

F.No.11-10/2022-IA.III
Government of India
Ministry of Environment, Forest and Climate Change
IA-III Division (CRZ)

Indira Paryavaran Bhawan
Jor Bagh Road,
New Delhi- 110003
Dated: 22nd April, 2022

To,
General Manager (Marine Services)
M/s Kamarajar Port Limited,
Near NCTPS, Vallur,
Chennai -600120
Tamil Nadu
Email: gm-ms@epl.gov.in



Subject: CRZ clearance for Establishment of 1MLD RO Desalination Plant at M/s Kamarajar Port Limited, Vallur Post, Chennai-120 by M/s Kamarajar Port Limited, Vallur, Chennai, Tamil Nadu - CRZ Clearance regarding.

Sir,

This has reference to your online proposal No. IA/TN/CRZ/246202/2022, dated 05/03/2022, received in this Ministry on the above-mentioned project proposal 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 Ministry of Environment, Forest and Climate Change has examined the proposal for CRZ clearance to the project for the Establishment of 1MLD RO Desalination Plant at M/s Kamarajar Port Limited, Vallur Post, Chennai by M/s Kamarajar Port Limited, Vallur, Chennai, Tamil Nadu.

3. The proposal was considered by the Expert Appraisal Committee (EAC) for Infrastructure Development, Coastal Regulation Zone, Building/Construction and Miscellaneous projects, in its meeting held on 23/03/2022 through video conferencing. The project proponent and their consultant made a detailed presentation and informed under:

- (i) The proposal is for CRZ clearance to the project for the Establishment of a 1MLD RO Desalination Plant within the port facility of Kamarajar Port Vallur Post, Chennai, by M/s Kamarajar Port Limited, Chennai.
- (ii) The proposed SWRO will be developed with a capacity of 1MLD (2 x 0.5 MLD) within the port premises to cater for the potable water requirement of the facility. The total land area is 0.405 ha. (4050 Sq.m) within the port and out of that 843 Sq.m is the built-up area of the proposed RO Desalination Plant.
- (iii) Project Proponent reported that there will be a 315 mm diameter of HDPE intake pipeline of 234 m in length with a pump house and submerged intake head.
- (iv) The seawater intake will be 2500 m³/day, recovery efficiency 40% to 45%, permeate 1000 m³/day and reject 1500 m³/day.
- (v) The brine flow rate from the proposed desalination plant is about 62.5 m³/hour and will be through a buried outfall pipeline of size 225mm diameter HDPE pipe with a pipeline length of 950 meters (863 m on land and 87 m in sea). The outfall location is proposed inside the port at a water depth of 4m which is at a distance of 500m away from the intake location.

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(vi) The proposed activities proposed in the CRZ area as follows:

Sl. No	Proposed Activity	CRZ Category
1	Construction of Intake sump / Header	CRZ IV B
2	Trenching and burying of intake pipeline (Length – 234m)	CRZ-II
3	Trenching and burying of Outfall pipe (Length – 950m)	CRZ II & CRZ IV B
4	Construction of RO plant building	CRZ II

- (vii) Municipal Solid waste generated during construction waste from laborers will be 0.73 Ton/annum and will be disposed of *via* authorized vendors and recyclers.
- (viii) Greenbelt will be developed with Native Species in a total area of 900 Sq.m which is 33% of the Built-up Area and 22% of the Overall Area of SWRO to enhance biodiversity and reduce pollution and improve aesthetics.
- (ix) The total cost of the project is ₹18 crores.
- (x) The Tamil Nadu Coastal Zone Management Authority has recommended the proposal for CRZ clearance *vide* its Letter No. 22895/EC.3/2021-1 dated 08/02/2022.

