

पीएम गतिशक्ती पोर्टलवर डेटा तयार करणे,
प्रमाणीकरण करणे आणि अपलोड करण्यासाठीची
मानक कार्यप्रणाली (SOP).

महाराष्ट्र शासन
नियोजन विभाग,
शासन निर्णय क्रमांक : सुसंके - २०२५/प्र.क्र. ८२ (ई १६६८८८९) / का.१४१८
मंत्रालय, मुंबई ४०० ०३२
दिनांक: १८ जून, २०२६

संदर्भ-१. नियोजन विभाग, शासन निर्णय क्र. सुसंके-२०२५/प्र.क्र. ८२/का. १४१८, दि. १९.११.२०२५

२. नियोजन विभाग, शासन निर्णय क्र. सुसंके-२०२५/प्र.क्र. ८२/का. १४१८, दि. १९.०५.२०२६

शासन निर्णय

पीएम गतिशक्ती (PM GatiShakti) नॅशनल मास्टर प्लॅनसाठी राज्यस्तरावर करावयाच्या मास्टर प्लॅनच्या अनुषंगाने, दिनांक १९.११.२०२५ च्या शासन निर्णयान्वये पीएम गतिशक्तीच्या अंमलबजावणीसाठी विविध समित्यांची स्थापना करण्यात आली आहे. मा.मुख्य सचिवांच्या अध्यक्षतेखाली दिनांक २९.०४.२०२६ रोजी आयोजित करण्यात आलेल्या सचिव स्तरीय शक्तीप्रदान समितीच्या बैठकीत (EGoS) शासनाच्या सर्व विभागांमध्ये पीएम गतिशक्ती पोर्टलचा वापर अधिक प्रभावीपणे करण्याचे निर्देश देण्यात आले आहेत. तसेच, सदर बैठकीत दिलेल्या निर्देशानुसार दिनांक १९.०५. २०२६ रोजीच्या शासन निर्णयाद्वारे रु १५कोटी वरील अधिक रकमेच्या प्रकल्पाकरीता पीएम गतिशक्ती पोर्टलचा वापर बंधनकारक करण्यात आला आहे.

२. राज्याच्या विकासासाठी पीएम गतिशक्तीचा, नेटवर्कींग व प्लॅनिंग टूल म्हणून वापर करण्याची आवश्यकता आहे. त्याकरिता पीएम गतिशक्ती पोर्टलवर डेटा संकलित करणे, प्रमाणीकरण करणे आणि अपलोड करण्यासाठीची मानक कार्यप्रणाली (SOP) या शासन निर्णयासोबतच्या **परिशिष्ट अ** प्रमाणे जाहीर करण्यात येत आहे .

३. सर्व प्रशासकीय विभाग / क्षेत्रीय कार्यालये /स्थानिक स्वराज्य संस्था / शासकीय व निमशासकीय संस्था / महामंडळे यांनी सदर कार्यप्रणालीचा वापर करावा.

४. हा शासन निर्णय महाराष्ट्र शासनाच्या www.maharashtra.gov.in या संकेतस्थळावर उपलब्ध करण्यात आला असून त्याचा संगणक संकेतांक २०२६०६१८१४४५००६७१६ असा आहे. हा शासन निर्णय डिजीटल स्वाक्षरीने साक्षांकित करून काढण्यात येत आहे.

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९. मा. उपाध्यक्ष, महाराष्ट्र विधानसभा, यांचे खाजगी सचिव, महाराष्ट्र विधानमंडळ सचिवालय, मुंबई.
१०. सर्व सन्माननीय सदस्य, विधानपरिषद/ विधानसभा, महाराष्ट्र विधानमंडळ सचिवालय, मुंबई.
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१२. सचिव तथा विकास आयुक्त, नियोजन विभाग, मंत्रालय, मुंबई.
१३. अपर मुख्य सचिव/प्रधान सचिव/सचिव, सर्व मंत्रालयीन विभाग यांना विनंती करण्यात येते की, त्यांनी सदर शासन निर्णय त्यांच्या अधिपत्याखालील सर्व क्षेत्रिय कार्यालये/ महामंडळे इत्यादींच्या निदर्शनास आणावा.
१४. मुख्य सचिव यांचे वरिष्ठ स्वीय सहायक, मंत्रालय, मुंबई.
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नियोजन विभाग
Planning Department
महाराष्ट्र शासन



