

# File No: 11/20/2024-IA.III Government of India Ministry of Environment, Forest and Climate Change IA-III Section (CRZ)

### **Centralized Processing Centre - Green**

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Dated 01/08/2024

To,

The Executive Engineer

Water Resource Department,

Coleroon Basin Division,

Railway Feeder Road, Chidambaram,

Cuddalore-608001, Tamil Nadu Email: eepwdcdm@gmail.com

**Subject:** 

Proposal for CRZ Clearance – Construction of Storm Water drain Channel in Paravanar River at Aruva Mooku, Cuddalore District, Tamil Nadu by O/o The Executive Engineer, WRD, Coleroon Basin Division, Railway Feeder Road, Chidambaram, District Cuddalore, Tamil Nadu – regarding

Sir/Madam,

This has reference to your proposal No. IA/TN/CRZ/460519/2024 dated 31/01/2024 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 'Construction of Storm Water drain Channel in Paravanar River at Aruva Mooku, Cuddalore District, Tamil Nadu by O/o The Executive Engineer, WRD, Coleroon Basin Division, Railway Feeder Road, Chidambaram, District Cuddalore, 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 365<sup>th</sup> meeting held on 16/05/2024. The Project Proponent (The Executive Engineer, WRD, Coleroon Basin Division, Cuddalore, Tamil Nadu) along with his EIA consultant (M/s Indomer Coastal Hydraulics (P) Ltd.) have made a presentation on above said proposal and informed the following salient features of the proposal, including the details provided in the application of the project, to EAC:

1.	Brief description of the Project	The instant proposal seeks CRZ Clearance as per

		Description		CRZ	Length	Area
		Project activity falls in CRZ -IA, CRZ Detailed breakup as follows:	-IB, CRZ-	III, CRZ – III (ND	Z), CRZ-	IVB areas.
	4.	CRZ Categorization as per CRZ Report				
	3.	CRZ Report/Maps prepared by	IRS Anna	University, Chennai		
				m <sup>3</sup> will be filled eit the canal boundary l		of retaining
		e-Paymei		m <sup>3</sup> will be deposited enue boundary of Para		
		<sup>a</sup> nce	·Excavatio	Excavation is 4,64,300m <sup>3</sup>		
\		CPC GR		tion of Check dam acted the flood water into		anar River -
	و در	Tone Protects if S	· Construct	tion of 2 nos. culverts	s - One on	
				passing through CRZ	Area.	
	2.	Salient features / Components of the project activity	1	t activity includes the and construct storm of	S	
	1 Z	2 Pela sala	by IIT	cal aspects of the pr Madras and given ded for the implemen	n the d	esign and
		e-KYC	drain chan region of tank in Chan the coast.  During the villages ale excess rai excess rai excess rai paravanar to discharg of Bengal has propos associated	Ecation 2011 for the nel with culvert brid Paravanar River origidambaram and travel cyclones and peak tong the Paravanar Rivnwater opened from nfall during monsoc River near Aruva Mese excess flood water in Cuddalore districted to construct a stor facilities from Aruvay of Bengal.	ges at Arginates from the monsoon so wer get flow Perumal on trigger ooku region to the addit, Tamil Mem drain c	seasons, the oded due to Lake. The se flood in on. In order joining Bay Vadu, PWD hannel with
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			Classification	(m)	(sq.m)
	Proposed Retaining Wall		CRZ-IA	268.3	
			CRZ-IB	13.5	
			CRZ-III	148.8	
			NDZ	217.7	
	JVC		Outside CRZ	451.8	
	Proposed Body Wall		CRZ-IB		234.3
			CRZ-IVB		1632.7
	K K I V E S		NDZ		206.7
$\nabla_{\lambda}$	Proposed Storm Drain Channel		CRZ-IA	318.9	13726.5
	VAC.		CRZ-IB	34.5	2487.2
	To the state of th		CRZ-III	144.6	29932.5
0			NDZ	93.6	20348.3
ç			Outside CRZ	1008.4	104991.5
	Proposed Single		CRZ-III		258.9
	Lane Bridge with Regulator		NDZ		583.2
	Proposed Two Lane Bridge		Outside CRZ		1163.2
5.	Applicability of EIA Notification 2006. No		cable		
6.	NOC from SPCB	Not Obtain	ained.		
7.	Certified Compliance Report from IRO (Expansion/Amendment Case)		cable since the propos	sed project	is new.
8.	Notification 2011/2019 (as recommended by SCZMA along with structure)		Measures to prevent gulators, laying of sto for prevention of recharge based on	orm water of salinity	drains or for ingress and

		agency to be specified by MoEFCC.  3. (v) (b) Storm water drains and ancillary structures for pumping.
9.	EIA Consultants details	Indomer Coastal Hydraulics (P) Ltd., Chennai
10.	Baseline period for EIA	November 2020 to January 2021
11.	Applicability of Terrestrial and Marine EIA	Yes detailed EIA studies prepared covering Terrestrial and Marine environment.
12.	Anticipated impacts (mention page no of EIA)	Anticipated impacts are given in Chapter 4 of EIA report.
13.	Mitigation measures proposed (mention page no of EIA)	Mitigation measures are given in Chapter 4 of EIA report.
14.	Disaster Management Plan (mention page no of EIA)	Disaster Management Plan is given in 7 <sup>th</sup> Chapter of EIA report.
15.	Risk Assessment (mention page no of EIA)	Risk Assessment Plan is given in 7 <sup>th</sup> Chapter of EIA report.
16.	Total Project cost	81.13 Crores
17.	Is project located in erosion prone area (yes/no)	No. Project is not located in the erosion prone zone.
18.	If yes, specific the management plan proposed	Sand dune management plan is attached as annexure.
19.	EMP cost proposed (capital and recurring)	The appropriate budget cost may be considered.
20.	Forest Clearance requirement	NA
21.	Wildlife Clearance Requirement	NA
22.	Proposed Green Cover	During the excavation of the channel 1207 trees will be cut down in the area. Trees will be planted 10 times the numbers of which are cut down as a mitigation measure.
23.	Proposed budget for green cover development	50 Lakhs

24.	Rain water harvesting	NA
25.	Proposed budget for rainwater harvesting	NA
26.	Details of tree Cutting	During the excavation of the channel 1207 trees will be cut down in the area. Trees will be planted 10 times the numbers of which are cut down as a mitigation measure.
27.	Details of Compensatory afforestation proposed	During the excavation of the channel 1207 trees will be cut down in the area. Trees will be planted 10 times the numbers of which are cut down as a mitigation measure.
28.	Proposed energy conserving measures	NA
29.	Power Requirement and Source	NA
30.	Water requirement and source	6.5 KLD of water required for construction will be taken trough Water Tankers from Government Department.
31.	Waste water Treatment and re- use	NA
32.	Solid Waste Generation	No solid waste will be generated.
33.	Solid Waste management	NA
34.	Hazardous waste Management	NA
35.	Resettlement and Rehabilitation	NA
36.	Employment generation	Temporary employment to about 15-20 workers during construction phase and more than 5 people during operational stage.
37.	Details of Litigation, If any	NA
38.	Details of Ground Water extraction	NA
39.	Benefits	Benefit to the people belonging in the surrounding villages, Refer EIA for More Details
40.	SCZMA Recommendation	TNSCZMA recommended the proposal to Ministry <i>vide</i> letter no. 959/EC.3/2024-1 dated 22/03/2024 as per CRZ Notification 2011.

- **4.** The Committee deliberated the proposal based on the information provided/presented by the proponent. After deliberation, the Committee has noted that project activity is permissible as per CRZ Notification, 2011 and TNSCZMA has also recommended the proposal.
- **5.** The Committee also noted that engineering design for the channel and associated structure has been prepared and recommended by the IIT Madras and the 1600 meter long storm water channel does not have any provision of maintenance road on its both sides which will be required for future maintenance. Further, no provision of vegetative protection to the adjoining areas of the channel is made which, in the event of any break in channel due to natural calamity, may help in controlling the inundation of the adjoining agricultural lands. The Committee also suggested a thick green cover on both the sides of the channel will be essential for this purpose.
- **6.** Furthermore, Committee was of the opinion that seeing the extent of the flood and possible high siltation in the area proper functioning of proposed storm drain channel needs to be ensured by regular maintenance of the channel under supervision and regular pre monsoon monitoring through a nationally reputed institute like IIT or IISER. The Committee also suggested that the proposed green belt should be implemented in consultation of Forest Department along the banks of the channel and approach road also created to ensure the proper maintenance of green belts. Moreover, periodic monitoring of adjacent coastal water quality in the area should be done through nationally reputed institute in the field and report should be submitted to IRO. In response, proponent has agreed the same.
- 7. The Committee, after detailed deliberations and considering the submissions made by the project proponent, has recommended the proposal for CRZ Clearance as per CRZ Notification, 2011, subject to certain specific conditions, as stipulated during its 365<sup>th</sup> meeting held on 16/05/2024 other than standard conditions.
- 8. Based on the recommendation of the Tamil Nadu Coastal Zone Management Authority and considering the submissions made by the project proponent, the Ministry of Environment, Forest and Climate Change, in acceptance of the recommendations of the Expert Appraisal Committee (CRZ), hereby accords CRZ Clearance to the project for "Construction of Storm Water drain Channel in Paravanar River at Aruva Mooku, Cuddalore District, Tamil Nadu by O/o The Executive Engineer, WRD, Coleroon Basin Division, Railway Feeder Road, Chidambaram, District Cuddalore, Tamil Nadu" under the provisions of the CRZ Notification, 2011 and amendments thereto, subject to the compliance of terms and conditions as under:-

