

FILE NO. :PCB/HO/EKM-1/ICE/04/2018

Date of issue :02/07/2018



KERALA STATE POLLUTION CONTROL BOARD

CONSENT TO ESTABLISH

ISSUED UNDER

Section 25 of Water (Prevention & Control of Pollution) Act, 1974

Section 21 of the Air (Prevention & Control of Pollution) Act, 1981

and

Environment (Protection) Act, 1986

As per Application No. :7005361

Dated:09-04-2018

TO

M/s KOCHI METRO RAIL LIMITED

8th Floor, Revenue Tower,

Park Avenue Kochi.

Consent No. :PCB/HOEKM-1/ICE/07/2018

Valid Upto :31/03/2023

1. GENERAL

1.1. This integrated consent is granted subject to the power of the Board to withdraw consent, review and make variation in or revoke all or any of the conditions as the Board deems fit.

1	VALIDITY	31/03/2023
2	Name and Address of the establishment	KOCHI METRO RAIL LIMITED 8TH FLOOR, REVENUE TOWER, PARK AVENUE KOCHI. 682011
3	Communication	Telephone :0484-2350455 Fax :- E-mail:watermetro@kmrl.co.in
4	Occupier Details	Bijimon Punnoose, 10th Floor, Revenue Tower, Park Avenue Kochi.
5	Local Body	Kochi
6	Survey Number	As per condition no.5.2.
7	Village	Kochi
8	Taluk	KOCHI
9	District	Ernakulam i
10	Capital Investment(Rs in Lakhs)	Rs.17989.00/-
11	Scale	Large
12	Category	RED
13	Annual fee(Rs)	Rs.394,835/-
	Total Fee remitted(Rs)	Rs.1,974,175/-(for 5 years)
14	Activity	Water transport system through 15 identified routes connecting 41 jetties across 10 island communities across 78.2 km channel length and boat yard.

2. CONDITIONS AS PER

The Water(Prevention and Control of Pollution)Act, 1974

2.1 Sewage Treatment Plant (STP) consisting of treatment units having adequate capacity shall be made functional/ arrangement for sewage treatment shall be provided, as per the proposal submitted along with the application, before commissioning of the establishment. Additional facilities required, if any, to achieve the standards laid down by the Board u/s 17(1)(g) of the Water Act shall also be made along with.

2.2 Water Consumption : 130.55 KLD

2.3 Effluent Generation : 104.4 KLD

2.4 The characteristics of effluent after treatment shall confirm to the following tolerance limits:

SL.NO.	Characteristics	Unit	Tolerance Limit	
			Sewage	Trade Effluent

2.5 Mode of disposal of treated effluent : Soak pit

3. CONDITIONS AS PER

The Air(Prevention and Control of Pollution)Act, 1981

- 3.1 Adequate air pollution control measures shall be provided before commissioning of the industry. Additional facilities required, if any, to achieve the standards laid down by the Board shall also be made along with.

Stack No.	Sources of Emission	Emission Rate(Nm3/Hr)	Stack Height above		Control Equipment
			Ground Level	Roof Level	
1	NA	-			-

- 3.2 Emission characteristics shall not exceed the following:

Sl.No.	Parameter	Limiting Standards (mg/Nm3)
1	Nil	Nil

4. CONDITIONS AS PER

The Environment (Protection) Act, 1986.

- 4.1 The construction activities shall be carried out strictly in compliance with the provisions of the Noise Pollution (Regulation and Control) Rules 2000.
- 4.2 Used lead acid batteries shall be disposed of as per the Batteries (Management and Handling) Rules, 2001
- 4.3 e-waste shall be disposed off safely as per E-Waste (Management) Rules, 2016.

5. ADDITIONAL CONDITIONS

5.1. All the wastes generated shall be disposed as per the Rules under Environment (Protection) Act,1986.

5.2. As per the application survey numbers are

243/4,624/5,7,1/1,101/18pt.,20,21,102/11.23/24,254/7pt.,10pt,299/7pt.,9,10,304pt.,93/2pt,93/1,BI15sy.1/1,2
96/4pt,294/4pt,296/8,296/9,410pt,426/1pt,485/1pt,485/3,485/5pt,485/6pt,91/9pt,91/10,124pt,574/2pt,575/5p
t,226/1pt,226/2,227pt181/4pt,181/6pt,181/10pt,181/11,307/3pt,330/8pt,232/1pt,232/4,594/1pt,594/12pt,9pt,
BI.9540/4,5,541/1,2,3,69/1pt,69/9pt,69/13,69/14pt,BI50,B20/47,73,99/1/843pt,1068/2,3,5pt,6,1069/5,1072/
1,2,1086pt,1184/3,4/5,1210,BI3/26,36,BI2/25,462/1,2,1196pt.1594,1595/1,2,3,2441/1,2,2442/1,2,3,192/7pt.
,193/3pt.,194pt.,1443pt.,1572/3pt,679/1,2,681,682,683/1,4,283/1Apt.,287/2pt,288/1pt,1205/3pt,577/2,1166p
t,2578/2pt,402pt.

