

MINUTES OF THE 190th MEETING OF EXPERT APPRAISAL COMMITTEE FOR PROJECTS RELATED TO COASTAL REGULATION ZONE HELD ON 8th MAY, 2018 AT INDIRA PARYAVARAN BHAWAN, MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE, NEW DELHI

The 190th Meeting of the Expert Appraisal Committee for projects related to Coastal Regulation Zone was held on 08.05.2018 at Brahamputra Conference Hall, Vayu Wing, First Floor, Indira Paryavaran Bhawan, New Delhi. The members present were:

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| 1. | Dr. Deepak Arun Apte | - | Chairman |
| 2. | Dr. V.K Jain | - | Member |
| 3. | Shri T.P. Singh | - | Member |
| 4. | Dr. N.K Verma | - | Member |
| 5. | Shri. Prabhakar Singh | - | Member |
| 6. | Dr. Mohan Singh Panwar | - | Member |
| 7. | Shri. N.K. Gupta | - | Member |
| 8. | Smt. Bindu Manghat | - | Member |
| 9. | Dr. Manoranjan Hota | - | Member |
| 10. | Shri Arvind Nautiyal | - | Member Secretary |

Dr. M.V. Ramana Murthy, Dr. Asha Ashok Juwarkar, Dr. Anil Kumar Singh, Shri. Narendra Surana, Dr. Mohan Singh Panwar, Dr. Anuradha Shukla and Shri Sharad Chandra were absent.

Also in attendance: Shri W. Bharat Singh, 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 minutes of the 188th meeting are in order confirmed the minutes.

3.0 CONSIDERATION OF PROPOSALS:

RECONSIDERED PROPOSALS:

3.1 Setting up of 400 MLD capacity desalination Plant based on Sea Water Reverse Osmosis at Perur, East Coast road, Chennai, Tamil Nadu by Chennai Metropolitan Water Supply and Sewerage Board - [F.NO.11-37/2016-IA.III] - CRZ Clearance reg.

The proposal of M/s Chennai Metropolitan Water Supply and Sewerage Board for Setting up of 400MLD capacity desalination Plant based on Sea Water Reverse Osmosis at Perur, East Coast road, Chennai, Tamil Nadu, was earlier considered in the 165th Meeting of the Committee held on 16-17 January, 2017 and 179th meeting of the Committee held during 28th November, 2017.

2. In the 165th Meeting the EAC had raised a query why the both plants i.e 150 MLD proposed at about 600 m away from the instant proposed 400 MLD plant cannot be installed at the same location. The Committee also wanted to know the financial as well as environmental implications of two separate units against one single unit with 600 MLD capacity, Impact of shoreline change needs to be performed and fresh recommendations from the TNCZMA. The matter was again taken up in the 179th meeting, wherein, the Committee had decided that a team will undertake a site visit and then only the instant proposal shall be taken up for re-consideration on receipt of site visit report.

3. The proposal was again taken up in the meeting and the recommendations and findings of the site visit was placed before the Committee. The Committee accepted the site visit report. The Managing Director and Superintending Engineer of CMWSSB were present in the meeting. A presentation was also made and the following information were provided:

- i) The proposed project is for setting up of a 400 MLD Desalination plant involving laying of sea water intake pipeline, outfall pipeline, construction of seawater intake head and outfall diffuser along with intake sump and a pump house.
- ii) The proposed project is aimed at augmentation of drinking water supply in the southern and western parts of Chennai city with no perennial source of surface water.
- iii) The site is located at Eastern side of East Coast Road (ECR) at 12^o 42' 44" N, 80^o 14' 26" E is approximately 40 km south from the city.
- iv) Two intake structure at 10 m depth and two intake pipe each of 2500 mm dia. of HDPE will be set up. The sea water intake head will be located at a distance of about 1150m from the shoreline at 10 m depth.
- v) The outfall will be a single pipeline of 2500 mm dia HDPE. The outfall diffuser will be located at 750 m distance from the shoreline at 8 m water depth.
- vi) For Reverse osmosis two permeate storage tanks will be used.
- vii) The seawater of 47791.66 m³/hour will be drawn from the sea and about 31125 m³/hour of brine reject will be released into the sea.
- viii) The proposed project site is located in CRZ- III and CRZ- IV as per CZMP.
- ix) CRZ map indicating HTL, LTL demarcation in 1:4000 scale with the proposed desalination plant route superimposed on the map has been prepared by IRS, Anna University.
- x) The total power demand shall be 85 MVA. Source shall be Grid supply of TNSEB.
- xi) Majority lighting is LED, with street lightening proposed on Solar. Also VFD proposed with pumps for optimised uses.
- xii) The total Cost of the project will be Rs 3912.16 crores.
- xiii) The TNCZMA has recommended the project vide TNCZMA vide letter Nos. 844/EC.3/2016-1, dated 14.01.2016 and letter No. 24117/EC.3/2017-1, dated 09.01.2018.

4. The Committee observed that as recommended in the site visit report, the plant location shall be shifted further towards landward site. The project proponent agreed and stated that the plant site will be raised 6.5 m above the last level affected by Tsunami. The project proponent also reiterated that the proposed 150 MLD (located

about 600 m away) and 400 MLD capacities are being funded by two different external funding agencies and therefore the necessity to have separate entity. In addition, it was clarified that there is genuine requirement of the 400 MLD plant in addition to the 150 MLD Plant coming up at about 600 m away from the instant site, as Chennai city is starved of drinking water and the source of fresh water for the city is dwindling with passing year.

5. Based on deliberations held and clarifications made, the Committee recommended the project for CRZ Clearance subject to the following conditions:

- i) The project proponent shall implement the shoreline erosion control and management plan framed by the State government, as may be applicable in the area.
- ii) The project proponent shall submit an undertaking to the TNCZMA before commencement of work of the proposed plant stating that it shall bear full cost of environmental damage and restitution arising due to setting up of the proposed 400 MLD desalination plant.
- iii) 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.
- iv) The project proponent shall ensure that the structure proposed to be set up is Tsunami resistant.
- v) All the conditions stipulated by TNCZMA vide letter Nos. 844/EC.3/2016-1, dated 14.01.2016 and letter No. 24117/EC.3/2017-1, dated 09.01.2018 respectively, shall be strictly complied with as admissible.
- vi) Solid waste shall be collected, treated and disposed of in accordance with the Solid Waste Management Rules, 2016.

FRESH PROPOSALS:

3.2 Laying of pipelines for transportation and distribution of Natural Gas from Uran to Navi Mumbai by Mahanagar Gas Limited [F.NO.11-11/2018-IA.III]- CRZ clearance reg.

The proposal of M/s Mahanagar Gas Limited is for laying of 22.5 kms of pipelines for transportation and distribution of natural Gas from Uran to Navi Mumbai.

The project proponent made a presentation and provided the following information:

- i) Mahanagar Gas Ltd. (MGL) has its existing gas pipeline network in Mumbai, Thane, Mira road, Navi Mumbai, Taloja, Panvel, Badlapur, Ambernath, Dombivali and Kalyan areas.
- ii) Expansion work is in progress in Uran, Karjat, Khopoli, Alibaug, Khalapur etc of Raigad Area. MGL has its gas distribution pipelines network currently expanding in Uran (Raigad area).
- iii) The proposed pipeline laying for distribution of natural gas is geographically located at intersection of latitude 19° 0'5.00"N and longitude 73° 1'58.70"E.
- iv) The pipelines will be laid alongside the Uran highway.

