

MINUTES OF THE 229th MEETING OF THE EXPERT APPRAISAL COMMITTEE FOR PROJECTS RELATED TO COASTAL REGULATION ZONE HELD ON 27th JANUARY, 2020 AT INDIRA PARYAVARAN BHAWAN, MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE, NEW DELHI.

The 229th Meeting of the Expert Appraisal Committee for projects related to Coastal Regulation Zone was held on 27.01.2020 at Brahmaputra Conference Hall, Vayu Block, 1st Floor, Indira Paryavaran Bhawan, New Delhi. The members present are:

1.	Dr. Deepak ArunApte	-	Chairman
2.	Dr. M.V Ramana Murthy	-	Member
3.	Dr. V. K. Jain	-	Member
4.	Shri. N.K. Verma	-	Member
5.	Dr. Mohan Singh Panwar	-	Member
6.	Ms. Bindhu Manghat	-	Member
7.	Shri. W. Bharat Singh	-	Member Secretary

Dr. Anil Kumar Singh, Dr. Manoranjan Hota, Shri Prabhakar Singh, Shri Narendra Surana, Shri N.K. Gupta, Dr. Anuradha Shukla and Shri Sanjay Singh were absent. Dr. Rajesh Shah expressed his inability to attend the meeting.

In attendance: Dr. Saranya P, Deputy Director 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 228th 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:

RECONSIDERATION

3.1 Proposal for construction of Lidar based offshore structure for wind measurement at Zone C1 (Dhanuskodi Coast) & C2 (Valinokkam coast) in Gulf of Mannar, in Tamil Nadu by M/s National Institute of Wind Energy, Ministry of New and Renewable Energy, Government of India [IA/TA/CRZ/119895/2019][F.No.11-39/2019-IA.III]- CRZ Clearance - reg.

The proposal of M/s National Institute of Wind Energy, Ministry of New and Renewable Energy, Government of India was earlier considered in the 226th meeting held on 23.10.2019, wherein, the project proponent made a presentation and had provided the following information to the Committee:

- (i) M/s National Institute of Wind Energy (NIWE) is the nodal agency for development of offshore wind energy and has been entrusted by the Government of India to carry out and coordinate wind resource assessment and surveys in India. Through the

present proposal, NIWE is planning to carry out wind resource assessment near Gulf of Mannar, in Tamil Nadu under FOWIND project.

- (ii) NIWE has approached NIOT for design and installation of substructures for installation of Laser Detection and Ranging (LiDAR) device. The data collection platform will function for 2 years for measuring wind data to validate the wind potential at these sites. A LiDAR device is proposed to be used for the measurement of wind speed. The LiDAR obtains information from a signal which is sent from a transmitter, reflected by a target (the wind) and detected by a receiver back at the source to measure the velocity of wind.
- (iii) Three Lidar based offshore wind measurement, off Tamil Nadu Coast are proposed to be set up, of which, two locations proposed at C1 and C2 are in Ramanthapuram District. Both are at about 19 km (10.5 NM) from the LTL and falls under CRZ IVA category as per CRZ notification, 2011. The third location A1 will be in offshore in Tuticorin District, at a distance of about 31.16 km (16.83 NM) from LTL and falls beyond CRZ jurisdiction.
- (iv) All the three locations have been carefully selected so that no coral beds are not disturbed. The locations of the three locations are as follows:

S. No	Zone	Latitude (N)	Longitude (E)
1	C1	9° 1'30.20"N	79°19'27.00"E
2	C2	8°57'48.51"N	78°49'14.74"E
3	A1	8°46'17.66"N	78°25'11.78"E

- (v) The proposed installation of third LiDAR based offshore structure (Zone A1) for Wind Measurement in Gulf of Mannar (Lat: 8°46'17.66" N, Lon: 78°25'11.78.66" E) if 31.16 km away from Thoothukudi City i.e. 16.83 nautical miles from the LTL to sea side.
- (vi) All the three structures will be set up such that they do not fall in navigational routes of ships.
- (vii) The total cost of the project will be Rs. 5.5 crores.
- (viii) The Tamil Nadu Coastal Zone Management Authority has recommended the above proposal for clearance vide their letter No. 17.98/EC.3/2019-1, dated 16.10.2019.

2. The Committee in the said 226th meeting had noted that the latitudes and longitudes of Lidar based offshore wind measurement locations at C1 and C2 as mentioned in the report of NCSCM, Chennai and the information on its location provided seem to differ slightly and therefore decided that the CRZ maps showing the distance of the Lidar zones in the context of CRZ jurisdiction may be re-examined and re-verified. The Committee further noted that perhaps only C1 may fall under CRZ jurisdiction.

3. The Committee had further observed in the said 226th meeting that in so far as the CRZ angle is concerned, it recommends the proposal for CRZ clearance, as such a project is in national interest and no irreversible damage would likely be caused to the marine ecology by such installations. The Committee finally decided that upon verification of the location of C1 and C2 in the context of CRZ jurisdiction, the CRZ clearance as may be necessary may be processed for clearance by the Ministry.

4. On submission of the above document the matter was again placed for reconsideration and the Committee noted that the NCSCM has confirmed that the LiDAR locations of C1 and C2 falls at about 10.6 NM and 11.6 NM from the nearest low tide line. The Committee

therefore decided that it stand by its earlier recommendation for CRZ clearance and agreed that necessary clearances made be processed by the Ministry.

3.2 Proposal for mining of heavy minerals at IREL NK Block IV having an area of 40,566 Ha, in Alappad and Panmana Villages, in karunagapally Taluk, in Kollam District, Kerala by M/s IREL (India) Ltd.[IA/KL/CRZ/115285/2019][F.No. 11-36/2019-IA.III]- CRZ Clearance - reg.

The proposal of M/s IREL (India) Ltd was earlier considered in the 226th meeting held on 23.10.2019, wherein, the project proponent made a presentation and had provided the following information to the Committee:

- (i) IREL is having a capacity to produce 2 lakh tons of Ilmenite and associated minerals per annum but, due to shortage of raw sand, IREL currently is able to supply less than 50% of its capacity.
- (ii) IREL has been granted renewal of lease forming of heavy mineral sand at NK Block IV (Panmana and Karunagapally) in Kollam district, having a lease area of 40.566 ha vide G.O (MS) No 22/2005/ID, dated 22/02/2005, which was valid upto 2010. Subsequently the period of lease was extended till 28.02.2020 vide G.O (MS) No. 32/2006/ID, dated 15.03.2006 issued by the Government of Kerala.
- (iii) The plot lies between Latitude 09°02' 15.8" to 09°02' 16.8" & Longitude 76°30' 31.9" to 76°30' 34.0" (Toposheet No.58 C/8, C/12, D/9). A village road connects the Block IV to Karunagapally junction situated in NH 66 at a distance of 4km from the northern end of the block. The site office is located adjacent to the Southern side of site in block IV EE and it is located at a distance of 5.47Km from NH66. The nearest railway station is Karunagapally is situated at a distance of 6Km from the block.
- (iv) IREL (India) Limited and Kerala Minerals and Metals Ltd (KMML) are the only two major industries in this area. The area is barren land with sandy soil with isolated no-yielding coconut plantation. No rare or endangered species were observed during our terrestrial and ecological survey.
- (v) The present proposal of IREL is for mining capacity 8,36,732 TPA, which includes 87000 TPA from replineshable source as recommended by NCESS and maximum inland mining in the area is 7,49,732 MT. The mining plan for the plot covering this lease area was approved by Atomic Minerals Directorate (AMD) vide AMD Approval No. AMD/MRG/IREL – CHAVARA/MP/102.77Ha, dated 17.09.2019.
- (vi) The balance reserves of minable area as on 01-04-2019, in the inland area based on prospecting by AMD is around 27.31 lakh MT The average depth of the deposit is 7.7m and the average grade is 43.39%.
- (vii) The Lease area consists of CRZ I(A), CRZ I(B), CRZ III, CRZ IV. The seasonal beach and other intertidal zones are in CRZ IB. Mangrove vegetations are present as small isolated patches on the banks of backwater/canal and these belong to CRZ IA. As these rare minerals are available only in the CRZ area, mining of these minerals are permitted within the Coastal Regulation Zone notification under the section 3(x)(iii)(c), 4(ii)(g), para 8 I (ii) (h) of the CRZ notification, 2011 as amended in 2017.
- (viii) As per the mine plan the total area of this block (NK Block IV) under this lease is about 40.566 Ha of which 18.21 Ha is for inland mining and 2 Ha for beach washing minable. This available land includes seawall, statutory barrier, sensitive locations like temple (Kochochira Sree Sankaranarayana temple, St. Sebastian Church, Sri Yogeewara Temple), school (Pandarathuruth LP School) etc.

- (ix) The proposed method of mining will be: (a) Inland mining by using dredger / Tipper HEMM combination; and (b) Beach wash collection. In the inter-tidal area only manual mining will be carried out.

(a) *Inland mining by using dredger / Tipper HEMM combination*

- The beach sands inland deposits in CRZ-III area will be mined by open cast method mining by using dredger/Tipper HEMM combination (7,49,732 tonnes).
- No development work is required here. There is no over burden.
- The equipment used for dredging is cutter suction dredge. The dredge has a working length of 30 meters and width of 14 m and can dredge upto a depth of 8 mts. The unit contains a concentrator plant where the separation is through physical process and no chemicals are used. The semi mechanized mining includes simultaneous refilling of mined area using tailings from concentration plant.
- In some areas of NK Block IV, mining operation cannot be carried out by dredging because of restricted/ small extent of land. For operation of dredge, continuous availability of land having an extent of 4 to 5 Ha is required. Since the area is thickly populated and land acquisition is a big challenge, wherever sufficient land is not available, surface mining by deploying excavators is done up to a depth of 8 meter and the excavated material is collected and transported to the plant.
- Surface mining usually renders the land unsuitable for other uses unless it is restored or rehabilitated. The simultaneous refilling of the mine in progression with mining. After the recovery of HM concentrates the reject sand is used for refiling the mined out area. As the back filling is integrated into the mining process, the excavated land will be subsequently reclaimed and the ground surface of the reclaimed land will be brought back to the contours matching with the surrounding topography. No temple or any sensitive locations will be disturbed. The reclamation will improve the overall landscape considerably. in a phased manner by green belt development and ponds for water conservation and ground water recharge, to improve the water quality / quantity. It will also be a sustainable source for water, availing infiltration of water where ever feasible.

(b) *Beach wash collection*

- Beach washing will be limited to *87,000 tons per year* as recommended by National Earth Science Studies(NCESS). The minerals mined by beach washing collection are replenished by the sea. Hence this reserve is not depleted.
- Beach washing from the Beach front is collected manually and heaped near the beach The heaped sand is loaded and then transported to the plant at the site.
- The sand collected from the mining using Tipper- HEMM combination and by the beach was collection is transported to mini separation plant at the site and the upgraded mineral sand is transported to the stockyard of the Mineral separation plant located at Chavara which is at a distance of 18 km from the project site.
- The families residing in the ML area are ready to vacate provided they are given suitable compensation. The R & R scheme has been formulated after

tripartite discussion between district administration, affected people and project authorities. The scheme has been approved by district authorities.

- As a measure of coastal protection, constructing a groyene field of 4 nos. over a length of 700 meters in the southern end of the lease area.
 - In this project there is no scope for development of green belt as the it is proposed to return back the land to owners after mining. However, coconut plantation will be setup in the refilled land before giving it back to the land owners.
 - Another positive outcome of the proposed activity is that the mining out of sand and separation of HM concentrates eventually contributes to a reduction in the overall level of radiation in the environment which is a relief to the inhabitants in the area.
 - Post project monitoring system will be setup, which will ensure that the mitigation measures planned by way of environmental protection, function effectively during the entire period of mining and reclamation. These include (1) Meteorological Observatory (2) periodic topography survey (3) Measures for coastal protection & it's monitoring (4) Water resource management (5) Socio economic development (6) Green belt development (7) Occupational health and biological monitoring (8) Radiation exposure monitoring (9) Organizational set up and staff requirement for post project monitoring .In addition to this a separate environmental monitoring committee (EMC) is recommended comprising senior officers, external experts and representative of the Alappad, Panmana panchayat to ensure implementation of recommendations as per the EMP.
- (x) The total cost of the project will be Rs. 15 crores including an amount of Rs.180.50 lakhs will be required for post project monitoring initially which include capital and recurring expenditure.The recurring expenditure will be about Rs.131.50 lakh /year.
- (xi) Kerala Coastal Zone Management Authority has recommended the above proposal for clearance vide their letter No. 2424/A1/2019/KCZMA, dated 15.07.2019.

2. The Committee in the said 226th meeting had desired for the following information /documents for its examination before the proposal is recommended for clearance from CRZ perspective:

- i) *A strategy for beach nourishment after mining, clearly indicating sustainable mining plan of action including break-up of mining in inter-tidal and non-intertidal CRZ areas.*
- ii) *A revised marine conservation plan including the accretion and erosion data upto 5 km upstream and downstream of the project site and likely impact on live sand in the proposed mining area.*
- iii) *Appropriate financial allocation as per the Office Memorandum issued by the Ministry, dated 01.05.2018, on CER, for activities to be undertaken under CER shall be earmarked and detailed plan of action shall be submitted.*

3. On submission of the above documents the matter was again placed for reconsideration. The Committee noted the changes made pursuant to the last deliberations and noted that IREL proposes to mine 87,000 TPA in inter-tidal zone of CRZ area in addition to 7,49,732 TPA inland mining as per mining plan approved by AMD. The Committee

observed that the accretion and erosion data, and the resultant beach nourishment strategy etc. are based on report prepared by NCESS in 2002, which is old and may not be in consonance with present scenario. The report therefore needs to be updated by a reputed agency like NCESS, based on at least one season data of erosion and accretion upto 5 km upstream and downstream of the project site. The Committee also observed that beach nourishment cannot happen simultaneously with mining activity and therefore the accretion and harvesting ratio is a paramount importance for better appreciation of the strategy being evolved for beach nourishment. The Committee further observed that a sound mitigation measures for control of erosion arising due to mining along the beaches shall be framed.

