MINUTES OF THE 188th MEETING OF EXPERT APPRAISAL COMMITTEE FOR PROJECTS RELATED TO COASTAL REGULATION ZONE HELD ON 13th APRIL, 2018 AT INDIRA PARYAVARAN BHAWAN, MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE, NEW DELHI

The 188th Meeting of the Expert Appraisal Committee for projects related to Coastal Regulation Zone was held on 13.04.2018 at Brahamputra Conference Hall, Vayu Wing, First Floor, Indira Paryavaran Bhawan, New Delhi. The members present were:

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.	Dr. Anil Kumar Singh	-	Member
6.	Shri. N.K. Gupta	-	Member
7.	Shri Sharad Chandra	-	Member
8.	Smt. Bindu Manghat	-	Member

Dr. M.V. Ramana Murthy, Dr. Asha Ashok Juwarkar, Shri. Prabhakar Singh, Shri. Narendra Surana, Dr. Mohan Singh Panwar and Dr. Anuradha Shukla 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 186th meeting are in order confirmed the minutes.

3.0 CONSIDERATION OF PROPOSALS:

RECONSIDERED PROPOSALS:

3.1 Proposal for conversion of overhead distribution lines into underground cable in Nagapattinam District, Tamil Nadu by TANGEDCO [F.NO. 11-50/2017-1A.III]- CRZ Clearance reg.

The proposal of M/s TANGEDCO for conversion of Overhead Distribution Lines into underground cable in Nagapattinam District, Tamil Nadu, was earlier considered in the 181st meeting of the Committee held during 20th December, 2017. In the said meeting, the project proponent made a presentation and had provided the following information:

i) The proposed project is conversion of overhead power lines into underground cabling system in Nagapattinam District under Coastal Disaster Risk Reduction Project (CDRRP) with World Bank assistance.

- ii) The aim of the project is to reduce the vulnerability of the coastal communities to a range of natural hazards such as cyclone, storm surge, floods, tsunamis etc.
- iii) The underground cable laying works buried by excavating nominal trench of 1.2 M depth and 0.5 to 0.9 m width.
- iv) The total length of proposed cable is 211.38 Km. Out of proposed cable length, 28.2 Km length of cable falls in CRZ II and 15.24 Km length fall in CRZ III.
- v) The total Cost of the project will be Rs 186 crores.
- vi) The proposed project site is located in CRZ- II and CRZ- III as per CZMP.
- vii) 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.
- viii) Details for Package 4:
 - a) Conversion of HT and LT overhead line into underground cable system in Nagapattinam Town consisting of 6.253 km of HT line and about 27.364 km of LT line into underground electrical cable.
 - b) The estimated cost of the Package is Rs. 50.00 crores.
 - c) Existing OH network of the Package 4:

S.NO.	Feeder Name	HT Length (kms)	No. of DTs	LT Length (in km)	Feeder Load (in Amp)	1 ph consumer	3 ph consumer
1	Nagapattinam Town	6.253	31	27.364	295	6297	900

d) The proposed UG Cable network of the Package – 4 is as follows:

Foodon Nome	Nagapattinam Town	Nagapattinam Town	Grand
Feeder Name	ı	2	total
HT Length(km)	8.047	7.460	15.507
LT Length(km)	42.798	28.947	71.745
Service cables (km)	201	171	372
Street light cables (km)	19	15	34
DTs (Nos.)	33	31	64
LT Panel (Nos.)	20	19	39
Feeder Pillars(Nos.)	96	76	172
Service Pillars (Nos.)	505	381	886
Trenchless crossings (Nos.)	13	14	27
Pipe crossings (Nos.)	175	179	354
RMU (Nos.)	35	36	71

ix) Details for Package 5:

- a) Conversion of HT and LT overhead line into Under Ground cable system in Nagore and Thonithurai consisting of conversion of about 28.58 km of HT line and about 59.98 km of LT line into underground electrical cable.
- b) The estimated cost of the package is Rs. 43.00 crores.
- c) Existing OH network of the Package- 5:

S.NO.	Feeder Name	HT Length (kms)	No. of DTs	LT Length (in km)	Feeder Load (in Amp)	1 ph consumer	3 ph consumer
1	Nagore	24.35	54	48.15	718.79	7384	1063

2	ThoniThurai	4.23	17	11.83	293.93	2508	47
	Grand Total	28.58	71	59.98		9892	1110

d) The proposed UG Cable network of the Package - 5:

	Nagore	Nagore	Nagore		Grand
Feeder Name	feeder 1	feeder 2	feeder 3	Thonithurai	total
HT Length(km)	9.960	8.883	9.741	4.710	33.294
LT Length(km)	19.962	32.831	16.048	17.823	86.664
Service cables	68.08		65.32	103.5	
(km)		98.5			335.4
Street light cables	4.1		3.1	4.4	
(km)		5.2			16.8
DTs (Nos.)	30	29	24	22	105
LT Panel (Nos.)	23	21	19	21	84
Feeder Pillars(59			79	
Nos.)		82	43		263
Service Pillars	285			308	
(Nos.)		401	179		1173
Trenchless	2			4	
crossings (Nos.)		3	4		13
Pipe crossings	134			146	
(Nos.)		169	123		572
RMU (Nos.)	35	32	24	22	113

x) Details for Package 6:

- (a) Conversion of HT and LT overhead line into Under Ground cable system in Velipalayam and Velipalayam Water Works consisting of conversion of about 26.3 km of HT line and about 94.67 km of LT line into underground electrical cable.
- (b) One new Switching station at SIPCOT area.
- (c) The estimated cost of the Project is Rs. 48.00crores.
- (d) Existing OH network of the Package 6 is as follows:

S.NO.	Feeder Name	HT Length (kms)	No. of DTs	LT Length (in km)	Feeder Load (in Amp)	1 ph consumer	3 ph consumer
1	Velipalayam	22.22	44	94.67	682.34	10817	863
2	Water Works	4.08	1	No LT Service			

(e) The proposed UG Cable network of the Package -6:

	Vellipalayam	Vellipalayam	Vellipalayam	Water	
Feeder Name	Feeder 1	Feeder 1	Feeder 1	works	Grand total
HT Length(km)	8.362	9.368	11.015	4.125	32.87
LT Length(km)	35.337	40.451	44.954	0	120.74
Service cables (km)	140	154	173	0.04	467.04
Street light cables (km)	21.37	23.51	26.36	0	71.24
DTs (Nos.)	32	26	33	1	92
LT Panel (Nos.)	26	19	25	0	70
Feeder Pillars(Nos.)	102	74	87	0	263

Service Pillars (Nos.)	479	361	416	0	1256
Trenchless crossings (Nos.)	15	11	8	1	35
Pipe crossings (Nos.)	126	161	317	26	604
RMU (Nos.)	39	32	38	1	110

xi) Details for Package 7-

- (a) Conversion of HT and LT overhead line into Under Ground cable system in Velankanni Town consisting of conversion of about 37 km of HT line and about 39 km of LT line into underground electrical cable.
- (b) The estimated cost of the package is Rs. 45.00 Crores.
- (c) Existing OH network of the Package 7 is as follows.

S.NO.	Feeder Name	HT Length (kms)	No. of DTs	LT Length (in km)	Feeder Load (in Amp)	1 ph consumer	3 ph consumer
1	Velankanni	37.098	67	38.805	848.55	3924	445

(d) The proposed UG Cable network of the Package - 7:

		Serudur	Velankanni	Velankanni	Grand
Feeder Name	ECR		Town 1	Town 2	total
HT Length (km)	13.285	7.744	6.194	4.785	32.008
LT Length (km)	2.99	20.03	26.22	18.39	67.64
Service cables (km)	47.1	46	48.4	34	175.5
Street light cables					
(km)	4.2	7.1	4.4	7.9	23.6
DTs (Nos.)	32	20	12	10	74
LT Panel (Nos.)	17	18	12	10	57
Feeder Pillars (
Nos.)	3	35	31	33	102
Service Pillars					
(Nos.)	18	161	159	189	527
Trenchless					
crossings (Nos.)	12	9	6	4	31
Pipe crossings					
(Nos.)	38	63	71	69	241
RMU (Nos.)	26	22	16	12	76

