



GOVERNMENT OF KERALA

Abstract

Disaster Management Department - National Cyclone Risk Mitigation Project (NCRMP - Phase II) - Component A - Early Warning Dissemination System (EWDS) - Installation of sirens and strobe lights on existing telecom towers under EWDS as part of last mile connectivity – Bharat Sanchar Nigam Limited (BSNL) telecom towers requisitioned - Orders issued

DISASTER MANAGEMENT (B) DEPARTMENT

G.O.(Rt)No.590/2022/DMD Dated, Thiruvananthapuram, 29-07-2022

- Read
1. G.O.(Rt)No.542/2019/DMD dated, 24/08/2019
 2. G.O. (Rt) No. 313/2021/DMD dated, 08/03/2021
 3. Letter no: KRLCO-19/12(11)/6/2022-NWP-CM of M/s BSNL, dated, 20/04/2022
 4. G.O.(Rt)No.479/2022/DMD dated, 27/05/2022
 5. Minutes of the meeting of the Implementation Committee held on 02/06/2022
 6. Letter no: KRLCO - 19/12(11)16/2022-NWP-CM/729 of M/s BSNL, dated, 09/06/2022

ORDER

‘Early warning’ is a key pillar of disaster risk reduction and timely warnings help in saving life and property. As per the Government order read as 1st paper above, sanction was accorded for the implementation of Early Warning Dissemination System (EWDS) funded under Component A of the National Cyclone Risk Mitigation Project (NCRMP) Phase II. The NCRMP is steered by the National Disaster Management Authority (NDMA) under the Ministry of Home Affairs, Government of India.

The comprehensive EWD System being implemented by the State involves (1) elaborate strengthening of communication systems and the decision support system (DSS) of the Kerala State Emergency Operations Centre (KSEOC) for alert aggregation, processing and dissemination, (2) strengthening

the Information and Communication Technology (ICT) infrastructure of 14 District Emergency Operations Centres (DEOCs), 77 Taluk Emergency Operations Centres (TEOCs), 20 Matsya Bhavans/ Fish Landing Centers/ Directorate, 14 Divisional Fire Offices under the Fire and Rescue Department and the Police Head Quarters and (3) provision of last mile connectivity through sirens and strobe lights. As per the Government order read as 2nd paper above, institutional arrangements were ordered to facilitate effective execution of the project.

The sirens and strobe lights are to be deployed in 126 locations spread across the State as part of this project. Installation of sirens and strobe lights on existing telecom towers was given priority in the State as these existing towers summarily provide the following advantages (a) savings on resources (land, men and material) that may otherwise be needed if exclusive early warning towers are to be constructed and maintained for long (b) a secure outdoor location with watch and ward (c) disaster resilient sound structural stability - ground based Class A towers (d) ready availability of proper earthing, lightning arresters, KSEB power supply and redundant power source - D.G. set that are part and parcel of telecom tower installations (e) clear line-of-sight for strobe lights and sirens at about 15 metres height without immediate hindrance/attenuation around telecom towers so that the alerts 'sounded and flashed' are carried effectively to the target population (f) natural location of the tower in populous pockets (locational advantage) that help reach a greater section of the population (g) ready availability of telecommunication lines (h) as the base of the ground based telecom tower is uninhabited there is none subjected to excessive noise of sirens in the immediate vicinity (i) additional revenue stream for the telecom tower operator (in the form of rent for the premises) and additional security for the telecom infrastructure with the installation of CCTV cameras and through remote monitoring of functional status of equipment from Emergency Operation Centres (EOCs). Further, DoT's extant IP Cat – 1 Registration clause 7.5 provides room for considering the use of telecom infrastructure for other needs that would serve public interest.

A series of steps had been taken by the State Project Implementation Unit (SPIU) and Kerala State Disaster Management Authority (KSDMA) to secure telecom towers for the installation of sirens and strobe lights through the State Telecom Disaster Co-ordination Committee (STDCC) under Department of Telecommunication (DoT), NDMA and DoT, but concrete results have been elusive leading to delay in the establishment of last-mile connectivity under the project. However, BSNL in the public sector, vide letter read as 3rd paper above, agreed-in principle to share suitable BSNL towers standing on land owned by BSNL. The NCRM project (phase II) period is in its last lap. The issue of securing telecom towers was deliberated at length in the Technical Support Group (TSG) for EWDS constituted as per GO read as 2nd paper above, the Implementation Committee of EWDS and the State Executive Committee (SEC)

of the KSDMA. The State Executive Committee of the KSDMA decided to invoke provisions of the Disaster Management (DM) Act, 2005 and general orders to requisition telecom towers and government buildings under the Disaster Management Act, 2005 for the purpose of installation of sirens and strobe lights under EWDS were issued by the Government Order read as 4th paper above.