4. The Committee made a detailed deliberation on the proposal. The Committee noted that the existing and proposed seawater intake pump and existing seawater intake channel are in CRZ-IVB and CRZ-II respectively and the CRZ map of the 1:4000 Scale was prepared by the National Institute of Ocean Technology Chennai. The proposed project/activity is a permissible activity in the CRZ area as per the provisions contained in para 4 (i) (a), Para 8 (i) I CRZI (i) (b) and 8 II CRZ II (v) of the CRZ Notification, 2011 requiring prior permission from the Ministry.

The Committee also noted that the Intake and Outfall pipeline diameter as per the TCZMA recommendation letter was 250 mm and 150 mm respectively. Considering the future expansion Intake and outfall system is designed for an additional 1MLD and the diameter of the Intake and Outfall Pipeline is revised to 315 mm and 225 mm respectively. Accordingly, the Project cost has also increased from ₹16.5 crores to ₹18 crores and also noted that no Change in other project components such as plant capacity, pipe alignment, flow quantity and location. The EAC noted and agreed and suggested that in future projects proponent has to take permission for a new pipeline diameter.

5. Based on the recommendation of the Tamil Nadu Coastal Zone Management Authority *vide* its Letter No. 22895/EC.3/2021-1 dated 08/02/2022 and information submitted by project proponent at para no. 2 above and information provided during the presentation before the Expert Appraisal Committee and others, the Ministry of Environment, Forest and Climate Change, hereby accords CRZ clearance to the project for 'Establishment of 1 MLD RO Desalination Plant at M/s Kamarajar Port Limited, Vallur Post, Chennai-120 by M/s Kamrajjar Port Limited, Vallur, Chennai', under the provision of CRZ Notification, 2011 and amendments thereto, subject to the compliance of the following specific and general conditions mentioned as under:

PART A – SPECIFIC CONDITIONS:

- (i). All construction shall be strictly in accordance with the provisions of CRZ Notification, 2011 and as amended from time to time.



- (ii). No storage reservoir for sea water shall be permitted and only a pipelines conveyance system shall be installed.
- (iii). No groundwater shall be extracted within the CRZ area to meet water requirements during the construction and/or operational phase of the project.
- (iv). No excavated material during the construction shall be dumped in water bodies or adjacent areas. The site shall be restored to its near original condition after completion of construction.
- (v). Any physical infrastructure set up during construction period shall be removed simultaneously with the completion of laying of each segment of the project.
- (vi). All the conditions stipulated by the Tamil Nadu Coastal Zone Management Authority *vide* its Letter No. 22895/EC.3/2021-1 dated 08/02/2022, and commitments made by the PP before the CZMA and EAC shall be followed in letter and spirit.
- (vii). All necessary clearance from the concerned authority, as may be applicable should be obtained prior to commencement of the project or activity.

PART B - GENERAL CONDITIONS:

- (i). Management of solid waste by the Solid Waste Management Rules, 2016 shall be strictly implemented.
- (ii). 'Consent to Establish' and /or 'Consent to Operate' shall be obtained from State Pollution Control Board under the provisions of the Air (Prevention and Control of Pollution) Act, 1981 and/or the Water (Prevention and Control of Pollution) Act, 1974, as may be applicable.
- (iii). Disposal of muck during the construction phase should not create any adverse effect on the neighbouring communities and be disposed of taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of Competent Authority.
- (iv). All liquid waste arising from the proposed development will be disposed of as per the norms prescribed by the Central / State Pollution Control Board. There shall not be any disposal of untreated effluent into the sea / coastal water bodies. It shall be ensured that the wastewater generated is treated in the STP as committed by the project proponent. The treated waste water shall be reused for landscaping, flushing and/or HVAC cooling purposes etc. within the development. The project proponent should also make alternate arrangements for situations arising due to malfunctioning STP. There shall be regular monitoring of standard parameters of the effluent discharge from STP under intimation to the SPCB.
- (v). Any hazardous waste generated during the construction phase, shall be disposed off as per applicable rules and norms with the necessary approvals of the State Pollution Control Board.
- (vi). A copy of the clearance letter shall be uploaded on the website of the concerned State Coastal Zone Management Authority / 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.
- (vii). 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.
- (viii). 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 the environment and the same shall be complied with.



