, transport & disposal of hazardous waste.
- 2. The industry should comply with the HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDARY MOVEMENT) RULES, 2008.
- a. 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.
- b. The unit has to display and maintain the data outside the factory main gate on a 6'x4' display board in the manner and the report of the compliance along with photograph shall be submitted to this office & concerned Regional Office/ Sub Regional Office.
- c. It shall be ensured that the Hazardous waste is handled, managed & disposed of strictly in accordance with the HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDARY MOVEMENT) RULES, 2008 and shown & submitted to the Board as & when asked for.

**8. Industry shall comply with following additional conditions:**

- i. The applicant shall maintain good housekeeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area inhabitants.
- ii. The applicant shall bring minimum 33% of the available open land under green coverage/ tree plantation.
- iii. Solid waste - 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 to dumping ground.
- iv. The applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by he applicant 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 & conditions of this consent regarding pollution levels.
- v. The applicant shall not change or alter 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.
- vi. The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous wastes to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- vii. The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.
- viii. The firm shall submit to this office, the 30<sup>th</sup> day of September every year, the Environmental Statement Report for the financial year ending 31<sup>st</sup> March in the prescribed Form-V as pre the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- ix. As inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- x. The industry shall install three ambient quality monitoring station at three different location in consultation with the Board & submit the results on fortnightly & also submit stack monitoring result fortnightly to the board

- xi. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes / sewers down- stream of the terminal manholes. No effluent shall find its way other than in designed and provided collection System.
- Xii This Board reserves the right to amend or add any conditions in this consent and the same shall be binding on the Applicant.
9. The applicant shall comply with the conditions specified in environmental Clearance granted by MoEF, GOI Vide Letter No. F.No. J-11011/06/2008-IA(II) dated 22<sup>nd</sup> September 2008
- 10 This is issued with approval of Consent Appraisal Committee meeting of the Board held dtd. 29/05/2012.
11. Industry shall dismantle existing Power Plant within one Year period.
12. You shall submit Bank Guarantee of Rs.5/- Lakh in favor of Regional Officer Thane within 15 days against compliance of the condition No.11. The Bank Guarantee shall be valid for one year
13. This consent is issued in supersession of earlier consent vide No.BO/JD(APC)/EIC No. TN-2672-10/O-CC-CAC-130 dated 03/01/2012
14. The Capital investment of the industry is Rs. 521.53/-Crs

  
 (Milind Mhaiskar IAS)  
 Member Secretary

To,  
 M/s. Mukand Ltd.  
 Dighe, Post - Kalwe,  
 Thane- Belapur Road,  
 Thane 400 695

Copy to:

RO- MPCB Thane /SRO-MPCB Thane-1- They are directed to ensure the compliance of consent conditions & obtain B.G. of Rs. 5 Lakhs from the industry & submit the status report within 1 month period

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	15,64,590/-	009022	10/12/2010	ICICI Bank
2	17,21,240/-	019546	24/12/2011	ICICI Bank

\* Consent fees received as per revised consent fees G.R. of Env't. Dept. GoM dated 25/08/2011.