

## **MINUTES OF THE 242<sup>nd</sup> MEETING OF THE EXPERT APPRAISAL COMMITTEE FOR PROJECTS RELATED TO COASTAL REGULATION ZONE HELD ON 27<sup>th</sup> AUGUST, 2020**

The 242<sup>nd</sup> meeting of the Expert Appraisal Committee for projects related to Coastal Regulation Zone was held on 27.08.2020 through video conferencing due to prevalent pandemic situation. The members present are:

1.	Dr. Deepak Arun Apte	-	Chairman
2.	Shri S. Jeyakrishnan	-	Member
3.	Shri Manmohan Singh Negi	-	Member
4.	Shri Sham Wagh	-	Member
5.	Prof. Mukesh Khare	-	Member
6.	Prof. Ashok Kumar Pachauri	-	Member
7.	Dr. V. K. Jain	-	Member
8.	Dr. Manoranjan Hota	-	Member
9.	Dr. M.V. Ramana Murthy	-	Member
10.	Dr. H. Kharkwal	-	Member Secretary

Dr. Anuradha Shukla, Shri Rajesh Debroy, Ms Bindhu Manghat and Shri Sanjay Singh were absent.

In attendance: Shri. W. Bharat Singh, Ex- Member Secretary, EAC(CRZ), Dr. Saranya. P, Joint Director, MoEFCC and Dr. Bhawana Kapkoti Negi, Technical Officer, MoEFCC. 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 240<sup>th</sup> meeting are in order, 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 OF PROPOSALS:**

#### **FRESH PROPOSALS**

#### **3.1 Proposal for establishment of Walk in Aviary with exotic Birds at Sy.No.70 & 71 of Village Jampore, Jampore Reserved Forest Area, Moti Daman by Government of Daman & Diu [IA/DD/CRZ/161760/2020] [F.No. 11-37/2020-IA.III]- CRZ Clearance - reg.**

The proposal of Government of Daman & Diu is for establishment of Walk in Aviary for exotic birds at Sy.No.70 & 71 of Village Jampore, Jampore Reserved Forest Area, Moti Daman. The project proponent made a presentation and provided the following information:

- (i) The proposed project involves establishment of Walk in Aviary for exotic birds in an area of 2.43 ha of forest land by the Department of Environment and Forest, Daman. The Aviary will have 10 exhibits with natural enrichment to exhibit exotic birds of 35-40 species with a population of around 200. There is a separate area for water birds with water cascade facility. Nearly 50% of the project area will be with greenery.

- (ii) The proposed project falls in CRZ-IA.
- (iii) It involves setting up of single floor steel mesh enclosed structures on steel poles as columns with a built up area of 18155 sq.m and having maximum height of (up to top roof level at 8 to 9m) covered with stainless steel ferrules friction pressed blackened (Fars) wire mesh.
- (iv) The project includes facilities like *holding pen, breeding pen, and green space inside the exhibit area* keeping the requirement of birds for food, cover and shelter will be developed as part of the aviary. Amenities for visitors such as *visitor centre, information kiosks, guided walk, wheelchair*, and others have been proposed as part of the walk in Aviary.
- (v) The project includes Exhibits-10, Exotic birds representing different continents (35 to 40 species) with the population of around 200. The walk-in visitors will be 1000-1500 person/day during peak and 200-300 person/day on average.
- (vi) The permissible FSI as per DCR is 1.1 which corresponds to 26740 sqm.
- (vii) The peak water requirement during construction phase would be 50 KLD and during operation phase will be 40 KLD, which will be met from PWD Water Supply Department, Daman through pipeline/tanker. Also the water requirement for irrigation will be met by reuse of treated sewage from STP.
- (viii) Details of water and wastewater:

S. No.	Particulars	Fresh	Recycled	Total	Wastewater Generation
1.	Domestic	20	-	20	10
2.	Gardening & Irrigation	6	25	31	-
3.	Aviary Operations	24	-	24	15
<b>Total</b>		<b>50</b>	<b>25</b>	<b>75</b>	<b>25</b>
<ul style="list-style-type: none"> <li>• <b>All Figures are in KLD.</b></li> <li>• <b>Criteria for Water Demand Calculation:</b> <ul style="list-style-type: none"> <li>○ Domestic for 1000 Person/Visitor: Potable @ 10 LPCD, Flushing @ 10 LPCD,</li> <li>○ Gardening in 1500 m<sup>2</sup> and Irrigation @ 25 KLD (for Afforestation Area)</li> <li>○ Aviary Operations for 10 Exhibits: @ 2.4 KLD/ Exhibit.</li> </ul> </li> <li>• <b>25 KLD sewage will be treated in STP and the treated sewage @ 25 KLD will be reused for irrigation.</b></li> </ul>					

- (ix) Solid waste management:

Particulars	Basis	Quantity of waste	Management
Excrement & Debris of Aviary	@ 1 kg/day/Exhibit (10 Nos. exhibits)	10 kg/day	➤ Collected, Stored and Sent to Zero Waste Management Facility at Dunetha, Daman
STP Sludge	@ 0.33 kg/kg BOD removed	8-10kg/day	
Domestic waste by Visitors	@ 0.1 kg/person/day (Visitors-1000)	100 kg/day	➤ Collected, Stored and Sent to Zero Waste Management Facility at Dunetha, Daman

- (x) The proposed Walk-In Aviary will require 50-100 kVA power supply depending up on final electrical installations sourced from Electricity Department, Daman. DG set of capacity of 50-100 kVA will be installed to meet power requirement during failure of supply.

- (xi) For conservation of electricity, LED Lights and Electrical Equipment/Appliances with EER Rating more than 3 Stars will be used for proposed “Walk-In Aviary”. This power saving approach will result in more than 30% electricity compared to conventional equipment/appliances.
- (xii) Few patches of sparse mangrove and many area of dense mangrove are also found in the study region
- (xiii) About 3900 numbers of trees shall be required to be planted towards Compensatory Afforestation at the cost of User Agency and shall be maintained up to 10 years. The Compensatory afforestation shall be taken up by the Department as per prescribed norms in 2.43 ha. of govt. land bearing survey No.:30A, 36, 38 and 62 of village Zari, Moti Daman, identified for compensatory afforestation in lieu of diversion of 2.43 ha. of forest land on approval of the proposal and on receipt of the fund under Compensatory Afforestation.
- (xiv) The employment potential of the project is 20-25 persons during operational phase.
- (xv) The total cost of proposed project is Rs. 12.01 crores
- (xvi) Daman & Diu Coastal Zone Management Authority (DDCZMA) has recommended the above proposal for clearance vide their letter No. DCF/DMN/Walk in Aviary/731-Part-1/2019-20/64, dated 9<sup>th</sup> July, 2020.