- xii) About 570 No. of workers will be employed for implementation of the project in 4 Packages over a period of 21 months. Local workers will be given opportunities to work in this project.
- xiii) The TNCZMA has recommended the project vide letter No. 17946/EC.3/2017-1, dated 09.10.2017.
- 2. In the aforesaid 181st meeting held on 20.12.2017, the Committee had also observed that while almost entire length of the proposed cable is underground, two overhead poles are proposed to be erected on both sides of the river along the aerial route of the cable laying alignment, over the bridge thereby defeating the objective of the proposal, which is reducing vulnerability of natural calamity such as cyclone.

The Committee had also noted that while recommending the instant proposal for CRZ clearance, the TNCZMA has recommended that the cable laying activity shall not be carried out in the areas falling under CRZ-I and CRZ-IV.

- 3. It was therefore advised by the Committee in the 181st meeting that in case the project proponent revises its proposal and decides to lay cables in the river bed it shall approach the TNCZMA and get the abovementioned conditions amended accordingly. While doing so the project proponent shall ensure that it submits a supplementary Marine EIA report carried out for the said task. The Committee further noted that, on the other hand, if it so desires to lay cable alongside the bridge structure crossing the river, the necessity of the same should not arise.
- 4. The Committee in view of the observations made above, had deferred the proposal in the $181^{\rm st}$ meeting, with a recommendation that in case the revised proposal is not submitted with requisite documents within three months the proposal may be delisted from the pending list.
- 5. On receipt of revised proposal for laying cable alongside the bridge crossing the river, the proposal was placed before the Committee for its reconsideration.
- 6. The Committee noted that the project proponent has obtained permission from the Highways department and also PWD for laying of the cables along the road and alongside the Bridge. The Committee also noted that recommendation of the TNCZMA has been obtained vide letter No. 2719/EC.3/2018-1, dated 26.02.2018, mentioning laying of cables along the bridge.
- 7. Based on deliberations held the Committee recommended the project for CRZ Clearance subject to the following conditions:
- i) The conditions stipulated by the Highways Department Construction and Maintenance issued vide letter no. 19/2018/JDO1 dated 05.01.2018 shall be implemented.
- ii) The conditions stipulated by the Public Work Department issued vide letter no. DB/F 107 (HY)/2018/D2 dated 05.01.2018 shall be implemented.
- iii) All the conditions stipulated by TNCZMA vide letter Nos. 17946/EC.3/2017-1, 2719/EC.3/2018-1, dated 09.10.2017 and 26.02.2018 respectively, shall be strictly complied with as admissible.
- iv) Solid waste shall be collected, treated and disposed of in accordance with the Solid Waste Management Rules, 2016.

FRESH PROPOSALS:

3.2 Proposal for Reconstruction of Maternity Hospital cum Medical College in Alibagh Taluk, in District Raigad, Maharshtra by M/s Konkan Education Society [F.NO.11-7/2018-IA.III] -CRZ clearance reg.

The proposal of M/s Konkan Education Society is for reconstruction of maternity hospital cum medical college in Alibagh Taluk, in District Raigad, Maharashtra.