Government of
Maharashtra

(शासन निर्णय क्रमांक: सुसंके -२०२५/प्र.क्र.८२(ई १६६८८८९)/का.१४१८ सोबतचे परिशिष्ट अ)



Standard Operating Procedure (SOP) for Data Preparation, Validation and Upload on PM GatiShakti Portal



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Chapter - 1: Background and Context

The PM GatiShakti National Master Plan (NMP) has been envisaged as a transformative initiative to enable integrated infrastructure planning and coordinated decision-making across multiple sectors, including transport, logistics, energy, urban development, and industry. The platform leverages geospatial technologies to integrate diverse datasets from various departments into a unified digital interface, thereby facilitating holistic, synchronized, and evidence-based planning.

In the context of Maharashtra one of India's most industrialized and infrastructure-intensive states the effective implementation of PM GatiShakti is of critical importance. The State is witnessing rapid expansion in industrial corridors, logistics parks, multimodal transport systems, and urban infrastructure, all of which necessitate strong inter-departmental coordination and spatial alignment.

Traditionally, infrastructure planning has often been undertaken in departmental silos, leading to duplication of assets, sub-optimal utilization of resources, implementation delays, and conflicts in land use and alignment. The PM GatiShakti platform addresses these challenges by providing a common geospatial planning base that enables departments to visualize existing and proposed infrastructure, identify gaps, and align projects proactively.

For the platform to function effectively, it is imperative that all participating departments provide accurate, standardized, and geo-referenced data, with continuous real-time updates and periodic validation to ensure that the latest and most reliable information is consistently maintained. In this regard, technical agencies such as the Maharashtra Remote Sensing Applications Centre (MAHA GEO-TECH / MRSAC) and the Bhaskaracharya National Institute for Space Applications and Geo-Informatics (BiSAG-N) play a key role in data integration, validation, and visualization.

Accordingly, this Standard Operating Procedure (SOP) establishes a structured and uniform framework defining processes, responsibilities, and standards for data preparation, validation, and upload to the PM GatiShakti portal. The SOP is intended to guide all departments in Maharashtra, ensuring consistency, accountability, and effective utilization of the platform as a core planning and decision-support tool.

Chapter - 2: Objective

The primary objective of this SOP is to provide a comprehensive and standardized framework for the preparation, validation, and uploading of departmental data onto the PM GatiShakti portal, thereby enabling its effective use for planning and decision-making.

The specific objectives of the SOP are to:

1. Establish uniform data standards and protocols across departments to ensure interoperability and consistency of geospatial datasets
2. Ensure all uploaded data is accurate, reliable, geo-referenced, and regularly updated with real-time/latest inputs, with periodic validation.
3. Define clear roles, responsibilities, and accountability mechanisms for data management within departments
4. Ensure that departments upload only authorized datasets within their jurisdiction, maintaining ownership integrity and avoiding duplication
5. Facilitate seamless integration of datasets through coordination with technical agencies such as MAHA GEO-TECH / MRSAC and BiSAG-N
6. Promote inter-departmental coordination and data sharing for improved planning outcomes
7. Support evidence-based decision-making, including project planning, DPR preparation, feasibility analysis, and prioritization
8. Enable identification of infrastructure gaps, redundancies, and optimization opportunities
9. Encourage adoption of real-time or frequently updated datasets to reflect current ground realities
10. Build a robust and sustainable data ecosystem to support long-term infrastructure planning and policy formulation in Maharashtra

Overall, the SOP aims to position data as a strategic asset for governance, enabling Maharashtra to fully leverage the PM GatiShakti platform for integrated and forward-looking development.

Chapter - 3: Scope

This SOP applies to all stakeholders involved in infrastructure development, service delivery, and spatial data generation within the State of Maharashtra.