2. The Committee noted that the Stage-I Forest clearance (In Principle Approval) was accorded by this Ministry vide letter No. 6-DNB055/2019-BHO/219, dated 14<sup>th</sup> February, 2020. The Committee also took note that the proposed project involves setting up septic Tank & STP of 25 KLD capacity for treatment & disposal shall be made. The Committee was appraised by the representatives of the Ministry that the setting up STP is not a permissible activity in CRZ-IA as per the extant CRZ regulations except in case of Greater Mumbai. The Committee therefore decided that the STP shall be set up outside the CRZ-IA area, if required and necessary permissions in this regard shall be obtained from the concerned authority.

3. The project proponent further reiterated that the proposal only involves construction of single floor with built up area of 18155 sqm having maximum height of Civil Structures (up to top roof level): 8 to 9m covered with Stainless steel ferrules friction pressed blackened (Fars) wire mesh. The Committee desired that only poles/piles with steel wire mess and steel fence of 40 m height shall be permitted in CRZ-IA area and no concrete structures shall be erected.

4. Based on the deliberations held the Committee recommended the project for CRZ clearance subject to the following conditions:

- (i) The clearance is subject to obtaining prior Stage II Forest Clearance from the Competent Authority.
- (ii) The walk in aviary shall be restricted to a maximum height of Civil Structures (up to top roof level): 8 to 9m covered with Stainless steel ferrules friction pressed blackened (Fars) wire mesh. No concrete structures shall be erected in the CRZ-IA area.
- (iii) Sewage treatment plant proposed to be a part of project shall be strictly set up outside the CRZ-IA area and necessary permission for setting up of STP in CRZ areas other than CRZ-IA shall be obtained from the Competent Authority.
- (iv) A minimum of ten times the number of trees felled (non-mangrove trees) shall be replanted.
- (v) Three times the number of mangroves destroyed or cut during the construction process shall be replanted as compensatory mangrove afforestation in consultation with the Forest Department.

- (vi) No groundwater shall be extracted to meet with the water requirements during the construction and/or operation phase of the project
- (vii) No excavated material during the construction shall be dumped in water bodies or adjacent areas. The site shall be restored to its near original condition after completion of construction.
- (viii) Temporary structures raised for construction activity in the CRZ areas shall be removed within one month of completion of construction activity.
- (ix) As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1<sup>st</sup> May, 2018, and proposed by the project proponent, an amount of Rs.24 lakhs i.e @2% of project Cost shall be earmarked under Corporate Environment Responsibility (CER) for the activities such as support to local government, schools, sanitation and health including construction of public toilets in the surrounding villages, as per need based assessment carried out. The activities proposed under CER shall be restricted to the affected area around the project. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.

**3.2 Proposed Development of 100 MLD Desalination Plant at Rahiyad, Village. Dahej, District Bharuch by M/s Gujarat Industrial Development Corporation (GIDC) - CRZ Clearance - reg. [IA/GJ/CRZ/160230/2020][F.No.11-39/2020-IA.III]**

The proposal of M/s Gujarat Industrial Development Corporation (GIDC) Development of 100 MLD Desalination Plant at Rahiyad, Village. Dahej, District Bharuch. The project proponent made a presentation and provided the following information:

- (i) The proposal involves setting up of 100 MLD Desalination Plant at Rahiyad, Dahej, Bharuch, Gujarat. The plant is designed with 5 SWRO Filtration and 4 BWRO trains.
- (ii) The seawater transfer pumps will deliver the cleaned seawater to the pre-treatment system. (4W+2S) Vertical Turbine pump sets are installed sized to pump the total required feed flow to the desalination plant through GRP pipeline. The seawater supply system includes stop logs & Guide frames; travelling screen; screen wash pumps; seawater transfer pumps; and gas chlorination system.
- (iii) The allocated land by GIDC is 24.73 hectares which is presently a barren land.
- (iv) The capacity of desalination plant will be 100 MLD and Intake volume of 331 MLD and brine generation of 231 MLD. The ambient salinity will be at 25 PPT.
- (v) Length of pipeline at intake channel will be 440 m from LFP and at outfall length will be 950 m from LFP. Depth of outfall point 1.0 m (LLTL) & 9.3 m (HHTL) and intake point (2.0 m) LLTL & 10.3 m (HHTL). Depth 11.3 m above CD and width of excavation will be 20 m.
- (vi) Project site is a barren land and surrounded by buildup area, industries, land with and without scrubs & mudflats.
- (vii) Project site falls in CRZ IB, CRZ III and CRZ IV B per approved CZMP and CRZ Notification 2011.
- (viii) Details of marine facilities location are as:

<b>Location</b>	<b>Geographical Coordinates</b>	
<b>Intake</b>	<b>Latitude, N</b>	<b>Longitude, E</b>
LFP – Intake Channel	21°41'08.533"	72°40'29.999"
Intake channel entrance at offshore	21°40'55.441"	72°40'23.636"
<b>Outfall</b>		

LFP – Outfall	21°41'09.316"	72°40'04.771"
Outfall diffuser	21°40'39.891"	72°39'55.055"

- (ix) The area of land requirement used for constructing 100 MLD SWRO plant are as follows:

<b>S.No.</b>	<b>Facilities</b>	<b>Total area (sqm)</b>
1	Area of SWRO	60873.9
2	Area of reservoir	56971.5
3	Area of settled water storage tank and pump house	472.6
4	Area of intake arrangement (sea water intake basin and grit chamber)	5256.5
Total area		123574.5

- (x) The total water requirement during construction phase will be 25 KLD which will be sourced from GIDC.
- (xi) Total Power requirement is 24.5 MVA for the desalination plant and will be sourced from Dakshin Gujarat Vij Company Ltd, Gujarat Electricity Board.
- (xii) The employment potential of the project is 200 persons including both skilled and unskilled during construction phase (max. 360 Nos for 4-5 months) and about 40 persons during operation phase.
- (xiii) The total cost of proposed pipeline project is Rs. 881.19crores.
- (xiv) Gujarat Coastal Zone Management Authority (GCZMA) has recommended the above proposal for clearance vide its letter No. ENV-10-2020-40-T dated 27.07.2020.

2. The Committee observed that a channel type of seawater intake with stone embankment is proposed to be constructed to draw 331 MLD, which is not only desirable but also not in conformity with the provisions of the extant CRZ regulations. The Committee also took note that the channel type of seawater intake of 20 m wide involving trenching of 2 lakh m<sup>3</sup> of sediments and periodic desiltation from the intake channel of 75000 m<sup>3</sup>/year may not be permitted in the CRZ area as per extant norms of the CRZ regulations. *The Committee therefore desired that a revised proposal with an intake pipeline system instead of intake channel and duly endorsed by the State Coastal Zone Management Authority, shall be submitted to this Ministry for further consideration.*

3. The Committee also suggested the project proponent to explore the feasibility of supplying brine water (with necessary treatment so that it is suitable for bird health as well as for salt) to authorized saltpan agencies instead of discharging into sea or arrange to facilitate setting up of a salt manufacturing unit in the area. The project proponent shall explore feasibility of setting up of salt pans for migratory birds as they use the salt pans as habitats for feeding and roosting.