- (ix). Full co-operation shall be extended to the officials from the Regional Office of MoEF&CC, during monitoring of the 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.
- (x). In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.
- (xi). 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 the environment clearance under the provisions of the Environmental (Protection) Act, 1986, for non-compliance.
- (xii). 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.
- (xiii). 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 <https://parivesh.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.
- (xiv). A copy of the clearance letter shall be sent by the proponent to the concerned Panchayat, Zilla Parisad / Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
- (xv). 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.
- (xvi). The environmental statement for each financial year ending 31st March in Form-V 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 project proponent 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.

6. This Clearance is subject to the 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.

7. The Ministry reserves the right to stipulate additional conditions if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time-bound manner. The Ministry may revoke or suspend the CRZ clearance if the implementation of any of the above conditions is not found satisfactory.

8. 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 the Environment (Protection) Act, 1986.



9. Any appeal against this CRZ 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.

10. The above conditions shall be enforced, *inter-alia* under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

11. This issues with the approval of the Competent Authority.



(Dr H. Kharkwal)
Scientist 'E' (CRZ)

Copy to:

1. The Principal Secretary, Environment & Forest Department (EC-3), Government of Tamil Nadu, Secretariat, Chennai-600009, Tamil Nadu.
2. The Member Secretary, Tamil Nadu Coastal Zone Management Authority, Department of Environment, No. 1, Jeenis Road, Panagal Building, Ground Floor, Saidapet, Chennai-600015, Tamil Nadu
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhavan, CBD cum Office Complex, East Arjun Nagar, Delhi - 110032
4. The Member Secretary, Tamil Nadu Pollution Control Board, No. 76, Anna Salai, Guindy Industrial Estate, Race View Colony, Guindy, Chennai-600032, Tamil Nadu
5. The DDG of Forests (C), Ministry of Environment, Forest, & Climate Change, Regional Office (SEZ), I and II Floor, Handloom Export Promotion Council, 34, Cathedral Garden Road, Nungambakkam, Chennai-600034, Tamil Nadu
6. Guard File/ Record File/ Notice Board.
7. Monitoring Cell.



(Dr H. Kharkwal)
Scientist 'E' (CRZ)

By Speed Post



**Environment, Climate Change &
Forest (EC.3) Department,
Secretariat, Chennai- 600 009.**

Letter No. 22895/EC.3/2021-1, dated 08.02.2022

From
Tmt. Supriya Sahu, I.A.S.,
Additional Chief Secretary to Government

To
The Chairman,
National Coastal Zone Management Authority,
Government of India,
Ministry of Environment, Forest & Climate Change,
Agni Wing, 5th Floor, Indira Paryavaran Bhawan,
Jor Bag Road, Aliganj, New Delhi - 110 003. (w.e.)

Sir,

Sub: Coastal Regulation Zone - Proposed "Establishment of
1 MLD RO Desalination Plant at M/s. Kamarajar Port
Limited, Vallur Post, Chennai.120 by M/s. Kamarajar
Port Limited, Vallur, Chennai - Forwarded for Clearance
under CRZ Notification 2011 - Regarding.

Ref: From the Member Secretary, Tamil Nadu State Coastal
Zone Management Authority/Director of Environment
letter R.C.No.P1/2666/ 2020, dated: 17.12.2021.

