No. MISC/6/4/2021-Fin (Bud) Part 16723   Dated :- 08/05/2024

OFFICE MEMORANDUM

Government of India has launched Gati Shakti portal to incorporate the infrastructural initiatives of various Ministries/Agencies. Whereas, Government of Goa has developed One Map Goa GIS portal aimed to provide a robust and reliable GIS-based decision system to Government Bodies under the jurisdiction of Goa. The aim of Gati Shakti portal is to develop and integrate a comprehensive data base of ongoing and future projects of various Ministries/Departments thereby facilitating planning and execution of infrastructural projects.

Hon'ble Chief Minister in his Budget Speech 2024-25 has announced that all Infrastructural works carried out by the multiple departments will be monitored by the Finance Department.

In view of above, it is now been decided that all the infrastructural works and Revenue as well as Capital works carried out through State Budget by Public Works Department, Water Resources Department and Electricity Department mandatorily shall have to be mapped on one Map Goa portal so that the same is updated on real time basis on the Gati Shakti portal. This will allow mapping of all the projects through a single common portal and also facilitate better inter departmental co-ordination and planning.

Further all such works proposed to be taken up by these departments shall be mandatorily mapped on One Map Goa/Gati Shakti portal before processing the proposal for administrative approval. Further, it may be noted that no proposal for post tender expenditure sanction shall be entertained by Finance Department without mapping of the proposed work on Gati Shakti portal. The Standard Operating Procedure to map the projects is enclosed herewith.

All the three departments above shall nominate one Nodal Officer who shall be responsible for submission of this data for uploading on Gati Shakti. In case of any assistance/queries these nominated nodal officers of the departments can approach the following officials:-

1	Shri Vithoba Sawant	Manager Goa Electronics Limited	9665657991
2	Shri Sahil Naik	GIS Analyst Goa Electronics Limited	8805647621
3.	Shri Mayur Khandeparkar	Implementation Engineer Goa Electronics Limited	8830418447

(Pranab G. Bhat)
Under Secretary (Finance Budget-I)

Encl:- Standard Operating Procedure as above.
To,
1- The Principal Chief Engineer, PWD, Altinho, Panaji-Goa
2- The Chief Engineer, WRD, Porvorim, Goa
3- The Chief Electrical Engineer, Vidhyut Bhawan , Panaji – Goa.
4- The Chief Executive Officer, Goa Electronics Ltd., Panaji – Goa.
5- P.A. to Finance Secretary, Secretary -Porvorim, Goa.
6- P.A. to Secretary (Industries), Secretariat, Porvorim, Goa.
7- Additional Secretary, Finance, Secretariat-Porvorim, Goa .
8- The Under Secretary, Finance (Expenditure) Division, Secretariat, Porvorim,Goa
9- Guard file. 10-O/c.

FINANCE (BUDGET) DIVISION
DEPARTMENT OF FINANCE,
GOVERNMENT OF GOA
SECRETARIAT, PORVORIM-GOA -403521
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<u>STANDARD OPERATING PROCEDURE FOR PROJECT MAPPING ON</u>
<u>GATI SHAKTI PORTAL</u>

I. Introduction

Gati Shakti - National Master Plan for Multi-modal Connectivity is essentially a digital platform to bring all departments together for integrated planning purpose.The multi-modal connectivity will provide integrated and seamless connectivity for movement of people, goods and services from one mode of transport to another. It will facilitate the last mile connectivity of infrastructure. Government of India has launched Gati Shakti portal to incorporate the infrastructural initiatives of various Ministries/Agencies. Whereas, Government of Goa has developed One Map Goa GIS portal aimed to provide a robust and reliable GIS-based decision support system to Government Bodies under the Jurisdiction of Goa. It also serve as a single window state GIS portal eliminating department wise integration on Gati Shakti. Both the portals need to sync with each other thus creating a comprehensive data base of ongoing and future projects of various ministries thereby facilitating planning, designing and execution of Infrastructural projects.

II. Objective of SOP

- Enable concerned government departments to create infrastructure projects on GIS portal thereby providing next generation comprehensive planning tool based on knowledge, technology and innovation.

- Successful rollout of Gati Shakti master plan developed as a Digital Master Planning tool by BISAG-N using Geographic information System (GIS) platform.

III. Procedure for Project Planning on GatiShakti

1) Data Preparation

- Data Preparation: Departments must prepare GIS data in the specified formats: KML (Keyhole Markup Language), SHP (Shape File) or CSV (Comma-Separated Values). Data should be prepared according to the guidelines provided in the Data Form Template (Annexure I) and submitted to GEL.