4. The Committee finally observed on submission of the above mentioned studies/documents the matter can be taken up for reconsideration. Accordingly, the proposal was deferred.

3.3 Proposal for release of treated wastewater from fish meal and fish oil manufacturing plant at Kius, Taluka Vengurla, District Sindhudurg, in Maharashtra by M/s Akash Fish Meal & Fish Oil Pvt. Ltd. [IA/MH/CRZ/10735/2019][F.No. 11-29/2019-IA.III]- CRZ Clearance reg.

The proposal of M/s Akash Fish Meal & Fish Oil Pvt. Ltd was earlier considered in the 224th meeting held on 24.09.2019, wherein, the project proponent had made a presentation and provided the following information to the Committee:

- (i) The proposal is for release of 400 CMD treated wastewaters into the coastal waters off Kelus-Khavan-Nevti, Taluka Vengurla, District Sindhudurg, in Maharashtra due to future production capacity enhancement within installed capacity.
- (ii) The treated wastewaters will be released through underground HDPE pipes (2 nos.) having diameter of 110 mm and 90 mm diameter (second one as standby) wherein, the distance from the ETP to the Land fall Point (LFP) is about 2.024 km and that of disposal point 6.1 km from LFP.

S. No	Aspect	Remarks	Classification of zones
1.	Fish Processing Plant	Located beyond 500 m of CRZ boundary	Does not attract CRZ legislation
2.	Part of Effluent Carrying Pipeline	Within 500 m CRZ boundary	CRZ III
3.	Part of Effluent Carrying Pipeline – Land Fall Point to Out Fall Point	--	CRZ IB & CRZ IV

- (iii) Coastal area Khavne-Kelus-Nevti is a traditional fishing zone and supports moderate demersal fishery.
- (iv) The fresh water requirement is estimated to be 275 CMD and sourced from bore wells within company premises & from nearby villages.
- (v) The total effluent generated is about 400 CMD. Full-fledged in house ETP of 400 CMD designed for Carbon plus Nitrogen removal, four stages in aeration tank to ensure BOD reduction, Nitrification & Denitrification process.
- (vi) The total cost of the project would be Rs.50 Crores.
- (vii) Total employment generated will be 250 direct and 500 indirect (mostly fishermen).
- (viii) The Maharashtra Coastal Zone Management Authority has recommended the above proposal for clearance vide their letter No. CRZ 2018/CR 302/TC 4, dated 18th June, 2019.

2. The Committee in the said 224th meeting had desired that a site visit shall be carried out by a Sub-Committee comprising of Shri N K Verma, Member (EAC), representative of the Ministry / CPCB and representative of the MPCB or MCZMA and submit a report at an early date.

3. The site visit was undertaken on 08.11.2019 and the report was placed before the Committee for its consideration. The Committee deliberated the findings of the site visit and noted that the effluent generated from fish meal manufacturing plant consist of high ammonical nitrogen content and therefore recommended for a physio-chemical treatment of effluent followed by existing biological treatment. The Committee agreed that the said recommendation is purely for better efficiency of ammonical -nitrogen removal and is a practical solution and in particular for the unit. The Committee also observed that a fish pond of adequate capacity (preferably more than 15 days' detention period if possible) shall be constructed at the end of biological treatment. It was also observed that the treated effluent from the fish pond can be utilized for gardening /irrigation and access (if any) may be led to the natural drain system during rainy season. The Committee agreed to the request of the project proponent for allowing installation of a pipeline after the fish pond on the condition that before its erection/laying, the project proponent shall inform both the regional Office of the Ministry and the MCZMA. The Committee also decided that the treated effluent quality shall be regularly monitored and its data submitted to the regional Office of the Ministry and the MCZMA from time to time.

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

- i) Treatment of waste effluent shall be only through a physio-chemical treatment followed by biological treatment system.
- ii) A fish pond shall be constructed after the biological treatment system.
- iii) Effluent discharge pipeline shall be constructed only after the fish pond.
- iv) No excavated material during the construction shall be dumped in water bodies or adjacent areas.
- v) No groundwater shall be extracted to meet with the water requirements during the construction and/or operation phase of the project.
- vi) As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III, dated 01May, 2018, and proposed by the project proponent, an amount of Rs.1.0 crores 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.

FRESH PROPOSALS

3.4 Proposal for laying of effluent disposal pipeline of Dombivali MIDC Industrial Area, in district Thane, in Maharashtra by M/s Maharashtra Industrial Development Corporation (MIDC) [IA/MH/CRZ/119951/2019] [F.No.11-46/2019-IA.III]- CRZ Clearance reg.

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

- (i) MIDC (Dombivali) Industrial Area operates in two phases viz. Phase-I and Phase-II. The CETP of 16 MLD capacity was in operation since 2001. Presently, industrial liquid waste from Phase-I development is released through Khambalpada Nallah.
- (ii) The existing pipeline of 1550 m is laid down from ETP to Thakuli railway bridge and is presently discharged into Ulhas Creek.
- (iii) MIDC proposes to extend pipeline 7.5 km into the Ulhas Creek. The proposed HDPE Marine outfall pipeline of Dombivli MIDC (MMR ZONE - II) will be laid from Thakurli Railway Bridge to Ulhas estuary (outfall point). The proposed location falls in CRZ- I B (approx. 400 m from starting point) and CRZ-IVB water area of the Ulhas Creek.
- (iv) The total length of pipeline from shore to deep sea/creek will be 7.5 km. The width of excavation will be 2 m and depth of excavation from existing sea bed will be 2.3 m.
- (v) The depth of outfall point from surface of water will be approximate 9-10 m below and depth of water at disposal point will be 12 m (on river bed).
- (vi) Requirement of water is about maximum 20,000 Lit/day. No ground water extraction in will be carried out in CRZ.
- (vii) The employment likely to be generated during construction phase and as well as operational phase. During construction phase 60 persons will be employed and 4 persons will be employed during operational phase.
- (x) The total cost of the project is about Rs. 68.93 crores.
- (ix) The Maharashtra Coastal Zone Management Authority has recommended the above proposal for clearance vide their letter No. CRZ 2019/CR 161/TC 4, dated 25th October, 2019.

2. The Committee noted that due to increased pollution in Ulhas River, the Hon'ble NGT had directed MPCB in OA No. 148/2017 (WZ) vide Order dated 27.07.2017, to devise an integrated and holistic action plan for effluent management system in Dombivali Industrial Area. In compliance to the above order, MIDC has now proposed to dispose the effluent at designated location so as to minimize the impact on ecology of the Ulhas River. The Committee also took note that CSIR-NIO conducted field studies in respect of physical processes, water quality, sediment quality and flora and fauna in the Ulhas estuary and has suggested for release of the treated effluent at the designated site 19°12'24" N and 73°03'56" E with initial jet velocity of 3 m/s. The Committee further observed that the proposed pipeline of ETP will be constructed from Thakurli Railway Bridge to 7.5 km inside the Ulhas River. The Committee was also informed that there will be no destruction to Mangroves during construction and operation.

3. The Committee observed that there seems no alternative option other than the suggestion of the new location point at 19°12'24" N and 73°03'56" E suggested by NIO. The Committee observed that Ulhas Creek and Thane Creek are in a pitiable state and MIDC shall be mindful of the treated effluent quality released from its ETPs located in the region. The Committee therefore decided that MIDC shall ensure regularly get the water quality of Ulhas Creek at its present location and the proposed new location of discharge, monitored quarterly by an independent agency like NIO, NEERI, IIT etc. and submits its findings to the

MCZMA/MPCB and regional office of the Ministry for its observation and needful action. The Committee further observed that MIDC shall ensure that the treated effluent discharge is strictly as per norms specified by CPCB/SPCB.

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

- i) MIDC shall ensure regularly get the water quality of Ulhas Creek at its present outfall location monitored and shall also keep a data base of the quality of the proposed new location of discharge before completion of the proposed pipeline.
- ii) MIDC shall rope in an independent agency like NIO, NEERI, IIT etc. for getting the quality of the effluent discharge monitored and submits its findings to the MCZMA/MPCB and regional office of the Ministry for its observation and needful action.
- iii) MIDC shall ensure that the treated effluent discharge is strictly as per norms specified by CPCB/SPCB.
- iv) The location of new discharge effluent shall be strictly as per suggestion of NIO stated as 19°12'24" N and 73°03'56" E.
- v) No groundwater shall be extracted to meet with the water requirements during the construction and/or operation phase of the project.
- vi) No excavated material during the construction shall be dumped in water bodies or adjacent areas.
- vii) Any physical infrastructure setup during construction period shall be removed simultaneously with completion of laying of each segment of the project.
- viii) As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1st May, 2018, and proposed by the project proponent, an amount of Rs.1.37 crores i.e @2% of project Cost earmarked under Corporate Environment Responsibility (CER) to be deposited to Mangrove Foundation of Maharashtra who will use the funds for the purpose of improvement and monitoring of mangroves and its biodiversity in the region. 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 providing temporary walkways for the differently abled persons at Marina Beach of Triplicane and Mylapore Village, Mylapore Taluk, Chennai District by M/s Greater Chennai Corporation [IA/TN/CRZ/110978/2019] [F.No.11-1/2020-IA.III]-CRZ Clearance.

The proposal of M/s Greater Chennai Corporation is for providing temporary walkways for the differently abled persons at Marina Beach of Triplicane and Mylapore Village, Mylapore Taluk, Chennai District, Tamil Nadu. The project proponent made a presentation and provided the following information:

- (i) The proposed project is for providing temporary walkways for the differently abled persons at Marina Beach, Block No. 61, S.F. No. 3373 (Pt) of Triplicane Village and Block No 20, Mylapore Village, Mylapore Taluk, Chennai District.
- (ii) The proposed location falls in CRZ- IA.
- (iii) The walkways are proposed in two locations as per details are as follows: (a) behind Labour Statue (Length: 380 m and width: 3 m); and (b) behind Gandhi Statue (Length: 125 m and width: 3 m)

- (iv) The walkway will be of temporary nature and the materials for construction will comprise of marine wood and plywood. Recycled wood will be used for the walkway platform.
- (v) The design of the walkway shall be wooden framework with panels will be used in the landing decks and walkways, wooden sleepers will be placed in a parallel manner on the sand with a 1m spacing between each sleeper, wooden frames will be placed on the sleepers (laid in line with the existing natural slope of the beach) to support the walkway panels.
- (vi) The structure will be held together by hinges and compressive forces that play out between the timber framework and sleeper wood logs and the top panel shall comprise of a slip resistance & waterproof marine plywood. Wooden hand rails (1.2 m ht) will be provided on the sides for safety and support.
- (vii) The fresh water of about 1-2 KLD will be required during laying of walkways and will be sourced through private tankers. During operation phase, the fresh water will be sourced through the existing drinking water kiosk in the beach road.
- (viii) The total cost of the project is about Rs. 0.90 crores.
- (ix) The Tamil Nadu Coastal Zone Management Authority has recommended the above proposal for clearance vide their letter No. 9559/EC.3/2019-1, dated 20th June, 2019.

2. The Committee noted that the project is in public interest and no irreversible damage would likely be caused to the marine ecology or the CRZ characteristics of the beach by such temporary walkways meant solely for differently abled persons. The Committee further noted that recycled wood shall be used for walkway as committed by project proponent and desired that it must be ensured that the walkways shall not be allowed to be used as pathway for bicycles, bikes etc or any other uses besides what is specified. The Committee also decided that appropriate caution/Sign Board shall be put up for information of public.

3. The Committee also observed that perhaps such activities are to be taken up at the state level by the concerned agency like TNCZMA and the Ministry may examine the need for such cases being taken up at the centre. The Committee also observed that clearances of such nature in Maharashtra are given at the state level and the needful action may be done accordingly by the Ministry. Based on the deliberations held the Committee however recommended the project for CRZ clearance subject to the following conditions:

- (i) No construction material shall be dumped in the beaches
- (ii) No concrete structures shall be allowed in CRZ areas.
- (iii) Any physical temporary infrastructure setup for construction purpose of the walkways shall be removed simultaneously with completion of laying of each segment of the project.

3.6 Proposal for laying of pipeline for transportation of edible oil from Adani Hazira Port Pvt. Ltd. to Adani Wilmar Refinery at Shivarampur Village, in Surat district by M/s Adani Wilmar Limited [IA/GJ/CRZ/130737/2019] [F.No.11-2/2020-IA.III] - CRZ Clearance.