4. Based on the deliberations held, the Committee decided that the proponent shall submit the following information/documents:

- (i) The project proponent shall submit a revised proposal with an intake pipeline system instead of intake channel and duly endorsed by the State Coastal Zone Management Authority.
- (ii) The project proponent shall explore the feasibility of supplying brine water (with necessary treatment so that it is suitable for bird health as well as for salt) to authorized saltpan agencies instead of discharging into sea or arrange to facilitate setting up of a

salt manufacturing unit in the area. The project proponent shall explore feasibility of setting up of salt pans for migratory birds as they use the salt pans as habitats for feeding and roosting.

Accordingly, the proposal was deferred for reconsideration at a later stage once the above information/documents are submitted to this Ministry.

## RECONSIDERATION

### 3.3 Proposed laying of treated wastewater disposal pipeline for 5 MLD capacity starting from GFL premises up to Deep Sea (offshore + onshore) of Dahej Coast Dahej, Gujarat by M/s Gujarat Fluorochemicals Ltd [IA/GJ/CRZ/152332/2020] [F.No. 11-22/2020-IA.III] - CRZ Clearance-reg

The proposal of M/s Gujarat Fluorochemicals Ltd. (M/s GFL) is for laying of treated wastewater disposal pipeline for 5 MLD capacity originating from the ETP to deep sea (offshore + onshore) off Dahej Coast, in Gujarat. The project proponent made a presentation and provided the following information:

- (i) The proposal involves laying of pipeline (onshore and offshore) for disposal of treated wastewater for 5 MLD capacity originating from the ETP and starting from the guard pond in GFL premises into the deep sea.
- (ii) The capacity of treated effluent is 3.2 MLD and does not contain any toxic chemicals.
- (iii) The total length of pipeline will be 12.0 km, out of which 9.0 km will be onshore portion and 3.0 km offshore submarine pipeline (intertidal and sub tidal zones).
- (iv) The project components with their location and length of pipeline alignment are highlighted in the table below:

Sl. No.	Description	Design Capacity	Starting to End point Location	Length of Pipeline	Remarks
1	Pumping Station	5 MLD	Pumping arrangements will be provided from the Guard Ponds in GFL premises located at Lat: 21°41'25.66"N Long: 72°35'36.34"E	-	Present pumping arrangements will be continued. New pumps with sufficient head and capacity will be installed.
2	Segment 1: Onshore Pipeline – 315 mm OD – PN 10 PE 100, IS 14333	5 MLD	From the guard pond (Pumping Station) at GFL premises to Landfall point Lat: 21°39'52.80"N Long: 72°32'24.67"E	9.0 km	Present Disposal arrangements to GIDC Pumping Station will be discontinued. Combined treated wastewaters will be conveyed to landfall point by pumping in a separate onshore pipeline from the Guard pond of GFL.

3	Offshore Pipeline with diffuser 280 mm OD, PN 10 PE 100, IS 14333	5 MLD	From landfall point to final outfall point via submarine pipeline and diffuser system off Luvara Coast at Dahej Lat: 21°39'22.78"N Long: 72°30'45.46"E	3.0 km	Pumping of treated wastewaters with sufficient head and discharge through a scientifically designed diffuser system in deep sea at suitable point selected as per Hydrodynamic Modelling and dilution and diffusion study.
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- (v) The pumping station and existing guard pond does not fall in CRZ areas. Only pipeline alignment at onshore and offshore of about 5.08 km falls in CRZ area, out of the total length of 12 kms pipeline system.

<i>Description</i>	<i>Total length of pipeline (km)</i>	<i>CRZ area</i>	<i>Length in CRZ area (km)</i>
Pipeline from GFL pumping station to landfall point <i>(onshore pipeline)</i>	9.0	NDZ	0.74
		CRZ-III	1.21
		CRZ-1A	0.13
		<b>Sub total</b>	<b>2.08</b>
Outfall pipeline from landfall point to disposal point <i>(offshore pipeline)</i>	3.0	NDZ	0.12
		CRZ-1B	0.44
		CRZ-1A	2.27
		CRZ- IV A	0.17
		<b>Sub total</b>	<b>3.0</b>
<b>Total length traversing in CRZ area</b>			<b>5.08</b>

- (vi) The pipeline alignment passes through the boundary of forest land parallel to a GIDC road after the side shoulders. Necessary permission from the Forest Department is already availed from the Local DFO Office.
- (vii) The water requirement during construction phase shall be sourced from tanker basically for hydro testing of pipeline. During operation phase, water requirement of 1 KLD shall be obtained from GIDC Water Supply.
- (viii) Total industrial waste water generated in the plant is 4419 KLD which will be treated in ETP and treated water of 3239 KLD is presently being discharged to deep sea via GIDC effluent disposal system.
- (ix) The unit has STP of capacity 200 KLD which is used to treated domestic waste water of about 45 KLD and reused for gardening purpose.
- (x) No solid waste is generated from the proposed project.
- (xi) The energy requirement for pumping is 113 KWH which is sourced from DGVCL
- (xii) The employment potential of the project is 100 workers during construction phase and 10 persons during operation phase.
- (xiii) The total cost of proposed pipeline project is Rs.15 crores
- (xiv) Gujarat Coastal Zone Management Authority has recommended the above proposal for clearance vide their letter No. ENV-10-2019-145-E(T Cell) dated 27<sup>th</sup> April, 2020.

2. The Committee in its earlier meeting held on 27.05.2020 had desired for the following information /documents for its examination before the proposal is recommended for clearance from CRZ perspective:

- (i) *Necessary authentication from the PCCF of Gujarat shall be obtained to ascertain the boundary of forest because the project is passing through boundary of forest land.*
- (ii) *Details of the resource persons (marine EIA consultants) involved in preparation of the Marine EIA shall be submitted for assessment of their competencies. In addition, the status of accreditation of the Marine EIA consultants for carrying out such a study shall be submitted.*
- (iii) *A revised marine EIA report or a supplementary marine EIA report detailing present baseline status of the outfall region (with adequate number of sampling locations) including bioaccumulation study of pollutants including heavy metals within marine benthos, crustaceans, molluscs and fishes and mitigation measures thereof carried out by a competent organization shall be submitted.*
- (iv) *Appropriate financial allocation as per the Office Memorandum issued by the Ministry, dated 01.05.2018, on CER, for activities to be undertaken specific to marine and coastal biodiversity conservation under CER shall be earmarked and detailed plan of action contemplated shall be submitted to the Ministry*

3. On submission of the above, the matter was again placed for reconsideration. The Committee noted that 0.0333 Ha of pipeline is passing through the Forest land and the same is pending for approval with Ministry of Environment and Forest, Government of Gujarat. The Committee suggested that the required document shall be obtained before processing the file.

