

MINUTES OF THE 348th MEETING OF EXPERT APPRAISAL COMMITTEE FOR PROJECTS RELATED TO COASTAL REGULATION ZONE HELD ON 29/11/2023.

The 348th meeting of the Expert Appraisal Committee (EAC) for projects related to Coastal Regulation Zone was held on 08/11/2023 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, Shri N.S. Negi, 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 346th meeting held on 08/11/2023 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.

2.1 Correction in earlier minutes:

The Member Secretary has intimated the EAC that while processing the file, it has been found a line needs to be added in para 2 of Agenda 3.2 after.... the project *vide* letter No. CRZ 2023/CR103/TC4 dated 09/06/2023.

“The revised EIA report has been considered by EAC while approving the minutes.”...

.....Accordingly, the Committee recommended the proposal for CRZ Clearance on receipt of revised EIA report and with following specific condition other than.....

The EAC agreed the aforesaid corrections in minutes of 343rd meeting in Agenda no. 3.2, para 2.

deliberated the proposal based on the information provided by the proponent. After deliberation, the Committee has noted that the project activity is permissible and MCZMA has recommended the project *vide* letter No. CRZ 2023/CR103/TC4 dated 09/06/2023. Accordingly, the Committee recommended the proposal for CRZ Clearance on receipt of revised EIA report and with following specific conditions other than standard conditions:

3.0 CONSIDERATION OF PROPOSALS:

The EAC (CRZ) considered proposals as per the agenda adopted for the 348th 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. Earlier, the proposal was considered by EAC it is 323rd meeting held on 23/03/2023, 329th meeting held on 29/05/2023 and 335th meeting held on 07/08/2023.

2. After detailed deliberation, EAC has recommended the proposal for CRZ Clearance subject to specific conditions as stipulated by EAC in its 329th meeting other than standard 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 (CETM), Dholera Special investment region (SIR) 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
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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°9'12.960"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)
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 (Area Sq. m)

- (vi) The pipeline is proposed to be of 400 mm diameter and buried 2 m 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) About 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) Total 100 permanent employment is 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.

3. 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 MoEF&CC and request of PP placed before the EAC in its 335th meeting held on 07/08/2023.

4. 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.

5. 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 (H₂SO₄), 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.

6. After detailed deliberation, the Committee in its 335th meeting asked PP to submit 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 on request of PP and request for submission of details as stated at Para 3 above.

7. Accordingly, proponent has submitted the desired information though PARIVESH portal and the same has deliberated by EAC in the meeting held on 31/10/2023.

8. The PP made presentation of point wise information submitted / uploaded by them in response to the questions raised by the EAC in its 335th meeting on 07/08/2023. During deliberation, the Committee invited the attention of the PP (Dholera Special Investment Region) towards Joint Secretary (Industries), Government of Gujarat letter no.MIS102023-UOR-225-I-1, dated 22/09/2023 addressed to the Ministry of Environment, Forest and Climate Change *vide* which, based on the opinion sought from the various departments, especially from CEO DSIR, it was intimated that proximity of the Chemical Industrial park to the DSIR, which is designated for Sunrise Sector such as Semiconductors and display Fab manufacturing, is of great concern and, therefore a thorough assessment of the potential adverse impact on Sunrise Sector Industries is required for establishing chemical industries in the region.

9. The Committee also drawn the attention of PP on CEO, DSIRDA letter dated 11/10/2023 directly addressed to the MoEFCC on the same subject and requesting the Ministry to discourage the chemical, petroleum and petrochemical sector within 100 km of DSIR. The Committee requested PP to clarify whether the concerns raised in these letters have been addressed by the PP while proposing chemicals, Petro-chemicals and pharmaceuticals industries in DSIR and requesting the EAC to amend the 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.” which was considered to be stipulated in CRZ clearance recommended in EAC 229th meeting.

10. In response, project proponent requested the Committee for additional time to provide clarification in this regard. The Committee, on request of the PP, deferred the proposal and sought detailed impact analysis, including parameters at disposal point in the gulf.

11. In view of above, the proponent has submitted their response *vide* letter dated 16/11/2023. Accordingly, the proposal has been considered by the EAC in the present meeting.

