



**GOVERNMENT OF KERALA**

**Abstract**

Electronics & Information Technology Department - Adoption of functionalities provided by the CoronaSafe Network for disaster management - Approved - Orders issued

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**ELECTRONICS & INFORMATION TECHNOLOGY (B) DEPARTMENT**

**G.O.(Ms)No.12/2020/ITD** Dated,Thiruvananthapuram, 05/06/2020

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**ORDER**

The emergency response plan for the management of patients and resources during COVID-19 pandemic requires swift and coordinated efforts by all stakeholders including private hospitals in the State. To aid authorities across different departments in real time decision making, data and information dashboards that can provide real time capacity vis-a-vis actual utilization of hospital beds, ICUs, ventilators and other essential resources, are necessary both at district and state level.

To prepare for a scenario where there may be a surge in cases and the patient load, it is critical to have ambulance command and control systems that can take the patients/high risk individuals to the nearest available COVID hospitals efficiently. Healthcare facilities also require sample management systems to keep an effective track of Covid-19 samples being tested at labs so that information is received by the authorized officers in a time-bound manner for effective quarantine and for the treatment of those who are tested positive. Besides this, other facilities like telemedicine systems are essential to ensure that people in quarantine receive prompt medical advice and are guided correctly for their medical needs.

2. A software system is required to achieve a high degree of coordination between multiple stakeholders at district level and for passing information to the State level. An interdisciplinary group of volunteers from various domains such as public health specialists, software engineers and government officers have come together to create a free and open source solution called Coronasafe Network (<https://coronasafe.network/>).

The software has been field tested in Ernakulam District and has been found to be effective. Medical officers and district administration have expressed their satisfaction with the system. The software network along with the associated applications were presented before the Crisis Management Group chaired by the Chief Secretary on 08/05/2020. The Group felt that the system will be very helpful in managing and

monitoring the worst-case scenario for COVID-19 in the State, at a time when a lot of Non Resident Keralites and students will be returning to the state.

3. Having examined the matter in detail, the Government have decided to extend the functionalities provided by the Coronasafe Network to all districts in Kerala to meet the requirements of managing disasters in future.

The operational details are as follows :-

a. At the State level, the ownership of the entire data shall rest with the Department of Health and Family Welfare while, the hardware and software network will be owned by the Kerala State Disaster Management Authority. Department of Health shall take immediate steps to operationalize the Coronasafe network in all districts in Kerala.

b. At the district level, the District Collector along with officials of Departments of Health, Revenue and LSGD shall be the core team managing this network.

c. The District Medical Officer/ District Programme Manager will be in charge of the overall operations and will ensure the training of all health force workers including those in the private sector, training of ambulance drivers and setting up of all other systems that are required for efficient working in the district.

d. The responsibility of data security shall also rest with the Department of Health, which is the custodian of the entire data.

e. The data shall be stored in servers located within India which are empanelled as Cloud Infrastructure Service Providers (CISPs) with the Ministry of Electronics and Information Technology (MeitY), Government of India.

f. The Department of Health shall ensure that the State Disaster Management Authority (SDMA) shall be given the entire access to the network and data through secure standardized information exchange protocols which will allow seamless communication with other authorized systems deployed as and when needed.

g. The Department of Health shall also take necessary steps to support SDMA officers to link the information collected at the District Emergency Operation Centres with the State Emergency Operations Center.

h. As the software network is created using free and open source technologies by volunteers, the continuous development and upgradation of the system by Health department shall be ensured based on the requirements from both District(s) and State Administration.

i. For disaster management, only the required data such as infrastructure and human resource details can be shared, as per the decision by the respective departments.

j. Health Department will upload data related to that Department and other line Departments shall manage data uploading through their functionaries.

k. There shall not be any element of vendor lock-in for licensing.

l. The software code shall be owned by the Health Department, which shall be the nodal department.

m. The database administration and business continuity planning shall be done by the nodal, health department.

4. The Higher Education Department has already approved the proposal of Cochin University of Science and Technology to set up a Center for Advanced Technologies in Disaster Management in coordination with the open source volunteer community, industry and students. The Centre shall aid district/state administrations with continuous support, development and upgrade of the software applications. This Center shall also define and maintain standardized information exchange protocols for Interfacing Coronasafe Network with other software applications.

5. A team comprising of Director, National Health Mission, Secretary SDMA, Mission Director, IT Mission and sub-collector, Fort Kochi shall coordinate the Coronasafe Network and be in charge of coordinating with district administrations, Cochin University of Science and Technology, Volunteers of Coronasafe Network, State Disaster Management Authority and Office of Chief Secretary to set up a state-of-the-art digital war room at SDMA, with dashboard at the office of Chief Secretary. The State Level Digital Operations Center as above with state-of-the-art technology shall be established by the Disaster Management Department at the SDMA Headquarters for which sufficient funding shall be provided under SDRF.

6. The entire technology software and solution once established at district and state level shall be audited by a security agency empaneled by CERT-IN as stipulated by the Ministry of Electronics and Information Technology, Government of India.

(By order of the Governor)

**DR. VISHWAS MEHTA**  
**CHIEF SECRETARY**

To:

All Additional Chief Secretaries / Principal Secretaries / Secretaries

All District Collectors

Health & Family Welfare Department

Revenue Department

Local Self Government Department

Higher Education Department

Member Secretary, Kerala State Disaster Management Authority.

The Principal Accountant General (A&E)Kerala Thiruvananthapuram  
The Accountant General (G & SSA) Kerala, Thiruvananthapuram  
The Director, I & PRD  
Information Officer (Web and New Media), I & PRD  
Stock File

Forwarded /By order

Section Officer

Copy to: Private Secretary to the Hon'ble Chief Minister  
Special Secretary to the Chief Secretary