

**MAHARASHTRA POLLUTION CONTROL BOARD**

Office of the Director  
 Maharashtra Pollution Control Board  
 Maharashtra State Building, 100, 101 & 102, 1st Floor,  
 100, 101 & 102, 1st Floor, 100, 101 & 102, 1st Floor,  
 100, 101 & 102, 1st Floor, 100, 101 & 102, 1st Floor,

MAHARASHTRA  
 POLLUTION CONTROL BOARD

Kopergaon Road, 100, 101 & 102, 1st Floor, Shiv Matunga  
 Scheme Road, 100, 101 & 102, 1st Floor, Shiv Matunga, Near  
 Shiv Matunga, Shiv Matunga  
 Mumbai - 400007

Format 1.0/BO/CAC-Cell/EIC No. TN 4588

Date: 22/03/2015

To,  
 M/s Mukand Ltd  
 Thane-Belapur Road,  
 Post Office Kalwe,  
 Thane-400004

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

Ref : 1. Earlier Consent granted vide no. Format1.0/BO/CAC-Cell/EIC No. TN 489-14/2nd CAC/CAC-4594  
 2. Minutes of CAC meeting held on 25.03.2015

Your application: CR1412000337  
 Dated: 01.12.2014

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:

- The consent is granted for a period from 01.03.2015 to 28.02.2016.
- The actual capital investment of the industry is Rs.589.74 Crs. (As per C. A. Certificate submitted by industry)
- The Consent is valid for the manufacture of-

Sr. No.	Product Name	Maximum Quantity in MT/M
1	Wire rods, Bars and Castings of Iron	41670
2	Overhead cranes, Process plant equipments	1800

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	720	As per Schedule -I	Part is recycled and used on land for gardening. Remaining is sent to CETP.
2.	Domestic effluent	175	As per Schedule -I	Septic Tanks followed by soak pits

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

Sr. no.	Description of stack / source	Quantity of Stack	Standards to be achieved
2.	Process stack	1.24	As per Schedule II

6. Conditions for treatment and disposal of Non-hazardous waste:


Sr. no.	Waste	Quantity	Unit	Frequency	Disposal
1	Furnace slag	25000.00	MT/A	-	Land fill within the premises or Sale.
2	Mill scales	6500.00	MT/A	-	Sale to external parties
3	Broken refractory	5700.00	MT/A	-	Land fill within the premises or Sale.

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

Sr. no.	Waste	Quantity	Unit	Frequency	Disposal
1	Used/Spent Oil	5.1	100	MT/Y	- Auth. reprocessor
2	Oil Laden Cotton	5.2	36	MT/Y	- CHWTSDF
3	Acid Residue	12.1	1592	MT/Y	- CETP/ Authorized Regenerator
4	Flue gas cleaning residue	34.1	2400	MT/Y	- CHWTSDF or Reuse.
5	ETP Sludge	34.3	2000	MT/Y	- CHWTSDF
6	Tank Bottom Sludge	3.3	225	MT/Y	- Sale to authorised party.
7	Empty paint drums	33.3	3600	Nos/Y	- Reuse in melting./To be send to external party.
8	Electronic Waste / E-Waste	B-1110	5	MT/Y	- Sale to CPCB/MPCB Authorized reprocessor

11. The Board reserves the right to review, amend, suspend, revoke etc. this consent, and the same shall be binding on the industry.
12. Industry to install RST within 3 months.
13. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government or authorities.

For and on behalf of the  
Maharashtra Pollution Control Board

  
(Dr. P. Anbalagan, IAS)  
Member Secretary

Received Consent fee of:-

No.	Amount	Chq. No.	Date	Bank Name
1	12,79,580/-	262886	25.11.2014	ICICI Bank

Copy to:

1. Regional Officer -Thane and Sub-Regional Officer-Thane-I MPCB
2. Chief Accounts Officer, MPCB, Mumbai.
3. CC/CAC desk- for record & website updation purposes.

Schedule-I

Terms and conditions for compliance of Water Pollution Control

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 (ETP) with the design capacity of 400 CMD & 300 CMD separately for pickling section and cooling section respectively. 300 CMD of pickling effluent goes to ETP of capacity 400 CMD. 100 CMD of cooling water blow gets treated in ETP of capacity of 450 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)
		Limiting Concentration in mg/l, except for pH
01	pH	5.5 to 9.0
02	Oil & Grease	10
03	Suspended Solids	100
04	BOD 3 Days 27 degree C	100
05	COD	250
06	TDS	2100
07	Sulphates	1000
08	Chlorides	600
09	Fluoride (as F)	2.0
10	Iron	3.0
11	Total metal	10.0

C] The treated effluent from pickling section gets reused (50 CMD) and remaining is sent to CETP (270 CMD).  
 The treated effluent from cooling water gets recycled (350 CMD) and 50 CMD is used for gardening.