12. After deliberation, the Committee observed that:

- i. As stated in para 8 and 9 above, EAC in its 343rd meeting had invited the attention of the PP towards Joint Secretary (Industries), Government of Gujarat’s letter No. MIS102023-UOR-225-I-1, dated 22/09/2023 addressed to the Ministry of Environment, Forest and Climate Change and CEO DSIRDA letter dated 11/10/2023, directly addressed to the Ministry *vide* which concerned about adverse impact of Chemical, Petro-Chemical and Pharmaceutical Sector on Sunrise Sector Industries were raised and request was made to discourage them within 100 km radius of DSIRDA. EAC had advised PP to clarify whether these concerns are addressed.
- ii. The PP in its letter dated 28/11/2023 has attempted to reply to issue raised in CEO DSIRDA letter dated 11/10/2023 without clarifying whether, in view of concern raised by the Government of Gujarat about

establishing such Chemical Industries in and around DSIR, the State Government is satisfied with the justification given by it for establishing these Chemical Industries in DSIR.

- iii. In view of the above the Committee was of the opinion that PP should get the views of the State Government on the justification given by it and the same shall be submitted to the Ministry to enable the EAC to take decision on the matter.

13. The Committee, considering the importance of the project, advised the PP to submit the opinion of the State Government within 4-5 days so that the Committee can take decision in this regard before finalisation of the minutes. However, the PP could not provide the information as requested. Accordingly, the proposal was deferred till the receipt of information sought.

14. The Committee was also of the opinion that PP should be represented by the authority at an appropriately higher level who can take decisions and undue deferring of the decision on the proposal is avoided.

AGENDA 3.2

Proposed Construction of Bridge at Madh-Versova Creek in K/W and P/N ward by M/s Brihanumbai Municipal Corporation-CRZ Clearance

[IA/MH/CRZ/447177/2022] [11/50/2023-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 proposal was earlier considered by EAC in its 346th meeting held on 08/11/2023; wherein before make a presentation on aforesaid proposal, the EAC took note that despite the project listed in the agenda of this meeting; the proponent has failed to circulate the necessary documents to Members of the EAC prior to the meeting. Hence, the Committee was not in a position to consider the proposal without the background/necessary documents in the present meeting and same was also accepted by PP/ consultant. The Committee also suggested the PP and Consultants that the project is very near to mangrove CRZ-I area. Therefore, future presentation needs to be made with detail plan of road connectivity with surrounding road etc. The Committee further advised the proponent and consultants to submit the documents at the earliest in future to avoid the unnecessary delay in appraising the proposal.

2. In view of above, the Project Proponent has circulated all documents *vide* email dated 24/11/2023 and the proposal was considered by the EAC in the meeting.

3. The Project Proponent (**M/s Brihanumbai Municipal Corporation**) along with his EIA consultant (**M/s Centre for Envotech & Management Consultancy Private Ltd.**) has 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, 2019 for construction of Construction of Bridge at Madh-Versova Creek in K/W and P/N ward, Mumbai Suburban, Maharashtra.
- (ii) The proposed project is roads on stilt.
- (iii) Salient Features of Bridge is as follows:

Total Bridge Length	1635m
Proposed Right of Way	27.45
Area of land reclamation	28022.4 Sq. m
Estimated quantity of muck/earth for reclamation	1,06,250 Cu.m
Carrying capacity of traffic	15,536 - Design Traffic PCU per day (both way)
Lane Configuration	2 + 2 lanes with each carriageway of 7.5m with 1m median
Footpath	1.5m on either side
Utility Corridor	1.5m on either side
Approaches with Solid Ramp and Retaining wall	180m
Bridge portion with 25 m span	1050m
Bridge portion with Cable stay section	300m
Road work with solid embankment	317m with dual two-lane carriageway of 7.5m, 3.5m service roads and 1.5m footpaths
Flyover Interchange	No
Railway Over Bridges	No
Tunnels	No
Vehicular Underpass	No

- (iv) CRZ report has been prepared by IRS, Anna University. The report has noted that the proposed bridge falls in CRZ-IA, CRZ-IA (Mangrove Buffer),

CRZ-IVB, CRZ-III (NDZ inside CRZ-II within Mumbai), CRZ-IB and CRZ-II with the remaining portion outside CRZ.