The scope includes:

1. State Government Departments, Public Sector Undertakings (PSUs), Boards, Authorities, and Corporations involved in infrastructure planning, development, or management
2. District, regional, and field offices that act as primary sources of ground-level data
3. Agencies responsible for data creation, maintenance, and dissemination related to infrastructure and allied sectors

3.1 Agencies and Data Management

Agencies responsible for infrastructure planning, development, and scheme implementation must also maintain spatial and non-spatial datasets. The SOP covers the full lifecycle of data management from identifying and owning datasets to collecting, consolidating, digitizing, and geo-referencing them.

1. Standardize formats and attributes
2. Validate and approve before submission
3. Upload and integrate onto the PM GatiShakti portal
4. Verify post-upload and ensure periodic updates

3.2 Additionally, the SOP also encompasses

1. Mechanisms for inter-departmental coordination and data sharing
2. Protocols for handling discrepancies, errors, and unauthorized data uploads
3. Integration of data into planning workflows and project lifecycle stages

By covering all aspects of data handling and integration, this SOP ensures that the PM GatiShakti platform becomes a central tool for coordinated infrastructure planning and governance in Maharashtra, rather than merely a data repository.

Chapter - 4: SoP for Institutional Framework

This SOP outlines the institutional framework for implementing PM GatiShakti in Maharashtra, with the Planning Department designated as the nodal agency. It defines the roles and responsibilities of the State PM GatiShakti Cell, departmental nodal officers, data managers, data approvers, and technical agencies, in alignment with the Government of India's Compendium of Roles and Responsibilities. The objective is to ensure seamless coordination, accountability, and standardized data management across departments, enabling effective infrastructure planning and integrated development.

4.1 Nodal Agency (Planning Department, Maharashtra)

The Planning Department is the apex authority for PM GatiShakti in the state. As the nodal agency, it provides strategic direction, ensures compliance with Government of India norms, and anchors the institutional framework for coordination across departments and technical agencies.

Responsibilities shall include:

1. Appoint the State Nodal Officer.
2. Ensure alignment with GoI guidelines and state-specific requirements.
3. Provide policy direction and institutional support.
4. Facilitate collaboration with MAHA GEO-TECH / MRSAC and BiSAG-N.
5. Establish and oversee the State PM GatiShakti Cell.

4.2 State PM GatiShakti Cell

The State PM GatiShakti Cell shall function as the central coordinating and facilitation authority. The Cell shall play a critical role in ensuring alignment across departments and act as the nodal bridge between State departments and technical agencies, including MAHA GEO-TECH / MRSAC & BiSAG-N.

Responsibilities shall include:

1. Facilitating inter-departmental coordination and resolving conflicts related to data ownership or duplication
2. Monitoring the progress of data preparation, upload, and updates across departments
3. Providing guidance on data standards, formats, and compliance requirements
4. Supporting departments in addressing technical or procedural bottlenecks
5. Acting as an escalation authority for unresolved issues

4.3 Departmental Nodal Officer

At the departmental level, each department shall designate a Nodal Officer, who will serve as the single point of accountability for PM GatiShakti-related activities. The Nodal Officer shall be responsible for ensuring departmental compliance with the SOP, active participation in data-driven planning processes and TSU meetings, and API-based integration of departmental data with the PM GatiShakti Portal, along with data accuracy, timely updates, defined update frequency, and periodic validation.

Responsibilities shall include:

1. Ensuring that only authorized and jurisdiction-specific data is uploaded
2. Overseeing data preparation, validation, and submission processes
3. Coordinating internally with field offices and externally with other departments
4. Appointing and supervising Data Managers and Data Approvers
5. Ensuring timely updates and maintenance of datasets
6. Should complete the basic understating of PM GatiShakti on iGOT Karmayogi

4.4 Data Approver

The Data Approver functions as the quality gatekeeper within each department. Their role is to verify accuracy, completeness, and compliance of datasets before granting approval, thereby safeguarding the integrity of data used for planning and decision-making.