- If required department may approach GEL for required resources to complete GIS data collection.

2) Data Sharing

Ensure efficient and standardized submission of Geographic Information System (GIS) data by concerned departments for infrastructural project work.

Procedure:

- Submission: Data should be submitted electronically to the GEL officials via Email to the below mentioned E-mail IDs.

    Email ids : <u>vithobasawant@goaelectronics.co.in</u> , <u>sahilnaik.sn@gmail.com</u>,

    <u>mayurkhandeparkar@goaelectronics.co.in</u>

- Documentation: Each data submission should be accompanied with a completed Data Form Template attached as Annexure I ensuring all fields are accurately filled to describe the data context, location, date of acquisition on etc.

3) Data Integration on One Map Goa Portal and PM-Gati Shakti

To Standardize and integrate data from various departments into the One Map Goa GIS Portal for use and further sharing with the GatiShakti portal.

Procedure:

- Receiving and Logging: Goa Electronics Limited (GEL) shall log each data receipt, noting the date, source department, and data format.

- Data Standardization: GEL will coordinate with the department to standardize the received data incase of any discrepancy.

- Data Integration: Integrate standardized data into the One Map Goa GIS Portal. GEL will use data integration tools and software that are compatible with the portal's architecture to ensure smooth integration.

- Quality Assurance: Perform quality checks to ensure data integrity and correct alignment with existing layers on the portal.

4) Data Validation

To Maintain the accuracy and reliability of GIS data used in infrastructural projects.

Procedure:

- Validation by Source Department: Before submission, the source department must validate GIS data for accuracy and completeness. This includes verifying data against ground truths or secondary data sources.

- Error Reporting: Any discrepancies or errors identified must be documented and reported back to GEL for correction before final submission to GEL.

5) Format Rendering for PM-Ghati Shakti

To Ensure that integrated GIS data is compatible and functional on the GatiShakti portal.

Procedure:

- Data Rendering: GEL shall render the integrated data using the Web Feature Service (WFS) protocol, which will serve georeferenced vector data over the internet.. This involves communication with the GatiShakti teamto render the data in predefined format .

6) Integration & Testing

The final integration step culminates by seamlessly incorporating the standardized and validated GIS data into the Gati Shakti portal, thereby facilitating its utilization for informed decision-making and strategic planning on the platform.

Procedure:

- Data Link: GEL provides the WFS URL and necessary credentials to the PM-Gati Shakti team.

- The PM-Gati Shakti team & GEL integrates the WFS (Web Feature Service) into the portal. This process includes rigorous testing using industry-standard web service protocols. The testing focuses on ensuring data accessibility, accurate display, optimal performance, and robust security. Any necessary adjustments are made to guarantee a seamless user experience.

7) Project Authorization

- Respective department shall validate the uploaded project on GatiShakti portal and authenticate the correctness of GIS data via email

- Incase the data is found incorrect errors identified must be documented and reported back to GEL for correction before final submission to GEL.

8) Project ID Generation

To ensure that the infrastructure projects are linked to the Gati Shakti Portal.

Procedure:

- ID Generation: Upon data integration, the GIS portal shall automatically generates a unique Project ID for each project layer.

- References : The concerned department must include this Project ID in all official documents and communications while seeking approvals , facilitating a clear and traceable line of accountability and audit.

9) Project Data Updation & Viewing

Concerned department authorized person shall have the provision to update and view project data on GIS Portal using assigned credentials.

IV: Nodal Officials of GEL

1) Mr. Vithoba Sawant (Manager) - 9665657991

2) Mr. Sahil Naik (GIS Analyst) - 8805647621

3) Mr. Mayur Khandeparkar (Implementation Engineer) - 8830418447

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Department: [Department Name]

1. Data Format:

☐ Shape file [Please check the box]
☐ KML
☐ CSV

2. Layer Information:

a) **Layer Name:** This name will appear in the "Layers & Legend" list on One Map Goa Portal and accordingly on Gati Shakti

b) **Attribute List :**Specify the list of attribute towards the layer.[E.g Name, Address etc.]

c) **Styling/Legend:** [Specify styling details, colors, symbols, attach legend images/SVG icon or provide references if available]

[Repeat for additional layers as needed]

Authorized   Signatory:

[Signature]_____

[Name and Designation]

Date: