

MINUTES OF THE 301st MEETING OF EXPERT APPRAISAL COMMITTEE FOR PROJECTS RELATED TO COASTAL REGULATION ZONE HELD ON 6th July, 2022

The 301st meeting of the Expert Appraisal Committee for projects related to Coastal Regulation Zone was held on 6th July 2022 through Video Conferencing due to the prevalent pandemic situation. The list of Members presents in the EAC (CRZ) is at **Annexure**.

The deliberations held and the decisions taken are as under:

2.0 CONFIRMATION OF THE MINUTES OF THE LAST MEETING

The Committee having noted that the Minutes of the 299th meeting held on 14th June, 2022 are in order and confirmed the same, subject to corrections in projectas under: -

2.1 Construction of Natural Gas Pipeline from Dhamdhada Village, Dasrathpur Tehsil, Jajpur District to IOCL Paradeep, Jagatsinghpur District, Odisha State by M/s GAIL (India) Limited - CRZ Clearance - reg. [IA/OR/CRZ/241877/2021] [F.NO.11/18/2022-IA.III]

- (i). The proposal is for CRZ Clearance to the project for Construction of Natural Gas Pipeline from Dhamdhada Village, Dasrathpur Tehsil, Jajpur District to IOCL Paradeep, Jagatsinghpur District, Odisha State (under JHBDPL Project) by M/s GAIL (India) Limited.
- (ii). The project proponent is M/s GAIL (India) Limited.
- (iii). The Committee noted that the laying of pipeline is a permissible activity in CRZ IA, CRZ IB, CRZ II, CRZ III and CRZ IV, as per the CRZ Notification 2019 and also noted that project does not require environment clearance as per the EIA Notification, 2006.
- (iv). All construction shall be strictly in accordance with the provisions of CRZ Notification, 2019

The Committee noted that the corrections are factual and is as per the correspondence, EIA report submitted, presented before the Committee and as considered for recommendations. The Committee accordingly recommended for making necessary corrections in the minutes of the meeting.

3.0 CONSIDERATION OF PROPOSALS FOR CRZ CLEARANCE

Item No. 3.1

Construction of Kochi Lakshadweep (KLI) Submarine Optical Fiber Cable System at Pallipuram Village, Kochi, Taluk, Ernakulam District, Kerala by Shri Anup Kumar, Sanchar Bhawan, New Delhi-CRZ Clearance [IA/LD/CRZ/276539/2022] [F.NO.11/21/2022-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 project proponent and their consultant made a detailed presentation of salient features of the project and informed that:

- (i). The proposal is for CRZ clearance to the project for Construction of Kochi-Lakshadweep Islands Submarine Optical Fiber Cable System by M/s Universal Service Obligation Fund (USOF), Department of Telecommunications, Ministry of Communications, Government of India.
- (ii). The Union Cabinet, Chaired by the Prime Minister Shri Narendra Modi, has given its approval for Provision of Submarine Optical Fiber Cable Connectivity between Mainland (Kochi) and Lakshadweep Islands (KLI Project).
- (iii). The proposed submarine cable system connects Mainland Kochi and Lakshadweep Islands using 6 fiber pair with 200 Gbps initial traffic capacity consisting of thirteen segments connecting 11 islands Androth, Amini, Kadmat, Kiltan, Chetlat, Bitra, Bangaram, Agatti, Kavaratti, Kalpeni & Minicoy with one (1) repeated segment from Kochi to Minicoy and twelve (12) Non-repeated segments.
- (iv). The proposed submarine cable system at Lakshadweep Islands proposes Beach Manholes construction at Androth, Amini, Kadmat, Kiltan, Chetlat, Bitra, Bangaram, Agatti, Kavaratti, Kalpeni & Minicoy.
- (v). The proposed submarine cable system at Kochi proposes 2 Beach Manhole constructions in village Pallipuram, Taluka Kochi.
- (vi). The landing shall have creation of new Beach Manhole of size 3.0 m x 3.0 m X 3.0 m. This cable will be then taken underground to the cable landing station for distribution. New Cable Landing Station shall be constructed at Kiltan, Bitra, Bangaram and Kavaratti. For rest of the islands existing BSNL exchange shall be utilized by additional construction or modification in existing structures.
- (vii). BMH and CLS location along with cable approach route have been superimposed on approved IIMP as per IPZ notification 2011 on 1:4000 scale. Details of zones as per IPZ Notification 2011 have been summarized and given in subsequent slides. As per study conducted by Anna University, cable route (Kochi) falls under CRZ III (BMH), CRZ IVA, CRZ IB and CRZ IVB area.
- (viii). The details of Landing Site at Kochi as:

S.No.	Cable Components	Details
1.	BMH Co-ordinates	BMH 1: 10°08'15.90"N, 76°10'46.83"E BMH 2: 10°09'01.04"N, 76°10'31.78"E
2.	BMH Size	3.0 m x 3.0 m x 3.0 m
3.	Landing Party	BSNL
4.	Target Burial Depth (below seabed)	1 to 1.5 meters

5.	Depth of Burial (maximum water depth)	3000 meters
6.	Route Length (segment 1)	315.074 km
7.	Cable Length (segment 1)	324.903 km
8.	Route Length (segment 13)	435.791 km
9.	Cable Length (segment 13)	450.564 km
10	Cable Landing Station	Existing BSNL Exchange at Parur
11	Project Cost (Kochi) Area)	Approx. INR 9.76 Crore (For the work within CRZ

(ix). The Summary of BMH and CLS Zones as per IIMP under CRZ Notification 2011 are as under:

S.No	Island	CLS Location	CLS Zone as per IIMP 2011	BMH Location 1	BMH Location 2	BMH Zone as per IIMP 2011
1.	Agatti	10° 51'48.1N 72° 11'34.4'E	Regulated Development Zone	10°51'42.05" N 72°11'55.82" E	10°51'18.05"N 72°11'39.65"E	BMH -1 – Erosion Area and Beach Area (Turtle Breed/ Nesting Ground) BMH-2 Erosion Area
2.	Amini	11°07' 30.0"N 72° 43'08.2"E	Regulated Development Zone	11° 07'16.39"N 72°43'41.30" E	11°07'07.45" N 72°43'35.02"E	BMH -1 – Erosion Area BMH-2 – Beach (Turtle Breed/ Nesting Ground)
3.	Andrott	10°49'3.1 0"N 73°41'41. 00"E	Regulated Development Zone	10°48'45.07" N 73°41'54.20" E	NA	Conservation Zone, 20mt Setback
4.	Bitra	11°35'56. 08"N 72°11'13. 8"E	Regulated Development Zone	11°35'53.63" N 72°11'18.58" E	NA	Regulated Development Zone
5.	Bangaram	10°56'27. 0"N 72°17'19. 4"E	Conservation Area - Plantation	10°56'44.7"N 72°17'17.9"E	NA	Conservation Zone, 20mt Setback
6.	Chetlat	11°41'44. 30"N 72°42'43. 70"E	Regulated Development Zone	11°40'59.5"N 72°42'34.25" E	NA	Conservation Zone, 20mt Setback
7.	Kavaratti	10°34'10. 7"N 72°38'17. 9"E	Regulated Development Zone	10°33'28.93" N 72°38'23.03" E	10°33'14.56"N 72°37'56.49" E	BMH -1 - Conservation Zone, 20mt Setback and Beach (Turtle Breed/ Nesting Ground) BMH -2- Conservation Zone, 20mt Setback

8.	Kiltan	11°28'54.00"N 73°0'32.00"E	Conservation Zone, 20mt Setback	11°29'04.26" N 73°00'32.54"E	NA	Beach (Turtle Breed / Nesting Ground)
9.	Kadmat	11°13'41.60"N 72°46'39.50"E	Preservation Zone – Sandy Area/Patch	11°13'27.44" N 72°46'43.27" E	NA	Regulated Development Zone
10.	Kalpeni	10°4'23.20"N 73°38'34.40"E	Regulated Development Zone	10°04'00.05"N 73°38'52.57" E	NA	Regulated Development Zone
11.	Minicoy	8°16'49.10"N 73°3'13.70"E	Regulated Development Zone	08°16'44.93" N 73°03'31.31"E	NA	Conservation Zone, 20mt Setback and Erosion Area

(x). Segment and Route Length:

Segment	Route Length (Km)	Cable Length (Km)
Segment 1 Cherai (Kochi) to Andrott	315.074	324.903
Segment 2 Andrott to Amini	128.94	133.77
Segment 3 Amini to Kadamat	22.80	23.45
Segment 4 Kadamat to Kiltan	57.47	59.47
Segment 5 Kiltan to Chetlat	51.63	53.47
Segment 6 Chetlat to Bitra	79.66	82.60
Segment 7 Bitra to Bangaram	78.25	81.09
Segment 8 Bangaram to Agatti	47.17	48.48
Segment 9 Agatti to Amini	106.77	110.51
Segment 10 Agatti to Kavaratti	78.31	80.91
Segment 11 Kavaratti to Kalpeni	181.63	188.64
Segment 12 Kalpeni to Minicoy	242.71	252.25
Segment 13 Minicoy to Kochi	435.791	450.564

- (xi). The Summary of BMH and CLS Zones as per IIMP under CRZ Notification 2011 are as under:
- (xii). The BMH is the transition between the submarine cable and the land cable. The cable joining (land and submarine) will take place in BMH. The BMH is a concrete chamber situated below ground, in the coastal area. The size of the both BMH will be 3.0 m X 3.0 m x 3.0 m.
- (xiii). On the Beach, the cable is typically installed via a trench generally 2 meters deep which shall be dug by equipment such as a backhoe excavator.
- (xiv). The installation will be achieved by the cable vessel stationed offshore near its minimum working depth – a messenger line will be passed ashore, and a winch located near the BMH will pull the cable through the trench and into the manhole.

- (xv). There may be some localized, short term, disruption to recreational activities but after installation, Beachgoers are typically unaware of the cable, and it will have no effect on their activities.
- (xvi). The Kerala Coastal Zone Management Authority has recommended the proposal for CRZ clearance *vide* its Letter No. 224/A1/2022/KCZMA dated 24/03/2022 and the Lakshadweep Coastal Zone Management Authority has recommended the proposal for CRZ clearance *vide* its Letter No. 9/5/96-S and T(Vol.VII) dated 02/06/2022.

2. Deliberations in the EAC:

The Committee made detailed deliberation on the proposal and observed that the project is crucial for the development and network connectivity of Lakshadweep islands. The Committee further observed that certain BMH locations proposed are in the eroding stretches, which would ultimately lead to destruction of facilities. The Committee accordingly suggested that the BMH locations shall be shifted to 10-20 m towards the landward side. The Committee reminded the project proponent that the Lakshadweep islands consist of coral formations built upon ridge rising steeply vertical from a depth of about 30 m-400 m compared to islands in other parts of the country. The EAC also suggested a Coral Reef Monitoring Cell should be constituted alongwith earmark a budget for Marine protection measures to ensure the corals are not disturbed during the cable laying process and periodic report should be submitted to LCZMA for compliance and record. The PP shall take care on the stability of the cable and shall indigenously technology for laying cables and holding it in such area. The Committee suggested that the expertise of National Institute of Ocean Technology (NIOT) or National Institute of Oceanography (NIO) may be utilized while laying the cables in all the islands, considering their domain knowledge of the area and experience in pipeline laying in Lakshadweep islands. A dedicated team of the identified institute as stated above should accompany during laying of cables and monitor the same.

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). All construction shall be strictly in accordance with the provisions of the CRZ Notification, 2011 in the Kerala coast and as per the provisions of the IPZ Notification, 2011 in the Lakshadweep islands, as amended from time to time.
- (ii). A dedicated team of senior scientist/s of NIOT or NIO and representative of State Forest Department should accompany during laying of cables and monitor the same.
- (iii). BMH locations especially in eroding areas should be shifted 10-20m landward side to avoid risk to installations.
- (iv). Cables should be laid in such a way that no live coral are affected while laying or clamping the same on the reef ledge and reef flat.
- (v). No BMH will be constructed in the sea turtle nesting areas
- (vi). BMH and cable laying at Bangaram will be done in a way that alignment is away from large *Acropora* and other fragile coral colonies. NIOT or NIO and Chief Wildlife

Warden will help provide alignment by the way of avoiding fragile corals and sea grass areas.

- (vii). The PP should constitute a 'Coral Reef Monitoring Cell' under the Chairmanship of Chief Wildlife Warden with representatives of NIOT or NIO along with adequate budgetary provisions for protection measures to ensure the corals area, coral reef and seagrass not to be disturbed during the cable laying process. Periodic report along with underwater videography at coral environment should be submitted to LCZMA for compliance and record.
- (viii). No groundwater shall be extracted within the CRZ area to meet the water requirements during the construction and/or operation phase of the project.
- (ix). Any temporary physical infrastructure setup and excavated material, if any, during underground electrical cabling shall not be dumped in water bodies or adjacent areas and the site shall be restored to its original condition after completion of construction of work.
- (x). Permanent labour camp, machinery and material storage shall not be set up in the CRZ area.
- (xi). All the conditions stipulated by the Kerala Coastal Zone Management Authority vide letter 224/A1/2022/KCZMA dated 24/03/2022 and Lakshadweep Coastal Zone Management Authority vide letter No. 9/5/96-S and T (Vol.VII) dated 02/06/2022 and commitments made by the PP before the State and UT CZMA's shall be followed in letter and spirit.
- (xii). All necessary clearance from the concerned authority, as may be applicable should be obtained prior to commencement of project or activity.

Item No. 3.2

Proposed laying of submarine cable system spanning 8100 km for the proposed Myanmar/Malaysia India Singapore Transit (MIST) Submarine Cable System landing at Near Block AP, Foreshore Estate Promenade Road, MRC Nagar, Chennai by M/s NTT Communications India Network Services Pvt Ltd., Gurgaon-CRZ Clearance [IA/TN/CRZ/278226/2022] F. No.11/22/2022-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 project proponent and their consultant made a detailed presentation of salient features of the project and informed that:

- (i). The proposal is for CRZ clearance to the project for laying of submarine cable system spanning 8100 km for the proposed Myanmar/Malaysia India Singapore Transit (MIST) Submarine Cable System landing at Near Block AP, Foreshore

- Estate Promenade Road, MRC Nagar, Chennai, Tamil Nadu by M/s NTT Communications India Network Services Pvt Ltd.
- (ii). The Myanmar/Malaysia India Singapore Transit (MIST) is an international submarine cable communication network. Cable will traverse undersea to connect India with other Asian countries i.e., Myanmar, Thailand, Malaysia and Singapore. Cable system will have a total length of 8,100 Km. Out of total 523.50 Km. length in CRZ up to 12 nautical miles from seaward side to LTL and LTL to CRZ area limit landward side.
 - (iii). MIST cable system will provide secure reliable, robust, and affordable telecom facilities in Asia. The main trunk route is from Tuas (Singapore) to Mumbai (India).
 - (iv). Cable at Chennai location will land at Santhome beach and will terminate in the proposed BMH to be constructed near Block AP, Foreshore Estate Promenade Road MRC Nagar Chennai.
 - (v). The geographical coordinates of the proposed BMH are 13°1'23.40"N and 80°16'42.60"E. The Cable from BMH will then be taken to cable landing station for distribution. Cable landing station will be constructed outside the CRZ area. The dimensions of the proposed BMH are 3x3x4 m (LX BX D).
 - (vi). Cable landing points at sea edge, BMH and cable route from landing point to BMH and from BMH towards cable landing station till 500 m from HTL will fall under CRZ area as defined under the CRZ Notification, 2011 as amended. As per study conducted by Anna University, cable route falls under CRZ II, CRZ I-A, CRZ IB and CRZ IVA area.
 - (vii). The BMH Location is 13°1'23.40"N 80°16'42.60"E Near Block AP, Foreshore Estate Promenade Road MRC Nagar Chennai.
 - (viii). The BMH size is 3m x 3m x 4m, Target Burial Depth (below seabed) is 1.5 meters, Driver Burial Depth is 150 meters and submarine Cable Length (segment S8) is 523.50 Km.
 - (ix). The Cable Landing Station (CLS) is 13°1'12.1"N 80°16'08.7"E. Plot no. 1 in L.A. No. 15/79, South Beach road, Block 94, Mylapore village, Mylapore Taluk, Chennai Area: 5000 Sq.ft Usable Area (Outside CRZ Area)
 - (x). The total Cost of Project is ₹23.80 Crores.
 - (xi). The Tamil Nadu Coastal Zone Management Authority has recommended the proposal for CRZ clearance *vide* its Letter No. 8130/EC.3/2022-1 dated 30/05/2022.

2. Deliberations in the EAC:

The Committee made detailed deliberation on the proposal. The Committee observed that the project is important for network connectivity of India with other parts of the world. It was noted that out of total laying of submarine cable system spanning 8100 Km. only 523.50 Km. length falls in CRZ up to 12 nautical miles from seaward side to LTL and LTL to CRZ area limit falls landward side. The Committee also suggested that BMH locations shall avoid the eroding areas, which would ultimately lead to destruction of facilities. The Committee also suggested that considering increasing number of international cable landing in the Chennai coast, Government shall make appropriate corridor for laying of such cables in the coastal area for better management and to avoid conflict with other stakeholders.