Responsibilities shall include:

1. Verify spatial accuracy, attribute completeness, and compliance.
2. Certify datasets as accurate, validated, and fit for planning.
3. Provide final approval before datasets are published
4. Should complete the basic understating of PM GatiShakti on iGOT Karmayogi

4.5 Data Manager

The Data Manager plays a hands-on operational role in managing datasets. With domain knowledge and GIS capability, they handle the collection, digitization, formatting, and uploading of data, ensuring it meets required standards and is ready for validation. It shall be the responsibility of the data manager to train the data collector/ on field data collection team and ensure that data standards are adhered to.

Responsibilities shall include:

1. Collect, digitize, geo-reference, format, and upload datasets.
2. Possess domain knowledge and GIS capability.
3. Address queries raised during validation.

4. Coordinate corrections where required.
5. Should complete the basic understating of PM GatiShakti on iGOT Karmayogi

4.6 Data Collector / Field Data Collection Team

The Data Collector or Field Data Collection Team shall be responsible for creation and collection of geospatial data at the ground level. This role shall apply wherever fresh field-level data is required to be captured for assets such as roads, buildings, utilities, infrastructure facilities, or any other spatial assets relevant to the department. The Data Collector shall ensure that the data collected from the field is accurate, geo-referenced, and aligned with the mandatory attribute requirements prescribed under this SOP. The Data Collector shall work under the guidance of the Data Manager and in coordination with the Data Approver to ensure that the collected data is complete, usable, and fit for further validation and upload onto the PM GatiShakti portal.

Responsibilities shall include:

1. Collect geospatial data from the ground for relevant assets such as roads, buildings, utilities, infrastructure facilities and other department-specific assets.
2. Capture all mandatory attributes as defined under the data standardisation requirements, including geo-referenced coordinates, unique ID, name of asset, type/nature of asset, date of commencement, specifications of the asset, and other prescribed details.
3. Record additional information wherever required, based on departmental needs, operational requirements, or planning relevance.
4. Ensure that field data collected is accurate, complete, geo-referenced, and reflective of ground realities.
5. Use appropriate tools such as MIS platform or other approved technical platforms for field data collection.
6. In case of Non availability of resources the collector may seek additional tools, technical guidance, or support wherever required through the Data Manager, State PM GatiShakti Cell, MAHA GEO-TECH / MRSAC, or BiSAG-N, as applicable.
7. Work in tandem with the Data Manager for data consolidation, digitization, formatting and correction.
8. Support the Data Approver by providing clarifications, field verification inputs, or revised data wherever required during the validation process.
9. Ensure that collected data is submitted in the prescribed format and within the timelines defined by the concerned department.
10. Report field-level discrepancies, missing attributes, alignment issues, or data gaps to the Data Manager for necessary correction and consolidation.

4.7 Technical Agencies

Technical support and backend integration shall be facilitated through specialized agencies:

1. MAHA GEO-TECH / MRSAC shall provide GIS support, API Support, data standardization, validation assistance, and capacity building for departments, especially in cases where internal technical capacity is limited.
2. BiSAG-N provides GIS support, develops planning tools, Mobile apps, dashboards, and manages integration, hosting, and publishing of approved datasets on the PM GatiShakti portal, ensuring accurate visualization and accessibility of data. This is only a broad overview of BiSAG-N's role; its detailed responsibilities are already defined by the Government of India and documented in the Compendium of Roles and Responsibilities for PM GatiShakti (DPIIT, GoI, 2023), which may be referred to for further information.

This institutional framework ensures a clear chain of responsibility, minimizes ambiguity, and enables efficient coordination across multiple stakeholders, which is essential for the success of PM GatiShakti.

Chapter - 5: SoP for Data Governance Framework

A robust and well-defined Data Governance Framework is essential for ensuring that the PM GatiShakti platform functions as a reliable, accurate, and decision-supportive system for integrated infrastructure planning in Maharashtra.

