

# MAHARASHTRA POLLUTION CONTROL BOARD

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**Infrastructure Project/LSI.**

**Consent No. BO/RO (P&P)/EIC No. NG-1510-08/E/CC-423**

Date: 6/11/08 / 14/11/2008

**Consent to Establish is granted to M/s. Fire Arcor Infrastructure Pvt Ltd**  
 Mouza Kotewada, Tal Hingna,  
 Dist Nagpur

located in the area declared under the provisions of Water Act (P&CP) 1974, Air Act (P&CP), 1981 and Authorization under the provisions of H.W (M & H) Rules and amendments thereto subject to the provisions of the Acts 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 valid up to Commissioning of the Project.**

For development of land/plot as new construction activities for construction of Township project named as **M/s. Fire Arcor Infrastructure Pvt Ltd**, Mouza Kotewada, Tal Hingna, Dist Nagpur, on total plot area of **203.230 Acres** & built up area **809400 Sq. mtrs** including utilities and services such as per construction commencement certificate issued by local body.

**2. CONDITIONS UNDER WATER (Prevention & Control of Pollution) ACT, 1974: -**

- (i) The quantity of sewage effluent from above construction project shall not exceed **4538 M<sup>3</sup>/Day**.
- (ii) **Sewage Effluent Treatment:** The Applicant shall provide a comprehensive sewage treatment plant and treatment as is warranted with reference to influent quality and corresponding mode of disposal 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 27 CC.	Not to exceed	100	mg/l

**(iii) Sewage effluent Disposal: -**

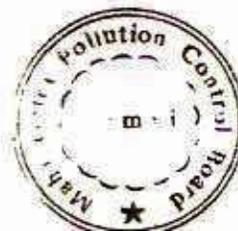
The treated domestic effluent shall be 80 % recycled and reused for flushing, fire fighting and cooling of Air conditioners and remaining shall be utilized on land for gardening. In no case, effluent shall find its way to any water body directly/indirectly at any time.

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

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

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

Sr. No.	Type of Segregated solid waste	Quantity T/Day	Treatment (After Segregation)	Disposal
1	Dry Garbage	06	---	Authorised recycler
2	Wet Garbage	08	---	Composting



**Other Conditions: -**

1. 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), and special notification published for area wherever applicable and all the Environmental Statutes and Instruments.
2. This Consent to Establish is issued only for New Construction/Developing Construction Project purposes.
3. 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.
4. There shall be no felling of trees whether on Forest, Government, Revenue or Private lands except as per prevailing Rules.
5. Extraction of Groundwater for the project shall require prior permission of the State Ground Water Authority or other relevant authorities, as applicable;
6. 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.
7. In order to ensure that the water from this project 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.
8. The Applicant shall prepare management plan for water harvesting, roof-water reclamation, water/storm water conservation and implement the same before handing over of complex for occupation.
9. 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 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 (i.e vermi-composting facility within premises) with the approval of local body. The proper demarked area shall be identified for collection & storage of MSW properly which, shall be finally 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 landfill shall be as per the Municipal Solid Waste (M&H) Rules, 2000.
11. Applicant shall be responsible to take adequate precautionary measures as detailed in this consent.
12. 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.
13. For disinfections of waste water ultra violet radiation shall be used in place of chlorination.
14. Vehicles hired for construction activities should be operated only during non peak hours.
15. Ready mixed concrete used in building construction should apply separately for consent from the Board.
16. The applicant, during the construction stage shall provide
  - a) Septic tank and soak pit of adequate capacity for the domestic effluent generated due to workers residing at site.



- b) Proper loading and unloading of construction material, excavated material and its proper disposal as per MSW (M&H) Rules 2000.
- c) Cutting of trees is not permitted, however in unavoidable conditions necessary permission from the local body shall be obtained.
- d) Green belt of 33% of the open space shall be developed.
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 shall not exceed, as under

(i) Domestic	From ULB (In CMD)	From other sources (In CMD)
a) Domestic	5043	NA
b) Make up water for cooling tower	--	NA
c) Make up for fire fighting	--	NA
d) Agriculture/Gardening	1200	NA

5. **CONDITIONS UNDER AIR (Prevention & Control of Pollution) ACT, 1981: -**

The Applicant may install 01 nos. of diesel generating sets (DG Sets), of capacity 1 x 10 MW and shall be equipped with comprehensive control system as is warranted with reference to generations of emissions and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards: -

(i) **Standards for emissions of air Pollutants**

i)	SPM/TPM	Not to Exceed	150	mg/Nm <sup>3</sup>
ii)	SO <sub>2</sub> (DG set)	Not to Exceed	562	Kg/day

(ii) **The following measure shall be taken.**

- a) Adequate mitigation measures shall be taken to control emissions of SO<sub>2</sub>, NO<sub>x</sub>, SPM, RSPM.
- b) Applicant shall achieve following Ambient Air Quality standards.

