



सत्यमेव जयते

File No: 11/48/2023-IA.III
Government of India
Ministry of Environment, Forest and
Climate Change
IA-III Section (CRZ)
Centralized Processing Centre - Green



Dated 08/01/2024



To,

M/s Atul Limited

At & Post Atul, Village: Atul,
District: Valsad-396020,
GUJARAT

Email: Atul_parivesh@atul.co.in

Subject: Proposal for CRZ Clearance – CRZ clearance for 'New proposed pipeline for disposal of treated wastewater into the Estuary Zone of River Par from Central ETP at Atul, District Valsad, Gujarat by M/s Atul Limited -regarding

Sir/Madam,

This has reference to your online proposal no. IA/GJ/CRZ/449958/2023 dated 25/10/2023 on the above-mentioned project proposal for CRZ Clearance, in accordance with the provisions of the Coastal Regulation Zone (CRZ) Notification, 2011 and as amended thereof issued under the Environment (Protection) Act, 1986.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for CRZ Clearance for Proposal for CRZ Clearance – CRZ clearance for 'New proposed pipeline for disposal of treated wastewater into the Estuary Zone of River Par from Central ETP at Atul, District Valsad, Gujarat by M/s Atul Limited.
3. The proposal was considered by the Expert Appraisal Committee (EAC) for Infrastructure Development, Coastal Regulation Zone, Building/Construction and Miscellaneous projects, in its 346th meeting held on 08/11/2023. The Project Proponent (M/s Atul Limited) along with his EIA consultant (M/s Kadam Environmental Consultants) have made detailed presentation and informed the followings in the aforesaid meetings:
 - i. The proposal is for seeking CRZ Clearance under CRZ Notification, 2011 for 'Construction of new pipeline for disposal of treated wastewater into the Estuary Zone of River Par from Central ETP' at Atul, District Valsad, Gujarat by M/s Atul Limited.
 - ii. The proposed project consists of laying of treated wastewater disposal pipeline for 20.514 MLD of treated wastewater from existing pipeline outlet point of East Central ETP of Atul Limited to LFP (Land Fall Point) to the estuary zone of River Par.
 - iii. The existing pipeline (4 km 630 mm dia HDPE grade) was laid in 1998 and was granted CRZ *vide* letter

dated 17/01/1998. The existing treated wastewater pipeline has been in operations since last two decades and is currently working satisfactorily.

iv. Since the pipeline is quite old, chances of breakdown / leakages / choking cannot be ruled out, thereby damaging the estuary environment and also would result in shutdown of production activities in the plant. To continue the environmentally safe operations of treated waste water disposal, the new proposed pipeline would be laid in parallel to the existing one of similar capacity with diffuser arrangements. There will be neither any change in the discharge treated effluent quality nor in the quantity. Also pipeline diameter and discharge point will also be same as of existing one only. Existing pipeline will be removed after successful commissioning of proposed pipeline

v. The total length of proposed pipeline is ~4.0 Km.

vi. The combined treated wastewater is commonly collected in guard pond of 12525 m³ capacity as per existing situation. The same will be continued to be utilized in future. Thus, a total retention time for treated outlets of ETP will be ~12 hours per day.

vii. Outfall point selected based on Hydrodynamic Modelling studies with sufficient dilution and diffusion as per MOEF and CPCB Norms.

viii. EIA report has been prepared by M/s Kadam Environmental Consultants.

ix. CRZ report has been prepared by IRS, Anna University, Chennai and noted that the pipeline alignment falls in CRZ-IB, CRZ-III (NDZ) and CRZ-IVB as per approved CZMP (Map No. GJ 08). CRZ categorization is as follows:

Sl. No.	CRZ-Classification	Length (m)
1.	CRZ-IB	407.05
2.	CRZ-III(NDZ)	888.06
3.	CRZ-IVB	2704.89
Total		4000.00

x. The pipeline is designed, constructed and inspected in accordance with the following standards and codes viz., Central Public Health and Environmental Engineering Organisation (CPHEEO), IS Codes for pipe material and laying work and Other IS Codes related to Civil Engineering Works.

xi. Pumping main is designed based on economical diameter of rising main calculations for onshore and offshore pipeline (Based on CPHEEO Norms). Adequate velocity for pumping between 1-2 m/sec is taken in order to avoid any deposition in the total pipeline system and also have sufficient velocity at the tip of the diffuser system for effective dilution requirements. The onshore pipeline will be laid in trenches underground based on site conditions along the entire stretch up to landfall point.