Given that the platform integrates datasets from multiple departments, the absence of standardized governance mechanisms may lead to inconsistencies, duplication, and reduced usability. Therefore, this framework establishes clear principles, standards, and protocols to ensure that all data uploaded is authentic, consistent, interoperable, and fit for planning purposes.

5.1 Data Ownership and Authority

Data ownership shall rest with the originating department, and each department shall be responsible for managing and uploading only those datasets that fall within its legal, administrative, and functional jurisdiction.

Departments must strictly ensure that:

1. Data ownership shall vest with the originating department.
2. Departments shall upload only datasets falling within their legal and functional jurisdiction.
3. Uploading another department's data without formal concurrence is prohibited.
4. Duplication of datasets shall be avoided.

In scenarios where multiple departments have overlapping interests (for example, roads, utilities, land use, or logistics infrastructure), coordination shall be undertaken through the State PM GatiShakti Cell to ensure:

5. A single source of truth is maintained
6. Data representation is harmonized
7. Conflicts or redundancies are eliminated

This principle is critical to maintaining data integrity, ownership clarity, and trust in the platform.

5.2 Data Quality, Accuracy and Integrity

The effectiveness of PM GatiShakti as a planning tool is directly dependent on the quality and reliability of the data. Accordingly:

1. All datasets must be accurate, validated, and reflective of ground realities
2. Spatial data must be properly geo-referenced and aligned with standard coordinate systems
3. Attributes must be complete, consistent, and logically structured
4. Departments shall implement internal validation mechanisms prior to submission, including:
5. Cross-verification with field offices

6. Consistency checks across datasets
7. Elimination of spatial errors such as overlaps, gaps, or misalignments

Any inaccuracies in the data may lead to incorrect planning decisions, project misalignment, and financial inefficiencies, and therefore departments shall bear full responsibility for ensuring data integrity.

5.3 Data Validity and Update Protocol

To maintain relevance and usability, it is essential that the data on the platform reflects the latest available information.

Departments shall ensure that:

1. Data is updated periodically as per predefined frequency (real-time, annual, or project-based)
2. Newly created or modified infrastructure assets are promptly reflected
3. Obsolete or outdated datasets are either updated, replaced, or clearly flagged

Wherever feasible, departments are encouraged to adopt:

4. Automated data update mechanisms
5. Integration through APIs or Web Feature Services (WFS)

This will enable near real-time updates and ensure that the platform remains dynamic and responsive to ongoing developments.

5.4 Data Security and Sensitivity

Departments shall ensure that all data is handled in accordance with applicable Government of India and Government of Maharashtra data security guidelines.

Datasets shall be classified into:

1. Public
2. Restricted (on for Government to Government i.e G2G)
3. Sensitive (Only within the concerned department)

For sensitive datasets:

4. Appropriate access controls shall be implemented
5. Data sharing shall be restricted to authorized users
6. Security protocols shall be strictly adhered

This ensures a balance between data accessibility for planning and protection of critical information.

Chapter - 6: SoP for Data Standardisation

This chapter elaborates the technical principles and specifications that departments shall adhere to while preparing and managing datasets for integration with the PM GatiShakti portal. These standards ensure that datasets are system-ready, interoperable across sectors, and suitable for advanced spatial analysis and integrated planning, while remaining aligned with the governance principles defined in earlier chapters.

6.1 Data Standardization

Given the multi-departmental nature of PM GatiShakti, standardization is essential for enabling seamless integration and cross-sectoral analysis. Departments shall ensure that datasets must adhere to a standardized attribute structure, including mandatory attributes such as:

Overall Layer should have

1. Layer Name
2. Department Name
3. Layer Description
4. Upload Date
5. Frequency of Update (Realtime/Frequency based)
6. Name and Details of the Concerned Officer

Each layer should have the following mandatory attributes:

7. Geo Referenced Coordinates
8. Unique ID
9. Name of the asset
10. Type of Asset (Materia/ Nature)
11. Date of asset commenced
12. Specifications of the asset

It is emphasized that these attributes are not exhaustive. Departments are encouraged to include additional attributes as per their operational and sectoral requirements, such as:

13. Capacity and utilization
14. Project status (planned, ongoing, completed)
15. Financial details
16. Connectivity linkages

Such enhancements will significantly improve the analytical value of datasets and support advanced planning and decision-making processes.