1	SPM	Not to Exceed (Annual Average)	140	µg/ m <sup>3</sup>
		Not to Exceed (24 hours)	200	µg/ m <sup>3</sup>
2	SO <sub>2</sub>	Not to Exceed (Annual Average)	60	µg/ m <sup>3</sup>
		Not to Exceed (24 hours)	80	µg/ m <sup>3</sup>
3	NO <sub>x</sub>	Not to Exceed (Annual Average)	60	µg/ m <sup>3</sup>
		Not to Exceed (24 hours)	80	µg/ m <sup>3</sup>
4	RSPM	Not to Exceed (Annual Average)	60	µg/ m <sup>3</sup>
		Not to Exceed (24 hours)	100	µg/ m <sup>3</sup>

(iii) **The Applicant shall observe the following fuel patterns**

No.	Type of Fuel	Quantity
1	Diesel	1170 Lit/Hr

(iv) **The Applicant shall erect the Chimney (s) of the following specifications**

No.	Chimney attached to	Height
1	D.G Set 1 x 10 MW	36 mtrs



(v) **Conditions for DG Sets: -**

1. Noise from DG Sets shall be controlled by providing acoustic enclosure or by treating the room acoustically.
2. Applicant should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room shall 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 shall be done at different points at 0.5 meters from acoustic enclosure/ room and then average.
3. The Applicant should make efforts to bring down noise level due to DG Set, outside the premises, with ambient noise level requirements by proper setting and control measures.
4. Installation of DG Set must be strictly in compliance with recommendations of DG set manufacturer.
5. A proper routine and preventive maintenance procedure for DG Set shall be set and followed in consultation with the DG manufacturers, which would help to prevent noise levels of DG Sets from deteriorating with use.
6. The DG set shall be operated only in case of power failure. The applicant shall make arrangement for regular electrical power.
7. The Applicant shall not cause any nuisance in the surrounding area due to operation of DG sets.
8. In case of problems, the D.G. set shall not be operated until it is set back to satisfactory position.

(vi) **Other Conditions:**

- a) The Applicant shall provide ports in the chimney 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 chimneys shall be numbered, as S-1, S-2 etc and these shall be painted/ displayed to facilitate identification.
- b) Water spraying shall be done on ground to avoid fugitive emissions.
- c) Construction material shall be carried in enclosed vehicles during construction activities.

(vii) **Conditions For Utilities like Kitchen, Eating Places etc: -**

1. The kitchen shall be provided with exhaust system chimney with oil catcher connected to chimney through ducting.
2. The toilet shall be provided with exhaust system connected to chimney through ducting.
3. The air conditioner shall be vibration proof and the noise shall not exceed 68 dB (A).
4. The exhaust hot air from A.C. shall be attached to Chimney at least 5 mtrs. higher than the nearest tallest building through ducting and shall discharge into open air in such way that no nuisance is caused to neighbors.

- (viii) The Applicant shall take adequate measures for control of noise levels from its own sources within the complex (residential cum Commercial) in respect of noise to less than 55 dB(A) during day time and 45 dB(A) during the night time. Daytime is reckoned as between 6 a.m. to 10 p.m. and Nighttime is reckoned between 10 p.m. to 6 a.m.

- (ix) Construction equipments generating noise of less than 65/90 db(A) are permitted.

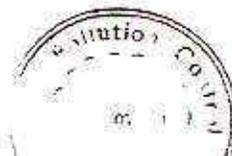
- (x) No construction work is permitted during nighttime.

**6. CONDITIONS UNDER HW (M & H) & AMENDMENT RULES 2003**

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

Sl.	Item No. as per Sch-I	Type of Waste	Quantity	Disposal
01	5.1 & 5.2	Used oil/Waste Oil	20 Lit/M	MPCB/CPCB authorized recycler/reprocessor

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



7. The applicant shall certify that the bricks used in construction are manufactured using the ash from Thermal Power stations if it is within a radius of 100 km. from Thermal Power Plant and submit the names of bricks manufacturer.
8. The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board before commissioning of the project.
9. The applicant shall adopt environment friendly technology in development of the project.
10. The applicant shall take the proper remediation measures to ensure that the ground water and soil contamination is prevented and follow due diligence at the construction stage.
11. The applicant shall use fly ash based material/products as per the provisions of fly ash Notification of 14.09.1999 and as amended on 27.08.2003.
12. Energy conservation measures like installation of solar panels for lighting the area outside the building should be integrated part of the project design.
13. The applicant should not take any effective steps for implementation of the project before obtaining Environmental Clearance as per EIA Notification 2006 and amendments thereto.
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. This consent is issued pursuant to the decision of Consent Appraisal Committee meeting held on 23.09.2008 of the Board
16. The capital investment of the project is Rs. 820/- crores.



To  
**M/s. Fire Arcor Infrastructure Pvt Ltd**  
 Mouza Kotewada, Tal Hingna,  
 Dist Nagpur

For and on behalf of the  
 Maharashtra Pollution Control Board

*(Signature)*  
**(Sanjay Khandare)**  
 Member Secretary

**Copy forwarded with compliments to:**  
 The Collector, Nagpur.

**Copy to -**

1. Regional Officer, MPC Board, Nagpur.
2. Sub Regional officer, MPC Board, Nagpur.
3. Chief Accounts Officer, MPC Board, Mumbai.

**Received consent fee of -**

Amount	D. D. No.	Date	Drawn on
Rs. 8,20,000/-	50110	02.04.2008	Axis Bank Ltd

4. Cess Branch, MPC Board, Mumbai.
5. Master file.