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). All construction shall be strictly in accordance with the provisions of the CRZ Notification, 2011, as amended from time to time.
- (ii). No groundwater shall be extracted within the CRZ area to meet the water requirements during the construction and/or operation phase of the project.
- (iii). Any temporary physical infrastructure setup and excavated material, if any, during underground electrical cabling shall not be dumped in water bodies or adjacent areas and the site shall be restored to its original condition after completion of construction of work.
- (iv). Permanent labour camp, machinery and material storage shall not be set up in the CRZ area.
- (v). All the conditions stipulated by the Tamil Nadu Coastal Zone Management Authority for CRZ clearance *vide* its letter No. 8130/EC.3/2022-1 dated 30/05/2022, and commitments made by the PP before the CZMA and EAC shall be followed in letter and spirit.
- (vi). All necessary clearance from the concerned authority, as may be applicable should be obtained prior to commencement of project or activity.

Item No. 3.3

Proposed Myanmar/Malaysia India Singapore Transit (MIST) Submarine Cable System at CTS No.1047, Versova, Andheri (W), Mumbai by M/s NTT Communications India Network Services Pvt Ltd.-CRZ Clearance [I/MH/CRZ/278030/2022] F, No.11/27/2022-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 project proponent and their consultant made a detailed presentation of salient features of the project and informed that:

- (i). The proposal is for CRZ clearance to the project for Myanmar / Malaysia India Singapore Transit (MIST) Submarine Cable System at CTS No.1047, Versova, Andheri (W), Mumbai by M/s NTT Communications India Network Services Pvt Ltd.
- (ii). The Myanmar / Malaysia India Singapore Transit (MIST) is an international submarine cable communication network. Cable will traverse undersea to connect India with other Asian countries i.e., Myanmar, Thailand, Malaysia and Singapore. Cable system will have a total length of 8,100 Km.
- (iii). Out of total 8,100 Km. length, 202.06 Km.lengths in CRZ area up to 12 nautical miles from seaward side to LTL and LTL to CRZ area limit landward side.

- (iv). MIST cable system will provide secure reliable, robust, and affordable telecom facilities in Asia. The main trunk route is from Tuas (Singapore) to Mumbai (India).
- (v). Cable in Mumbai will land at Versova Beach and will be housed in beach manhole proposed to be located at Versova Beach, Bharat Nager, Versova, Andheri West Mumbai.
- (vi). The geographical coordinates of the proposed BMH location are 19° 07'49.08"N; 72°48'47.52"E. The dimensions of the proposed BMH are 3 x 3 x 4 m (LX BX D).
- (vii). Cable landing point at beach, BMH and cable route from landing point to BMH and from BMH towards cable landing station till 500 m from HTL falls under CRZ area as defined under the CRZ Notification, 2011 as amended. As per study conducted by Anna University, cable route falls under CRZ IB and CRZ IVA area.
- (viii). The BMH location is 19° 07'49.08"N; 72°48'47.52"E Versova Beach, Bharat Nager, Versova, Andheri West Mumbai.
- (ix). The BMH size is 3m x 3m x 4m, Target Burial Depth (below seabed) 1.5 meters, Diver Burial Length 500 meters and Submarine Cable Length (segment S8) 202.06 Km.
- (x). The total cost of the project is ₹32.1 Crores.
- (xi). The Maharashtra Coastal Zone Management Authority has recommended the proposal for CRZ clearance *vide* its Letter No. CRZ 2021/CR/204/TC 4 dated 10/06/2022.

2. Deliberations in the EAC:

It was noted by the EAC that the out of total laying of submarine cable system spanning 8100 km only 202.06 Km. length falls in CRZ up to 12 nautical miles from seaward side to LTL and LTL to CRZ area limit falls in landward side. The Committee made a detailed deliberation on the proposal. The Committee observed that the project is important for network connectivity of India with other parts of the world. The Committee suggested that BMH locations shall avoid the eroding areas, which would ultimately lead to destruction of facilities. The Committee was informed that the CRZ Notification, 2019 is applicable in the Mumbai Suburban district. The project proponent informed that the process for CRZ clearance was started during the year 2020, CRZ map was prepared by the authorized agency during March, 2021 and proposal was submitted with the Maharashtra CZMA in June, 2021. As reconstitution of MCZMA and finalization of CZMP, 2019 took time; the appraisal of project was delayed. The Committee opined that as per the guidelines issued by the Ministry for consideration of such projects in the interim period the instant project can be considered. The Committee cautioned the PP that the cable laying and associated facilities shall not hinder the fishing activity in the area and necessary precautions and awareness shall be made.