6.2 Spatial Structuring and Topology Integrity

All spatial datasets shall be prepared using standard coordinate reference systems prescribed for the PM GatiShakti platform. Departments shall ensure that spatial features are correctly positioned and aligned with approved base layers so that datasets can be reliably overlaid and analysed across sectors. Key requirements include:

1. Use of prescribed coordinate reference systems and projections
2. Accurate geo-referencing aligned with standard base maps
3. Consistent spatial representation across datasets

Topology integrity is mandatory to support analytical use cases. Accordingly:

4. Polygon datasets shall be free from overlaps, gaps, slivers, and invalid geometries
5. Line datasets (roads, railways, pipelines, transmission lines) shall maintain logical connectivity and continuity
6. Point datasets shall be accurately located and consistently classified

These requirements are essential for enabling network analysis, corridor planning, accessibility assessment, and infrastructure optimization.

6.3 Advanced Data Integration Readiness

To move beyond static data usage, departments shall progressively align their datasets for dynamic integration, including:

1. The data shall be mandatorily integrated with the PM GatiShakti Portal through API, ensuring accuracy, reliability, geo-referencing, latest/real-time updates, defined update frequency, and periodic validation.
2. In case API integration is not available, the concerned Departmental Nodal Officer shall be responsible for sharing the data, along with the details of the concerned and ensuring compliance with the above requirements.
3. Ensuring compatibility with real-time or near real-time data feeds
4. Maintaining version control for datasets to track updates

This will enable the platform to function as a live decision-support system, particularly for sectors such as transport, utilities, and urban services.

Chapter - 7: SoP for Data Preparation and Digitization

This section provides an implementation-oriented approach for transforming departmental data into high-quality, GIS-ready datasets, aligned with PM GatiShakti requirements.

7.1 Data Inventory and Conversion

Departments should first prepare an inventory of datasets, prioritizing core infrastructure layers, followed by supporting and reference layers. Priority goes to data that directly impacts planning, has cross-sector relevance, or is needed for ongoing projects.

Many datasets exist in non-spatial formats like reports, Excel sheets, or paper maps. These must be systematically converted into spatial data by geo-referencing maps, transforming tabular data into spatial features, and linking attributes with spatial layers.

7.2 Standardized Data Structuring Workflow

Departments shall adopt a stepwise workflow for data preparation:

1. Raw data collection and consolidation
2. Digitization and geo-referencing
3. Spatial structuring (point/line/polygon)
4. Attribute attachment and enrichment
5. Internal validation and corrections
6. Final dataset preparation for upload

This structured approach ensures consistency and repeatability across departments.

7.3 Use of Tools and Technical Platforms

Departments should rely on modern technical platforms to prepare and manage datasets effectively. GIS software, mobile-based data collection apps, and MIS systems with spatial integration are the primary tools. Where internal capacity is limited, support can be sought from MAHA GEO-TECH / MRSAC or BiSAG-N, coordinated by the State PM GatiShakti Cell.

1. Use GIS, mobile apps, and MIS systems
2. Seek support from MAHA GEO-TECH / MRSAC or BiSAG-N when needed
3. Coordination facilitated by the State PM GatiShakti Cell

Chapter - 8: SoP for Data Upload Workflows

Building on the technical readiness outlined in earlier sections, this section defines the operational workflows for data upload, ensuring a structured, traceable, and accountable process from dataset readiness to final publishing on the PM GatiShakti portal.

8.1 Workflow Structuring and Role-Based Execution

The data upload process shall follow a role-based, sequential workflow, ensuring segregation of responsibilities and quality control at each stage:

1. Field-level data collection by Data Collector / Field Data Collection TeamData preparation and submission by Data Manager
2. Validation and approval by Data Approver
3. Final integration and publishing through BiSAG-N

This structured approach ensures:

4. Accountability at each stage
5. Prevention of unauthorized or unverified data uploads
6. Maintenance of data quality and integrity

8.2 Direct Upload Mechanism (Portal-Based)

Departments with adequate technical capacity shall utilize the Data Upload Management System embedded within the PM GatiShakti portal.