The proposal of M/s Adani Wilmar Limited is for laying of pipeline for transportation of edible oil from Adani Hazira Port Pvt. Ltd. to Adani Wilmar Refinery at Shivarampur Village, in district Surat, in Gujarat. The project proponent made a presentation and provided the following information:

- (i) The proposed edible oil (crude palm oil and crude soya bean oil) pipeline from Adani Hazira Port to M/s Adani Wilmar Refinery at Shivrampur Village will be for a length of about 12.53 km and diameter of the pipeline will be 14". The pipelines will be laid below ground and above ground depending on the need and situation. The length above ground pipeline will be 1.6 km and in the it will be about 0.9 km.
- (ii) The pipeline will pass through CRZ-IB (2423.001 m), CRZ-II (2212.293 m), NDZ of CRZ-III (1038.470 m), CRZ-III (299.061 m), CRZ-IVA (301.274 m) and Non CRZ area (6254.967m). No mangroves will be affected due to the laying of the pipeline.
- (iii) Total 3500 nos. foundation with piling and steel structure on RCC pedestal will be made to support the proposed pipeline. However, no piles will be in CRZ areas.
- (iv) Approximately 12,500 trees will be cut down. Stage-I Forest clearance has been obtained vide their letter No. 6JB038/2018-BHO, dated 2nd August, 2018.
- (v) Water of about 1400 m³ will be required one time and shall be sourced from tankers. Excavated materials of about 2700 m³ shall be used in pipeline siding.
- (vi) The total cost of the project is about Rs. 45 crores of the proposed pipeline.
- (vii) Consent to establish has been obtained from GPCB vide Letter No. GPCB/CTE-SRT-3477/ID-53020.
- (viii) The Gujarat Coastal Zone Management Authority has recommended the proposal for clearance vide their letter No. ENV-10-2018-212-E (T Cell), dated 30th November, 2019.

2. The Committee noted that the proposed pipeline project involves cutting of 12500 trees and there is no remuneration plan for the trees to be cut nor any afforestation plan. The Committee also noted that the Stage-I FC states that no trees shall be cut, whereas, it is proposed to cut 1200 number of trees. The Committee also noted that 5 m ROW is highly unjustified for a 14" pipe diameter and reducing the ROW will eventually lead to large reduction on unavoidable tree cutting too. The Committee also observed that the pipelines are proposed to be laid taking the easiest route through inter-tidal areas, a large length of which is avoidable if alignment of pipeline is taken along the side of the existing road as far as possible. The Committee further observed that the number of piers proposed to be constructed is too high and must be reduced drastically, especially in CRZ areas.

3. Based on the deliberations held, the Committee agreed that the project is premature for consideration in its present form and decided that the proponent shall first submit the following information /documents for reconsideration from CRZ perspective:

- (i) Revised layout CRZ map (1:4000 scale) from an authorized agency, indicating the revised pipeline alignment (alongside the existing road) as far as possible) and position of piers etc. due to the change in alignment of the pipeline shall be submitted.
- (ii) The revised proposal due to the change in alignment shall be got duly endorsed by the State Coastal Zone Management Authority thereafter.
- (iii) Reduced ROW shall be specifically stated and number of tree cuttings involved shall be calculated. While doing so, the type of tree and its number likely to be affected shall be provided.
- (iv) Number of trestles shall be recalculated pursuant to change in alignment and an undertaking that no trestles shall be made in the inter-tidal area shall be submitted.
- (v) Afforestation plan for remuneration of trees to be cut due to the proposed project in consultation with the State Forest Department shall be submitted.

- (vi) Appropriate financial allocation as per the Office Memorandum issued by the Ministry, dated 01.05.2018, on CER, for activities to be undertaken under CER shall be earmarked and detailed plan of action shall be submitted.

Accordingly, the proposal was deferred for reconsideration at a later stage.

3.7 Proposal for laying of three pipelines of 0.60 m dia from Ennore Coastal Installation to Ennore Tank Truck Private Limited/MLT2 Terminal with a branch to Earth Retaining Structure of M/s Kamajarar Port Ltd. by M/s Bharat Petroleum Corporation Ltd.[IA/TN/CRZ/129588/2019] [F.No.11-3/2020-IA.III]- CRZ Clearancereg.

The proposal of M/s Bharat Petroleum Corporation Ltd is for laying of three pipelines of 0.60 m dia.each from Ennore Coastal installation to Ennore Tank Truck Private Limited/MLT2 Terminal with a branch to Earth Retaining Structure of M/s Kamajarar Port Ltd.The project proponent made a presentation and provided the following information:

- (i) The proposed project is for laying of three pipelines of total length of 8,845.25 m of 0.6 m diameter from Ennore Coastal installation to Ennore Tank Truck Private Limited/MLT2 Terminal with a branch to Earth Retaining Structure of M/s Kamajarar Port Ltd. The spacing between each pipe line will be 0.3m.
- (ii) The pipeline will be laid underground in the entire stretch at about 1.2 m below the ground level. It will be laid under railway and road crossing by horizontal boring and at water body crossing like rivers and canal by Horizontal Directional Drilling (HDD) method.
- (iii) The pipeline will be externally coated with 3 layer Polyethylene Coating (LPE) to prevent corrosion and will be protected with cathodic protection.
- (iv) The proposed pipelines will pass through the CRZ areas as under:

S. No.	CRZ- Classification	Length (m)
1	CRZ-I A	263.35
2	CRZ-I B	424.35
3	CRZ-II	2,716.85
4	NDZ (CRZ-III)	101.33
5	200m to 500m (CRZ-III)	1192
6	CRZ-IV B	112.86
7	Non- CRZ	4,034.51
Total		8,845.25

- (v) The materials viz. Motor Spirit (MS), High speed Diesel (HSD) and Aviation Turbine Fuel (ATF) will be transported through the proposed pipelines. The pipelines design and standard is API 5LX52 and ANSI B 16.5.
- (vi) Periodical testing and maintenance will be as per OISD and PNGRB guidelines. Operating instructions and emergency shutdown (ESD) procedure will be made available.
- (vii) The total water requirement during construction will be 3 KLD, which includes 0.5 KLD for domestic use and 2 KLD for construction work and will be met out through tankers.
- (viii) The estimated power requirement will be 15 kVA met through TNEB/DG set in case of emergency.

- (ix) The sewage generated during construction phase will be disposed to septic tank and excavated materials generated will be totally reused in backfilling.
- (x) Solid waste such as glass, paper and metal etc., will be sold to recyclers and other inert waster will be disposed off through local facility.
- (xi) The employment likely to be generated is for 52 persons.
- (xii) The total cost of the project is about Rs. 102 crores.
- (xiii) The Tamil Nadu Coastal Zone Management Authority has recommended the above proposal for clearance vide their letter No. 20978/EC.3/2019-1, dated 9th December, 2019.

2. The Committee was also informed that there is no litigation/violation of environmental regulations and the proposal is a permissible activity under CRZ regulations. The Committee noted that a representation from an NGO has been received and the project proponent shall provide its written response as admissible in their case.

3. 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 erection project.
- iv) As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1st May, 2018, and proposed by the project proponent, an amount of Rs. 1.53 crores i.e @1.5% 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.

3.8 Proposed upgradation of Kerosene Hydro Treating Unit (KHIT) integrated with Diesel Hydrotreter (DHT) and associated facilities at BPCL, Mumbai Refinery by M/s BPCL [IA/MH/CRZ/130877/2019] [F.No.11-4/2020-IA.III]- CRZ Clearance.

