

## **MINUTES OF THE 335<sup>th</sup> MEETING OF EXPERT APPRAISAL COMMITTEE FOR PROJECTS RELATED TO COASTAL REGULATION ZONE HELD ON 07/08/2023.**

The 335<sup>th</sup> meeting of the Expert Appraisal Committee (EAC) for projects related to Coastal Regulation Zone was held on 07/08/2023 at IBP, MoEF&CC, New Delhi through Video Conferencing. The list of Members presents in the EAC (CRZ) is at **Annexure**.

The deliberations held and the decisions taken are as under:

### **1.0 OPENING REMARKS OF THE CHAIRMAN**

At the outset, Dr. Deepak Arun Apte, Chairman, EAC (CRZ) welcomed the Members of the EAC and requested Dr. H. Kharkwal, the Member Secretary, EAC to initiate the proceedings of the meeting with a brief account of the activities undertaken by the Ministry under CRZ Division.

### **2.0 CONFIRMATION OF THE MINUTES OF THE LAST MEETING**

The Committee having noted that the Minutes of the 334<sup>th</sup> meeting held on 31/07/2023 are in order and confirmed the same with suggestions that in case any typographical/grammatical errors are noticed in due course, the same may be corrected suitably.

### **3.0 CONSIDERATION PROPOSALS:**

The EAC (CRZ) considered proposals as per the agenda adopted for the 335<sup>th</sup> meeting. The details of deliberations held and decisions taken in the meeting are as follows:

#### **AGENDA 3.1**

**Proposal for Laying of RO Reject Disposal pipeline from proposed 60 MLD common effluent treatment plant (CETM), Dholera Special investment region (SIR) in to Sukhbadar Creek, Gulf of Khambhat, Gujarat by M/s Dholera Special Investment Region Development Authority (DSIRDA) – Reconsideration for CRZ Clearance (IA/GJ/CRZ/414087/2023; F. NO.11/15/2023-IA.III)**

***“The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP report. If any part of the data/information submitted is found to be false /misleading at any stage, the project will be***

**rejected and Environmental and or CRZ Clearance given, if any, will be revoked at the risk and cost of the project proponent.”**

1. The proposal was earlier considered by EAC it is 323<sup>rd</sup> meeting held on 23/03/2023 and 329<sup>th</sup> meeting held on 29/05/2023 and after detailed deliberation, EAC has recommended the proposal for CRZ Clearance subject to specific conditions. Details presented during the above meetings by the Project Proponent (M/s Dholera Special Investment Region Development Authority) and their consultant (M/s AECOM India Private Limited) is as follows:

- (i) The proposal is for seeking CRZ clearance for “Laying of RO Reject Disposal pipeline from proposed 60 MLD Common Effluent Treatment Plant (CETP), Dholera Special Investment Region (DSIR) in to Sukhbadar Creek, Gulf of Khambhat, Gujarat by M/s Dholera Special Investment Region Development Authority (DSIRDA).
- (ii) The development of DSIR encompasses an integrated industrial effluent management system, one of the components of which is a Central Effluent Treatment Plant (CETP) of capacity 60 MLD including Reverse Osmosis (RO).
- (iii) The proposed project involves a 13.5 km long outfall pipeline connecting 60 MLD CETP to Sukhbhadar Creek at Gulf of Khambhat in order to discharge 12 MLD of RO Reject from the CETP.
- (iv) The Site location of the project as:

Description	Name	Latitude	Longitude
Proposed CETP	A.	22°12'48.030"N	72°12'38.080"E
	B.	22°12'50.300"N	72°12'44.007"E
	C.	22°12'48.710"N	72°12'48.096"E
	D.	22°12'41.250"N	72°12'51.320"E
	E.	22°12'37.930"N	72°12'42.430"E
Proposed RO reject pipeline	F.	22°12'44.410"N	72°12'42.776"E
	G.	22°09'12.960"N	72°12'19.421"E

- (v) The total length of pipeline is 13527.7 meter and CRZ demarcation along the pipeline alignment is as follows:

Description	CRZ - Classification	Length (m) (Area Sq. m)
Proposed RO Reject Pipeline	CRZ - IA	1128.65
	CRZ - IA (50 m Mangrove Buffer Zone)	112.38
	CRZ - IB	2642.14
	CRZ - III (NDZ)	4830.67
	CRZ - IVB	267.75
	Outside CRZ	4546.12
Proposed CETP	Outside CRZ	88296.4