- (v) EIA report has been prepared by M/s Centre for Envotech & Management Consultancy Private Ltd.
- (vi) The project activities are permissible as per Para 5 Clause 5.1.1 (iii), Clause 5.1.2 (i) (c), Para 5.2 (i), Para 10.3 clause (i) of the CRZ notification 2019.
- (vii) CRZ categorization of proposed alignment (in sq. m) is as follows:

CRZ-I		CRZ-II	CRZ-III	CRZ-IV	Total
CRZ-IA	CRZ IA 50 Mangrove buffer zone area	CRZ-IB	CRZ-III	CRZ-IVB	
16892.18	19340.13	5317.08	7322.55	72.46	61257.87

- (viii) The Project requires diversion of 2.8022 ha. Forest (Mangrove) land for the proposed project at village Versova and Erangul, Tal Borivali, Mumbai Suburban District. Total 560 Mangroves trees are proposed to be felled. Accordingly, Forest Diversion approval has been applied *vide* proposal bearing Number: FP/MH/ROAD/144163/2021. Mangrove plantation shall be done on 1 ha. degraded forest land in Palghar District.
- (ix) The Proposed alignment is not passing through any protected area or Eco Sensitive Zone. The aerial distance of the nearest protected area as follow, Sanjay Gandhi National Park: 6.8 km Thane Flamingo Creek Sanctuary: 13.9 km.
- (x) Total water requirement is 200 KLD and the same will be sourced through Brihanmumbai Municipal corporation
- (xi) The Construction and Demolition waste generated from the project shall be treated in accordance of the Construction and Demolition Waste Rules 2016.
- (xii) The Project being the Internal Road of Brihanmumbai Municipal Corporation and it does not attract EIA notification 2006.
- (xiii) Total cost of the project is ₹1300 Cr.
- (xiv) Employment generation: During construction; permanent: 603 No. During construction; temporary: 597 No.
- (xv) Benefits of the project: The 1.5-km bridge from Madh to Versova will cut down travel time from 1 hour to 20 minutes. Also, Madh Island is not connected with Mumbai city. This project will improve connectivity. The Project will establish a direct connectivity to Madh island of Mumbai.
- (xvi) The Maharashtra Coastal Zone Management Authority has recommended the project *vide* letter No. CRZ 2022/CR 319/TC4 dated 28/03/2023.

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 2019 and

Maharashtra Coastal Zone Management Authority has recommended the project. Further, the Committee has suggested that considering the increasing air pollution in Mumbai, proponent should take necessary precautionary measures for monitoring and mitigation of SPM in project site and adjacent areas and also shall propose solar power and other energy conservation measure to meet the significant portion of total electricity requirement. In addition, the Committee has opined the PP should prepare compensatory mangrove plantation plan and care to be taken to safeguard the ecological health of the adjacent mangrove areas, mangrove plantation success rate, monitoring plan in consultation of Maharashtra Mangrove Cell / Forest Department. In response, proponent has agreed to the same. Accordingly, the Committee recommended proposal for CRZ Clearance with following Specific conditions other than General conditions:

- (i) All construction shall be strictly in accordance with the provisions of the CRZ Notification, 2019, as amended from time to time.
- (ii) Distance two piers of the bridge shall be increased from 20 meter to 30 meter to reduce the number of the piers and to minimise the damage to the creek and the mangrove.
- (iii) PP should monitor SPM regularly during construction period at project site and adjacent areas, take necessary precautionary measures and report should submit to concern IRO to the Ministry.
- (iv) Proponent should propose solar power and other energy conservation measure to meet the significant portion of total electricity requirement.
- (v) The compensatory mangrove plantation plan should be prepared and care to be taken to safeguard the ecological health of the adjacent mangrove areas, Mangrove plantation success rate, monitoring plan in consultation of Maharashtra Mangrove Cell / Forest Department and submit the report to IRO of the Ministry.
- (vi) No groundwater shall be extracted within the CRZ area to meet the water requirements during the construction and/or operation phase of the project.
- (vii) Prior High Court Bombay permission has to be obtained, since project involves cutting of Mangroves and activities are situated within 50 m mangrove buffer zone area.
- (viii) Prior Forest Clearance under Forest (Conservation) Act, 1980 should be obtained before start construction of the project.
- (ix) Flow of natural tidal water to mangroves should remain un-affected and thus adequate measures to be provided to maintain un-interrupted tidal water to mangroves.
- (x) The flow conditions at upstream and downstream of bridge should be monitored after construction of bridge through reputed national institutes.
- (xi) Topsoil excavated during construction activities shall be stored for use in horticulture / landscape development etc. within the project site.
- (xii) Water quality of the entire creek should be monitored regularly to see the impact of construction and reclamation activities and submit the report to IRO of the Ministry.

- (xiii) 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.
- (xiv) The Project Proponent should comply order/direction, if any, issued by Hon'ble Court/tribunal on the project.
- (xv) All the conditions stipulated by the Maharashtra Coastal Zone Management Authority for CRZ clearance under CRZ Notification, 2019 *vide* its letter no CRZ 2022/CR 319/TC4 dated 28/03/2023 and commitments made by the PP before the MCZMA and EAC shall be followed in letter and spirit.
- (xvi) 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 laying of 3 parallel above ground pipeline that is 12" & 20" petroleum product pipelines & 4" Air / Nitrogen pipeline with associated facilities from Kandla Terminal located at Khari Rohar, Kandla, Gandhidham to Kandla Port Trust, Oil Jetty 4 covering each pipeline having approx. length 8.3km by M/s Hindustan Petroleum Corporation Limited-CRZ Clearance

[IA/GJ/CRZ/449167/2023] [11/51/2023-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.”

Before the presentation by PP Mr. Sukumaran Jeyakrishnan Member recused himself from subject discussion since he was associated with HPCL during his service years (4 years ago).

The Project Proponent (**M/s Hindustan Petroleum Corporation Limited**) along with his EIA consultant (**M/s Green Circle Inc**) 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 laying of 3 parallel above ground pipeline from Kandla Terminal located at Khari Rohar, Kandla, Gandhidham to Kandla Port Trust, Oil Jetty 4 covering each pipeline having approx. length 8.3 km.

- (ii) The proposed pipeline project does not pass through national parks/Sanctuaries/coral reefs/ecologically sensitive areas as per project activity 6(a) and Category A of EIA Notification 2006, as amended and accordingly it does not attract the provision of Environmental Clearance.
- (iii) The proposed HPCL pipeline network with associated facilities falls in CRZ 1A, CRZ-IB & CRZ-II.
- (iv) As per CRZ notification 2011, laying of pipeline is permissible activity in CRZ area as per clause no. 4(ii)d.
- (v) CRZ report has been prepared by NCSCM, Chennai. As the CRZ report, CRZ categorization of the proposed pipelines (in meters) is as follows:

Types of Pipeline	Types of Pipeline	CRZ 1A (50m Mangroves buffer)	CRZ-IB (Intertidal Zone)	CRZ-II (Developed Zone)	Total Length of Proposed Pipelines falling within CRZ Categories
4"Air/Nitrogen	8249.12	282.15	1728.72	2274.38	4285.25
12" Benzene	8235.05	281.12	1732.17	2271.72	4285.02
20" Naphtha / Sp. Naphtha	8235.97	280.62	1777.09	2271.53	4329.24