The proposal of M/s Bharat Petroleum Corporation Ltd is for upgradation of Kerosene Hydro Treating Unit (KHT) integrated with Diesel Hydrotreter (DHT) and associated facilities at BPCL, Mumbai Refinery. The project proponent made a presentation and provided the following information:

- (i) BPCL's Mumbai Refinery (MR) have an area of 454 acres. The refinery was installed with the capacity of 12MMTPA.
- (ii) The production quantities of the products will not change; it will remain as given below:

S.	Product	Existing Production	Proposed
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No.		Quantity (MTPD)	Production Quantity (MTPD)
1.	LPG, Polypropylene Feed Stock	1,764	No Change
2.	Benzene, Toluene, Xytol	3,50	No Change
3.	Special Naphtha (SBP 55/115 ⁰ C), Hexane (FGH 64/69 ⁰ C), Motor Spirit (BS IV), MTBE, Naphtha	8,269	No Change
4.	Superior Kerosene, Mineral Turpentine Oil, Aviation Turbine Fuel	5,217	No Change
5.	High Speed Diesel (BS IV, Navy Grade), Light Diesel Oil	15,723	No Change
6.	HS Furnace Oil, Low Sulphur Heavy Stock, Bitumen, Sulfur	6,140	No Change
7.	Lube Oil Base Stock	6,80	No Change
8.	Hydro-Treated Gasoline	2,692.8	No Change

- (iii) The proposed project location falls in the CRZ-II area.
- (iv) The proposed activity for Installation of KHT Unit and integration with existing Diesel Hydrotreater (DHT) along with revamp of DHT unit within the existing refinery premises to reduce Sulphur content in Kerosene from existing 2500 ppm to < 10 ppm is highly recommended to improve fuel quality in terms of Sulphur content and thus, improve overall environmental status.
- (v) Water Requirement after installation of proposed project will remain unchanged from Existing Consented Limit of 176299 m³/day.
- (vi) Solid waste generation due to proposed configuration/ revamp is almost nil and also, no additional hazardous waste generation due to proposed activity is envisaged.
- (vii) The employment likely to be generated is for 300 persons in construction phase.
- (viii) The total cost of the project is about Rs. 425 crores.
- (ix) The Maharashtra Coastal Zone Management Authority has recommended the above proposal for clearance vide their letter No. CRZ 2019/CR 194/TC 4 dated 19th November, 2019.

2. The Committee noted that a new facility viz. Kerosene HydroTreating Unit (KHT) is proposed to be installed integrated with existing process plant (DHT) within the existing refinery area. *The Committee observed that as per the extant provisions of the CRZ Notification, 2011, setting up of new industries and expansion of existing industries is a prohibited activity in the CRZ areas and the instant proposal is not in the mandate of the EAC (CRZ) to adjudicate/consider for proposed modernization/addition of new facilities etc. Accordingly, the Committee decided that the proposal may be forwarded to the concerned sector for their observations.*

3.9 Proposal for laying of 12” dia. Pipeline passing through CRZ area (4.46 km in Gujarat & 6.22 km in Maharashtra) out of total pipeline length @12.6 km along with associated facilities for transportation of Natural Gas from Umargam, District Valsad, Gujarat to Gholvad, Maharashtra by M/s Gujarat Gas Limited- CRZ Clearance [IA/MH/CRZ/121306/2019] [F.No. 11-43/2019-IA III]- reg.

The proposal of M/s Gujarat Gas Limited is for laying of 12” dia. Pipeline passing through CRZ area (4.46 km in Gujarat & 6.22 km in Maharashtra) out of total pipeline length

@12.6 km along with associated facilities for transportation of Natural Gas from Umargam, District Valsad, Gujarat to Gholvad, Maharashtra. The project proponent made a presentation and provided the following information:

- (i) The proposal is for construction of an interstate pipeline of dia. 12 inch, which passes through Gujarat state for length approx. 4.46 km from villages Umargam, Dehri & Govada in Valsad District and in Maharashtra state for length approx. 6.22km from Zai, Bordi & Gholvad in Palghar District.
- (ii) Out of total length of 12.6 km of pipeline, proposed Gholvad Spur line passes through CRZ area for length approx. 10.7km in which 4.46km in Gujarat State and 6.22km in Maharashtra state.

From Ch.km	To Ch.km	Length (km)	CRZ	Total CRZ (Km)	State
0.000	0.4417	0.4415	CRZ III	4.46	Gujarat
1.4568	3.4731	2.0162	CRZ III		
3.8654	5.4712	1.6057	CRZ III		
5.4712	5.8674	0.3962	CRZ IA		
5.8674	8.5225	2.6551	CRZ III	6.22	Maharashtra
8.6790	12.2499	3.5709	CRZ III		
Total				10.7	

- (iii) The carrying capacity of the proposed pipeline is 1.29MMSCMD. The proposed pipeline will be laid underground with a cover of approx. 1.5 mtr. as per PNGRB Technical Standard & Specifications including safety guidelines and other applicable statutory standards like OISD and using best available technology.
- (iv) There will be no disturbance to any tidal influence water body/Creek area of Mangroves because of Horizontal Directional Drilling (HDD) method will be adopted at crossing of water body/river/creek.
- (v) Requirement of water is about maximum 15,000 Lit/Day during construction period and which comprises 2500 Lit/Day as Domestic water, and water uses during construction activities will be 12500 Lit/Day for firefighting & Process/ Hydro testing, washing & cleaning and Spraying for dust suppression.
- (vi) No major solid wastes except the soils from trenches and no hazardous wastes other than very marginal oils used for maintenance are envisaged from pipeline construction and operation activities.
- (vii) No waste water on continuous basis from pipeline operations is envisaged. The waste water generated during hydrostatic testing of equipment and pipeline is a temporary and one-time activity. The same water will be reused for multiple tests in other sections. The residual hydrostatic testing wastewater at the end of the test will be non-toxic and reused for gardening purpose.
- (viii) The employment likely to be generated is for 40 persons.
- (ix) The total cost of the project is about Rs. 11,100 per meter of the proposed pipeline.
- (x) The Maharashtra Coastal Zone Management Authority has recommended the above proposal for clearance vide their letter No. CRZ 2019/CR 5/ TC 4, dated 17th June, 2019.
- (xi) The Gujarat Coastal Zone Management Authority has recommended the above proposal for clearance vide their letter No. ENV-10-2019-5-E (T Cell), dated 2nd July, 2019.

2. The Committee was noted that the proposal is incomplete and statutory required CRZ Map indicating HTL and LTL, demarcated by one of the authorized agency in 1:4000 Scale

with the project layout superimposed on the above map is missing. The Committee therefore declined to considering proposal in its present form. *Accordingly, the proposal was deferred for consideration at a later stage upon submission of all requisite documents.*

3.10 Proposal for laying of intake and Outfall pipeline & SWRO for the proposed sea water Desalination plant at Kalapet Village, Puducherry by M/s Chemfab Alkalis Limited [IA/PY/CRZ/127456/2019] [F.No. 11-5/2020-IA.III]- CRZ Clearancereg.