Key operational aspects include:

1. Upload of datasets in prescribed formats (as per Section 6)
2. Automated validation checks at the system level
3. Role-based approval workflows before publishing
4. System-generated audit trail for each upload

This method ensures faster turnaround time and direct departmental control over data.

8.3 Assisted Upload Mechanism (Facilitated Mode)

For departments requiring technical support, an assisted workflow shall be adopted:

1. Data is shared with MAHA GEO-TECH / MRSAC for processing and standardization
2. After validation, data is transmitted to BiSAG-N via WFS/API
3. Final upload is carried out by BiSAG-N

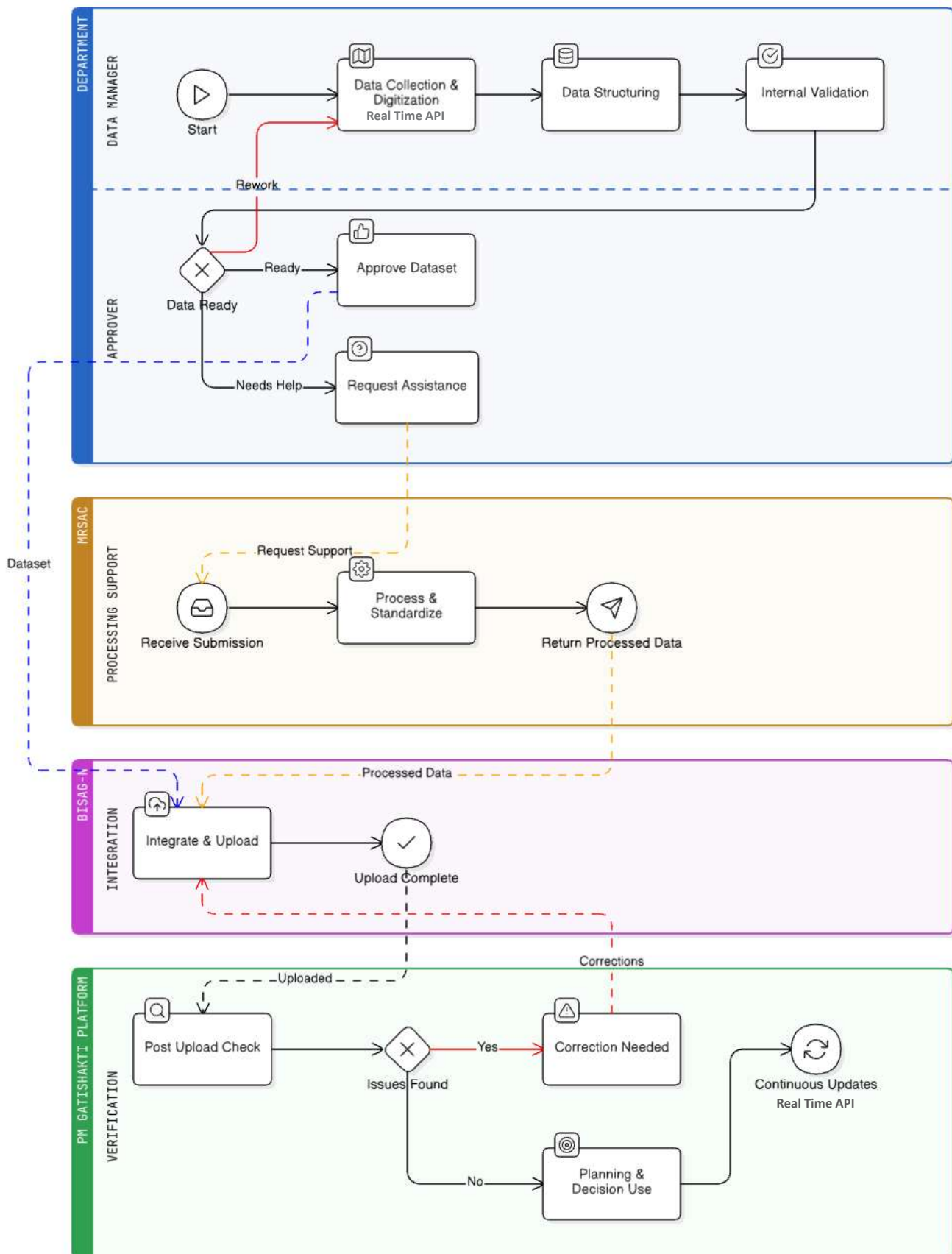
This ensures that departments with limited GIS capacity can still contribute high-quality datasets.