After detailed investigation, the State Project Implementation Unit (SPIU) of NCRMP in consultation with the Kerala State Disaster Management Authority (KSDMA) have identified 83 mutually exclusive sites for immediate deployment of sirens and strobe lights. Out of these 83, 36 are A Class ground based BSNL towers standing on land owned by BSNL, that are to be requisitioned.

In the above circumstances, in exercise of the powers conferred under sections 24 and 65 of the Disaster Management Act, 2005, the undersigned in the capacity as the Chairman of the State Executive Committee of KSDMA, in the public interest of disaster management, order as follows:

1. The 36 BSNL telecom towers as listed in the annexure to this order, located in the State of Kerala, are requisitioned by KSDMA for the purpose of installation, maintenance and operation of sirens, strobe lights and associated paraphernalia under EWDS, with immediate effect. The requisitioning will not hinder BSNL's continued use of these towers and their routine telecom operations including expansion (4G).
2. M/s BSNL, employees at all levels and site specific 'single point of contact' shall immediately provide unhindered access to KSDMA authorised contractor and facilitate the installation of sirens and strobe lights under EWDS. M/s BSNL shall provide structural drawings of towers to KSDMA authorised contractor, where needed, to facilitate installation. Project UPS under EWDS will support the functioning of sirens and strobe lights. Use of power from the tower site and from the D.G. set as a redundant power source shall be permitted by BSNL to power the project equipment. The power charges due shall be borne by the EWDS contractor from the time of installation to the end of the 2-year O & M period, in tune with the EWDS contract conditions (Agreement No.12/2020-21 dated 22.01.2021 executed between M/s CMS Computers Ltd and State Project Manager, State Project Implementation Unit, NCRMP).
3. The finalization of the tripartite agreement (already shared with BSNL and CMS for mutual consultation and finalization) and the fixation of rent are being pursued by SPIU. M/s BSNL and KSDMA authorised contractor shall note that the pendency of the finalization of the tripartite agreement and fixation of rent shall not stand in the way of immediate installation of sirens and strobe lights on the requisitioned telecom towers. The installation shall start forthwith. The rent shall be payable from the date of completion of installation of EWDS equipment

in a location, as certified by M/s TCIL [Third Party Technical Consultant & Third Party Quality Auditor (TPQA) for EWDS]. Being an important step in disaster preparedness and saving lives, any hindrance /obstruction to immediate installation from any quarter, in violation of this order, will be construed as action punishable under sections 51, 55, 57 and 58 of the Disaster Management Act, 2005.

4. Kerala State Information Technology Infrastructure Ltd (KSITIL) shall provide Kerala Fiber Optic Network (KFON) support (leased line connectivity) to the EWDS project on the request of the KSDMA authorised EWDS Contractor. The KFON connectivity and usage charges shall be borne by the EWDS contractor from the time of installation to the end of the 2-year O & M period, in tune with the EWDS contract conditions (Agreement No.12/2020-21 dated 22.01.2021).

5. While KSDMA authorised contractor shall ensure public safety at all their work sites, there shall be no monsoon associated general restrictions on digging, where needed, in respect of EWDS works carried out by the contractor.

6. The KSDMA authorised contractor shall commence installation of sirens and strobe lights under EWDS forthwith, on receipt of this order.

7. District Development Commissioners, as directed in the Government Order read as 4th paper above, shall facilitate project implementation and monitor progress. The NCRMP - District Programme Implementation Unit (DPIU) chaired by the District Collector shall review progress in the district fortnightly and report to the Project Director, NCRMP (Additional Chief Secretary, Revenue and Disaster Management) with copy to the SPM, SPIU, NCRMP. District Disaster Management Authorities (DDMAs) shall arrange for the service of Engineers (PWD/LSGD) needed for supervision/ verification of works, if needed. 'Early warning' being a key pillar of Disaster Risk Reduction, all departments/ agencies/ organizations/ local government/ individuals/ stakeholders are duty bound to facilitate the deployment of these sirens and strobe lights.