I am to enclose a copy of the proposal received from the Member Secretary, Tamil Nadu State Coastal Zone Management Authority/Director of Environment together with its enclosures and to state that she has sent the proposal for clearance under Coastal Regulation Zone Notification, 2011 for the Proposed "Establishment of 1 MLD RO Desalination Plant at M/s. Kamarajar Port Limited, Vallur Post, Chennai - 120 by M/s. Kamarajar Port Limited, Vallur, Chennai. The Member Secretary, TNSCZMA / Director of Environment has furnished the below following details:-

- a. M/s. Kamarajar Port Limited, Chennai has proposed to setup a 1 MLD Seawater RO Desalination Plant in Kamarajar Port Limited located at Vallur, Thiruvallur District and hence applied for clearance under the CRZ Notification, 2011. The proposed cost of the project is Rs.16.50 crores and the project area is located at a longitude of 80°20'8.09" E and latitude of 13°15'27.67" N. The proposed project site is falling in CRZ-IB, CRZ-II and CRZ-IVA.
- b. The Project Proponent has mentioned that the intake structure proposed to be constructed at a water depth of 4m located at a distance of 100 m

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from Southern breakwater. The water requirement for the desalination plant is about 117m³ per hour and conveyed through 250mm outer dia HDPE pipe laid at water depth of 4m.

- c. The brine flow from the proposed desalination plant is about 62.5m³/hour and will be through buried outfall pipeline of size 150mm outer dia HDPE pipe. The outfall location is proposed inside the port at water depth of 4m which is at a distance of 500m away from intake location.
- d. Project Proponent has mentioned that the salinity of the brine effluent will be about 59.12 ppt which is about 1.7 times more than the concentration seawater salinity. The increased salinity concentration from the outfall will be dispersed within 16m of the discharging port with 100% dilution as per the outcome of Brine outfall dispersion model.
- e. The proponent has mentioned about the terrestrial and marine ecological monitoring around the proposed project area including the environmental monitoring. Proponent also highlighted that there is no turtle breeding grounds in the project site and within the 10km radius of proposed site.
- f. The proposed project will be located within the existing Port limits and away from eco-sensitive areas. However scattered patches of Mangroves are located at 1.8km west away from the project site and Mangroves in away Ennore creek are located in the SSW direction, 2.5 km away from the project site.
- g. The DCZMA for CMDA area has recommended the project to SCZMA in its meeting held on 05.11.2020, with the following conditions.
 - i. All the provisions of the CRZ Notification, 2011 shall be adhered with.
 - ii. The project proponent shall undertake the establishment only after getting the required Clearances from Competent authorities such as Planning Permission, Plan Approval etc., including the clearance under CRZ Notification, 2011 and other statutory clearances.
 - iii. The clearances/ approvals from the Revenue Department and Tamil Nadu Maritime Board for laying of pipeline in the areas under their control shall be obtained before the commencement of the establishment.
 - iv. The project proponent shall not draw any groundwater in CRZ area, under any circumstances.
 - v. No excavated material during the construction shall be dumped in water bodies or adjacent areas.
 - vi. The project proponent shall adhere to the Construction and Demolition Waste Management Rules, 2018
 - vii. The project proponent shall ensure that the temporary structures installed for laying of pipe lines are removed within one months of accomplishment of the work.
 - viii. No storage reservoir for sea water shall be permitted and only pipelines conveyance system shall be installed.

- ix. The project proponent shall ensure that an inbuilt mechanism appropriate for the management of solid waste is in place which shall be pre-requisite for obtaining CTO under Air and Water Acts from the TNPCB.
 - x. The proponent shall furnish the HTL map from Institute of Remote Sensing (IRS), Anna University or from any authorized Institute, authenticated by the Govt. of India for this purpose in the village level 1:4000 Scale, duly marking the proposed project features in the approved CZMP map of Tamil Nadu.
- h. The Project Proponent has submitted the compliance report with reference to the above conditions and submitted the HTL Demarcation map obtained from the NIOT who is one of the authorized agency for preparation of HTL Demarcation map. With reference to the NoC from the State Pollution Control Board, the Project Proponent has stated that the TNPCB has informed that NoC will be issued in the form of Consent To Establish (CTE) after obtaining CRZ Clearance from the MoEF& CC, Gol.
- i. As per CRZ Notification 2011, vide Para 4 (i) (a), Para 8 (i) I CRZ I (i) (b) and 8 II CRZ II (v), the above activities are permissible activities. **However, the project requires clearance from the MoEF & CC, Govt. of India, vide Para 4 (ii) (h) of CRZ Notification 2011.**