The proposal of M/s Chemfab Alkalis Limited is for laying of intake and outfall pipeline & construction of a Desalination plant (SWRO) at Kalapet village, in Puducherry. The project proponent made a presentation and provided the following information:

- (i) The proposed project is for laying of intake and Outfall pipeline & SWRO for the proposed sea water Desalination plant of capacity of 2 MLD with construction area of approx. 2541 sq.m at Kalapet Village, Puducherry.
- (ii) The project site will be located at Latitude: 12° 1'37.49"N and Longitude: 79°51'35.12"E.
- (iii) The project location falls in CRZ-IB, CRZ-II and CRZ-IVA.
- (iv) The proposed desalination plant will have facilities like Intake & Outfall point, collection tank, RO system & other utilities.
- (v) Details of plant intake outfall will be as follows:

S.No.	Description	Phase-I (MLD)	Phase-II (MLD)	Total (MLD)
1	Seawater Intake	3.5	3.5	7*
2	RO Reject (Outfall)	2.5	2.5	5*
3	Permeate	1	1	2
*Note: Intake and outfall pipeline will be laid for withdrawal of 7 MLD of seawater and discharge of 5 MLD RO reject				

- (vi) The total requirement of water during construction phase is 2 KLD and 7 MLD during operation phase.
- (vii) Distance of intake from Sea to project site is approx. 1.2 km and outfall diffuser to project site is approx. 1.2 km. Distance between intake head and outfall diffuser is approx. 0.52 Km. Five diffuser ports will be at the outfall point with total discharge rate of 0.058 m³/s (5 MLD).
- (viii) The estimated solid waste generation during construction phase will be organic waste of 5.4 kg/day, collected and disposed to Municipal bins. Inorganic waste of 8.1 kg/day will be collected and disposed through authorized vendors. During operation phase, organic waste of 1.08 kg/day will be collected and disposed to Municipal bins and inorganic waste of 1.62 kg/day will be collected and disposed through authorized vendors.
- (ix) The total power requirement for desalination plant is 925 KW (1156 kVA). Power supply is from Puducherry Electricity Department.
- (x) Man power requirement will 30 numbers during construction phase and 6 numbers during operation phase.
- (xi) The total cost of the project is about Rs. 17.6 crores
- (xii) The Puducherry Coastal Zone Management Authority has recommended the above proposal for clearance vide their letter No. 6922/DSTE/PCZMA/CLR/SCI/2019/372 dated 25th September, 2019.

2. The Committee was also informed that the water intake will be at a depth of 8.6 m w.r.t CD with a flow rate of 0.081 m³/s and as per the model exercise carried out the ambient salinity is met relatively very close to the outfall point.

3. The Committee observed that the proposed 2 MLD SWRO desalination plant meets the water requirement for the Chlor alkali plant but can be enhanced so that nearby villages who are short starved of potable drinking water can be provided as part of CSR component by the project proponent. To this the project proponent stated that they have committed to supply drinking water for requirement of about 30,000 people in the nearby villages.

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

- i) No storage reservoir for sea water shall be permitted and only pipelines conveyance system shall be installed.
- ii) No groundwater shall be extracted to meet with the water requirements during the construction and/or operation phase of the project.
- iii) No excavated material during the construction shall be dumped in water bodies or adjacent areas.
- iv) The project proponent shall ensure that the temporary structures installed for laying of pipe lines are removed within one months of accomplishment of the work.
- v) As committed, drinking water for nearby villages shall be supplied as part of its CRZ activities.
- vi) As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1st May, 2018, and proposed by the project proponent, an amount of Rs. 0.35crores 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.

3.11 Proposed Construction of Resort on land bearing Gat No.553/2 & 555/2 area 2-71-10H at Kihim, Taluka Alibagh, District Raigad, Maharashtra by Shri Gautam Chand- CRZ Clearance [IA/MH/MIS/100354/2019] [F.No.11-18/2019-IA.III]-reg.

The proposal of Shri Gautam Chandis for construction of a resort on land bearing Gat No.553/2 & 555/2 area 2-71-10H at Kihim, Taluka Alibagh, District Raigad, Maharashtra. The project proponent made a presentation and provided the following information:

- (i) The proposed construction of resort on land bearing Gat No.553/2 & 555/2 area 2-71-10H at Kihim, Taluka Alibagh, District Raigad, Maharashtra is located between latitude 18^o43'23.739" N to 18^o43'29.997" N and longitude 72^o52'06.147" E to 72^o52'13.033" E.
- (ii) The area of the project is about 27,110.0 sqm with a proposed built-up area of 4,429.89 sqm.

- (iii) There are no national park or wildlife habitats falls within 10 km radial distance from proposed project site and no use of reserve forest land.
- (iv) The maximum height of the resort will be 9 m and FSI will be less than 0.33 and is under permissible limit under CRZ Notification 2011.
- (v) The proposed resort / holiday home required lodging for up to 140 guests, conference facilities, restaurants, sports facilities, swimming pools, and parking area.
- (vi) The project location falls in CRZ-III.
- (vii) Biodegradable (45 kg/day) and non-biodegradable (30kg/day) solid waste will be generated. Biodegradable waste will be composted using an organic waste converter machine. Other waste will be given to authorized agencies.
- (viii) During construction, the water requirement is estimated to be 25,000 litres per day (LPD), and will be sourced from tanker water suppliers. During operation phase, 20,000 LPD will be met from Gram Panchayat and rain water harvested.
- (ix) The energy requirement for the project is 1500 kVA during operation phase and 250 w during construction phase. It will be sourced from Maharashtra State Electricity Distribution Company Limited. One DG set of 500 kVA is proposed as standby.
- (x) The employment likely to be generated is for 150 persons.
- (xi) The total cost of the project will be about Rs. 10.66 crores.
- (xii) The Maharashtra Coastal Zone Management Authority has recommended the above proposal for clearance vide their letter No. CRZ 2015/CR 167/TC 4, dated 26th March, 2019.

2. The Committee was informed that project site is zoned as 'Recreation and Tourism Zone-1' as per MMRDA TPS-1484/2684/UD 5. dated 27th May, 1985 and resorts / holiday homes with FSI permitted up to 0.2 are permitted. The Committee took note water requirement for operation phase may be practically impossible to obtain only from tanker source and hence cautioned the project proponent that alternative sources like Gram Panchayat supplemented by a robust rain water harvesting system shall be put in place and reported to the regional office of the Ministry and the MCZMA/ MPCB.

3. The Committee further noted that an STP of 10 KLD is proposed to be established to treat 6 KLD of sewage and the treated wastewater is proposed to be reused/recycled. The Committee was also informed that 50 % of the power will be sourced by installing roof top solar panels during operation phase.

4. 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) A robust ground water harvesting system shall be put in place and alternative source, other than tanker water supplies, for water requirement including commitment from the Gran Panchayat shall be reported to the regional office of the Ministry and the MCZMA/ MPCB.
- iii) 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 of resort.
- iv) As committed by the project proponent, 50% of the power requirement shall be sourced by installing roof top solar panels during operation phase.