- (vi) The pipeline is proposed to be of 400 mm diameter and buried 2m below the ground, to be laid in a 1 m wide trench using the cut-and-cover method and would have an online water quality monitoring equipment which would continuously monitor the water quality of the RO Reject.
- (vii) The portion 112.38m of the proposed RO Reject pipeline is passing through mangrove buffer areas.
- (viii) About 4.5 km of the pipeline towards the CETP side is located outside CRZ.
- (ix) The outfall would be located underwater and equipped with diffusers to ensure instant dilution and dispersion of the discharged material into the surrounding seawater.
- (x) Based on the modelling output, it is deduced that the order of dilution shows 150 times in 25 m distance and 1500 times in 100 m distance from discharge point.
- (xi) The total 100 permanent employment likely to be generated by the project.
- (xii) The total cost of the project ₹9.0 Crore. An amount of ₹6.0 Lakh is proposed for environmental monitoring during the operation phase of the project
- (xiii) The Gujarat Pollution Control Board has issued provisional Consent Order (CTE) *vide* Consent No. CTE-95494 and valid upto 05/07/2025.
- (xiv) The Gujarat Coastal Zone Management Authority (GCZMA) has recommended the proposal for CRZ clearance *vide* its Letter No. ENV-10-2017-70-T, dated 27/09/2022.

2. However, while processing the file for CRZ Clearance, the project proponent has requested amendment in specific condition no. (viii) viz., “*Industries such as bulk drugs, pesticides, chemicals, petro-chemicals, pharmaceuticals and their effluent should not be allowed to dispose of effluent in this project.*” Accordingly, the proposal was examined by MoEFCC and request of PP placed before the EAC in present meeting.

3. During the deliberation, the project proponent (M/s Dholera Special Investment Region Development Authority) and their consultant (M/s AECOM India Private Limited) have submitted that chemicals are essential to process chain for establishing semiconductor. So, the said specific condition implies restriction not only on effluent but also to industries itself and create barrier for industries which are even ready to comply with CETP inlet norms. Imposing such condition will lead to ambiguity to investors which may result in post clearance issues and amendments.

4. Committee observed that chemicals of concern generated as effluents from semiconductor industries are:

- a) Heavy Metals such as Cadmium, Lead, Mercury and Chromium. These metals can be toxic to aquatic life and can accumulate in the environment.
- b) Acids and Bases such as Hydrochloric Acid (HCl) and Sulfuric Acid (H<sub>2</sub>SO<sub>4</sub>), and strong bases like Sodium Hydroxide (NaOH).
- c) Organic Solvents like Acetone, Iso-Propyl Alcohol (IPA), and various hydrocarbons are commonly used in semiconductor cleaning processes.

These solvents can contribute to air pollution and can be hazardous to human health.

- d) Waste Photolithography Chemicals: Fluoride: Fluoride-containing chemicals are used in etching and cleaning processes. Nitric Acid and Nitrogen containing compounds: These chemicals are used in various processes, including cleaning and etching and if not, treated properly can contribute to pollution in water bodies.

4. After detailed deliberation, the Committee asked PP to submit a comprehensive effluent characteristics, quantity and treatment plan specific to the semiconductor industries need to present before the EAC, however, PP intimated that all detailed plan analysis on types of industrial wastes, chemicals discharge from Industries will be submitted before the next meeting. The EAC also suggested, the details of HDD in CRZ-I areas. On request of PP that they need time to provide this information, Committee deferred the project for submission of details as stated in sr. No 3 as above.

### **AGENDA 3.2**

**Proposal for Construction of beach resort on plot bearing S. No.33, H.No.5B & 5/A/1 at mauje Undi, Tal. & Dist. Ratnagiri by Shri Pravin Kalyan Amre-CRZ Clearance.**

**(IA/MH/CRZ/435098/2023; F. No. 11/35/2023-IA.III)**

***“The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP report. If any part of the data/information submitted is found to be false/misleading at any stage, the project will be rejected and Environmental and or CRZ Clearance given, if any, will be revoked at the risk and cost of the project proponent.”***

The Project Proponent (M/s Radheshaa Ventures Private Limited) made a presentation on above said proposal. The EAC took note of following key parameters and salient features of the project as presented during the meeting as well as the details provided in the brief and application for this project:

- (i) The proposal is for seeking CRZ Clearance under CRZ Notification, 2011 for construction of Resort on Plot Bearing Survey No. 33, Hissa No. 5A1 & 5B at Village Undi, Taluka & District Ratnagiri, Maharashtra by M/s. Radheshaa Ventures Private Limited.
- (ii) Total plot area is 2.4866 ha. Total Built-up area is 6600 Sq.m.
- (iii) Maximum height of the building is 9m.
- (iv) Total cost of the project is ₹9.0 Crore
- (v) The project does not attract prior Environment Clearance as per EIA Notification, 2006 as amended.