- (vi) The total cost of the project is ₹158.37 Cr.
- (vii) Proposed pipeline will be laid in already available existing corridor on existing pipe rack. This is essentially replacement activity for removal of existing pipeline, pipe pulling in appropriate length and laying a new pipeline in place of the previous one. It will not have any mangroves plantation & will not disturb any mangroves plantation. Hence there will be no construction activity apart from pulling and pushing. All the welding activity shall be done beyond CRZ IA, IB & II.
- (viii) Proposed pipeline will not be disturbing any mangrove area as it passes through 50 meter buffer zone of Mangroves. Because of pipeline will be laid above ground without disturbing mangroves patches.
- (ix) No Forest land diversion and tree cutting is involved.
- (x) Water Consumption per Day is 10KLD only during the construction phase of pipeline and in operation phase no water required at all. It will be met through available existing facilities at Kandla Terminal.
- (xi) Waste Water Generation per day is 0.5KLD domestic waste water only temporary & limited to during construction phase of pipeline. Waste water generation will be marginal & temporary for which existing facilities at HPCL Kandla Terminal will be used for domestic as well as providing drinking facilities.
- (xii) Solid waste from the proposed activity will be mainly domestic scraps. Domestic solid wastes in the form of scraps and papers would be collected appropriately and disposed as per the prevailing Practice in the area.
- (xiii) The project does not fall within 10km of Eco-sensitive area.
- (xiv) Employment potential: About 10 individuals.

- (xv) Benefits of the project: This project is envisaged for the development of infrastructure facilities for the State & Nation and in the interest of Public at Large.
- (xvi) The Gujarat Coastal Zone Management Authority has recommended the proposal to Ministry *vide* letter No. ENV-10-2023-12-T dated 29/08/2023.

2. 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 Gujarat Coastal Zone Management Authority has recommended the proposal. Further, the Committee noted that proponent should remove the old pipeline and discard the solid wastes as per extent provision of Solid Waste Management Rules 2016 and Supervisory Control and Data Acquisition (SCADA) system should be installed for monitoring of each pipeline products. Committed also suggested that necessary approvals from Railway Department should be obtained before laying of pipeline. In response, PP has agreed the same. Accordingly, the Committee recommended proposal for CRZ Clearance with following Specific conditions other than General conditions:

- (i) All construction shall be strictly in accordance with the provisions of the CRZ Notification, 2011, as amended from time to time.
- (ii) NOC from Railway Department should be obtained before laying of pipeline.
- (iii) Old pipeline shall be removed, and waste material should be disposed of beyond the CRZ area, as per Solid Waste Management Rules, 2016 under the supervision of GCZMA within a time as may be specified by GCZMA.
- (iv) Supervisory Control and Data Acquisition (SCADA) system should be installed for monitoring of each pipeline products.
- (v) The prior approval from PESO should be obtained before commencement of the project.
- (vi) Proponent should strictly ensure all prescribed standards of CPCB / GPCB.
- (vii) Water quality of the entire Estuary / Creek should be monitored regularly to see the impact of treated effluent discharge and submit report to IRO of the Ministry.
- (viii) Topsoil excavated during construction activities shall be stored for use in horticulture/landscape development etc. within the project site.
- (ix) No groundwater shall be extracted within the CRZ area to meet the water requirements during the construction and /or operation phase of the project.
- (x) No storage reservoir for sea water shall be permitted and only pipelines conveyance system shall be installed.
- (xi) Permanent labour camp, machinery and material storage shall not be set up in the CRZ area.
- (xii) 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.
- (xiii) All the conditions stipulated by the Gujarat Coastal Zone Management Authority for CRZ clearance under CRZ Notification, 2011 *vide* its letter no

ENV-10-2023-12-T dated 29/08/2023 and commitments made by the PP before the GCZMA and EAC shall be followed in letter and spirit.

- (xiv) The Project Proponent shall comply order/direction, if any, issued by Hon'ble Court/tribunal on the project.
- (xv) All necessary clearance from the concerned authority, as may be applicable should be obtained prior to commencement of project or activity.

4. ANY OTHER ITEMS

Agenda 4.1

CRZ Clearance of (i) Malad Sewage Treatment Plant at Malad (W), adjacent to Malad Greek, Survey No.2841(Pt), Mumbai; (ii) Construction of Sewer Tunnel Phase-I from Don Bosco School Junction, Borivali (W) to Malad Waste Water Treatment Facilities at Malad and (iii) Construction of Sewer Tunnel Phase-II from Goregaon Pumping Station to Malad Waste Water Treatment Facilities at Mumbai, Maharashtra by M/s Municipal Corporation of Greater Mumbai (MCGM)

1. The project pertains to CRZ clearance dated 28/08/2017 granted by the Ministry to M/s Municipal Corporation of Greater Mumbai (MCGM) for (i) Malad Sewage Treatment Plant at Malad (W), adjacent to Malad Greek, Survey No.2841(Pt), Mumbai; (ii) Construction of Sewer Tunnel Phase-I from Don Bosco School Junction, Borivali (W) to Malad Waste Water Treatment Facilities at Malad and (iii) Construction of Sewer Tunnel Phase-II from Goregaon Pumping Station to Malad Waste Water Treatment Facilities at Mumbai, Maharashtra.