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). All construction shall be strictly in accordance with the provisions of the CRZ Notification, 2011, as amended from time to time.
- (ii). Cable laying and associated facilities shall not hinder the fishing activity in the area and necessary precautions and awareness shall be carried out.

- (iii). No groundwater shall be extracted within the CRZ area to meet the water requirements during the construction and/or operation phase of the project.
- (iv). Any temporary physical infrastructure setup and excavated material, if any, during underground electrical cabling shall not be dumped in water bodies or adjacent areas and the site shall be restored to its original condition after completion of construction of work.
- (v). Permanent labour camp, machinery and material storage shall not be set up in the CRZ area.
- (vi). All the conditions stipulated by the Maharashtra Coastal Zone Management Authority for CRZ clearance *vide* its letter No. CRZ 2021/CR/204/TC 4 dated 10/06/2022, and commitments made by the PP before the CZMA and EAC shall be followed in letter and spirit.
- (vii). All necessary clearance from the concerned authority, as may be applicable should be obtained prior to commencement of project or activity.

Item No. 3.4

Proposed pipeline from JNPT to Uran Terminal District Raigad by Bharat Petroleum Corporation Ltd. (BPCL)-CRZ Clearance [IA/MH/CRZ/279245/2022][F. No. 11/26/2022-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 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 project proponent and their consultant made a detailed presentation of salient features of the project and documents submitted as:
 - (i). The proposal is for CRZ clearance to the project for Laying pipeline from JNPT to Uran Terminal, District Raigad, Maharashtra by M/s Bharat Petroleum Corporation Ltd (BPCL).
 - (ii). The salient features of pipeline are: the size of Pipeline is 20 Inch Dia, Length of pipeline 12.5 Km, Rated capacity, m³/hr 1280 (~ 750TPH), Design Pressure 27 Kg/cm²g, Material of construction of pipeline ASTM 671 GR. 60 Cl 32, LTCS (Low Temperature Carbon Steel), Operating Pressure, kg/cm² g 6.0 – 7.5, Design Temperature°C (-)45 / +55, Operating Temperature°C (-)43 to (-)2, Density at op. condition, kg/m³ 580 – 608, Viscosity at op. condition, cSt 0.30 – 0.50, Insulation Details Material : 175 MM PIR (Poly Iso-Cyanurate Rigid) and 50 MM Foam Glass Total insulation Thickness : 225 MM, Design Codes ASME B31.4/ API 1104 / OISD 214, Leak Detection system OFC based Leak detection system using Ultrasonic Flow Meter, Pressure Transmitter, Temperature Transmitter and Pipeline Corrosion Allowance 0.5 mm
 - (iii). The project coordinates of JNPT liquid cargo jetty is 18° 56' 41.745" N, 72° 56' 17.828" E and BPCL LPG Plant is 18° 52' 41.101" N, 72° 58' 39.488" E.

- (iv). The proposed pipeline is not passing through any of the Eco Sensitive Areas.
- (v). The total project length in non-CRZ area is 2.98377 km and CRZ area is 9.39262 km and details as:
CRZ - IA 2.0155, CRZ - IB 0.81109, CRZ - II 5.9787 and CRZ - IVA 0.58733.
- (vi). Daily water demand Construction Phase Source: Road Tankers Construction: 15 KLD ; Domestic: 1.65 KLD Operation Phase Source: CIDCO / JNPT water supply system Water demand: 0.3 KLD
- (vii). Power Supply Construction Phase DG set of 32 to 65 kV will be used as per requirement
- (viii). Municipal waste (domestic and or commercial wastes) Construction phase : Quantity : 22 kg/day Operation Phase : Quantity : 4 kg/day Disposal/treatment method- on site collection and handover to authorized vendor
- (ix). Employment Construction Phase: 55 Nos. Operation Phase: 10 Nos.
- (x). The total cost of project is ₹ 171.57 crore and EMP costs Construction Phase: ₹25 Lakhs and Operation Phase: ₹ 14 Lakhs
- (xi). The Maharashtra Coastal Zone Management Authority has recommended the proposal for CRZ clearance *vide* its Letter No. CRZ 2021/CR/181/TC 4 dated 01/06/2022.

