

# MAHARASHTRA POLLUTION CONTROL BOARD

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Mumbai-400 022.

Consent Order No: - Format1.0/BO/CAC-cell/UAN No. 0000046536/CE/ *CAC-1805001931*

Date- *31* /05/2018.

To,  
M/s. Mumbai Metro Rail Corporation Limited,  
CTS No. 9(pt), 10 (pt), 11 (pt), 12(pt) and 13 (pt),  
Vill. Pajrapur, Andheri, Mumbai Suburban.

Sub: Consent to Establish for Metro Line – 3 Car Shed Maintenance Depot and Workshop activity in Red Category.

**Ref:**

1. Clarification regarding applicability of EIA Notification 2006 received from Scientist 'D'/Joint Director vide No. F. No. -19-130/2015-IA.III dated 20.11.2015.
2. Your online application (UAN No. 0000046536) dtd. 05.04.2018.
3. Minutes of Consent Committee meeting held on 10.08.2017.

Your application Dated: 05.04.2018.

For: Consent to Establish for Metro Line – 3 Car Shed Maintenance Depot and Workshop activity in Red category 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 Authorization under Rule 6 of the Hazardous & Other Waste (M, H & T M) Rules 2016 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 to Establish is granted for a period upto Commissioning of the project or 5 years whichever is earlier.
2. The proposed capital investment of the project is Rs. 390.27 Crores. (As per CA Certificate submitted by project proponent).
3. The Consent to Establish is valid for following activity:

Sr. No.	Activity	Quantity
1.	Metro Line -3 Car shed Maintenance Depo and Workshop Activities (Total Plot Area – 3,00,000 Sq. Mtrs and BUA -25,550 Sq. Mtrs)	--

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	48.0 CMD	As per Schedule –I	80% recycle for secondary purposes after confirming standards such as toilet flushing, air conditioning, cooling tower, make up, firefighting etc..
2.	Domestic effluent	38.3 CMD	As per Schedule –I	The treated domestic effluent shall be 80% recycled for secondary purposes such as toilet flushing, air conditioning, cooling tower make

				up, firefighting etc. and remaining shall be utilized on land for gardening and connected to the sewerage system provided by local body
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**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.	D.G. Set (1000 KVA X 1 No.)	1 no.	As per Schedule –II
2.	D.G. Set (630 KVA x 1 No.)	1 no.	As per Schedule –II
3.	D.G. Set (500 KVA X 1 No.)	1 no.	As per Schedule –II

\* = D. G. Sets shall be used in case of power failure.

**6. Conditions under Solid Waste Management Rules, 2016:**

Sr. no.	Type Of Waste	Quantity & UoM	Treatment	Disposal
1.	Scrap Material	2 Kg/Day	--	Segregate and Handover to Local Body for recycling
2.	STP Sludge	25 Kg/day	--	Used as Manure

**7. Conditions under Hazardous and Other Wastes (M & TM) Rules, 2016 for treatment and disposal of Hazardous waste:**

Sr. No.	Type Of Waste	Quantity	Treatment	Disposal
1.	Used /spent oil (Cat. No. - 5.1)	As per actual	--	Sale to MPCB authorized recycler
2.	ETP Sludge	31.00 Kg/day	--	CHWTSDF

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

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

10. Project Proponent shall comply the Construction and Demolition Waste Management Rules, 2016 which is notified by Ministry of Environment, Forest and Climate Change dtd.29/03/2016.

11. Project Proponent shall submit an affidavit in Board's prescribed format within 15 days regarding the compliance of conditions of Consent to Establish.

12. PP shall obtain permission from Central Ground Water Authority in case source of water is ground water.

13. This consent issued on the basis of letter of Scientist 'D'/Joint Director (IA) vide letter No. F. No.-19-130/2015-IA.III dated 20.11.2015 regarding the Metro Rail Projects are not covered under the EIA, Notification (EIA), 2006.

14. If any construction is proposed within CRZ area, clearance shall be obtained under the CRZ Notification, 2011. Any construction within CRZ-I shall be on silts, Maintenance and repair activities (industrial activities) are not permissible within CRZ.

15. PP shall install online monitoring system for BOD, TSS and flow at the outlet of ETP.

16. PP shall obtain Consent to Operate before starting commercial activity.

For and on behalf of the  
Maharashtra Pollution Control Board

*Mirashe*  
30/5/18  
(P. K. Mirashe)

Member Secretary

Received Consent fee of –

Sr. No.	Amount (Rs.)	Transaction No.	Date	Bank
1.	Rs. 7,80,540/-	TXN1804000595	07.04.2018	HDFC Bank

Copy to:

1. Regional Officer, MPCB, Mumbai and Sub-Regional Officer, MPCB, Mumbai-II - They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Mumbai.
3. CC/CAC desk- for record & website updation purposes.

To,

M/s. Mumbai Metro Rail Corporation Limited,  
CTS No. 9(pt), 10 (pt), 11 (pt), 12(pt) and 13 (pt),  
Vill. Pajrapur, Andheri, Mumbai Suburban.