- v) The project proponent shall ensure that the guidelines for building and construction projects issued vide this Ministry's OM No.19-2/2013-IA.III dated 9th June, 2015, are followed to ensure sustainable environmental management.
- vi) As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1st May, 2018, and proposed by the project proponent, an amount of Rs. 0.21 crores 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.

4.0 Any other item with the permission of the Chair.

4.1 Development of Multi Cargo Port with supporting utilities and infrastructure facilities at Hazira, Surat, Gujarat by M/s Hazira Infrastructure Pvt. Ltd [F.No. 11-150/2010-IA.III]-Extension of validity of CRZ clearance

M/s Hazira Infrastructure Pvt. Ltd was accorded CRZ clearance for the development of Railway connectivity and HT Power Transmission line for multi Cargo Port at Hazira, District Surat, Gujarat vide this Ministry's letter No. 11-47/2012-IA.III, dated 26.10.2012.

2. The Committee was informed by the project proponent that the project was initiated in 2012 and the construction of HT power transmission line has been completed. The Committee took note of the fact that the power requirement of Hazira Port is met through this HT line only. The Committee was also informed that delays in other statutory permissions resulted in non-feasibility of identified land corridor for railway track (from Kawas Cabin to main line of Western Railway), as it has undergone civil and commercial development. Now it is proposed to develop rail line from Kawas cabin to main line of Western Railway on existing rail corridor of M/s KRIBHCO's established under Non-Government Railway (NGR) policy of Indian Railways.

3. The Committee observed that amendment in the CRZ Notification issued vide S.O. 1393 (E), dated 03.05.2017, clearly states that the clearance accorded to the project shall be valid for five years from the date of issue of the clearance for commencement of construction and operation. The Committee further observed that since apart of the project has been completed, the clearance dated 26.10.2020 hold valid as per the extant provisions of the CRZ Notification and there is no legal requirement for its extension of its validity. The Committee therefore decided that the request is not necessary and the project proponent may only submit a written undertaking to the effect that substantial part of the project was initiated in 2012 and HT line which forms part of the CRZ clearance has been completed within the validity period as stated by them.

4.2 Proposed six laning of the existing Kozhikode Bypass (Calicut Bypass) (i.e. Vengalam Jn to Ramanattukara Jn) section of NH 17 (new NH 66) of length 28.04 km in Kerala by M/s National Highways Authority of India [F.No.11-6/2020-IA III] [IA/KL/CRZ/134144/2019] - CRZ Clearance

The proposal of M/s National Highways Authority of India is for six laning of the existing Kozhikode Bypass (Calicut Bypass) (i.e. Vengalam Jn to Ramanattukara Jn) section of NH 17 (new NH 66) of length 28.04 km in Kerala. The project proponent made a presentation and provided the following information:

- (i) The proposed road is for six laning of the existing Kozhikode Bypass (Calicut Bypass) and will start near Vengalam Junction on NH-66 Km 230.400 (Design Chainage) and ends in Ramanattukura Junction Km 258.800 (Design Chainage). The length of the project road is 28.4 km.

Description	Project Details
<i>Lane Configuration</i>	6 Lane Divided Carriageway with Service Road
<i>Right of Way (RoW)</i>	45 m
<i>Intersections</i>	40 (Grade Separated: 14 & At Grade intersection: 26)
<i>Culverts</i>	103 (Pipe, Slab, Box)
<i>Major Bridges</i>	4
<i>Minor Bridges</i>	1
<i>Grade Separators</i>	Flyovers: 8, VOP: 2, LVUP: 4 and PUP: 16
<i>Project Facilities</i>	34 Bus Shelters

- (ii) The project road will cross four rivers viz. River Korapuzha, River Akalapuzha/Purakkattiri, River Mampuzha, River Arapuzha and a canal etc. Bridges are proposed for these waterway crossings. The project road requires diversion of mangrove/wetland areas of 1.59 Ha.

River crossing	Area of required				
	CRZ-IA	CRZ-IB	CRZ-II	CRZ-III	CRZ-IVB
Korapuzha	10.9 m ²	497.21 m ²	Nil	9202 m ²	16540 m ²
Purakkattiri	5.11 m ²	331.8 m ²	4373	4262 m ²	3772 m ²
Arapuzha	Nil	269.4 m ²	Nil	9126 m ²	11190 m ²
Total	16.01 m²	1098.41 m²	4373 m²	22590 m²	31502 m²

- (iii) The proposed road starts at design chainage 230.400 and will cross River Korapuzha from design chainage Km 232.540 to 233.120 which falls in CRZ area. Length of project road within CRZ area is about 580 m. A major bridge is proposed for crossing the CRZ area.
- (iv) The proposed road will cross River Akalapuzha/Purakkattiri from Design Chainage Km 235.240 to 235.530 which falls in CRZ area. Length of project road within CRZ area is about 290 m. A major bridge is proposed for crossing the CRZ area.
- (v) The proposed road will cross River Arapuzha from Design Chainage Km 254.640 to 255.090 which falls in CRZ area. Length of project road within CRZ area is about 450 m. A major bridge is proposed for crossing the CRZ area.
- (vi) The proposed road will cross River Mampuzha at Design Chainage Km 250.720, but it doesn't fall in CRZ area as per the Approved Coastal Zone Management Plan of Kerala.
- (vii) The above proposed development in CRZ areas are at CRZ-IA, CRZ IB (intertidal area), CRZ-II, CRZ-III & CRZ-IVB as per the CRZ Notification, 2011.
- (viii) 30 rain water harvesting structures have been proposed along the project road.

- (ix) Lined drains proposed along the entire project road by providing culverts, bridges for the river/Nala/stream crossings.
- (x) Project proponent submitted that 1.59 ha of mangrove/wetland is likely to be affected.
- (xi) The cost of the project is 1710 crores. It also includes the cost of land acquisition.
- (xii) The Kerala Coastal Zone Management Authority has recommended the proposal vide its letter no. 2666/A1/2019/KCZMA dated 21.01.2020.

2. The Committee noted that the instant proposal of six lane Bypass for 28 Kms along NH-66 (earlier NH-17) has proposed only a 45 ROW which is very compact and desirable. It was also noted that about 1.59 ha of mangroves may be affected out of total areas of 5.957 ha of CRZ area involved.

3. The Committee observed that the project proponent shall make all efforts to reduce mangrove cuttings and shall ensure 3 times mangroves plantation in consultation with the concerned agency in the state. 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 of bridge.
- (iii) Temporary structures raised for construction activity shall be removed within one month of completion of construction activity.
- (iv) Mangrove afforestation shall be undertaken in consultation with the Forest Department.
- (v) Flow of natural tidal water to mangroves should remain un-affected and thus adequate measures to be provided to maintain un-interrupted tidal water to mangroves.
- (vi) As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1st May, 2018, and proposed by the project proponent, an amount of Rs. 34.2 crores 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.

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