#### **Specific Conditions**

S. No	Specific Conditions	
1	All construction shall be strictly in accordance with the provisions of the CRZ Notification, 2011, as amended from time to time.	
2	The discharge during monsoon and non-monsoon period to be monitored for understanding the	

S. No	Specific Conditions
	effectiveness of drain in mitigating flood in adjacent areas.
3	The morphological changes adjoining newly opened drain into sea should be monitored and report to be submitted to IRO.
4	At least 100 meter wide Green belt shall be developed along both the banks of the channel using indigenous species suitable for the area in consultation with Forest Department and proper maintenance road along the storm drain also created to ensure access for proper maintenance of channel and green belts.
5	Proponent should prepare SOP to ensure the proper functioning of proposed storm drain channel and submitted to concern IRO.
6	The PP should conduct periodic (once in a year) third party monitoring through a nationally reputed institute like NIOT / NCESS / NIO / IIT / IISER to ensure the effectiveness of the project and submit the report to IRO.
7	Any temporary physical infrastructure setup and excavated material during the construction of project shall not be dumped in water bodies or adjacent areas, construction material and structures/scaffoldings erected for construction at site shall be cleared immediately after finishing construction and it shall be ensured that no construction waste, garbage and machinery or equipment are left post construction.
8	No groundwater shall be extracted within the CRZ area to meet the water requirements during the construction and/or operation phase of the project.
9	Topsoil excavated during construction activities shall be stored for use in horticulture / landscape development etc. within the project site.
10	All the condition stipulated by Tamil Nadu Coastal Zone Management Authority (TNCZMA) <i>vide</i> letter No. 959/EC.3/2024-1, dated 22/03/2024 and commitments made by the PP before the TNCZMA and EAC shall be followed in letter and spirit
11	All necessary clearance from the concerned authority, as may be applicable should be obtained prior to commencement of project or activity.

## **General Conditions**

S. No	General Conditions	
1	Management of solid waste in accordance with the Solid Waste Management Rules, shall be strictly implemented.	
2	'Consent to Establish' and /or 'Consent to Operate' shall be obtained from State Pollution Control Board under the provisions of Air (Prevention and Control of Pollution) Act, 1981 and / or the Water (Prevention and Control of Pollution) Act, 1974, as may be applicable.	

S. No	General Conditions
3	Disposal of muck during construction phase should not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of Competent Authority.
4	All liquid waste arising from the proposed development will be disposed of as per the norms prescribed by 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 arrangement for situation arising due to malfunctioning of STP. There shall be regular monitoring of standard parameters of the effluent discharge from STP under intimation to the SPCB.
5	Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
6	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.
7	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.
8	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.
9	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.
10	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.
11	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.
12	All other statutory clearances such as the approvals for storage of diesel from Chief

S. No	General Conditions
	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.
13	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.
14	A copy of the clearance letter shall be sent by the proponent to 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.
15	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.
16	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 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.

- **9.** 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.
- **10.** 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 implementation of any of the above conditions is not found satisfactory.
- 11. 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.
- **12.** 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.
- **13.** 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.

**14.** This is issued with the approval of the Competent Authority.

(Dr. H. Kharkwal)

Scientist 'E' (CRZ)

#### Copy To

- 1. The Director, Department of Environment, Government of Tamil Nadu, No.1, Jeenis Road, Panagal Building, Ground Floor, Saidapet, Chennai-600015, Tamil Nadu.
- 2. The Deputy Director General, Ministry of Environment Forest and Climate Change, Integrated Regional Office, I<sup>st</sup> and II<sup>nd</sup> Floor, Handloom Export Promotion Council, 34, Cathedral Garden Road, Nungambakkam, Chennai 600034, Tamil Nadu.
- 3. The Member Secretary, Tamil Nadu Pollution Control Board, 76, Anna Salai, Guindy Industrial Estate, Race View Colony, Guindy, Chennai-600032, Tamil Nadu.
- 4. 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.
- 5. Monitoring Cell, MoEF&CC, Indira Paryavaran Bhavan, New Delhi.
- 6. Guard File/ Record File/ Notice Board/MoEF&CC Website.

(Dr. H. Kharkwal)

Scientist 'E' (CRZ)