6. CONDITIONS DURING CONSTRUCTION PHASE

- 6.1. All operations likely to produce dust or noise shall be carried out with appropriate enclosure.
- 6.2. Water sprinklers shall be provided to suppress spreading of dust outside the premises during the construction phase.
- 6.3. Ambient air quality shall not exceed the National Ambient Air quality Standards.
- 6.4. Proper precautionary measures shall be provided during construction phase to minimize disturbance to

neighbours and neighbouring properties due to excavation, piling, transportation of materials etc.

6.5. The construction debris and mud discharges etc from the construction site shall be disposed safely as per Construction and Demolition Waste Management Rules, 2016.

6.6. Sanitary facilities shall be provided to the construction workers.

6.7. A minimum set back as per Municipality Building Rule shall be provided between the boundary and the building and the set back can be utilised for the development of green belt.

6.8. Bio toilet facility shall be provided in boats and toilet facility with adequate treatment system with soak pit shall be provided in all jetties.

7. GENERAL CONDITIONS

7.1. At the end of the validity period if the construction is in progress, the same shall be got renewed. If the construction is not started in the consent period, the applicant shall apply afresh for consent to establish.

7.2. The applicant shall comply with the instructions that the Board may issue from time to time regarding prevention and control of air, water, land and sound pollution.

7.3. The date of commissioning of the project shall be intimated at least one month in advance to the District Office of the Board.

7.4. Consent to Operate under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 shall be obtained by the builder before commissioning the project.

7.5. Water & energy conservation measures shall be adopted. Renewable source of energy namely solar energy shall be utilized.

7.6. Adequate safety measures shall be provided in accordance with fire safety regulation.

7.7. No excavation of soil shall be carried out without adequate dust mitigation measures in place.

7.8. No loose soil or sand or Construction & Demolition Waste or any other construction material that causes dust shall be left uncovered.

7.9. Dust mitigation measures shall be displayed prominently at the construction site for easy public viewing.

7.10. Grinding and cutting of building materials in open area shall be prohibited.

7.11. Construction material and waste should be stored only within earmarked area and road side storage of construction material and waste shall be prohibited.

7.12. No uncovered vehicles carrying construction material and waste shall be permitted.

7.13. Construction and Demolition Waste processing and disposal site shall be identified and required dust mitigation measures be notified at the site.

7.14. Environment clearance and necessary clearances as per Coastal Zone Regulations shall be obtained.

7.15. The construction camp shall have a well maintained waste management system and sewage and effluent shall be treated to meet the standards. The solid waste and debris from the construction shall be disposed without causing environmental problems. The dredging shall be carried out without causing significant disturbance to the back water system.

7.16. Measures to counter the escape of oil spilled from the oil storage tank, if any, at the time of an accident shall be provided.

7.16. Arrangement shall be provided for preventing oil pollution in water due to the transportation.

7.17. Treatment facility shall be provided at the boat yard for treating waste water generated due to the washing of boats.

7.18. Arrangements shall be provided for the disposal of used lead acid batteries as per Batteries (Management and Handling) Rules, 2001.

7.19. Arrangement shall be provided for the disposal of e-waste generated as per E-waste Management Rules, 2016.

7.18. Sewage shall be treated through septic tank soak pit system.

DATE :02/07/2018

SIGNATURE & SEAL OF ISSUING AUTHORITY
CHAIRMAN



To

M/s. Kochi Metro Rail Limited,
8th Floor, Revenue Tower,
Park Avenue Kochi.

Copy to:

1.Environmental engineer
District office-1
Ernakulam.

2.Stock file

1. This digitally signed document is legally valid as per the Information Technology Act 2000

2. For verifying this document please go to krocmms.nic.in and search using date of issue/name of the unit/Application Number in “Consent Granted Applications” link in the home page of the Board’s Online Consent Management and Monitoring System.