

F.No.11-50/2017-IA.III
Government of India
Ministry of Environment, Forest and Climate Change
(IA-III Section)

Indira Prayavaran Bhawan,
Jor Bagh Road, New Delhi-110003
Dated: 25.10.2018

To,

✓ The Chief Engineer (Planning & Resource Centre)
Tamil Nadu Generation & Distribution Corporation Ltd.
144, Anna Salai,
Chennai-600 002

Sub: CRZ Clearance for conversion of overhead distribution lines into underground cable in Nagapattinam District, Tamil Nadu -reg.

Sir,

This has reference to your above mentioned project proposal forwarded to this Ministry by Tamil Nadu Coastal Zone Management Authority (TNCZMA) vide letter-2719/EC.3/2018-1, dated 26.02.2018 for grant of CRZ Clearance in terms of the provisions of the Coastal Regulation Zone (CRZ) Notification, 2011 issued under the Environment (Protection) Act, 1986.

2. The proposal was considered by the Expert Appraisal Committee (EAC) for Infrastructure Development, Coastal Regulation Zone, Building/ Construction and Miscellaneous projects, in 181st and 188th meeting held on 20th December, 2017 and 13th April, 2018 respectively. The details of the project, as per the documents submitted and as informed during the above said meetings are noted as under: -

- i) The proposed project entails conversion of overhead power lines into underground cabling system in Nagapattinam District under Coastal Disaster Risk Reduction Project (CDRRP) with the assistance of the World Bank.
- 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 will be executed by excavating nominal trench of 1.2 m depth and 0.5 to 0.9 m width.
- iv) The total length of proposed cable to be laid will be about 211.38 Km. Out of total length, about 28.2 Km of cable laying falls in CRZ II and 15.24 Km in CRZ III.
- v) The total Cost of the project will be Rs 186 crores.
- vi) 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.

vii) 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:

Feeder Name	Nagapattinam Town 1	Nagapattinam Town 2	Grand 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

viii) 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:

Feeder Name	Nagore feeder 1	Nagore feeder 2	Nagore feeder 3	Thonithurai	Grand 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 (km)	68.08	98.5	65.32	103.5	335.4
Street light cables (km)	4.1	5.2	3.1	4.4	16.8
DTs (Nos.)	30	29	24	22	105
LT Panel (Nos.)	23	21	19	21	84
Feeder Pillars(59	82	43	79	263

Nos.)					
Service Pillars (Nos.)	285	401	179	308	1173
Trenchless crossings (Nos.)	2	3	4	4	13
Pipe crossings (Nos.)	134	169	123	146	572
RMU (Nos.)	35	32	24	22	113

ix) Details for Package 6:

- 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.
- One new Switching station at SIPCOT area.
- The estimated cost of the Project is Rs. 48.00crores.
- 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			

- The proposed UG Cable network of the Package -6:

Feeder Name	Vellipalayam Feeder 1	Vellipalayam Feeder 1	Vellipalayam Feeder 1	Water 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

x) Details for Package 7:

- 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.
- The estimated cost of the package is Rs. 45.00 Crores.
- Existing OH network of the Package - 7 is as follows.

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

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

Feeder Name	ECR	Serudur	Velankanni Town 1	Velankanni Town 2	Grand 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

- xi) 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.
- xii) The TNCZMA has recommended the project vide letter No. 17946/EC.3/2017-1, 2719/EC.3/2018-1, dated 09.10.2017 and 26.02.2018.

3. Based on the information submitted as at para no. 2 above and in acceptance of the recommendations of the Expert Appraisal Committee (CRZ), the Ministry of Environment, Forest and Climate Change hereby accords CRZ Clearance to the above project viz '*Conversion of overhead distribution lines into underground cable in Nagapattinam District, Tamil Nadu*, under clause 4, ii (d) of the CRZ Notification, 2011 and amendments thereto and circulars issued thereon, and subject to compliance of the following specific and general conditions as under:

A. SPECIFIC 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) The conditions stipulated by TNCZMA vide letter Nos. 17946/EC.3/2017-1, dated 09.10.2017 and as amended vide letter no. 2917/EC.3/2018-1 dated 26.02.2018, shall be strictly complied with.

- (iv) Cables should be laid along the sides of the road and alongside the bridge while crossing the river.
- (v) Solid waste shall be collected, treated and disposed of in accordance with the Solid Waste Management Rules, 2016.
- (vi) Storage of raw material and camp with sanitation facilities for the construction labour shall be set up beyond 200 m of HTL.
- (vii) The construction in CRZ areas shall be done strictly in accordance with the provisions of CRZ Notification, 2011 and as amended from time to time.
- (viii) There shall be no dressing or alteration of the sand dunes, natural features including landscape changes for beautification, recreation and other such purpose.
- (ix) Disposal of muck during construction phase should not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
- (x) Any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.

B. GENERAL CONDITIONS:

- (i) A copy of the clearance letter shall be uploaded on the websites of the Company/Proponent and concerned State Pollution Control Board. The Clearance letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/ Tehsildar's office for 30 days.
- (ii) Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- (iii) Adequate provision for infrastructure facilities including water supply, fuel and sanitation must be ensured for construction workers during the construction phase of the project to avoid any damage to the environment.
- (iv) A six-monthly monitoring report shall need to be submitted by the project proponent to the concerned regional Office of this Ministry regarding the implementation of the stipulated conditions.



- (v) The Ministry of Environment, Forest & Climate Change or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environment and the same shall be complied with.
- (vi) The above stipulations would be enforced among others under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991, the EIA Notification, 2006 and the CRZ Notification, 2011.
- (vii) Full co-operation shall be extended to the officials from the Regional Office of MoEF&CC, during monitoring of implementation of environmental safeguards stipulated. It shall be ensured that documents/data sought pertinent is made available to the monitoring team. A complete set of all the documents submitted to MoEF&CC shall be forwarded to the concerned Regional Office of MoEF&CC.
- (viii) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.
- (ix) The Ministry reserves the right to add additional safeguard measures subsequently, if considered necessary, and to take action to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner, including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, for non compliance.
- (x) All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponent from the respective competent authorities.
- (xi) The project proponent should advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded CRZ Clearance and copies of clearance letters are available with the State Pollution Control Board (SPCB) and may also be seen on the website of the Ministry of Environment, Forest and Climate Change at <http://www.envfor.nic.in>. The advertisement should be made within Seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the concerned Regional Office of this Ministry.

4. This Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs Union of India in Writ Petition (Civil) No.460 of 2004, as may be applicable to this project.

5. Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

6. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.

7. The proponent shall upload the status of compliance of the stipulated conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB.

8. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of clearance conditions and shall also be sent to the respective Regional Office of the Ministry by e-mail.


(W. Bharat Singh)
Director/ Sc 'F'

Copy to:

1. The Secretary, Environment & Forests Department, Govt of Tamil Nadu, Saint George Port, Chennai.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD- cum- Office Complex, East Arjun Nagar, Delhi - 110032.
3. The Member Secretary, Tamil Nadu Coastal Zone management Authority & Director, Department of Environment and Forests, Government of Tamil Nadu, First Panaqal Building, Saidapet, Chennai 600015
4. The Chairman, Tamil Nadu State Pollution Control Board, 76, Mount Salai, Guindy, Chennai - 600032.
5. The APCCF (C), MoEF&CC, R.O, 1st Floor, Handloom Export Promotion Council, 34, Cathedral Garden Road, Nungambakkam, Chennai-34.
6. Guard File.
7. Monitoring File.


(W. Bharat Singh)
Director/ Sc 'F'