4. The Committee also took note that the revised marine EIA report concluded that the residual COD discharge will be diluted by an order of 450 times thus, the impact on marine ecology in the outfall location will be insignificant. The Committee further noted that the bio augmentation of the pollutants in the benthic is not observed. The Committee found the revised marine EIA report satisfactory.

5. Based on the deliberations held, the Committee recommended the project for CRZ clearance subject to the following conditions:

- (i) No groundwater shall be extracted to meet with the water requirements during the construction and/or operation phase of the project
- (ii) No excavated material during the construction shall be dumped in water bodies or adjacent areas. The site shall be restored to its near original condition after completion of construction.
- (iii) Any physical infrastructure setup during construction period shall be removed simultaneously with completion of laying of each segment of the project.
- (iv) Flow of natural tidal water to mangroves, if any, should remain un-affected and thus adequate measures to be provided to maintain un-interrupted tidal water to mangroves.
- (v) Minimum five years of monitoring for water quality at discharge point and bio-accumulation in the benthos (against the baseline data provided in the EIA) must be done on annual basis and reports submitted to the concerned Regional Office of this Ministry.
- (vi) As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1<sup>st</sup> May, 2018, and proposed by the project proponent, an amount of Rs.30 lakhs i.e @2% of project Cost shall be earmarked under Corporate Environment Responsibility (CER) for the activities such as support to local government, schools, sanitation and health including construction of public toilets in the surrounding villages, as per need based assessment carried out. The activities proposed under CER shall be restricted to the



affected area around the project. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.

**3.4 Proposed laying of 710 mm dia HDPE pipeline of total length 17.50 km from existing disposal point at Forest Naka Ambernath to deep into Ulhas Creek for disposal of treated effluent from Ambernath, Adl Ambernath and Badlapur MIDC industrial area by M/s Maharashtra Industrial Development Corporation (MIDC) [IAMH/CRZ/126822/2019] [F.No.11-11/2020-IA.III]- CRZ Clearance- reg**

The proposal of M/s Maharashtra Industrial Development Corporation (MIDC) is for laying of treated effluent disposal pipeline of Ambernath, Adl Ambernath and Badlapur MIDC Industrial Area, in district Thane, in Maharashtra. The project proponent made a presentation and provided the following information:

- (i) M/s MIDC has proposed laying and Jointing of HDPE pipeline of length 17.50 km for disposal of Treated Effluent from CETPs situated in Ambernath, Addl.Ambernath and Badlapur Industrial areas from existing disposal point to deep into Ulhas Creek at outfall location suggested by National Institute of Oceanography (NIO).
- (ii) Treated effluent from the CETPs of Ambernath, Addl. Ambernath and Badlapur industrial areas of MIDC will be discharged through the proposed disposal pipeline. The CETPs in Ambernath industrial area (2 Nos.) and Badlapur industrial area(1No) are in the possession of the CETP Co-operative Societies and Operation and Maintenance of these CETPs is being looked after by the respective CETP societies. Presently, treated effluent from these CETPs is released through nalla, near R.O.B. at Forest Naka, Ambernath.
- (iii) The CETP in Addl. Ambernath Industrial area is in the possession of MIDC and this CETP is not in operation since July 2016 as per directions of Maharashtra Pollution Control Board (MPCB) vide letter dated 02/07/2016.
- (iv) The total length of Pipeline will be 17.50 km, out of which 5000 m length of pipeline will traverse in CRZ-IV area.
- (v) M IDC has taken up this work in compliance to order of NGT in the matter of Vanshakti Public Trust and Other Vs Maharashtra Pollution Control Board & Others Vide Page 24of 25Application No 37/2013 (Execution Application No 15/2016) before Honorable NGT, Western Zone, Bench Pune.
- (vi) The existing 500 mm dia PSC pipeline of 1.725 km length is laid for conveyance of treated effluent from CETP in Addl. Ambernath industrial area and from CETP in Badlapur industrial area 500 mm dia HDPE pipeline of 5.90 Km length is laid and is presently discharged into nalla near R.O.B. at Forest Naka, Ambernath. Treated effluent from CETPs(2Nos) of Ambernath industrial areas is also discharged into the same nalla, which leads to Ulhas Creek.
- (vii) MIDC proposes to lay 710 mm dia. HDPE pipeline of 17.50 Km length for disposal of treated effluent from CETPs situated in Ambernath, Additional Ambernath and Badlapur industrial areas from existing disposal point at Nalla near R.O.B., at Forest Naka, Ambernath to deep into the Ulhas Creek at the outfall point suggested by the National Institute of Oceanography(NIO).
- (viii) The total length of pipeline in nalla and river bed will be 12.50 Km and in deep sea/creek it will be 5.00 Km. The width of excavation will be 1.71 m and depth of excavation from existing sea/creek bed will be 2.50 m to 3.00 m.

- (ix) The depth of outfall point from surface of water will be approximately 11.00 m below and depth of water at disposal point will be 8.00 m (on creek bed).
- (x) Requirement of water is about maximum 10,000 Lit/day. No ground water extraction shall be carried out in CRZ.
- (xi) The employment likely to be generated is 35 persons during construction phase and 4 persons during operational phase.
- (xii) There are no Mangroves in the entire alignment of the laying of the pipeline.
- (xiii) The total cost of the project is about Rs.124.73 crores.
- (xiv) The Maharashtra Coastal Zone Management Authority has recommended the above proposal for clearance vide their letter No. CRZ 2019/CR181/TC-4, dated 4<sup>th</sup> November, 2019.

2. The Committee in its earlier meeting held on 26.02.2020 had desired for the following information /documents for its examination before the proposal is recommended for clearance from CRZ perspective:

- (i) *Revised proposal with a changed alignment of pipeline and the discharge point further down to deep sea taking a shorter route or adequate justification from NIO for selection of the proposed discharge point location.*
- (ii) *Endorsement of the MCZMA with the new alignment.*
- (iii) *Effluent characteristics of member industries of CETP, the water quality data / report after upgradation of CETP carried out by nationally reputed institute and endorsed/certified by the State PCB.*
- (iv) *The project proponent shall submit an in-built mechanism for ensuring that the member of the industries is held accountable for lapses (if any) for eventuality of non-conformity of the CETP discharge with the standards prescribed by the Central/State Pollution Control Board.*