xii. Even in the offshore section the pipeline will be buried in river bed from landfall point to outfall point in estuary zone of River Par. The pipeline design features/specifications are summarized in below table. The pipeline design features/specifications are summarized below:

Sl. No.	Description	Parameters
1	Flow rate	1000 m ³ /Hr
2	Number of pipelines	1
3	Size and MOC of Pipeline	630 mm OD HDPE PN8
4	Media	Treated effluent as per the GPCB norms
5	Temperature of media	Ambient
6	Length of pipeline	4000 mts
7	Mode of disposal	Estuary zone of River Par as suggested by NIO.
8	Onshore section of Outfall pipeline.	888.06 mts
9	Offshore section of Outfall pipeline	3111.94 mts

xiii. Employment: The estimated manpower requirement during construction phase will be ~15-20 workers.

During operation phase, maintenance and monitoring of pipeline will be carried out by existing employees of M/s Atul Ltd.

xiv. Power requirement: Construction Phase: power requirement will be fulfilled by 3 DG sets of 25 KVA. Operation Phase: No additional power is required as existing pump house will be used. Power required (150 kW) for 100 Hp (2 pumps + 1 standby) is sourced mainly from Captive Power Plant of Atul Ltd. or Dakshin Gujarat Vij Company Limited (DGVCL).

xv. The project activity does not attract prior Environmental Clearance under EIA Notification, 2006 as amended.

xvi. There are no National Parks, Sanctuaries and Tiger Reserves notified by the MoEF&CC within 10 km of the proposed project site. There is no Eco-Sensitive Zone (ESZ) or Eco-Sensitive Area (ESA) notified by the MoEF&CC within 10 km of the proposed project site.

xvii. The total cost of the project is 10.00 Crores.

xviii. The quality of treated wastewater compared with GPCB discharge norms for sea disposal based on third-party quality monitoring is presented below:

S. No.	Parameter	Average Quality of Outlet/ treated ETP (based on third party monitoring results)	Final Quality of wastewater of on third party monitoring results	GPCB Conditions for discharge	Consent
1	pH	7.58		5.5 to 9.0	
2	COD	196		250 mg/l	
3	BOD	42		100 mg/l	
4	SS	42		100 mg/l	
5	O & G	4.6		10 mg/l	
6	Phenolic Compounds	0.65		5 mg/l	
7	Cyanides	ND		0.2 mg/l	
8	Fluorides	0.84		2.0 mg/l	
9	Sulphides	0.98		2.0 mg/l	
10	Ammonical Nitrogen NH3-N	5.9		50 mg/l	
11	Total Chromium as Cr+3	ND		2.0 mg/l	
12	Hexavalent Chromium as Cr+6	ND		1 mg/l	
13	Arsenic as As	ND		0.2 mg/l	
14	Copper as Cu	0.086		3.0 mg/l	
15	Lead as Pb	ND		2.0 mg/l	
16	Mercury as Hg	ND		0.01 mg/l	
17	Nickel as Ni	ND		5.0 mg/l	
18	Zinc as Zn	0.26		15 mg/l	
19	Cadmium as Cd	ND		2 mg/l	
20	Phosphates as PO4	1.84		5 mg/l	
21	Sodium Absorption Ratio	6.39		26	
22	Manganese as Mn	0.048		2.0 mg/l	
23	Tin as Sn	ND		0.1 mg/l	
24	Temperature	30		40°C	
25	Colour	50 Co-Pt		-	
26	Bio Assay test	100 % survival of fish after 96 hours in 100% effluent		90 % survival of fish after 96 hours in 100% effluent	

xix. The permissibility of the proposed project in the CRZ area is as follows:

Project Activity	CRZ Category as per IRS Clause	CRZ Map	permitting activity as per CRZ Notification, 2011	Pipeline length in (m)
Pipeline area	CRZ IB		8 I (i) b	407.05
	CRZ III (NDZ)		3 (i) (a)	888.06
	CRZ IVB		4 (ii) (d), 4 (ii) (f)	2704.89

xx. Accordingly, GCZMA has recommended the proposed project to the Ministry *vide* its letter No. ENV-10-2021/215/T dated 29/08/2023.

