G.O.(Rt)No.544/2019/P&EA

GOVERNMENT OF KERALA

<u>Abstract</u>

Planning and Economic Affairs (RKI) Department- Mapathon: Project for participative development of the detailed and localized Map of Kerala in Open Street Map Platform, for efficient planning and implementation of programmes for improving disaster resilience of the State.- Implementation- Administrative Sanction accorded – Orders issued.

PLANNING & ECONOMIC AFFAIRS (RKI) DEPARTMENT

GO (Rt.) No. /2019/P&EA
Thiruvananthapuram, Dated

Read: 1. G.O. (P) No. 16/2018/P&EA dated 09/11/2018.

2. G.O. (P) No. 19/2019/P&EA dated 23/05/2019.

3. Minutes of the 7th HLEC meeting held on 21/11/2019.

1

4. G.O. (Ms) No.34/2019/P&EA dated 12/12/2019.

ORDER

The Information Technology Department submitted before Rebuild Kerala Initiative, the project proposal for Mapathon which is envisaged for participative development of the detailed and localised Map of Kerala in Open Street Map Platform, for efficient planning and implementation of programmes for improving disaster resilience of the State. Mapathon, with its target of mapping Kerala down to the local assets and resources on to the Open Street Map platform that enables easy public access, thus could form the baseline activity under Kerala Spatial Data Infrastructure (KSDI). The maps created and made available through Mapathon could subsequently be enriched with datasets from various sources and made an enabling tool for planning and implementing projects and programmes efficiently for improving the disaster resilience of the State. The salient features of the project are as follows:

Stages and Strategy of Implementation

The project is envisioned to be carried out in three stages.

- Stage 1 would focus on building basic mapping capability across the State with minimal amount of mapping done as part of the training programme and by the unstructured initiative of those get trained.

- Stage 2 would target actual field mapping by the thousands of local volunteers through structured action covering clear field boundaries like local governments and gap filling field work where canopy cover hinders satellite image availability.

- Stage 3 would be for refinement of the data and enriching the same with databases from other government sources and positioning protocols for calling for and generation of maps as required for various government offices.

Collaborative Supports

Based on the preliminary discussions on the implementation of Mapathon, under the leadership of Kerala IT Mission, general consensus for collaborated work had been arrived with a few organisations.

1. National Service Scheme (NSS), the scheme of Ministry of Youth Affairs & Sports, Government of India, has come forward to associate in a big way for the baseline data collection and uploading in the Mapathon platform.

2. IDFC Institute, the Mumbai based research-focused think / do tank had expressed willingness to provide support in developing actionable protocols , technical support for Kerala Spatial Data Infrastructure (KSDI), human resource support to KSDI

3. ESRI had offered support for improving KSDI's technological and technical agility as would be required for the effective delivery of the Mapathon programme

4. World Bank (WB) team working with the Open Data programme, has also expressed interest in associating with the project.

Preliminary Activities taken up

In line with the general programme schedule arrived through discussions with various stakeholders, KSDI and State IT Mission had initiated the preliminary steps for launching of Mapathon, the participative mapping programme (or Stage 1 programme). This include the following-

1. Initiated a mapping movement with National Service Scheme (NSS)'s units in various Engineering Colleges of the State
2. Conducted a master trainer training for 1 day for NSS Program Officers from nearly 80 colleges.
3. NSS in turn is carrying out trainer training programs and 829 students have been enrolled into the platform so far. (The persons already trained are doing some amount of mapping especially covering the buildings or roads.)
4. A campaign portal and promotional video prepared.
5. Instructional video under preparation.
6. A Telegram based communication facility created to support NSS faculty on technical matters.
7. FAQ/Common Mistakes documented for support and refinement of trainer training.

8. Various government departments were requested to prepare for trainer training on Mapathon

9. A campaign to map all government offices in Kerala was undertaken (Map My Office) – 10076 offices were already mapped and data is still flowing in.

10. Data from various institutions in Kerala is being refined for integration with OSM - mainly public institutions and roads in the corporation area (10-year-old data).

Further activities and Budget requirements

Sl.No	Item of Expenditure	Unit	Unit Price (in ₹ lakh)	Quantity	Amount (in ₹ lakh)
Stage 1: Training Programmes for building basic mapping capability					
1	Training Material and Promotional material development (50% already provided)				10.00
2	Technical Infrastructure setup including software development				50.00
3	Master Trainer training Workshops for various community groups	per workshop	0.10	500	50.00
4	Recognitions and rewards to increase volunteer participation and community mobilisation				25.00
5	Experimenting and refining methodology for local body level mapping & other experimental works				10.00
Stage 2: Focused Field Mapping at Local body level					
6	Panchayath Mapping sessions (2 rounds)	per panchayath	0.20	941	188.20
7	Municipality level (2 rounds)	per municipality	0.50	87	43.50
8	Corporation level (2-3 rounds)	per corporation	0.75	6	4.50

4

9	Weather Proofed handheld GPSs	per district batch of 10 units	0.20	140	28.00
10	Other management expenses and contingency				15.00
				Total (in □ lakh)	**424.20**

2. The HLEC, in its meeting held on 21/11/2019, approved the project proposal, Subsequently in-principle approval was accorded for the project to be taken up under RKI by sourcing requisite funds from the DPL as per the GO read as 4th paper above.

3. In the circumstances, the Government are pleased to accord Administrative sanction for the implementation of the activities listed in the table given above, in connection with the project - **Mapathon: Project for participative development of the detailed and localized Map of Kerala in Open Street Map Platform, for efficient planning and implementation of programmes for improving disaster resilience of the State** at an estimated cost of □**424.20** lakh(Rupees Four hundred twenty four lakh and twenty thousand only), by sourcing requisite funds from the Development Policy Loan. The expenditure in this regard will be debited to the head of accounts "5475-00-115-94-Post flood Projects under Rebuild Kerala Initiative (P)".

4. The Information Technology Department shall formulate an effective monitoring mechanism for the timely completion of the project. All mandatory clearances from relevant departments shall be obtained wherever applicable. All procurements as part of implementation of the work shall be done in a fair and transparent manner in accordance with the extant rules.

To:

The Principal Accountant General (A&E/ Audit), Thiruvananthapuram.

Finance Department.

Information Technology Department.

G.O.(Rt)No.544/2019/P&EA

Information & Public Relations (Web & New Media) Department (for publishing in Government website)

Stock File/Office Copy *[F.No.RKI 3/106 /2019-PLGEA]*

Copy:

The Secretary, Information Technology Department

Special Secretary to Chief Secretary.

All members of HLEC and RKI-IC.