## Schedule-I

### Terms & conditions for compliance of Water Pollution Control:

- 1) A] As per your application, you have proposed to install Effluent Treatment Plant (ETP) with design capacity of 75 CMD consists of primary, secondary & tertiary treatment.
- B] The Applicant shall operate the effluent treatment plant (STP) to treat the sewage 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
		Limiting Concentration in mg/l except for pH
01	pH	5.5 to 9.0
02	Oil & Grease	10
03	BOD (3 days 27°C )	30
04	Suspended Solids	10
05	Total Dissolved Solids	2100
06	COD	100
07	Iron as Fe	3
08	Total Metal	10

- C ) The treated effluent shall be 80% recycled for secondary purposes such as toilet flushing, air conditioning, cooling tower make up, firefighting etc. and remaining shall be utilized on land for gardening and connected to the sewerage system provided by local body. In no case, effluent shall find its way to any water body directly/indirectly at any time. Project proponent shall provide flow meter to ensure 80% recycling of treated sewage and shall maintain the record with data logging system. Project Proponent shall achieve the treated domestic effluent standard for the parameter BOD - 10 mg/lit.
- 2) A] As per your application form you have proposed to install full fledge Sewage Treatment Plant (STP) with design capacity of 60 CMD consists of primary and secondary treatment.

B] The applicant shall operate the Sewage Treatment Plant to treat the domestic effluent so as to achieve the following standards prescribed in EP Act, 1986 and Rules made thereunder from time to time whichever, is earlier

Sr. No.	Parameters	Standards prescribed by Board
		Limiting Concentration in mg/l except for pH
01	Suspended Solids	10
02	BOD (3days 27°C)	20
03	COD	50

- C] The treated effluent shall be 80% recycled for secondary purposes such as toilet flushing, air conditioning, cooling tower make up, firefighting etc. and remaining shall be utilized on land for gardening and connected to the sewerage system provided by local body
- 3) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of water, works 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 extension or addition thereto.



- 4) The firm 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.

In case the water consumption is duly assessed under the quantity of water consumption of local body, the project proponent shall submit certificate to that effect from the concern local body with the request not to assess CESS on their water consumption, being already assessed on the water consumption of local body:-

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Domestic purpose	45.00
2.	Industrial process	52.00
3.	Industrial Cooling, Boiler,	5.00
4.	Gardening Purpose	7.50

- 5) 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.

#### Schedule - II

#### Terms & conditions for compliance of Air & Noise Pollution Control

1. As per your application, you have proposed to erect 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 (Ltr/D)	S %
1.	D.G. Set (1000 KVA X 1 No.)	Acoustic enclosure	10.5*mtrs	50.00	Ltr/day	4.5%
2.	D.G. Set (630 KVA x 1 No.)	Acoustic enclosure	7.5*mtrs			
3.	D.G. Set (500 KVA X 1 No.)	Acoustic enclosure	6.5*mtrs			

\* above roof of the building in which it is installed.

\* D. G. Sets shall be used in case of power failure.

2. 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>
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3. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement alteration well before its life come to an end or erection of new pollution control equipment.
4. 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).
5. Ambient noise level should be confirmed to prescribe standards both during day and night time. The ambient air and noise quality should be closely monitored during any construction phase in the premises.

*[Handwritten Signature]*

6. Conditions for utilities like Kitchen, Eating Places: -

- a) The toilet shall be provided with exhaust system connected to chimney through ducting.
- b) The air conditioner shall be vibration proof and the noise shall not exceed 68 dB(A).
- c) 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 a way that no nuisance is caused to neighbors.



**Schedule-III**  
**Details of Bank Guarantees**

Project Proponent shall extend the Bank Guarantee as below:

Sr. No.	Consent (C to E)	Amount of Bank Guarantee Imposed	Submission Period	Purpose of Bank Guarantee	Compliance Period	Validity Date
1.	Consent to Establish	Rs. 10 Lakhs	15 days from date of issue of Consent	Towards compliance of Consent to Establish	Upto Commissioning of the project	Five years from date of issue of Consent

\*\* The above Bank Guarantee(s) shall be submitted by the applicant in favour of Regional Officer at the respective Regional Office within 15 days of the date of issue of Consent.



## 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) Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
- 3) 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.
- 4) 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 equipment, the production process connected to it shall be stopped.
- 5) 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.
- 6) 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.
- 7) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the HW(MH&TM) Rules 2016, which can be recycled
- 8) /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 and Other Wastes (M & TM) Rules, 2016 and submit the Annual Returns as per Rule 6(5) & 20(2) of Hazardous and Other Wastes (M & TM) Rules, 2016 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) 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)).
- 12) 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.
- 13) **The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board before actual commencement of the Unit / Activity (in case of Consent to Establish).**
- 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) 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
- 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 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.
  - 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 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).
  - 26) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
  - 27) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.

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