- v) The total length of pipelines will be about 22.5 kms. A portion of pipeline will pass through CRZ area i.e., about 1.9 kms (1.5 Kms near Ulwe Gaothan and 0.4 mtrs through Panvel Creek, Belapur, Navi Mumbai). The proposed pipeline falls in CRZ-I (400 meter) and CRZ-II (1500 meter) area.
- vi) The pipeline will not pass through any mangrove areas.
- vii) The pipeline diameter will be 8" NB, 7.1 mm thick.
- viii) The pipelines will be laid along the road by open cut method and across the road and creek by HDD methodology.
- ix) The pipes shall be 3-layered polyethylene coated for corrosion protection and will be joined by butt welding.
- x) The total cost of the project will be Rs.9 crores.
- xi) The CRZ map indicating HTL, LTL demarcation in 1:4000 and 1:25000 scale with the proposed site superimposed on the map has been prepared by Space Application Research Centre, Ahmedabad.
- xii) MCZMA has recommended the project vide letter no CRZ- 2017/CR 265/TC 4, dated 04.01.2018.

2. The Committee was informed of a representation received from an NGO. The contents of the representation were discussed and the project proponent clarified the issues raised. The Committee observed that the observations are general in nature and the project proponent shall give its written comment to the Ministry for those which are specific to the instant project.

3. The Committee sought clarification from the project proponent regarding distance of the nearest point of the proposed pipeline network from the Karnala Wildlife Sanctuary. The project proponent clarified that the project site is 8.5 km from the sanctuary and the ESA of the sanctuary at the nearest point from the pipeline is at 2.2 kms.

4. Based on the deliberations and clarifications made by the project proponent, the Committee recommended the proposal for CRZ clearance subject to the following conditions:

- i) Pipeline should not be pass from the Navi Mumbai, Airport.
- ii) Solid waste shall be handled as per Wastes Management Rules, 2016.
- iii) The demolition debris shall be handled as per Construction and Demolition Waste Rules, 2016
- iv) Any hazardous waste generated shall be disposed of as per applicable rules and norms with necessary approvals of the State Pollution Control Board.

3.3 Construction of New Lighthouse and Inspection quarter at Kuthankuli, Survey No.467/29 in Thiruvambalapuram Village, Tirunelveli District, Tamil Nadu by Director of Lighthouse and Lightship [F.NO.11-13/2018-IA.III]- CRZ clearance reg.

The proposal of Director of Lighthouse and Lightship, is for construction of a New Lighthouse and an Inspection Quarter at Kuthankuli, Survey No.467/29 in

Thiruvambalapuram Village, Tirunelveli District, Tamil Nadu. The project proponent made a presentation and provided the following information:

- i) The project is aimed at felicitating the mariners and local fisherman to navigate safely in the Indian waters.
- ii) The proposed site is located at latitude 8° 13'23.43" N and longitude 77°46' 59.02" E to the east of Fathimapuram village.
- iii) The total plot area is 3213 m² and proposed built up area will be 429.16 m². The area available for landscaping is 2783.84 m².
- iv) The proposed development falls under the CRZ-I category as per approved CZMP.
- v) The CRZ map indicating HTL, LTL demarcation in 1:4000 scale with the proposed site superimposed on the map has been prepared by IRS, Anna University, Chennai.
- vi) The location of the lighthouse is 200 m away from the HTL and there are no vegetation cover around.
- vii) Rain water harvesting will be installed.
- viii) Total cost of the project will be about 8 crore.
- ix) The light house will be self-sustainable in terms of resources like water and energy during the operational phase.
- x) The TNCZMA has recommended the project vide letter no R.C No. P1/2894/2017 on dated 20.03.2018 and letter no 5764/ EC-3/2018 on dated 10.04.2018, respectively.

2. The project proponent proposes to construct staff quarters in addition to the light house and the Inspection quarter. The components of the project proposal received and placed for consideration by the Committee are as follows:

<i>Type of project</i>	<i>No. of Buildings</i>	<i>No of Floors</i>	<i>Height of Building</i>	<i>Area m²</i>	<i>No. of Rooms</i>
Lighthouse Tower	1	-	46 m	63.585	3
Power House cum Office	1	G	3.5 m	97.87	1
Inspection Quarters	1	G	3.6 m	88.97	4
N.A II quarters 1 st No.	1	G	3.6 m	60.813	4
N.A II quarters 2 nd No.	1	G	3.6 m	60.813	3
Rainwater harvesting Sump	-	-	-	57.11	-

3. The Committee observed that the area as depicted in the CRZ map is classified as CRZ-I and therefore only the light house and the inspection quarter can be considered. The Committee also felt that perhaps the classification is erroneous and the area may be CRZ-III. The issue was deliberated at length and it was decided that the project proponent shall construct the staff quarters at appropriate location in conformity with the extant CRZ regulations.

4. Based on the deliberations held and clarifications provided, the Committee recommended the proposal for light house and an inspection quarter for CRZ clearance subject to the following conditions:

- i) No ground shall be extracted for the project.
- ii) Rainwater harvesting system shall be installed as committed.

3.4 Construction of Golf Course and Beach Resort at Sy.No.1/P1,1/P2,1/P3,51/P1 & 52/P2 of Bengre Village, Mangaluru Taluk, Dakshina Kannada, Karnataka by M/s OPUS Laguna Golf and Resorts Pvt. Ltd. [F.NO.11-12/2018-IA.III] - CRZ clearance reg.

The proposal of M/s OPUS Laguna Golf and Resorts Pvt. Ltd. is for construction of a Golf Course and Beach Resorts at Sy.No.1/P1,1/P2,1/P3,51/P1 & 52/P2 at Bengre Village, in Mangaluru Taluk, Dakshina Kannada District, in Karnataka. The project proponent made a presentation and provided the following information:

- i) The proposed construction of Beach Resort and Golf Course is located at Sy. Nos. 1/P1, 1/P2, 1/P3, 51/P1 & 52/P2 at Bengre Village, Mangaluru Taluk, Dakshin Kannada, Karnataka.
- ii) Proposed project is the construction of Golf Course and Beach Resort.
- iii) This project will be developed on a plot of land measuring 135 Acres (5,46,326 Sq.m).
- iv) Proposed Beach Resort will comprise of following components with a total built up area of 43,251 Sq.m:
 - a) Resort (140 units)
 - b) Convention Hall
 - c) Spa
 - d) 15 Nos. of cottages
 - e) Golf Club Building
- v) The FSI ratio will be as per the MUDA rules.
- vi) A total of 516 nos. of vehicle parking is required.
- vii) The project site falls under CRZ-II.
- viii) The CRZ map indicating HTL, LTL demarcation in 1:4000 scale with the proposed cabling route superimposed on the map has been prepared by IRS, Anna University, Chennai.
- ix) The water requirement of 130 KLD for the project will be met from Mangalore City Corporation Water supply.
- x) Wastewater will be treated in the compact STP of capacity 115 KLD. The treated water from the STP will be reused for landscaping of golf course area and flushing thus making it a zero discharge project.

- xi) Rainwater harvesting of 820 cum. optimum utilization of rainwater and also to recharge the ground water will be adopted.
- xii) The project will give direct and indirect employment (100 No's) opportunities to be given to locals and will improve in the socio-economic status of the local community and also enhance the revenue to State Government by enhancing tourism activity.
- xiii) The Karnataka Coastal Management Authority (KCZMA) recommended the project vide letter No. FEE 285 CRZ 2017 dated 26th September 2017.

2. The Committee observed that Golf Course may not be a permissible activity under the extant CRZ rules and therefore need a detailed examination. The Committee further observed that in so far as the resort is concerned, the project proponent may develop the same provided it is in consonance with the CRZ Notification, 2011. However, in the instant case, it appears the resort is being proposed in an area not permissible under the extant CRZ rules. The Committee noted that the CRZ map seem flawed and the same may be got examined. The Committee further observed that if necessary the Ministry may like to seek a clarification from the Karnataka State Coastal Zone Management Authority the conformity/applicability of the proposal in consonance with CRZ Notification, 2011 as per the recommendation issued by the Government of Karnataka vide Letter No.FEE.285 CRZ 2017, dated 26.09.2017

3. In view of the above, the Committee decided that the proposal be deferred and the project proponent may submit a detailed clarification on the issues flagged above, to the Ministry. On receipt of the same, including clarification from the State Government, the can be placed for re-consideration.

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