4. The Committee deliberated the proposal based on the information provided/presented by the proponent. After deliberation, the Committee has noted that the project activity is permissible as per CRZ Notification, 2011 and GCZMA has recommended the project *vide* no. No. ENV-10-2021/215/T dated 29/08/2023. Further, the Committee has suggested the PP to submit the latest six monthly compliance reports submitted to IRO, treated effluents monitoring results, undertaking for laying pipeline parallel to the existing pipeline except across railway line, NOC from SPCB and details of show cause notice received during the last three years. In addition, the Committee has requested the proponent to remove existing pipeline immediately after the commissioning of proposed pipeline. In response proponent has submitted the details *vide* letter dated 08/11/2023 and same has been appraised by EAC while approving the minutes.

5. The Committee, after detailed deliberations and considering the submissions made by the project proponent, has recommended the proposal for CRZ Clearance, subject to certain specific conditions, as stipulated during its 346th meeting held on 08/11/2023.

6. Based on the recommendation of the Gujarat 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 new pipeline for disposal of treated wastewater into the Estuary Zone of River Par from Central ETP at Atul, District Valsad, Gujarat by M/s Atul Limited’** under the provisions of the CRZ Notification, 2011 and amendments thereto, subject to the compliance of terms and conditions as under:-

PART A – 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 proposed new pipeline shall be within the Right of Way of the existing pipeline except for the stretch falling in railway land to which the railway has objected.
3. The old pipeline shall be removed within 12 months from the date of commissioning of the new Pipeline and material shall be disposed of beyond the CRZ area as per Solid Waste Management Rules, 2016 under the supervision of GCZMA.
4. M/s Atul Limited should strictly ensure the disposal of treated effluent discharge into the Estuary/ Creek /Sea to the prescribed standards of CPCB / GPCB.
5. Water quality of the entire Estuary / Creek should be monitored regularly to see the impact of treated effluent

- discharge and submit six monthly reports to IRO of the Ministry.
6. Topsoil excavated during construction activities shall be stored for use in horticulture/landscape development etc. within the project site.
 7. No groundwater shall be extracted within the CRZ area to meet the water requirements during the construction and/or operation phase of the project.
 8. No storage reservoir for sea-water shall be permitted and only a pipeline conveyance system shall be installed.
 9. Permanent labour camp, machinery and material storage shall not be set up in the CRZ area.
 10. Temporary toilets will be provided for all construction labour. Suitable toilet fixtures for water conservation shall be provided. Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure-reducing devices or sensor-based control.
 11. Construction material and structures/scaffolding 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.
 12. All the conditions stipulated by the Gujarat Coastal Zone Management Authority for CRZ clearance under CRZ Notification, 2011 *vide* its letter no ENV-10-2021/215/T dated 29/08/2023 and commitments made by the PP before the GCZMA and EAC shall be followed in letter and spirit.
 13. The Project Proponent shall comply order/direction, if any, issued by the Hon'ble Court/tribunal on the project.
 14. All necessary clearance from the concerned authority, as may be applicable should be obtained prior to the commencement of the project or activity.

PART B - GENERAL CONDITIONS:

1. Management of solid waste in accordance with the Solid Waste Management Rules, 2016 shall be strictly implemented.
2. 'Consent to Establish' and/or 'Consent to Operate' shall be obtained from the 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.
3. 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 the 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 arrangements for situations 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 the 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 the implementation of environmental safeguards stipulated. It shall be ensured that the 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 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 the concerned Panchayat, Zilla Parishad/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.
7. 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.
 8. 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.
 9. 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.
 10. 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.
 11. 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 Trans-boundary 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.
 12. This issue with the approval of the Competent Authority.

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

Copy To

1. The Principal Secretary, Forests & Environment Department, Government of Gujarat, Block 14, 8th floor, Sachivalaya, Gandhinagar - 382 010. Gujarat.

2. The Deputy Director General (C), Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Gandhi Nagar A wing- 407 & 409, Aranya Bhawan, Near CH-3 Circle, Sector-10A, Gandhi Nagar-382010, Gujarat.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi -110 032.
4. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10A, Gandhinagar-382010, Gujarat.
5. The Member Secretary, Gujarat Coastal Zone Management Authority, Block No: 14/8th Floor, New Sachivalaya, Sector 10A, Sector 10, Gandhinagar-382010, Gujarat.
6. Monitoring Cell, MoEF&CC, Indira Paryavaran Bhavan, New Delhi.
7. Guard File/ Record File/ Monitoring Cell / Notice Board/MoEF&CC website.

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

