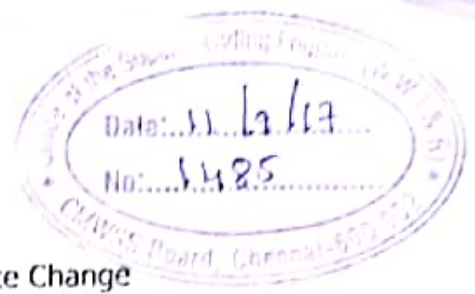




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F.No. 11-23/2016-IA-III
Government of India
Ministry of Environment, Forest and Climate Change



Indira Paryavaran Bhawan,
Jor Bagh Road, New Delhi - 110003

Dated: 05.09.2017

To,

The Superintending Engineer (WWT & R)
Chennai Metro Water Supply and Sewerage Board
No.1, Pumping Station Road, Chintadripet
Chennai-600 002, Tamil Nadu

PEI / AEE (C2+C3)
11/9/17
EE (STP IN)

Sub: CRZ Clearance for "Laying of Conveying Main along Buckingham Canal and across Ennore Creek for supply of 45 MLD of RO permeate to Industries and Discharge of Rejects of 18.5 MLD into Buckingham Canal in CRZ area at Kodungaiyur, Fort-Tondairpet, Chennai, Tamil Nadu - reg.

Sir,

This has reference to your proposal No. IA/TN/MIS/55851/2016, received in this Ministry for CRZ Clearance in accordance with the provisions of the Coastal Regulation Zone (CRZ) Notification, 2011 issued under the Environment (Protection) Act, 1986.

2. The proposal for Laying of Conveying Main along Buckingham Canal and across Ennore Creek for supply of 45 MLD of RO permeate to Industries and Discharge of Rejects of 18.5 MLD into Buckingham Canal in CRZ area at Kodungaiyur, Chennai, Tamil Nadu was earlier considered in the 162nd meeting of the Expert Appraisal Committee (EAC) - Infrastructure Development, Coastal Regulation Zone, Building / Construction and Miscellaneous projects held on 29th August, 2016. The proposal was re-considered again in 173rd meeting held during July 24, 2017, wherein the EAC has recommended the proposal for CRZ Clearance. The details of the project, as per the documents submitted and as informed during the aforesaid meetings of the EAC are noted as under:

- i) The project involves construction of 45 MLD capacity Tertiary Treatment Reverse Osmosis Sewage Treatment Plant (TTRO Plant) at Kodungaiyur and laying of conveying mains along the Buckingham Canal and across the Ennore Creek.
- ii) Total area of TTRO plant will be 28,340 sq.m. The TTRO plant is located in the Institutional zone, outside CRZ.
- iii) Conveying mains will traverse 28.5 km of pipelines supplying treated water from TTRO plant to the Industries, power plants and institutions located at Manali- Minjur, Manali- Ennore Corridor in North Chennai. The TTRO site is located at a distance of 1.5 km from Tondiarpet High Road.

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- iv) The conveying mains have varying diameter viz. 800 mm diameter pipeline for a length of 19 km; 600 mm diameter pipeline for a length of 7 km; and 300 mm diameter pipeline for a length of 2.5 Km respectively.
- v) The details of proposed conveying pipeline are as follows:

S. No.	Length of pipeline (m)	Pipeline under CRZ	Location
1	300	CRZ I	Inter tidal zone
2	10945	CRZ II	In CMDA area
3	7000	CRZ III	Outside CMDA area
4	850	CRZ IV	Water area at Ennore creek
5	9405	NIL	Non CRZ Area

- vi) The proposed conveying main will be laid below ground level; hence there is no disturbance to the existing overhead electric lines.
- vii) Tamil Nadu Coastal Management Authority (TNCZMA) has recommended the project vide their letter No.3736/EC.3/2016-2 dated 23rd May, 2016 and letter No. 81/EC.3/2017-1 dated 09.01.2017.
- viii) Demarcation of High Tide Line/Low Tide Line was done by Institute of Remote Sensing, Anna University, Chennai.
- ix) Hazardous wastes shall be sent to Tamil Nadu Pollution Control Board approved recyclers.
- x) Green belt of 4300 sq.m is proposed to be developed around the TTRO plant.
- xi) Municipal solid waste generated disposal facility: The sludge disposed from TTRO plant will be utilized as manure for agriculture and horticulture.
- xii) Waste water generation, treatment and disposal: 63 MLD of Secondary Treated sewage will be taken for the proposed TTRO Plant at Kodungaiyur to produce 45 MLD of TTRO water which will be supplied to the industries and the balance 18 MLD will be rejects from the TTRO Plant. These rejects after blending with secondary treated sewage to meet the TNPCB standards will be discharged into the Buckingham Canal.
- xiii) Drinking water earlier supplied to the industries will now be made available for public use.
- xiv) There is no Forest land involved.
- xv) Investment/Cost of the project: Rs. 255 Crores.
- xvi) RWH: Rainwater Harvesting is proposed.
- xvii) Energy efficient pumps will be used for energy saving.
- xviii) Power requirement and source: 4270 kW will be sourced from Tamil Nadu Generation and Distribution Corporation Limited (TANGEDCO). DG set of 750 KVA will be used as backup power in case of power failure
- xix) National Park/ Wild Life Sanctuary in 10 km radius area: Nil within 10 km radius.
- xx) Reduction of fresh water consumption by Industries and more fresh water shall be made available for potable use in the city.
- xxi) Employment: About 100 persons will be employed during peak period and an average of 50 persons in normal period.

