

# MAHARASHTRA POLLUTION CONTROL BOARD

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Mumbai - 400 022.

RED/LSI

Consent No. BO/ RO-Mumbai/AS(T)/EIC No. MU-3046-11/CC-

CAG-443

Date 07/06/2012

Consent to Establish under Section 25 of the Water (Prevention & Control of pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorisation / Renewal of Authorisation 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. Wockhardt Hospitals Pvt. Ltd.  
C/s Plot No. 1877, Dr. Anand Rao  
Nair Marg, Near Police Station,  
Agripada, Byculla, Mumbai

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 Establish is granted for a period upto - Commissioning of the Unit or five years which ever is earlier. For Construction of Hospital (320 No. of Beds and cafeteria/canteen) Project Total built-up area 25,015.26 m<sup>2</sup> and Total Plot area 3,586.98 m<sup>2</sup> and services as per Commencement Certificate of local body.

2. The Consent is valid for-

<u>Sr. No.</u>	<u>Product</u>	<u>Maximum Quantity</u>
1.	Hospital activity including cafeteria/canteen (Without laundry activity)	320 Nos. of Beds

3. CONDITIONS UNDER WATER (PREVENTION & CONTROL OF POLLUTION) ACT, 1974:

(i) The daily quantity of trade effluent shall not exceed NIL.

(ii) The daily quantity of sewage effluent from the factory shall not exceed 242 m<sup>3</sup>

(iii) Trade Effluent Treatment and Disposal: NIL

(iv) Sewage Effluent: The applicant shall provide comprehensive treatment system consisting of primary / secondary and/or tertiary treatment 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)	pH	Between	6.5 to 9.0	
2)	Suspended Solids	Not to exceed	100	mg/l
3)	BOD 3days 27 Deg. C.	Not to exceed	100	mg/l
4)	Fecal Coliform	Not to exceed	500/100	ml
5)	Residual Chlorine	Not to exceed	1	mg/l
6)	Detergent	Not to exceed	1	mg/l
7)	Floating Matters	Not to exceed	10	mg/l

(v) Sewage Effluent Disposal: The treated domestic effluent shall be 80% recycled and reused for flushing, fire fighting and cooling of Air conditioners and remaining shall be discharged into municipal sewer. In no case, effluent shall find its way to any water body directly/indirectly at any time.

The project authorities should opt environment friendly technologies like ozonation, UV treatment etc by replacing chlorination.

(vi) **Non-Hazardous Solid Waste :-**

The total quantity shall be segregated and treated as follows: -

Sr	Type of Segregated solid waste	Quantity	Treatment	Disposal
1	Bio-degradable waste	295 Kg/Day	Composting	MCGM
2	Non-biodegradable waste	196.80 Kg/Day	Sale/sent to	MCGM
3	STP Sludge	50.00 Kg/Day	composting	Used as Manure

4. **Other conditions (During Construction Phase):**

2. All activities shall be in resonance with the provisions of Indian Forest Act, 1927 (16 of 1927), Forest (Conservation) Act, 1980 (69 of 1980) and Wildlife (Protection) Act, 1972 (53 of 1972), CRZ notification, and special notifications published for area wherever applicable and all the Environmental Statutes and Instruments.
3. This Consent to Establish is issued only for Developing Construction Project purposes.
4. No quarrying activities shall be commenced in the area unless appropriate permissions are obtained for a limited quarrying material required for construction of local residential housing and traditional road maintenance work, provided that such quarrying is not done on Forest Lands and the material is not exported to the outside area.
5. There shall be no felling of trees whether on Forest, Government, Revenue or Private lands except as per prevailing Rules.
6. Extraction of Groundwater for the residential complex shall require prior permission of the State Ground Water Authority or other relevant authorities, as applicable;
7. Near the activities that are related to water (like activity of water parks, water sports) and/or in the vicinity of lake, Dissolved Oxygen shall not be less than 5 mg/liter.
8. In order to ensure that the water from this residential complex do not enter into outside environment, the nallas crossing the township/complex premises, shall be lined, covered and made water tight by the applicant within the premises with intermittent inspection of chambers following good engineering practices as per the regulations of local body. This management shall be such as also to help in excluding the external pollutants degrading the internal environment of residential complex.
9. The Applicant shall provide fixtures for showers, toilet, flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.
10. The Applicant shall prepare management plan for water harvesting, roof-water reclamation, water/storm water conservation and implement the same before handling over of complex for occupation.
11. The Applicant shall draw plans for the segregation of solid wastes into biodegradable and non-biodegradable components. The biodegradable material shall be recycled through scientific in-house composting with the approval of local body and the inorganic material shall be disposed off at approved Municipal Solid Waste landfill site of local body environmentally acceptable location and method. It is clarified that the term solid waste includes domestic, commercial, and garden wastes, but does not include hazardous and bio-medical wastes. The activities of bio-composting and engineered land fill shall be as per the Municipal Solid Waste (M&H) Rules, 2000
12. Applicant shall be responsible to take adequate precautionary measures as detailed in this consent
13. **The applicant/generator shall be responsible for safe and scientific collection, transportation, treatment and disposal of Bio-Medical Waste as per the provisions made under the Bio-Medical Waste (Management & Handling) Rules, 1998. Any activity as defined under BMW (M & H) Rules has to obtain a separate Authorization from Maharashtra Pollution Control Board.**
14. The applicant shall provide sufficient parking space for parking of four wheelers for residential area.
15. For disinfection of waste water ultra violet radiation shall be used in place of chlorination.
16. Ready mixed concrete used in building construction stage should apply separately for consent from the Board.
17. The applicant, during the construction stage shall provide.
  - u) Septic tank and soak pit of adequate capacity for the domestic effluent generated due to workers residing at site.
  - v) Proper loading and unloading of construction material, excavated material and its proper disposal as per MSW (M&H) Rules 2000.