2) A.] As per your consent application, you have provided the septic tanks and soak pits at different location in the industry premises.

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.



- 4) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of wastewaters for the purification process & the system for the disposal of sewage or trade effluent or to consultation with the grant of any consent application. The Applicant shall ensure that the design of the treatment and disposal system or any extension or addition thereto.
- 4) The Applicant 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	2250
2.	Domestic purpose	200
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	320
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0
5.	Other such as agriculture and gardening	30

- 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.

*M. J. J.*

Submittal

Terms & conditions for compliance of Air Pollution Control:

APCC system and also erected following test cell and to observe the following fuel pattern-

No.	Particulars	Control System	Capacity	Fuel	Quantity	Calorific Value	Efficiency
1	Boiler MR - 11898	Fine Monitoring of Air Fuel combustion.	30 L	FO	6 KL/D	4.5	22.5
2	Grinding machine CM - 4	Dust collection system	20	--	--	---	---
3	Wire rod mill (BRF - New)	Recuperator.	53	FO	28 KL/D	4.5	104.94
4	Blooming mill (BRF)	----	45	FO	15.5 KL/D	4.5	58.4
5	WRM - Hot Water Generator	----	15	LDO	2 KL/D	1.8	2.98
6	Shot blasting machine - 2	Dust collection system	15	--	----	---	---
7	Annealing furnace - 1 & 2	Recuperator	30	LDO	1 KL/D	1.8	1.5
8	Gega cutter exhaust blower	----	20	LPG	17 MT/D	Nil	Nil
9	Heat Treatment Furnace	----	16	LPG			
10	CFD - Hot Water Generator	----	30	LDO	1 KL/D	1.8	1.5
11	UHPF / Converter	Fume extraction de-dusting system	34	--	---	---	---
12	Grinding machine CM - 1	Dust collection system	15	--	---	---	---
13	Scrubber tank - 1 exhaust	Scrubbing system	15	--	--	---	---
14	Scrubber tank - 2 exhaust	Scrubbing system	15	--	--	---	---
15	Grinding machine CM - 3	Dust collection system	15	--	--	---	---
16	Bar mill (BRF)	----	32	FO	5.5 KL/D	4.5	20
17	Heat treatment furnace -MBD	----	16	LDO	0.2 KL/D	1.8	0.3
18	5 MT / 20 MT furnace	Recuperator	38	LDO	5 KL/D	1.8	7.5
19	Annealing furnace - 3 & 4	Recuperator	30	LDO	1 KL/D	1.8	1.5
20	Shot Blasting Machine	Dust collection system	20	--	--	---	---
21	Scrubber tank - 3	Scrubbing	15	--	--	---	---

22	Exhaust Sinter Machine	Dust collection system	15				
23	Exhaust Machine	Dust collection system	15				
24	Boiler No. 1	Fine Monitoring of Air Fuel combustion.	80	10	60	15	22.5
25	LRP exhaust blower	---	32				
26	Grinding machine CM - 2	Dust Collection System	15	--	---	---	---

- 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.
- 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	150 mg/Nm <sup>3</sup> .
Acid Mist	Not to exceed	25 mg/Nm <sup>3</sup>

- 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.
- 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

No.	Particulars	Amt of Guarantee	Submission	Purpose of the Guarantee	Commencement	Validity
1	C to R	Rs 5 Lakhs	Within 15 days from the date of issue of consent	G & M of PCE	30.02.2016	30.06.2016
2	C to R	Rs 5 Lakhs	Within 15 days from the date of issue of consent	For installation of STP	6 months	30.06.2016

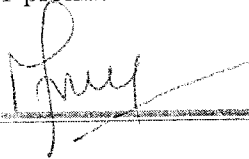
*(Handwritten Signature)*



#### Schedule-IV

##### General Conditions:

- 1) The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, effluents and hazardous waste in the consent area. The applicant shall maintain records of the same for the purpose of monitoring compliance with this consent.
- 2) If the MHD pipeline is broken or overflowing chamber, in such cases industry shall not discharge their treated effluents to MHD 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 posts 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 event 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 30<sup>th</sup> 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](http://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) ~~Provision for effluent~~
- 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 yearly statement by 30th September every year 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.
- 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 official e-mail address and any change will be duly informed to the MPCB.
- 26) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dtd. 16.11.2009 as amended.

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