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3. Based on the Information submitted as at para no. 2 above and others and presentation made before the EAC (Infrastructure Development, Coastal Regulation Zone, Building / Construction and Miscellaneous projects) in its 173rd meeting held on July 24, 2017, and in acceptance of the recommendation of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords CRZ Clearance to the above project viz *'Laying of Conveying Main along Buckingham Canal and across Ennore Creek for supply of 45 MLD of RO permeate to Industries and Discharge of Rejects of 18.5 MLD into Buckingham Canal in CRZ area at Kodungaiyur, Fort-Tondairpet, Chennai, Tamil Nadu,* subject to the following specific and general conditions as under:

PART A - SPECIFIC CONDITIONS:

- (i) All conditions/recommendations stipulated by the Tamil Nadu Coastal Zone Management Authority (TNCZMA) vide its letter no. No.3736/EC.3/2016-2 dated 23.05.2016 and letter No. 81/EC.3/2017-1 dated 09.01.2017 shall strictly be complied with.
- (ii) A 2% of the cost of the project shall be apportioned for marine and coastal biodiversity protection and conservation measures, to be spent by the project proponent towards fulfilling its Corporate Environmental Responsibility (CER) during the currency of the project. Proper record and account of measures taken should be maintained and should also be submitted to the CZMA every six months.
- (iii) It shall be ensured that system for detecting leakages along the pipeline shall be installed and regularly monitored through an independent agency. In case of any such eventualities, the project proponent shall immediately stop disposal through the said pipeline and take the corrective measures. The results of monitoring shall be regularly submitted to the PCB and the regional office of Ministry.
- (iv) The project proponent shall ensure that any adverse potential impacts due to the proposed activity on the marine/creek environment during construction and operational phases on the marine environment/Buckingham Canal is managed through a robust marine environment management plan (MEMP) and implemented in letter and spirit.
- (v) As committed the project proponent shall ensure that only treated sewage water from the TTRO plant is supplied to the Industries and the drinking water being supplied to the Industries shall be made available for public consumption once the TTRO plant is in operation.
- (vi) It shall be ensured that there are no blockages and free flow of water is maintained in the Canal/creek during the process of laying of pipelines.

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- (vii) 'Consent to Establish' shall be obtained from State Pollution Control Board under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974, as may be applicable.
- (viii) The construction in CRZ areas shall be done strictly in accordance with the provisions of CRZ Notification, 2011 and as amended from time to time.
- (ix) There shall be regular monitoring of the results of standard parameters of the waste effluent discharged from TTRO plant, under intimation to the TNPCB.
- (x) The project proponent shall ensure that no ground water is extracted within CRZ areas without prior approval of the Central Ground Water Authority.
- (xi) Soil and ground water samples in and around the TTRO plant shall be tested regularly to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.

PART B - GENERAL CONDITIONS:

- (i) A copy of the clearance letter shall be uploaded on the websites of the Company/Proponent and concerned State Pollution Control Board. The Clearance letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/ Tehsildar's office for 30 days.
- (ii) The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.
- (iii) Adequate provision for infrastructure facilities including water supply, fuel and sanitation must be ensured for construction workers during the construction phase of the project to avoid any damage to the environment.
- (iv) A six-monthly monitoring report shall need to be submitted by the project proponent to the concerned regional Office of this Ministry regarding the implementation of the stipulated conditions.
- (v) The Ministry of Environment, Forest & Climate Change or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environment and the same shall be complied with.
- (vi) Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- (vii) The above stipulations would be enforced among others under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air

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(Prevention and control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991, the EIA Notification, 2006 and the CRZ Notification, 2011.

- (viii) Full co-operation shall be extended to the officials from the Regional Office of MoEF&CC, during monitoring of implementation of environmental safeguards stipulated. It shall be ensured that documents/data sought pertinent is made available to the monitoring team. A complete set of all the documents submitted to MoEF&CC shall be forwarded to the concerned Regional Office of MoEF&CC.
- (ix) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.
- (x) The Ministry reserves the right to add additional safeguard measures subsequently, if considered necessary, and to take action to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner, including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, for non compliance.
- (xi) All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponent from the respective competent authorities.
- (xii) The project proponent should advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded CRZ Clearance and copies of clearance letters are available with the State Pollution Control Board (SPCB) and may also be seen on the website of the Ministry of Environment, Forest and Climate Change at <http://www.envfor.nic.in>. The advertisement should be made within Seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the concerned Regional Office of this Ministry.