2. Deliberations in the EAC:

The Committee made detailed deliberation on the proposal and suggested that the risk assessment and mitigation plan shall be effectively executed. The PP informed that the pipeline shall be passing through 50m mangrove buffer area, however, no mangrove cutting is envisaged in the project.

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). All construction shall be strictly in accordance with the provisions of CRZ Notification, 2011 and as amended from time to time.
- (ii). No mangrove cutting is permitted in the project, as promised by the PP
- (iii). Prior approval of the Mangrove cell and High Court of Mumbai shall be obtained in view of the direction issued in connection with the cutting of Mangrove trees, if any, and their conservation before execution of the project, as applicable.
- (iv). The pipeline shall be laid by Horizontal Directional Drilling (HDD) method at the crossing of water body river/creek and mangrove areas.
- (v). Proponent must strictly adhere to OISD/PESO guidelines and latest safety features to be included in maintenance and operations of the pipeline.
- (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). The project proponent shall ensure the natural flow of the Creek water in the project site.
- (viii). Permanent labour camp, machinery and material storage shall not be set up in the CRZ area.

- (ix). Excavated material during the construction shall not be dumped in in the CRZ area.
- (x). The site shall be restored to its near original condition after completion of construction of work.
- (xi). The recommendation made by the Maharashtra Coastal Zone Management Authority vide letter No. CRZ 2021/CR/181/TC 4 dated 01/06/2022, shall be implemented in letter and spirit.
- (xii). All necessary clearance from the concerned Authority, as may be applicable should be obtained prior to commencement of project or activity.

RECONSIDERATION OF PROPOSALS

Item No. 3.5

Proposal for out fitting jetty and floating dry dock with allied infrastructure along path finder inlet creek of Gulf of Kachchh lies between the two islands, KalubharTapu and Narara Bet near DPT Jetty, Vadinar, District DevbhumiDwarka, Gujarat by M/s Deendayal Port Trust-CRZ Clearance [IA/GJ/CRZ/253940/2022] [F.NO.11-11/2022-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 the EAC in its meeting held on 23rd March, 2022 and 26th May, 2022. The observations of the EAC and response submitted by the PP are as under:-

S. No.	Observations of the EAC	Response of the PP
1	Safety and risk assessment along with modelling studies.	The safety and Risk assessment report along with the modelling studies submitted.
2	Construction methodology and safe guards for environment.	Detailed construction methodology and safe guards for environment submitted and presented.
3	Details of other reception facilities in the vicinity of the proposed project	Proposed project site is located at path finder inlet creek, of Gulf of Kachchh lies between the two islands, Kalubhartapu and Narara bet near DPT jetty, Vadinar, DevbhumiDwarka District, Gujarat State. There are two reception facilities for disposal of hazardous waste in the vicinity of the proposed project. Details of the same and its distance from the

		project site are submitted.
4	Solid waste management plan	The quantity of solid waste generation & its disposal method is submitted.
5	Hazardous waste management plan	The quantity of hazardous waste generation per panamax & its disposal method is given.
6	Oil / Ballast / waste water management plan.	<p>No ballast water is anticipated in the dry dock premises. Any ship docking for repair activity should remove all their ballast water before entering in the dry Dock. It is prerequisite to have a minimum weight of the ship for the up-liftment. Hence, no ballast water will be on the dry dock premises.</p> <p>Very limited quantity Bilge water is expected in the dry dock, as the most of the ships will be occupied with oil separator other bilge treatment facility on board the ship itself.</p> <p>Whatever bilge water received at shipyard premises shall be treated through the bilge water treatment system and mixed with the other waste stream for further treatment at proposed ETP.</p> <p>Deendayal Port has decided to install one 7 KLD fluidized media reactor, as Effluent treatment plant to treat waste water generated from the dry dock & treated waste water shall be utilized after mixing with treated water from Existing STP for gardening, plantation, floor washing (yard operation) and as a storage in fire main tank.</p>
7	Transportation Management	<p>Transportation will be required for following activities:</p> <p>For the transportation of hazardous waste from Jetty to Interim facility. This Haz. Waste will be transferred from Interim facility to Haz. Waste disposal site periodically.</p> <p>For transportation of Solid waste and domestic waste water from Jetty to solid waste storage and STP at Vadinar</p>

