



**FINANCE (BUDGET) DIVISION
DEPARTMENT OF FINANCE,
GOVERNMENT OF GOA**

SECRETARIAT, PORVORIM-GOA -403521

Phone No. (0832) 2419778

E-mail usbud1-sect.goa@nic.in

No. MISC/6/4/2021-Fin (Bud) Part/ 16879

Dated :- 17/07/2024

Ref:- O.M. No. MISC/6/4/2021-Fin (Bud) Part/16723 dated 08/05/2024

CIRCULAR

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.

In this regard, an Office Memorandum referred herein above and Standard Operating Procedure was issued by this department (copy enclosed as Annexure 'A'). Initially, only three Departments were considered (*viz. PWD, WRD and Electricity Departments*) for mapping of infrastructure on the portal. Now, the Government has decided that all departments should on board this platform and map all the existing as well as new infrastructure projects being carried out from the state funds through any executing agency such as Government Department, Village Panchayat, Municipalities, Corporations, Autonomous Bodies, etc on the portal.

All Heads of Department, Government of Goa are hereby requested to adhere to the instructions contained in the above referred Office Memorandum with immediate effect. HODs may also ensure that the Public Sector Undertakings/Corporations/Autonomous bodies coming under their administrative control may also be directed to adhere to the instructions in aforesaid O.M. The copy of above referred O.M. alongwith standard Operating Procedure is also available on the website www.goabudget.gov.in.

Further, HODs are also requested to ensure that information in respect of projects to be undertaken under PM Gati Shakti is submitted to the Department of Industries in prescribed format enclosed herewith as Annexure 'B'.


(Pranab G. Bhat)

Under Secretary (Finance Budget-I)

Encl: As above.

To,

- 1- All Heads of Department
Government of Goa.

Copy to:-

- 1- The Chief Executive Officer, Goa Electronics Ltd., Panaji – Goa.
- 2- P.A. to Finance Secretary, Secretary -Porvorim, Goa.
- 3- P.A. to Secretary (Industries), Secretariat, Porvorim, Goa.
- 4- Additional Secretary, Finance, Secretariat-Porvorim, Goa .
- 5- The Under Secretary, Finance (Expenditure) Division, Secretariat, Porvorim,Goa.
- 6- Guard file. 7-O/c.



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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.



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**STANDARD OPERATING PROCEDURE FOR PROJECT MAPPING ON
GATI SHAKTI PORTAL**

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 : vithobasawant@goelectronics.co.in , sahilnaik.sn@gmail.com,

mayurkhandeparkar@goelectronics.co.in

- 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.

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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 in case 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 team to 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
- In case 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 generate 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:

Format for submission of project information for consideration Under PM Gati Shakti

PROJECT BRIEF				
Name of the Department				
Project Title				
Location (District)				
Project Proponent				
Implementing Agency				
STATUS OF PROJECT				
DPR/Project Status				
Anticipated/Total Project Cost				
Land Acquisition Status				
Land Acquisition Cost				
Land Acquisition Timeline				
Expected project completion timeline				
Has Project been mapped on PM Gati Shakti Portal? (Annex Schematic diagram taken from PM Gati Shakti Portal)				
Salient features of the Project				
In bullet points,				
Alignment with Gati Shakti Principles				
Information Required	Yes	No	Other / NA	Remarks
Does the project align with the principles of PM Gati Shakti?				
Does the project directly facilitate multi-modal infrastructure or Industrial Development				
Expected Impact of the project on Logistics efficiency (If Applicable)				
Information Required	Yes	No	Other/ NA	Remarks
Is this project expected to lower the current logistics cost? Please quantify the financial benefit				
Has the shortest path along with multimodal impact taken into consideration?				
Integrated Planning Approach				

Information Required	Yes	No	Other/ NA	Remarks
Does the project positively impact any other infrastructure sectors (rail, roads, telecom, power etc.)? If so How				
Has the alignment been done with the data layers of other Deptt. on NMP? E.g.: Forest, Economic Zones, Road, Water Bodies, Tourism etc				
Are all the approvals required been identified and listed?				
Financial Model & Implementation Framework				
Information Required	Yes	No	Other/ NA	Remarks
What is the mode of implementation of this project?	PPP	EPC	Any other	
What is the structure of finance chosen for this project? (Capital structure, debt/equity/subsidy etc.)				
Expected Impact of the project on Logistics efficiency				
In bullet points				
Summary of Impact Assessment (refer Annexure II)				
In bullet points				

Annexure -I

Proposed intervention required from other departments for integrated planning, synchronized implementation and expected clearances

S. No	Name of Department	Proposed activity for integrated planning	Proposed activity for enhanced optimization (through modification, expansion, new components)	Expected Clearances required	Remarks
1.	PWD				
2.	Forest				
3.	Energy				
4.	Irrigation				
5.	Mining				
6.	Tourism				
7.	Industry				
8.	Home				
9.	Agriculture				
10	Others				

Annexure – II

Multimodal Connectivity		
Distance to nearest (in km)		Is there existing connectivity to nearest mode or being planned?
Airport		
Inland Waterways		
Railway Station		
Metro Station (If applicable)		
Bus Stand		
Nearest National Highway		
Nearest State Highway		

Impact Assessment of the Project

Environment Impact	
Usage of Non-Conventional Energy	
Rain water Harvesting	
Solid Waste Disposal	
Effluents Disposal	
Use of sustainable methods during planning and construction	

Economic Impact	
Increase in traffic	
Saving in time	
Reduction in travel distance (km)	
Increase in efficiency	

Social Impact	
Access to Health Infrastructure	
Access to Educational infrastructure	
Access to employment centre	

*Reduction in travel time to health, education and employment centres	
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Employment Impact	
Direct employment generation (<i>no. of ppl employed</i>)	
Indirect employment generation (no. of ppl employed)	
Expected generation of Business opportunities	