3. On submission of the above, the matter was again placed for reconsideration. The Committee was informed that the existing disposal point is located in nalla near Forest Naka, Ambernath and location of proposed disposal point suggested by NIO deep into Ulhas Creek is 17.50 km away. The project proponent submitted that the proposed disposal point by CSIR-NIO will minimise the impact of treated effluent on the aquatic environment of the Ulhas estuary. The Committee also took note that the treated effluent from the CETPs of Ambernath, Addl Ambernath and Badlapur industrial areas of MIDC will be discharged through the proposed disposal pipeline. The details of CETPs contributing treated effluent to proposed 710 mm dia HDPE disposal pipeline are as below:

S.No	Name of industrial area and CETP	Possession of CETP and operated by	Existing capacity of CETP (MLD)
1	Ambernath Industrial area		
	(a) CEMT CETP	Chikhloli Morivali Effluent treatment	0.80 MLD
	(b) ACMA CETP	ACMA CETP cooperative	0.25 MLD
2	Addl Ambernath industrial area	MIDC	7.50 MLD
3	Badlapur Industrial area	Badlapur CETP association	8.00 MLD

The Committee was also informed that a tripartite agreement will be signed amongst MIDC, CETP Association and beneficial industry and the name of the defaulter unit will be communicated to SPCB for actions under the provisions of the Water (Prevention and Control of Pollution) Act, 1974.

4. Based on the deliberations held the Committee recommended the project for CRZ clearance subject to the following conditions:

- i) MIDC shall ensure that the treated effluent discharge is strictly as per norms specified by CPCB/SPCB.
- ii) The location of new discharge effluent shall be strictly as per suggestion of NIO stated as 19°16'51.98" N and 73°07'14.63" E.
- iii) No groundwater shall be extracted to meet with the water requirements during the construction and/or operation phase of the project.
- iv) No excavated material during the construction shall be dumped in water bodies or adjacent areas.
- v) Any physical infrastructure setup during construction period shall be removed simultaneously with completion of laying of each segment of the project.
- vi) As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1<sup>st</sup> May, 2018, and proposed by the project proponent, an amount of Rs.2.49 crores i.e @2% of project Cost shall be earmarked under Corporate Environment Responsibility (CER) with special focus on providing healthcare facilities to the government hospitals in light of COVID 19 pandemic. Other activities include support to local government, schools, sanitation and health including construction of public toilets in the surrounding villages, as per need based assessment carried out. The activities proposed under CER shall be restricted to the affected area around the project. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.

**3.5 Proposal for construction of refrigerated Propane/Butane/LPG import Terminal and laying of pipeline from jetty to the terminal at Krishnapatnam Port, Muthukuru Mandal, SPSR Nellore District, Andhra Pradesh by M/s NGC Energy India Private Limited - CRZ Clearance - reg. [IA/AP/CRZ/155446/2020] [F.No.11-28/2020-IA.III]**

The proposal of M/s NGC Energy India Private Limited is for construction of refrigerated Propane/Butane/LPG import Terminal and laying of pipeline from jetty to the terminal at Krishnapatnam Port, Muthukuru Mandal, SPSR Nellore District, Andhra Pradesh was earlier considered in the 238<sup>th</sup> meeting held on 30.06.2020, wherein, the project proponent had provided the following information to the Committee:

- (i) NGC Energy India Private Limited is the Indian subsidiary of its parent, National Gas Company, S.A.O.G, Oman. National Gas has been a pioneer since 1979, in LPG Marketing in the Sultanate of Oman, with businesses also in UAE, Saudi Arabia and Malaysia.
- (ii) The proposed project involves setting up a new Refrigerated Propane/Butane/LPG import Terminal, jetty to terminal pipelines of length 2.7 km & associated facilities at Survey No. 736/2, 737, 738, 741A, 741B, 741C3, 741C4, 888, 889, Krishnapatnam Port, District Nellore, Andhra Pradesh. Two above ground, full integrity double walled tanks of capacity 16,600 MT each, shall be provided to store propane and butane in a refrigerated condition. In addition, two mounded bullets of capacity 370

MT each, shall also be provided for Propane/Butane/LPG storage and one Diesel storage tank (13.3 MT). The proposed terminal and associated facilities shall be approved by PESO, and comply with other statutory requirements.

- (iii) The proposed terminal is to be constructed within a plot of ~ 4.91 Hectares (12.14 Acres) on land sub-leased from M/s Krishnapatnam Port Corporation Limited (KPCL). This facility will be set up within the Liquid Cargo Terminal area being developed by KPCL.

<b>Proposed Project Site Coordinates</b>		
<b>S.N</b>	<b>Latitude</b>	<b>Longitude</b>
A	14°16'32.98"N	80° 8'20.17"E
B	14°16'27.31"N	80° 8'19.06"E
C	14°16'28.94"N	80° 8'10.01"E
D	14°16'34.64"N	80° 8'11.12"E

- (iv) Distance of pipeline from HTL is 108.5 m.
- (v) Proposed project site fall in CRZ III area. Further the pipeline from the project site to Jetty in Krishnapatnam port passes through CRZ III, CRZ IVB and CRZ IB areas.
- (vi) Water requirement of 8 KLD will be utilized for the proposed project.
- (vii) Wastewater of 5 KLD will be generated and treated in STP of capacity 5 KLD. Sewage Treatment Plant for domestic water and OWS for oily liquid waste. The treated wastewater will be reused for gardening purpose.
- (viii) Domestic solid waste of 9.0 kg/day (Organic Waste: 5.4 kg/day, Inorganic waste: 3.6 kg/day) will be generated and handed over to authorized agent for dumping in municipal yard.
- (ix) Spent Oil, Used Lubricating Oil and Used Lead Batteries shall be sent to authorized vendor for disposal, Empty drums of Mercaptan will be recycled back to supplier.
- (x) Recharge Pit (1 No.) of 10 KL will be provided for rain water harvesting purpose.
- (xi) Total Power Requirement of 33 KV will be sourced from AP Electricity Board. DG sets of capacity 2x1MVA and 1x500 KVA will be used as stand by during emergency.
- (xii) The employment potential of the project is 160 persons during construction phase and 45 persons during operation phase.
- (xiii) The total cost of proposed project will be Rs.300 crores.
- (xiv) Andhra Pradesh Coastal Zone Management Authority (APCZMA) has recommended the above proposal for clearance vide their letter No. 160/CRZ/IND/2019/28 dated 21<sup>st</sup> May, 2020.

2. The Committee noted that the Krishnapatnam Port Company Ltd. has been issued Environmental and CRZ clearances by this Ministry vide letter No.10-22/2005-IA III, dated 26<sup>th</sup> July, 2006 and F.No.11-62/2009-IA III, dated 13<sup>th</sup> November, 2009 for Phase I and Phase II respectively and includes one POL (Petroleum, Oil Lubes) berth for handling liquid cargo.