2. The Member Secretary, Tamil Nadu State Coastal Zone Management Authority/Director of Environment has sent a copy of proposal along with the reports, HTL map and minutes of the 113th meeting of Tamil Nadu State Coastal Zone Management Authority held on 27.10.2021 & 01.11.2021 the Authority resolved to recommend the proposals to the Ministry of Environment, Forest and Climate Change, Government of India, subject to the following conditions:-

- a) The Project Proponent should ensure that the salinity of the output water does not affect the environment and the organisms.
- b) The Project Proponent should check the quality of the intake water especially for oil and heavy metals contamination.
- c) The Project Proponent should ensure that the dredging activity should not hinder with the outlet pipe of the desalination plant.
- d) The project proponent shall undertake the establishment only after getting all the required Clearances such as Planning Permission, CTE from TNPCB, Clearance under CRZ Notification, 2011 etc., from Competent authorities.
- e) The project proponent shall not draw any groundwater in CRZ area, under any circumstances.
- f) The temperature of water at the outfall point should be maintained within the prescribed levels. This may be monitored regularly through an institute and fact may be reported to Department of Environment.
- g) The Project should not affect the fishing activities in any way and also should not hinder the livelihood of the Fishermen.
- h) All the provisions of the CRZ Notification, 2011 shall be adhered with.

- i) The project proponent shall undertake the establishment only after getting the required Clearances from Competent authorities such as Planning Permission, Plan Approval etc., including the clearance under CRZ Notification, 2011 and other statutory clearances.
- j) The clearances/ approvals from the Revenue Department and Tamil Nadu Maritime Board for laying of pipeline in the areas under their control shall be obtained before the commencement of the establishment.
- k) No excavated material during the construction shall be dumped in water bodies or adjacent areas.
- l) The project proponent shall adhere to the Construction and Demolition Waste Management Rules, 2018
- m) The project proponent shall ensure that the temporary structures installed for laying of pipe lines are removed within one month of accomplishment of the work.
- n) No storage reservoir for sea water shall be permitted and only pipelines conveyance system shall be installed.
- o) The project proponent shall ensure that an inbuilt mechanism appropriate for the management of solid waste is in place which shall be pre-requisite for obtaining CTO under Air and Water Acts from the TNPCB.
- p) The Project Proponent should remit 2% on the total project cost to Environment Management Agency of Tamil Nadu (EMAT) account, towards carrying out need based CER activities.

3. In line with the recommendation of the Member Secretary, Tamil Nadu State Coastal Zone Management Authority/Director of Environment, this Government recommend and forward the proposal of Member Secretary, Tamil Nadu State Coastal Zone Management Authority/Director of Environment, Chennai for the Proposed "Establishment of 1 MLD RO Desalination Plant at M/s. Kamarajar Port Limited, Vallur Post, Chennai-120 by M/s. Kamarajar Port Limited, Vallur, Chennai to the Chairman, National Coastal Zone Management Authority, Government of India, Ministry of Environment, Forest and Climate Change, New Delhi for clearance under Coastal Regulation Zone Notification, 2011, subject to the specific conditions mentioned at para 2 above.

Yours faithfully,

K. Srinivasan
10/12/2022
for Additional Chief Secretary to Government

Copy to:-

The Member Secretary,
Tamil Nadu State Coastal Zone Management Authority /
Director of Environment, Chennai - 15.
The Deputy General Manager (Civil),
M/s. Kamarajar Port Limited,
Vallur Post, Chennai - 600 120. (Through: the Member Secretary,
TNSCZMA / Director of Environment, Chennai-15)
E.Mail : gm-ms@kplmail.in, radha@kplmail.in.
(with a request to upload the proposal on the Parivesh Portal
(<https://www.parivesh.nic.in>) of the GoI, MoEF&CC, New Delhi).