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

- i) The project entail reconstruction of maternity hospital cum medical college over a total built up area of 6644.0 sq.m.
- ii) The maximum height of structure will be 12.0 m (ground + 2floors) and total parking area will be 479.8 sq.m.
- iii) The FSI ratio will be as per the governing Town & Country Planning regulations existing as on 19.02.1991. There will be around 5 class rooms, Community Medicine Dept.; Surgery Department; Homeopathic Pharmacy; General Medicine male ward; General Medicine female ward; Paediatrics ward; Surgery male ward; Surgery female ward; Obstetrics/gynaecology female ward; General room; Store room and toilets. Plot has been sanctioned as per development plan of Alibagh city.
- iv) The project area falls in CRZ-II situated on landward side of existing road.
- v) The total cost of the project will be Rs. 15 crores.
- vi) The CRZ map indicating HTL, LTL demarcation in 1:3400 scale with the proposed cabling route superimposed on the map has been prepared by Centre for Earth Science Studies, Thiruvananthapuram, Kerala.
- vii) The water requirement will be 20.75 CMD and will be sourced from Alibag Municipal Council.
- viii) Rainwater harvesting facilities will be installed at the project site. After construction for various runoff surfaces it will be 23.3 CMD. Shallow recharge pits of limited depth up to 3 m will provided.
- ix) Solid waste likely to be generated will be approximately 92 kg/day. The waste will be handed over to local Alibag Nagar Parishad and Biomedical waste will be given to Mumbai Waste Management Limited for treatment.
- x) An STP with MBBR technology is proposed to be constructed.
- xi) The power requirement during construction and operation will be supplied by MSEDCL.
- xii) Total demanded load for project during operation is 30.0 kVA DG set back up 50 kVA X 1.
- xiii) Electronic Ballasts and Energy efficient lamp like LED /CFL are proposed for common area & general lighting with automatic time based controls to save power.
- xiv) The anticipated minor environmental impacts of proposed project will be mainly from solid waste disposal and sewage disposal. Solid waste will be handed over to local municipal corporation biomedical waste will be given to Mumbai Waste Management Limited and sewage waste will be treated in STP of capacity 20 CMD.
- xv) MCZMA has recommended the project vide letter no CRZ 2017/CR 109/TC4 on dated 16.10.2017.
- 2. The Committee noted that the project neither entails any significant disturbance in terms of CRZ angle, nor does it involve activities that could alter the CRZ status of the area. Based on the presentation made by the project proponent and deliberations made, the Committee therefore recommended the proposal for CRZ clearance subject to the following conditions:

- i) A 2% of the cost of the project shall be apportioned for environmental protection measures, to be spent by the project proponent during the currency of the project. Proper record and account of measures taken shall be maintained and submitted to the MCZMA every six months.
- 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 Proposal for re-construction of School Building on plot bearing C.T.S. No. 918B in Alibagh, Taluk Alibag, District-Raigad, Maharashtra by M/s Konkan Education Society. [F.NO.11-8/2018-IA.III]- CRZ clearance reg.

The proposal of M/s Konkan Education Society, is for re-construction of a School Building on plot bearing C.T.S. No. 918B of Alibagh, in Taluk Alibag, in District Raigad, Maharashtra. The project proponent made a presentation and provided the following information:

- i) The project entails demolition of existing school building and reconstruction thereof over an area of 5956.59 sq.m. and built up area 5740.4434 sq.m. The school building has been in existence since 1963.
- ii) The maximum height of structure will be 12.45 m and total parking area will be 412.80 sq.m
- iii) The FSI ratio will be 0.96 and will be as per the governing Town & Country Planning Rules/ regulations.
- iv) The reconstruction will comprise of ground floor + 2 floors with maximum height of 12.45 m height. Total 28 class rooms, administrative hall, staff room, computer rooms and multipurpose hall are planned with two staircase and lifts.
- v) The plot has been sanctioned as per development plan of Alibagh city.
- vi) The project area falls in CRZ –II situated on landward side of existing road.
- vii) The total cost of the project will be Rs 4.71 crores.
- xvi) The CRZ map indicating HTL, LTL demarcation in 1:3400 scale with the proposed cabling route superimposed on the map has been prepared by Centre for Earth Science Studies, Thiruvananthapuram, Kerala.
- viii) The solid waste will be generated approximately 205.43 kg/day and the waste will be handed over to local Alibaq Nagar Parishad.
- ix) The Water requirement will be 115.5 CMD and will be sourced from Alibag Municipal Council.
- x) Rainwater Harvesting facilities will be created at the project site. After construction for various runoff surfaces it will be 23.3 CMD. Shallow recharge pits of limited depth up to 3 m will provided.
- xi) The power requirement during construction and operation will be supplied by MSEDCL.
- xii) Total demanded load for project during operation is 30.0 kVA DG set back up 50 kVA X 1.

- xiii) Electronic Ballasts and Energy efficient lamp like LED /CFL are proposed for common area & general lighting with automatic time based controls to save power.
- xiv) Solid waste will be handed over to local municipal corporation and sewage waste will be treated in STP of capacity 92 CMD.
- xv) The MCZMA has recommended the project vide letter no CRZ 2016/CR 163/TC4 on dated 24.10.2016.
- 2. Based on the deliberations held the Committee recommended replacement of the existing pipelines only subject to the following conditions:
- i) A 2% of the cost of the project shall be apportioned for environmental protection measures, to be spent by the project proponent during the currency of the project. Proper record and account of measures taken shall be maintained and submitted to the MCZMA every six months.
- ii) The demolition debris shall be handled as per Construction and Demolition Waste Rules, 2016.

3.4 Proposal for Relaying of Pipeline & Redevelopment of Edible Oil Transit Terminal at T.S. No. 316/2/3, east Madha Church Street, in Chennai, Tamil Nadu by M/s Ruchi Infrastructure Limited. [F.NO.11-9/2018-IA.III] - CRZ clearance reg.

The proposal of M/s Ruchi Infrastructure Ltd. is for relaying of pipeline and redevelopment of edible Oil transit terminal at T.S. No. 316/2/3, east Madha Church Street, in Chennai, Tamil Nadu. The project proponent made a presentation and provided the following information:

- i) The edible oil transit was established prior to 1997 and edible oil was transported via tanker lorries to the transit terminal and after that pipeline were laid within the port premises.
- ii) It is proposed to relay pipelines of 12" dia. and 8" dia. Respectively, which will be of length of 880 m and 1547 m from the port to project site.
- iii) It is also proposed to reroute the pipeline to WQ-II as the existing NQ berth is allocated to Navy by the Port Trust. In addition, the pipelines are old and need replacement.
- iv) The edible oil is received in the transit facility through a pipeline and transferred from the transit terminal by tankers to the refinery/processing/packaging unit. There is no processing of the raw material (edible oil) in the project site.
- v) The total land area of the edible oil transit facility is 5132 sqm. The present storage capacity of the Transit terminal is 33152 KL consisting of 14 tanks of various capacities between 1413 KL to 3679 KL.
- vi) The project site is located adjacent to the Chennai Port on the landward side.
- vii) The entire pipeline and terminal 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 total cost of the project is about Rs 6.14 crores.
- x) Domestic water requirement will be met from CMWSSB.
- xi) Waste water generation of about 1 KLD, will be disposed to CMWSSB sewer line and MSW generated is handed over to Corporation of Chennai.
- xii) Energy Efficient pumps and lights are used in Transit Terminal.
- xiii) Rainwater harvesting pits are provided to collect the rainwater.
- xiv) The Tamil Nadu Coastal Management Authority (TNCZMA) recommended the project vide letter No. 24115/EC.3/2017-1 dated 30.01.2018.
- 2. The Committee observed that the project per say will not change the characteristics of the CRZ area and is a permissible activity under para 3 sub clause (i) (a) of CRZ notification 2011 and regulated under para 8 I sub clause (i) (b) of CRZ notification 2011. Based on deliberations held the Committee recommended the project for CRZ Clearance subject to the following conditions:
- (i) A 2% of the cost of the project shall be apportioned for marine and coastal biodiversity protection and conservation measures, to be spent by the project proponent towards fulfilling its Corporate Environmental Responsibility (CER) during the currency of the project. Proper record and account of measures taken should be maintained and should also be submitted to the CZMA every six months.
- (ii) Solid waste management shall be carried out as per Wastes Management Rules, 2016.
- (iii) The conditions stipulated by the TNCZMA as may be applicable, shall be implemented.
- (iv) A full proof leak detection system shall be installed.