3. The Committee in its earlier meeting held on 30.06.2020 had observed that the project proponent had not circulated necessary documents germane for appraisal for such a project to the members and only a brief write-up was made available. The Committee further observed that there seem to be quite a good habitation/villages in and around 1.0 km of the area and therefore risk assessment/safety, in addition to, environmental aspects is a concern for which no proper information is available. It was also stated that one of the document pertaining to the project details from page no.267 to 473 was blank. The Committee noted the casual approach of the project proponent and therefore declined to go ahead with the appraisal and decided that

requisite documents shall be circulated in time to enable members in making a meaning deliberation during appraisal of the proposal. *The Proposal was accordingly deferred for reconsideration at a later stage once requisite information are made available to the members of the Committee.*

4. On submission of the above document the matter was placed for reconsideration. The Committee took note that the proposed construction of refrigerated Propane/Butane/LPG import Terminal falls within CRZ III area and laying of pipeline from jetty to the terminal of 2.7 to 3 km.

5. The Committee deliberated the proposal and observed that in so far as CRZ implications are concerned, the proposed activity will not change the characteristics of the area from CRZ perspective and therefore the proposal can be considered for CRZ clearance. Based on the deliberations held the Committee recommended the project for CRZ clearance subject to the following conditions:

- i) No groundwater shall be extracted to meet with the water requirements during the construction and/or operation phase of the project.
- ii) No excavated material during the construction shall be dumped in water bodies or adjacent areas.
- iii) Any physical infrastructure setup during construction period shall be removed simultaneously with completion of laying of each segment of the project.
- iv) All safety guidelines prescribed by PNGRB for storage and handling and OISD safety norms are to be strictly adhered to.
- v) As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1<sup>st</sup> May, 2018, and proposed by the project proponent, an amount of Rs.4.5 crores i.e @1.5% of project Cost shall be earmarked under Corporate Environment Responsibility (CER) with special focus on providing healthcare facilities to the government hospitals in light of COVID 19 pandemic. Other activities include support to local government, schools, sanitation and health including construction of public toilets in the surrounding villages, as per need based assessment carried out. The activities proposed under CER shall be restricted to the affected area around the project. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.

**3.6 Proposal for marine outfall system for discharge of treated effluent from Kakinada SEZ industrial park at Mulapeta, Ponnada and Ramanakkapeta villages in U. Kothapalli mandal, East Godavari district, Andhra Pradesh by M/s Kakinada SEZ Private Limited -CRZ Clearance - reg. [IA/AP/CRZ/156239/2020] [F.No.11-27/2020-IA.III]**

The project proponent had requested to consider the proposal in the next EAC(CRZ) meeting to be held in September, 2020. *Accordingly, the proposal was deferred for its reconsideration at a later stage.*

**3.7 Proposed laying of 20-inch gas pipeline of 31 km length from Offshore platform, in the East Coast passing through the mouth of the Gautami- Godavari River, part of Yanum (2.51 km) U.T. of Puducherry and East Godavari District, Andhra Pradesh by M/s Oil and Natural Gas Corporation Limited - CRZ Clearance - reg. [IA/AP/CRZ/123952/2019] [F.No.11-24/2020-IA.III]**

The proposal of M/s Oil and Natural Gas Corporation Limited is for laying of 20-inch Gas Pipeline for about 31 kms length from Offshore Platform located around 10 kms of East Coast Offshore to Onshore Gas Terminal at Mallavaram village, in East Godavir District of Andhra Pradesh and further laying along the river (11.8 km) at 2.5 m depth and 10 km onshore. It will pass through mouth of the Gautami- Godavari River, part of Yanam (2.51 km) U.T. of Puducherry and East Godavari District, Andhra Pradesh was earlier considered in the 238<sup>th</sup> meeting held on 30.06.2020, wherein, the project proponent had provided the following information to the Committee:

- (i) M/s Oil and Natural Gas Corporation Limited (ONGC) is developing Block KG-DWN-98/2 under the New Exploration Licensing Policy (NELP), in deep waters off the East Coast of India. The KG-DWN 98/2 block is located within 25-40 km of the nearest land-fall and the water depth in this block varies between 300 m to 3,200 m. Gas from 8 sub-sea wells for KG-DWN-98/2 shall be processed in the Central Process platform (CPP) located at 30 m water depth. The processed gas shall further be compressed and transported to Onshore Gas Terminal at Mallavaram.
- (ii) The instant proposal of M/s ONGC is for laying 20" pipeline (about 31 km) from offshore platform, through mouth of the Gautami-Godavari river, part of Yanam (Puducherry) about 2.51 km and terminating at ONGC onshore plant at Mallavaram village, Thallarevu mandal, East Godavari district, Andhra Pradesh. The proposed pipeline is designed for a pressure of 120 kg/cm<sup>2</sup>.
- (iii) The proposed 20" pipeline (about 31 km length) route from offshore Central Process Platform (CPP) location around 10 km of the east coast to onshore Gas Terminal (OGT) at Mallavaram comprises of:
  - Offshore laying (about 9 km) at depth of 1-2 m by post lay trenching method.
  - Laying along the river (about 11 km) at depth 2-7 m (below the scour depth) laid by dredging method, after entering through the river mouth cutting sand dunes.
  - Onshore laying involving shore pull in shore approaches / near shore location & onshore (about 11 km) buried at depth 2 m below surface by trenching method.
  - Laying the pipeline at river crossings (2 major rivers)/rivulets/roads/mangroves area below the river bed at a depth of 15 m or more by Horizontal Direction Drilling (HDD) method.
- (iv) The proposed pipeline route is passing through various CRZ areas as given below:

<b>CRZ Classification</b>	<b>Yanam Portion Length (m)</b>	<b>East Godavari Portion Length (m)</b>	<b>Total Length (m)</b>
CRZ-I(A)	123.88	1783.77	1907.65
CRZ-I(A) Mangroves 50 m buffer zone	158.02	1656.93	1814.95
CRZ-I(B)	113.30	592.89	706.19
CRZ-II	1092.06	127.82	1219.88
CRZ-III (NDZ)	-	1941.34	1941.34
CRZ-IV(A)	-	8779.95	8779.95
CRZ-IV(B)	7.62	10845.28	10852.95
Non-CRZ	1016.07	2582.94	3599.01
<b>Total</b>	<b>2510.95</b>	<b>28310.92</b>	<b>30821.87 or ~31 km</b>