2. Specific condition No. (xii) of the said CRZ Clearance dated 28/08/2017 is as follows:

The project proponent shall communicate schedule of work to the Ministry at New Delhi so as to facilitate a site visit to be undertaken before actual cutting of the mangroves. The site inspection will be carried out by a Committee comprising of Member(s) of the Committee, Official(s) of MoEFCC and a member from Mangrove Foundation of Maharashtra, so that suggestions for additional measures that may be necessary can be evaluated during the course of project commencement.

3. In view of above, the EAC (CRZ) Sub-Committee has carried out **site inspection on 18/09/2023** along with representatives from Mangrove Foundation of Maharashtra, project consultants of M/s Tata Consulting Engineers Ltd. and M/s NCC Limited.

4. Observations and recommendation of the said site inspection is as follows:

- I. The Mangroves Conservation plan shall be revised and, re-submitted as per following points duly vetted by the Mangrove's Foundation of Maharashtra for recommendation to MoEFCC:
 - a) The Mangrove Conservation Plan shall be revised to state the vegetated and non-vegetated mud flats so as to understand whether

there is an increased in the mangrove cover or suitable habitat for mangroves are expanding. It should also be provided in the form of map.

- b) BOD figures mentioned in the Mangrove Conservation Plan shall be re-checked and supported with test results based on recent data.
- II. A summary and recommendation be added to the Mangrove Conservation Plan for regulatory bodies with clearly spelt responsibilities. The funds provided to mangrove foundation as a part of the CRZ clearance in the past should be used to implement mangrove conservation measures as suggested in the report.
 - III. The BMC shall submit MoEFCC prescribed process and design effluent standards for the WwTF in the following table form as:
 - a) Effluent discharge norms applicable on August 2017 when the initial CRZ clearance was granted for Malad WwTF.
 - b) Effluent discharge norms as per the Hon'ble NGT order dated 30/04/2019.
 - c) Effluent discharge norms as per present DBO contract terms for the Malad STP project.
 - IV. Provisions made for alternate arrangements in the situation arising due to the malfunctioning of STP shall be clearly explained.
 - V. The details of the automation and SCADA system for the real time monitoring of effluent parameters in the proposed plant at outlet of STP.
 - VI. The steps taken for recycling and reuse of the treated water.
 - VII. The feasibility of discharging the treated effluent at the downward side of the plant where broader stream width and greater assimilation capacity is available in the Malad creek to be explored.
 - VIII. Change in Orientation of the plant construction within the allocated area be explored to see if cutting of mangroves can be reduced by doing so.
- 5.** The site visit report of the Sub-Committee has been deliberated by the Member Secretary (CRZ) before the EAC and after deliberation the Committee has accepted the recommendations of the Sub-Committee and suggested PP should comply all additional measures during the course of project commencement and and compliance report submit to IRO of the Ministry.

Annexure

List of the Expert Appraisal Committee (CRZ) Members participated during Meeting held on 29/11/ 2023.

S. No.	Name of Members	Designation
1.	Shri M.S. Negi	Chairman
2.	Shri S. Jeyakrishnan	Member
3.	Prof. V. K. Jain	Member
4.	Dr. M. V. Ramana Murthy	Member
5.	Col. Prakash Tiwari	Member
6.	Dr. P. K. Dinesh Kumar	Member
7.	Dr. Niraj Sharma	Member
8.	Shri Sharandeep Singh	Member
9.	Shri Ashok Patre	Member
10.	Dr. H. Kharkwal	Member Secretary
11.	Dr. Ragavan P, Scientist B	MoEF&CC