- (vi) Solid waste generation during operation phase will be 25 kg/day. Quantity of waste water generation is 14 KLD and the same is treated in STP of 15KLD. Rain water storage of 10KLD is proposed.
- (vii) The project is not located in Critically Polluted area.
- (viii) The project is not located within 10 km of Eco Sensitive Zone. NBWL Clearance is not required.
- (ix) Forest Clearance is not required. No tree cutting is involved.
- (x) No court case is pending against the project.
- (xi) Employment generation: Permanent-10; temporary-35.
- (xii) Benefit of the project: The proposed project is the part of Rural infrastructure development.
- (xiii) Maharashtra Coastal Zone Management Authority has recommended the proposal for CRZ Clearance *vide* letter dated 12/05/2023.

2. The Committee made detailed deliberation on the proposal and noted that the project activity is permissible as per CRZ Notification, 2011 and Maharashtra Coastal Zone Management Authority has recommended the proposal for CRZ Clearance *vide* letter dated 12/05/2023. Further, the committee has noted that project proponent should follow the guidelines for development of beach resorts or hotels in the CRZ-III and CRZ-II areas as stipulated in Annexure III of CRZ Notification, 2011.

3. The Committee after detailed deliberations and considering the submissions made by the project proponent recommended the proposal for CRZ Clearance, subject to the following conditions:

- (i) The proposed construction should be as per extant norms given at Annexure-III of the CRZ Notification, 2011 and as amended from time to time.
- (ii) 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.
- (iii) No groundwater shall be extracted within the CRZ area to meet the water requirements during the construction and/or operation phases.
- (iv) Permanent labour camp, machinery and material storage shall not be set up in the CRZ area.
- (v) The wastewater shall be treated using the most effective technology available and the treated water from the STP shall be recycled and reused for gardening, flushing etc. There shall be no discharge of treated water from the project.
- (vi) Energy conservation measures like installation of LED/CFLs/TFLs and Solar Panels for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning.

- (vii) Green belt shall be developed in area as provided in project details, with native tree species in accordance with Forest Department.
- (viii) Top soil shall be separately stored and used in the development of green belt.
- (ix) All the conditions stipulated by the Maharashtra Coastal Zone Management Authority (MCZMA) for CRZ clearance under CRZ Notification, 2011 *vide* letter dated 12/05/2023 and commitments made by the PP before the MCZMA and EAC shall be followed in letter and spirit.
- (x) All necessary clearance from the concerned authority, as may be applicable should be obtained prior to commencement of project or activity.

### **AGENDA 3.3**

**Proposal for deep sea disposal of treated effluent (80 MLD) and laying of the proposed pipeline for from the sump at Village Chikasa near Navi Bandar, District Porbandar for treated effluent collected from existing CETPs at Jetpur, Bhat gam and from proposed CETP at Manpur Derdi by M/s Jetpur Industrial Pipeline Project Private Limited - CRZ Clearance.**

**(IA/GJ/CRZ/432298/2023; F.No. 11/36/2023-IA.III)**

***“The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP report. If any part of the data/information submitted is found to be false/misleading at any stage, the project will be rejected and Environmental and or CRZ Clearance given, if any, will be revoked at the risk and cost of the project proponent.”***

The Project Proponent (M/s Jetpur Industrial Pipeline Project Private Limited) and their consultant (M/s Envision Enviro Technologies Pvt. Ltd) made a presentation on above said proposal. The EAC took note of following key parameters and salient features of the project as presented during the meeting as well as the details provided in the brief and application for this project:

- (i) The proposal is for seeking CRZ Clearance under CRZ Notification 2011 for proposed pipeline for Deep Sea Disposal from the Sump at village Chikasa near Navi Bandar, Porbandar District, Gujarat, for Treated Effluent collected from existing CETPs at Jetpur, Bhat gam and from the proposed CETP at Manpar Derdi.
- (ii) The scope of the project is to collect the 80 MLD treated effluent from the existing CETPs at Jetpur, Bhat gam and proposed CETP at Derdi via pipeline conveyance system for deep sea disposal near Navibandar, Porbandar area.
- (iii) The project thus envisages only conveyance of outlet of these three CETP's treated waste water by means of pumping from proposed Pumping station at Chikasa village to deep Sea through a scientifically designed diffuser system.