- (v) The proposed 20” pipeline project is not passing through any notified National Park/Sanctuaries/Coral Reefs/ESA etc.
- (vi) A part of the pipeline route falls in forest land which is also part of CRZ area, and also part of River Gouthami. Pipeline length, about 1.17 km is passing through forest boundary. The forest area about 2.67 ha (10 m RoU either side of 1.17 km pipeline) falls in the river Gouthami, which is within the Forest Boundary and CRZ Area.
- (vii) Part of the proposed pipeline falls within the 10 km buffer zone of Coringa Wildlife Sanctuary, which is non-forest land. The boundary of the Coringa Wildlife Sanctuary is 2.32 km away from the pipeline nearest point. The Right of Use (RoU) during operation and entire life of pipeline would be, 18.96 ha within the Buffer zone of 10 km, with 10 m on either side of the pipeline in this zone.
- (viii) For construction purposes, temporary placement of equipment or structures will be required. After the completion of construction, the entire stretch will be cleared of all construction material, equipment, debris etc., and the land filled back to original levels. Subsequently entry permit will be required for taking up periodical inspection and maintenance of pipeline. The installation activity to be performed along River Pipeline scope includes the following:
- Temporary cofferdam installation at LFP to aid in pulling the pipeline ashore;
  - Temporary equipment setup and site leveling at LFP to aid in pulling the pipeline ashore;
  - Temporary camp setup at a pre-determined location in the vicinity of LFP;
  - Dredging of shallow water areas for marine spread access (pipelay barge, supply vessels)
  - Dredging of a pre-trench along the indicated pipeline route along and within the river and through the natural sandbar at the river mouth;
  - Temporary storage of dredged spoil either within the river channel, on the river banks or at pre-designated onshore temporary storage locations;
  - Pipeline installation within the river and through the sandbar location;
  - Engineered backfill (sand, rock and spoil) installation over the pipeline;
  - Movement of installation vessels from the main Godavari River, along the tributary to the site, along with free access to complete installation activities; and
  - Movement of personnel from the installation vessel to the onshore camp location by crew boat.
- (ix) Additional to the River Pipeline Installation, the installation activities to be performed at shore crossing include:
- Temporary access road to and from the shore site;
  - Temporary cofferdam installation at shore crossing location to aid in pulling the pipeline ashore;
  - Temporary equipment setup at shore location and site levelling to aid in pulling the pipeline ashore;
  - Winch operation at shore pull location; and
  - Pre-commissioning activities.
- (x) River and offshore section of the pipeline 20” Pipe X 19.1WT, Carbon Steel, concrete coated pipe. The hazardous material used for construction activities will be handled in accordance with MSIHC rules and detailed information will be included in MSDS. All safety requirements as stipulated in OISD / PESO / ONGC Guidelines will be followed while handling petroleum products.

- (xi) The total water requirement during construction phase will be 25 KLD, which is sourced from local municipal tankers. Out of 25 KLD, for domestic purposes 13.5 KLD will be required and for construction activities 11.5 KLD will be required.
- (xii) No power requirement during operation phase. During construction phase, the fuel (approx. 5.68 KLD) will be required for running of D.G sets (2 Nos. X 500 kVA), welding equipments, machinery, vehicles, etc. The requirement will be met from nearby energy stations.
- (xiii) Excavated soil will be generated during construction phase, however the same will be reused in back filling the excavated area. Hazardous waste and oil waste will be stored as per guidelines and sent to authorized collection agency. Domestic waste of 10 KLD will be generated and will be discharged in septic tanks & soak pits. Commercial waste is expected and will be segregated and disposed / handover to authorized recyclers.
- (xiv) The employment potential of the project is 300 persons during construction phase. Several other indirect employment opportunities such as transport, business, vehicle drivers and attendants, workshops, grocery and retails, medical, etc. is envisaged due to the laying of proposed pipeline.
- (xv) The total cost of proposed pipeline project is Rs.1562 crores
- (xvi) Andhra Pradesh Coastal Zone Management Authority (APCZMA) has recommended the above proposal for clearance vide their letter No. 179/CRZ/IND/2019/29 dated 21<sup>st</sup> May, 2020.
- (xvii) Puducherry Coastal Zone Management Authority (PCZMA) has recommended the above proposal for clearance vide its letter No. 3678/DSTE/PCZMA/CLR/SCI/2019/572 dated 08<sup>th</sup> January, 2020.

2. The Committee in its earlier meeting held on 30.06.2020 had desired for the following information /documents for its examination before the proposal is recommended for clearance from CRZ perspective:

- (i) *Marine Biodiversity Study (including estuarine areas and marine influenced river body) its present ecological status and anticipated impact assessment and the mitigation measures thereof.*
- (ii) *A conservation plan for wildlife need be prepared in consultation with the Wildlife Department in the State and duly endorsed by the Chief Wildlife Warden, for implementation at the ground.*
- (iii) *Worst case scenario mitigation plan for safety measures including safety buffer proposed to be kept from the pipeline and the protected areas / ecologically sensitive sites.*

3. On submission of the above said documents the matter was placed for reconsideration in the said meeting. The Committee noted that the wildlife conservation plan was prepared in association and consultation with Forest Department, duly endorsed by the Chief Wildlife Warden. The Committee also found the revised marine biodiversity report and risk assessment report satisfactory.

4. Based on the deliberations held the Committee recommended the project for CRZ clearance subject to the following conditions:

- (i) The clearance is subject to obtaining prior clearance from the Standing Committee of National Board of Wildlife, as may be applicable.



- (ii) A minimum of ten times the number of trees felled (non-mangrove trees) shall be replanted.
- (iii) No groundwater shall be extracted to meet with the water requirements during the construction and/or operation phase of the project.
- (iv) No excavated material during the construction shall be dumped in water bodies or adjacent areas.
- (v) Any physical infrastructure setup during construction period shall be removed simultaneously with completion of laying of each segment of the project.
- (vi) As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1<sup>st</sup> May, 2018, and proposed by the project proponent, an amount of Rs.7.81 crores i.e @0.5% of project Cost shall be earmarked under Corporate Environment Responsibility (CER) with special focus on providing healthcare facilities to the government hospitals in light of COVID 19 pandemic. Other activities include support to local government, schools, sanitation and health including construction of public toilets in the surrounding villages, as per need based assessment carried out. The activities proposed under CER shall be restricted to the affected area around the project. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.

## MISCELLANEOUS

### 3.8 Proposed laying of edible oil pipeline from "Y" junction at Oil Jetty of DDPT to BFCL private Limited at Survey No. 189, Village Mithirohar, Taluka Gandhidham, District Kutch, Gujarat by M/s BFCL Terminal Private Limited – CRZ Clearance - reg. [IA/GJ/CRZ/169101//2020] [F.No.11-23/2020-IA.III]

The proposal of M/s BFCL Terminal Private Limited is for laying of edible oil pipeline from "Y" junction at Oil Jetty of DDPT to BFCL Terminal private Limited at Survey No. 189, Village Mithirohar, Taluka Gandhidham. District Kutch, Gujarat. The project proponent made a presentation and provided the following information:

- (i) The instant proposal of M/s BFCL Terminal Private Limited is for laying of edible oil pipeline from "Y" junction at Oil Jetty of DDPT to BFCL Terminal private Limited. Total length of pipeline is 11.5 km. Out of this 8.5 kms falls in the common corridor of the port. Within this 8.5 km length, 0.450 km (450.37 meters) falls under CRZ I B and 1.548 km (1548.88 meter) falls under CRZ III. Thus, altogether 1.99 km (1999.25 meters) of the pipeline passes through CRZ area.
- (ii) Detailed route of pipeline, area and location will as follow:

S No.	Pipe Line dia.	Length (km)	Number	Area Covered (Sq.m)	Start	Location	End	Location
1.	14"	11.5	2	0.992	Y- Junction of Oil jetty along with common corridor of pipelines at	Deendayal Port Taluka : Gandhidham (23° 1' 52.93" N, 70° 13' 13.19" E)	BFCL Terminal Pvt.Ltd. (Tank Farm Division Bharat Foods	Village: Mithirohar Taluka: Gandhidham (23° 05' 40.80" N and 70° 09' 37.45")
2.	10"	11.5	1	0.506				
3.	16"	11.5	1	1.296				

					Deendayal Port Trust		Co-operative Ltd)	
4.	3"	3.6	1	0.046			Booster Pump station	3.6 Km. from "Y" Junction of Oil Jetty at Deendayal Port Trust

(iii) The material transfer will be only in one direction from port to terminal and after that the materials will be sent to customers through trucks. There are two systems for transportation of products from Y Junction to terminal given as below:

- Edible Oil (crude / refined) unloading from ship through Pipeline to other Liquid Storage Terminals. Afterwards, shifting of the same to BFCL Terminal Pvt. Ltd. (Tank Farm Division-Bharat Foods Cooperative Ltd.) through Tanker Lorries.
- Edible Oil (crude / refined) unloading from ship through Pipeline to BFCL Terminal Pvt. Ltd. (Tank Farm Division-Bharat Foods Co-operative Ltd.).

(iv) Details of pipelines are as follows:

S. No.	Diameter of Pipeline	Route of Pipeline	Status
1.	1 14" dia.	Y-Junction TO BFCL Terminal	Constructed
2.	2 3" dia.	AIR LINE Y-Junction TO Booster Pump	Constructed
3.	3 10" dia.	Y-Junction TO BFCL Terminal	Not constructed
4.	4 14" dia.	Y-JUNCTION TO BFCL TERMINAL	Not constructed
5.	5 16" dia.	Y-JUNCTION TO BFCL TERMINAL	Not constructed

(v) Details of Storage Tanks are as follows:

S. No.	Nos. of Storage Tank	Diameter X Height (M)	Storage Material	Capacity of Storage Tanks
1.	TANK-101	21.970 X 16.913 M	Edible Oil	6220.506 KLS
2.	TANK-103	14.969 X 16.898 M	Edible Oil	2889.401 KLS.
3.	TANK-104	21.975 X 16.873 M	Edible Oil	6224.908 KLS
4.	TANK-105	14.977 X 16.884 M	Edible Oil	2892.352 KLS
5.	TANK-106	11.979 X 16.846 M	Edible Oil	1848.103 KLS.
6.	TANK-107	14.980 X 16.898 M	Edible Oil	2896.725 KLS.
7.	TANK-108	12.976 X 16.959 M	Edible Oil	2182.307 KLS.
Total Capacity				25154.302 KLS

(vi) Above the ground the pipeline is laid through butt welding technique and welding works by Tungsten Inert Gas (TIG) for root and two run of welding by using 6013 welding electrodes which is carried out by rectifiers & welding generators. Argon gas to be used for all TIG welding. All the above ground pipelines lying on pedestals made of RCC-M25 and MS fabricated racks using ISMB 175 and MS pipes will be used.

(vii) Technique for underground pipelines: SS 316L is used and have same joint & welding specifications as mentioned above. All the underground pipelines passing through Hume pipe which is laid by open excavation method

(viii) CRZ Maps of 1:4000 as per approved CZMP has been prepared by authorized agency i.e., Indian Institute of Remote Sensing (IRS) Anna University, Chennai).

- (ix) Water requirement will be about 1000 KLD for industrial purpose and for domestic drinking water for the security guard will be supplied via drinking water bottles.
- (x) The wastewater generated from the pipeline hydraulic testing operations will be collected in existing raw water storage tank at the parent company's terminal (namely Bharat Foods Cooperative Ltd.) where it will be reused for day to day operations such as cooling, gardening and fire-fighting.
- (xi) Power requirement will be 150 KVA and will be sourced Paschim Gujarat Vij company Limited (PGVCL).
- (xii) The employment potential of the project is 20 persons.
- (xiii) The total cost of proposed pipeline project is Rs.9.0 crores.
- (xiv) Gujarat Coastal Zone Management Authority (GCZMA) has recommended the above proposal for clearance vide its letter No. ENV-10-2018-58 E (T cell) dated 20.05.2020.

2. On perusal of the recommendation of CRZ clearance by the Gujarat CZMA, the Committee observed that the project was recommended by the Gujarat CZMA in accordance with the notification No. S.O.1002(E), dated 06.03.2018 regarding post facto CRZ clearance. The Committee observed that as per the above notification, such proposals as submitted to this Ministry on or before 30.06.2018 could only be considered. The Committee was informed that a policy decision for such cases is under process and the Committee may like to appraisal on merits of the proposal from CRZ perspective. The Committee therefore agreed to the same and deliberated the proposal only from the perspective of environmental jurisprudence.

3. The project proponent appraised the Committee, that the edible oil pipeline has been laid in the existing pipeline corridor the action executed is only an addition of one more pipeline in the same corridor, where other pipelines including that of IOCL and others are operational on date. That the action of the project proponent does not in any way add any adversity in the CRZ area and the environment at large. That presently the pipeline is filled with compressed air.

4. The project proponent further informed that the pipeline when used would enable avoiding edible oil transportation by 200 to 225 tankers per day and thereby reducing a lot of air pollution in addition to road congestion.

5. Based on the deliberations held the Committee observed that from the information now made available, perhaps there could be no adverse impact on the CRZ characteristics due to the action committed by the project proponent and is purely a lapse of procedural compliance. The Committee therefore decided that in-principle CRZ recommendation may be made subject to suitable remedial measures as may be deemed fit in the instant case. The issue of addressing the procedural lapse and other concerned issues may be decided by the Ministry in accordance with the policy decision purportedly being addressed soon for similar such cases. The Committee finally decided that the project proponent shall comply with the following conditions:

- i) The project proponent shall take lead in roping other owners of the pipeline corridor for undertaking an exercise of time bound mangrove plantation in the district in consultation with the forest department. The exercise shall be undertaken within six months of the receipt of clearance;
- ii) The project proponent rope in all organization/entities operating in the DDPT and shall lead in organizing shall periodically an environment awareness campaign

encompassing plastic litter, marine pollution and measures for mitigation and action by all.

**4.0 Any other item with the permission of the Chair.**

There being no agenda item left, the meeting ended with a vote of thanks to the Chair.

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