		Colony.
8	Compliance / commitment of GCZMA recommendations	Gujarat Coastal Zone Management Authority (GCZMA) give CRZ recommendation vide Ref. No. ENV-10-2021-122-T dated 11/02/2022. Compliance of the GCZMA recommendation is submitted.
9	Commitment that non-vegetated mud flat area shall not be used for mangrove plantation	Non-vegetated mud flat area shall not be used for mangrove plantation. An undertaking in this regard submitted.

1. The project proponent and their consultant made a detailed presentation on the project and informed that:

- (i). The proposal is for CRZ clearance to the project for out fitting jetty and floating dry dock with allied infrastructure along path finder inlet creek of Gulf of Kachchh, between Kalubhar Tapu and Narara Bet islands, near DPT Jetty, Vadinar, District Devbhumi Dwarka, Gujarat by M/s Deendayal Port Trust.
- (ii). The out fitting Jetty will be 500 m in length 12 m in width, approach Trestle from the existing structure will be 120 m in length and 10 m width. The proposed Outfitting jetty will have 300 Nos of Piles, with 1.0 meter diameter each. Spacing between piles will be 5 meter both transversely and longitudinally. Approach Trestles will have 48 numbers of pile of 1.0 meter diameter each. Spacing between piles will be 5 meter transversely and 5 meter longitudinally.

Structure	Zone	Length in m	Width in m	Number of piles	Foot print in m ²
Outfitting Jetty	Subtidal	500	12	300 of 1 m diameter	235.5
Trestle	Subtidal	120	10	48 of 1 m diameter	37.68
Total Foot print Area					273.2

- (iii). The proposed activity is in the CRZ-IV Area. Floating dry dock and outfitting jetty shall be located beyond the Eco sensitive zone of Marine National Park and Sanctuary.
- (iv). The Gujarat Coastal Zone Management Authority (GCZMA) has recommended the proposal for CRZ clearance vide letter No. ENV-10-2021-122-T dated 11/02/2022.

2. **Deliberations in the EAC:**

The EAC deliberated on the proposal. The Committee noted that the Safety and risk assessment along with modelling studies has been carried out without considering adjacent oil terminals like that of M/s Nayara Energy and Others. The Committee observed

that Safety and risk along with modelling studies has to be carried out for effective assessment and management.

The Committee after detailed deliberation, desired for additional information/inputs in respect of the following:

- (i). Detailed safety and risk assessment along with modelling studies for all the products used in nearby installations Modelling shall include total load and vapour dispersal factor.
- (ii). Details of all the products handled by nearby installations.
- (iii). Mitigation plan based on the safety and risk assessment.
- (iv). Considering the location of the project site adjacent to Ecologically Sensitive Areas and other oil terminal facilities, it was desired to have site visit by a Sub-Committee.

The proposal was accordingly DEFERRED for additional information.

4. Any other item with the permission of the Chair.

The site visit report of the Expert Sub-Committee from 7th and 8th April 2022 regarding “Comprehensive Shoreline Protection Management Plan for Tamil Nadu Coast” was placed before the EAC. The EAC suggested the site visit report may be forwarded to all EAC Members. Based on the inputs / comments received from Members the site visit report may be placed before EAC for further consideration.

The meeting ended with a Vote of Thanks to the Chair.

List of the Expert Appraisal Committee (CRZ) Members participated during Video Conferencing (VC) Meeting held on 6th July 2022.

S. No.	Name of Members	Designation
1.	Dr. Deepak Arun Apte	Chairman
2.	Shri Manmohan Singh Negi	Member
3.	Shri Sham Wagh	Member
4.	Prof. Mukesh Khare	Member
5.	Shri S. Jeyakrishnan	Member
6.	Dr. ManoranjanHota	Member
7.	Dr. M.V. Ramana Murthy	Member
8.	Dr. J. Chandra Babu	Member
9.	Prof V.K.Jain	Member
10.	Shri. R.P.S Verma	Member
11.	Dr. Niraj Sharma	Member
12.	Dr. H. Kharkwal	Member Secretary
13.	Dr. Nobi E. P	MoEFCC Scientist 'B'