- w) Cutting of trees is not permitted, however in unavoidable conditions necessary permission from the local body shall be obtained.
- x) Green belt of 33% of the open space shall be developed excluding lawns.

4. The Applicant shall comply with all the provisions of, the Water (Prevention and Control of Pollution) Cess Act, 1977 (to be referred as Cess Act) and Rules as Amended, 2003 and Rules there under: -

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

(i) Domestic	...	302	CMD
(ii) Cooling	...	118	CMD
(iii) Flushing	...	---	CMD
(iv) Gardening	...	67	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 which is also available on MPCB website at <http://mpcb.mah.nic.in/images/cessform1.pdf>

5. **CONDITIONS UNDER AIR (PREVENTION & CONTROL OF POLLUTION) ACT, 1981:**

- (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:** Air pollution control equipments of adequate capacity shall be provided to limit the emissions.

**B) Conditions for D.G. Set:-**

- 1] Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
- 2] 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 m from acoustic enclosure/room and then average.
- 3] 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 55 dB(A) during day time and 45 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.
- 4] 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.
- 5] Installation of DG Set much be strictly in compliance with recommendations of DG Set manufacturer.
- 6] 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.
- 7] D.G. Set shall be operated only in case of power failure.
- 8] The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.

**C) Standards for Emissions of Air Pollutants:**

(i)	SPM/TPM	Not to exceed	150	mg/Nm <sup>3</sup>
(ii)	SO <sub>2</sub>	Not to exceed	3.2	Kg/Day.

- (ii) **The applicant shall observe the following fuel pattern: -**

<u>Sr. No.</u>	<u>Type of Fuel</u>	<u>Quantity</u>
1.	HSD	20 Lit/hr

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

<u>Sr. No.</u>	<u>Chimney attached to</u>	<u>Height in m</u>
1.	DG Set (100 KVA)	2*
2.	DG Set (1015 KVA) (*2 Nos.)	6.4* each

(\* above the height of building where the DG set is installed)

- (iv) 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.

(v) **Other Conditions:**

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

(vi) **Condition for Kitchen: -**

- (a) The kitchen shall be provided with exhaust system chimney with oil catcher connected to chimney through ducting.
  - (e) The toilet shall be provided with exhaust system connected to chimney through ducting.
  - (c) The air conditioner shall be vibration proof and the noise level shall not exceed 68 dB (A).
  - (d) The exhaust hot air from A.C. shall be attached to Chimney at least 5 m higher than the nearest tallest building through ducting and shall discharge into open air in such way that no nuisance is caused to neighbors.
- (vii) 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.
- (viii) Construction equipments generating noise of less than 65/90 db(A) are permitted.
- (ix) No construction work is permitted during nighttime.

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

(i) The applicant shall handle hazardous wastes as specified below:

Sr. No.	Item No. of Process generating HW as per Schedule-I	Type of Waste	Quantity	Disposal
1	5.1	Used oil	10 Litrs/M	Sale to authorised reprocessor
2.	33.3	Discarded Containers/Barrels	1.00 No./M	Return to Party/Sale to authorized scrap vendor

(ii) Treatment : --

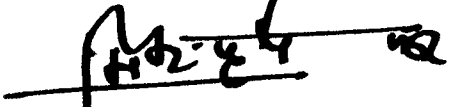
(iii) The authorisation is hereby granted to operate a facility for collection, storage, transport and disposal of hazardous waste.

7. 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.

8. **General Conditions :**

1. The applicant shall maintain good house keeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area/inhabitants.
2. The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30<sup>th</sup> 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.
3. 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.
4. The applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the 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 and conditions of this consent regarding pollution levels.
5. 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.

6. 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.
  7. The applicant shall make an application for renewal of the consent at least 60 days before the date of expiry to the consent.
  8. 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 per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
  9. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
  10. 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.
  11. 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 down stream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
  12. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
  13. 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.
9. The applicant shall comply the conditions stipulated in Environmental Clearance granted by GoM, vide no. SEAC-2009/CR.14/TC.3 dtd. 12.10.2011.
10. The applicant shall submit an Irrevocable Bank Guarantee of Rs. 10 Lakh valid for one year in favour of Regional Officer, MPCB, Mumbai and submit the same at Regional Office, Mumbai within 15 days period for ensuring the compliance of consent conditions.
11. The applicant shall adopt environment friendly technology in development of the project.
12. This is issued pursuant to the decision of Consent Appraisal Committee meeting held on 29.05.2012 of the Board.
13. The applicant shall obtain Consent to Operate before Actual Commencement for the production activity.
14. This Board reserves the right to amend or add any conditions in this consent and the same shall be binding on the Applicant.
15. The capital investment of the said project is Rs. 208 Crs.

  
(Milind Mhaiskar)  
Member Secretary

To,  
M/s. Wockhardt Hospitals Pvt. Ltd.,  
Wockhardt Towers, Bandra-Kurla Complex, Bandra (E), Mumbai-051

Copy to:  
RO-Mumbai / SRO-Mumbai-I/CAO/ Cess Branch/ Master File

Received Consent fee of -

Amount	D.D. No.	Date	Drawn on
Rs.208000	000230	5/10/2011	IDBI
Rs. 208000	000267	14/10/2011	IDBI
Rs.100	000231	05/10/2011	IDBI