4. This Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.

5. Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

6. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban Local Body and the Local

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NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.

7. The proponent shall upload the status of compliance of the stipulated conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB.

8. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of clearance conditions and shall also be sent to the respective Regional Office of the Ministry by e-mail.


(Arvind Nautiyal)
Director

Copy to:

1. The Secretary, Environment & Forests Department, Govt of Tamil Nadu, Saint George Port, Chennai.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD- cum- Office Complex, East Arjun Nagar, Delhi - 110032.
3. The Chairman, Tamil Nadu, Environment and Forests (EC.3) Department, Secretariat, Chennai-9.
4. The Chairman, Tamil Nadu State Pollution Control Board, 76, Mount Salai, Guindy, Chennai - 600032.
5. The APCCF (C), MoEF&CC, RO, 1st Floor, Handloom Export Promotion Council, 34, Cathedral Garden Road, Nungambakkam, Chennai-34.
6. Guard File.
7. Monitoring File.


(Arvind Nautiyal)
Director

- 681 -

F.No. 11-23/2016-IA-III
Government of India
Ministry of Environment, Forest and Climate Change

Indira Paryavaran Bhawan,
Jor Bagh Road,
New Delhi - 110003
Date: 26.10.2018

To,
✓ The Superintending Engineer (WWT&R)
Chennai Metropolitan Water Supply and Sewerage Board,
No.1, Pumping Station Road, Chintradripet
Chennai-600002, Tamil Nadu

Sub: Amendment in CRZ Clearance accorded for Laying of Conveying Main along Buckingham Canal and Across Ennore Creek for supply of 45 MLD of RO Permeate to Industries and Discharge of Rejects of 18.5 MLD into Buckingham Canal in CRZ area at Kodungaiyur, Fort-Tondairpet, Chennai, Tamil Nadu - reg.

Sir,

This refers to your letter no. CMWSSB/S.E. (WWT&R)/STP (North)/KOD-45MLD/TTRO/039/CRZ/2015-16, dated 03.05.2018 requesting therein amendment of CRZ clearance accorded on 05.09.2017 for Laying of Conveying Main along Buckingham Canal and Across Ennore Creek for supply of 45 MLD of RO Permeate to Industries and Discharge of Rejects of 18.5 MLD into Buckingham Canal in CRZ area at Kodungaiyur, Fort-Tondairpet, Chennai, Tamil Nadu.

2. In this regard, it is to inform that your request was reconsidered by the Expert Appraisal Committee (EAC)- Infrastructure Development, Coastal Regulation Zone, Building/Construction and Miscellaneous Projects viz. EAC (CRZ), in its 198th meeting held on 17.09.2018. In acceptance of the recommendation of the EAC (CRZ) the Competent Authority in this Ministry, has considered your request and it is hereby informed that the following amendment shall be made in this Ministry's letter of even no. dated 05.09.2017 as follows:

Under para no. 2, (v) the details of proposed conveying pipeline shall be now read as follows:

S.N	Length of pipeline (m)	CRZ category	Location
1	300	CRZ-I	Inter tidal zone
2	10945	CRZ-II	In CMDA area
3	7000	CRZ-III	Outside CMDA area
4	850	CRZ-IV	Water area (beneath the water bed) in Ennore creek
5	9405	NIL	Non CRZ Area

EE (STP/N)
11/11/18
SE (WWT&R)

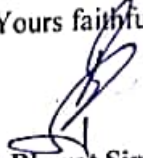


AKK/TTRO/KOD
11/11/18

4. All other terms and conditions mentioned in this Ministry's letter of even number, dated 05.09.2017, shall remain unaltered.

This issues with the approval of the Competent Authority.

Yours faithfully,


(W. Bharat Singh)
Director/ Sc 'F'

Copy to:

1. The Secretary, Environment & Forests Department, Govt of Tamil Nadu, Saint George Port, Chennai.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD- cum-Office Complex, East Arjun Nagar, Delhi - 110032.
3. The Chairman, Tamil Nadu State Pollution Control Board, 76, Mount Salai, Guindly, Chennai - 600032.
4. The Member Secretary, Tamil Nadu Coastal Zone Management Authority, Department of Environment and Forests, Government of Tamil Nadu, First Panaqal Building, Saidapet, Chennai 600015.
5. The APCCF (C), MoEF&CC, RO, 1st Floor, Handloom Export Promotion Council, 34, Cathedral Garden Road, Nungambakkam, Chennai-600034.
6. Guard File.
7. Monitoring File


(W. Bharat Singh)
Director/ Sc 'F'