3.5 Proposal for construction of Holiday Resort at Gat. No. 146 & 153/2, Village Awas, Tal. Alibag, District Raigad, Maharashtra jointly by Shri Farokh Jamshed Guzder and Mrs. Navaz Farokh Guzder [F.NO.11-10/2018-IA.III]- CRZ clearance reg.

The proposal is by Shri Farokh Jamshed Guzder and Mrs. Navaz Farokh Guzder is for construction of holiday resort at Gat. No. 146 & 153/2, in village Awas, in Taluk Alibag, in District Raigad, Maharashtra. The project proponent made a presentation and provided the following information:

- i) The total Plot area of the resort will be 2170 sq.m and the built up area will be 1170.21 sqm, which is within the permissible FSI as per Town & Country Planning. It is proposed to construct a structure with Ground + 1 Floor.
- ii) The maximum height of structure will be less than 9 m.
- iii) The project area falls in CRZ-III as per the approved CZMA. Construction of holiday resort is proposed beyond 200 mt of High Tide Line.
- iv) 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.
- v) The total coast of the project will be Rs 3.5 crores.
- vi) Total fresh water demand during operational phase will be 3600 lit/day and will be and obtained from the Awas Gram panchayat.

- vii) The project site is at 50 m from mangroves and the reserve forest patches are located within a radius of 10 Km.
- viii) NOC has been obtained from State Pollution Control Board, for discharge of treated waste water, solid waste disposal & water supply received by local authority.
- ix) About only 8 kg/day solid waste will be generated during operation phase. Dry waste will be sent to Awas Gram panchayat and wet waste will be composted and used in landscaping.
- x) Rainwater Harvesting facilities will be created at the project site in the form of aquifer recharge. It is expected to harvest about 117552 m³ of rainwater annually.
- xi) The Maharashtra Coastal Management Authority (MCZMA) recommended the project vide letter No. No. CRZ 2017/CR 310/ TC 4, dated14th Feb 2018.
- 2. The Committee observed that the project per say will not change the characteristics of the CRZ area and is a permissible activity under para 3 sub clause (i) (a) of CRZ notification 2011 and regulated under para 8 I sub clause (i) (b) of CRZ notification 2011. Based on deliberations held the Committee recommended the project for CRZ Clearance subject to the following conditions:
- (i) A 2% of the cost of the project shall be apportioned for marine and coastal biodiversity protection and conservation measures, to be spent by the project proponent towards fulfilling its Corporate Environmental Responsibility (CER) during the currency of the project. Proper record and account of measures taken should be maintained and should also be submitted to the CZMA every six months.
- (ii) Solid waste management shall be carried out as per Wastes Management Rules, 2016.
- (iii) The conditions stipulated by the MCZMA, shall be implemented.
- (iv) A robust rain water harvesting system shall be installed.

OTHER MISCELLANEOUS ITEM:

3.6 Extension of validity of CRZ clearance issued to by M/s Maharashtra State Road, Development Corporation (MSRDC) for Versova-Bandra Sea Link Project (VBSLP) [F.NO.11-84/2011-IA.III]- reg.

The request of M/s Maharashtra State Road, Development Corporation is or extension of validity of CRZ clearance issued for construction of Versova-Bandra Sea Link Project (VBSLP) Maharashtra.

- 2. The Committee noted that CRZ clearance was issued on 09.01.2013 vide letter no. 11-84/2011-IA-III. The Committee further noted that the Ministry has issued an amendment o the CRZ notification on 06.03.2018, wherein, an enabling provision for extension of validity of CRZ clearance has been made.
- 3. Based on deliberations held the Committee recommended that the extension of validity of the CRZ Clearance by another 5 years may be made subject to the

following fulfilling of the requirements as contained in the amendment issued vide S.O. 1002 (E) dated 06.03.2018. The Committee further recommended that specific conditions not stipulated in the clearance issued in 2013 but admissible as on date shall be made while issuing the extension of validity of the clearance.

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