(By order of the Governor)
DR V P JOY
CHIEF SECRETARY

To:

The Project Director, NCRMP

The Director General of Police, Thiruvananthapuram

The Director General, Fire and Rescue Services
The Managing Director, KSITL, Thiruvananthapuram
The Chairman State Telecom Disaster Co-ordination Committee,
Thiruvananthapuram
The CGM, BSNL, Kerala Circle
The Commissioner, Land Revenue, Thiruvananthapuram
The Commissioner, Disaster Management, Thiruvananthapuram
The State Project Manager, NCRMP
The Director, Department of Fisheries
The Member Secretary, KSDMA and Head SEOC, Thiruvananthapuram
All District Collectors [Chairpersons DPIUs - NCRMP and Chairpersons
DDMAs]
All District Development Commissioners
All Divisional Engineers, BSNL
Quick Response Team, SPIU, NCRMP – Kerala (Mr. Nalinachandran V, Smt.
Jeny Joseph)
M/s. Telecommunication India Limited (TCIL), Consultant of EWDS, NCRMP
(Mr. Sampath Kumar)
M/s CMS Computers Limited, Contractor of EWDS, NCRMP (Mr. George
Tibby, Project Director, Mr. Sreejith V, Project Manager)

Forwarded /By order

Signed by Devi K G

Date: 02-08-2022.12:26:30
Section Officer

Copy to: PA to Chief Secretary
PA to Additional Chief Secretary, Disaster Management Department
PA to Additional Chief Secretary, Home Department
PA to Additional Chief Secretary, IT Department
PA to Additional Chief Secretary, LSGD
PA to Additional Chief Secretary, Public Works Department
CA to Joint Secretary, Disaster Management Department

Annexure page (1/1) to G.O. (Rt) No. 590/2022/DMD dated, Thiruvananthapuram 29.07.22

List of BSNL Telecom Towers requisitioned for EWDS					
Sl No.	Name of the site	RP ID	E	N	District
1	Kadakyavoor	RP-00211	76.77007	8.68128	Thiruvananthapuram
2	Menamkulamte	RP-02445	76.86092	8.55368	Thiruvananthapuram
3	Vizhinjam	RP-00236	76.99071	8.38906	Thiruvananthapuram
4	Chavara	RP-00086	76.53451	8.97546	Kollam
5	Mayyanadu	RP-00520	76.63555	8.84166	Kollam
6	Paravoor	RP-00295	76.66901	8.81119	Kollam
7	Sankersjn	RP-06532	76.59904	8.88891	Kollam
8	Thirumullavaram	RP-02172	76.558314	8.893274	Kollam
9	Thrikunnapuzha	-	76.4089	9.25905	Alappuzha
10	Vellakinar	RP-00002	76.33295	9.4873	Alappuzha
11	Cherai	-	76.195445	10.13893 2	Ernakulam
12	Njarakkal	-	76.221183	10.04498 1	Ernakulam
13	Palluruthywl	RP-02073	76.26447	9.92625	Ernakulam
14	Elaran Kadappuram	-	75.876305	10.97905	Malappuram
15	Parapanamgady	RP-00154	75.86012	11.04515	Malappuram
16	Chombala	RP-00064	75.55683	11.67041	Kozhikode
17	Easthillqtrs	RP-02116	75.77667	11.28861	Kozhikode
18	Elathur	RP-00074	75.74045	11.33138	Kozhikode
19	Kadalundy	RP-00278	75.82568	11.13934	Kozhikode
20	Panniankara	RP-00072	75.79349	11.22659	Kozhikode
21	Quilandy	RP-00065	75.69354	11.44261	Kozhikode
22	Vadakara	-	75.582	11.60569 4	Kozhikkode
23	Vellayil	-	75.772812	11.26330 6	Kozhikkode
24	Edakkad	RP-00112	75.45143	11.79701	Kannur
25	Kannurte	RP-00110	75.36699	11.87491	Kannur
26	Mahe	RP-00120	75.53446	11.71167	Kannur
27	Mattool	RP-01311	75.28321	11.97631	Kannur
28	Ramanthali	RP-01722	75.18958	12.06455	Kannur
29	Tlsymw	RP-00550	75.47633	11.76271	Kannur
30	Hosdurg	RP-02205	75.09475	12.31006	Kasaragod
31	Kanhangadnewexg	RP-02244	75.08624	12.32491	Kasaragod
32	Kblsouthmarr	RP-04053	74.95701	12.57272	Kasaragod
33	Ksgdgovtgsthse	RP-00116	74.98472	12.50981	Kasaragod
34	Manjeshwaram	RP-00123	74.88959	12.71562	Kasaragod
35	Pallikara	RP-00529	75.04388	12.38809	Kasaragod
36	Udumar	RP-00301	75.02282	12.43033	Kasaragod