- (iv) Total length of the pipeline is 119 km. Total length of the pipeline in the CRZ area is 5.64 km (0.64 km onshore + 5.0 km offshore). Details as follows:

Description	CRZ Classification	Length (m)	Total length (m)
Sumo to Landfall Point	CRZ-IB	371.5	1092
	NDZ	173.7	
	CRZ-III	74.4	
	CRX-IVB	18.6	
	Outside CRZ	453.8	
Landfall Point to Outfall Point	CRZ-IB	116.53	3316
	CRZ-III(NDZ)	1.62	
	CRZ-IVA	3197.87	

- (v) As per the CRZ boundary and demarcation of High Tide Line and Low Tide Line, proposed sump is outside the CRZ area and pipeline location falls under CRZ-III, CRZ-IB(Intertidal Zone), CRZ-IVA and CRZ-IVB. Details as follows:

Sl. No.	Description	Location	Coordinates	Details of conveyance system (km)	Remarks
1.	Segment 1 Sump and pumping house	Chikasa village near Navibandar, Porbandar	21°28'27.96"N 69°46'18.16"E	-	Out of CRZ area
2.	Segment 2 (Onshore Pipeline)	From proposed Sump to Land Fall Point	21°27'54.30"N, 69°46'18.50"E	MOC: HDPE Outer Diameter: 1000 mm Inner Diameter (ID): 980 mm Length: 1.09 km	0.64 km in CRZ area + 0.45 km outside CRZ area
3.	Segment 3 (Offshore Pipeline)	From Land Fall Point to Outfall Point	21°26'13.41 N, 69°44'02.22 E	MOC: HDPE Outer Diameter: 1000 mm Inner Diameter (ID): 980 mm Length: 5.0 km	In CRZ area
4.	Segment 4 (Diffuser)	At Outfall Point	21°26'13.41 N, 69°44'02.22 E	Depth at diffuser location: 16.4 m CD. Multiple Ports: 6 Nos. Diameter: 0.3 m	In CRZ area

- (vi) During Construction phase total water requirement is 13.6 KLD. The source of water supply is from tanker. Waste water generation from the proposed project during Construction Phase will be around 4.5 KLD which will be disposed to the septic tank/soak pit system.

- (vii) During operation phase, total water requirement will be around 3.7 KLD. The source of water supply is from tanker. Waste water generation from the proposed project during operation Phase will be around 0.5 KLD which will be disposed to the septic tank/soak pit system.
- (viii) Total cost of the project is ₹675 crores.
- (ix) The project is not located in Critically Polluted area.
- (x) The project is not located within 10 km of Eco Sensitive Zone. NBWL Clearance is not required.
- (xi) Forest Clearance is not required. No tree cutting is involved.
- (xii) No court case is pending against the project.
- (xiii) Employment generation: Construction phase: 10; Operation phase: 15.
- (xiv) Benefits of the project: Conveyance & disposal of the treated effluent, Employment generation etc.
- (xv) Gujarat Coastal Zone Management Authority has recommended the proposal for CRZ Clearance *vide* letter No.ENV-10-2022-107-T, dated 30/05/2023.

2. The Committee made detailed deliberation on the proposal and noted that:
- a) The Comprehensive Turtle Conservation Plan needs to be submitted including financial details.
  - b) Committee suggested that all CRZ crossing areas should be through HDD method. Accordingly, details need to be revised in the plan.
  - c) The Committee also noted that the TDS of the treated effluent from CETPs is exceeds the threshold limit of GPCB / CPCB norms and suggested submit detail information about the name and type of industry their outlet norms before CETP, inlet and outlet norms of CETP, marine disposal norms and methods of disposal in deep sea along with comparative statement of all prescribed standard of GPCB/CPCB along with plan of monitoring at outfall location on marine water quality and ecology.

The Committee suggested submit all the aforesaid documents / clarification. Accordingly, the proposal has been deferred.

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**Annexure**

**List of the Expert Appraisal Committee (CRZ) Members participated during VC Meeting held on 07/08/2023.**

<b>S. No.</b>	<b>Name of Members</b>	<b>Designation</b>
1.	Dr. Deepak Arun Apte	Chairman
2.	Dr. Manoranjan Hota	Member
3.	Shri S. Jeyakrishnan	Member
4.	Shri M.S. Negi	Member
5.	Prof. V. K. Jain	Member
6.	Prof. A.K. Pachauri	Member
7.	Shri Sham Wagh	Member
8.	Dr. M.V.Ramana Murthy	Member
9.	Dr. Niraj Sharma	Member
10.	Dr. H. Kharkwal	Member Secretary
11.	Dr. Ragavan P, Scientist B	MoEF&CC

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