8.4 Post-Upload Verification

After publishing, departments shall undertake mandatory verification to ensure:

1. Correct spatial visualization
2. Attribute integrity
3. Proper layer classification and accessibility

Any discrepancies observed at this stage must be immediately flagged for rectification.



Chapter - 9: SoP for Data Validation and Quality Assurance

While validation principles are covered earlier, this section focuses on operational enforcement of quality checks during and after upload.

9.1 Multi-Level Validation Approach

Validation shall be carried out at three levels:

1. Pre-upload validation by department (Data Manager & Approver)
2. Technical validation during integration by BiSAG-N
3. Post-upload validation by the department

This layered approach minimizes errors and ensures high data reliability.

9.2 System-Based and Manual Validation

Validation shall combine automated and manual checks to ensure both technical correctness and planning relevance. Validation shall include:

1. Automated system checks (format, projection, schema)
2. Manual review for logical consistency and planning relevance

Departments must ensure that data is not only technically correct but also contextually valid for planning use cases.

9.3 Continuous Validation Mechanism

Validation is not a one-time activity. Departments shall:

1. Periodically review datasets
2. Incorporate corrections based on field feedback
3. Ensure consistency with newly added layers

Continuous validation sustains trust and usability of the platform.

Chapter - 10: SoP for Issue Resolution, Error Handling and Unauthorized Data Management

To maintain the integrity and credibility of the platform, a structured mechanism for issue resolution and data correction is essential.

10.1 Error Identification and Reporting

Errors related to datasets, data layers, or incorrect information may be identified through multiple channels, including:

1. **Departmental Review:** Internal scrutiny conducted within individual departments to verify the accuracy and consistency of data.
2. **Inter-Departmental Observations:** Cross-checks and feedback provided during collaborative reviews between different departments.
3. **Specialized Feedback:** Inputs received from the PM GatiShakti Cell, MAHA GEO-TECH, MRSAC, or BiSAG-N, based on their technical expertise and monitoring activities.

All identified issues must be formally documented either by Recording them directly through the PM GatiShakti portal, ensuring traceability and accountability, or by Communicating them via official email to the State PM GatiShakti Cell for necessary action and resolution.

10.2 Rectification Workflow

If identified through the portal:

1. The Data Manager shall review the issue and initiate necessary corrections.
2. The Data Approver shall validate the revised dataset to ensure accuracy and compliance.
3. Once validated, the updated dataset shall be re-submitted for integration into the portal.
4. Where required, coordination with BiSAG-N shall be undertaken to facilitate technical support and ensure smooth resolution.

If reported to the State PM GatiShakti Cell:

5. The Cell will coordinate directly with the department concerned to address the discrepancy.
6. The Cell shall provide necessary guidance and support throughout the resolution process.
7. After the issue is resolved, the department concerned shall upload the corrected dataset on the portal, strictly following the Standard Operating Procedures (SoP) outlined in earlier chapters.

10.3 Handling Unauthorized Data Upload

In cases where a department identifies that data has been uploaded by another department without jurisdiction:

1. The department concerned shall raise the issue through the portal or inform the State PM GatiShakti Cell
2. Ownership shall be verified with the concerned department

If found unauthorized:

- a) Data Manager of the department concerned initiates removal request
- b) Data Approver validates the request
- c) BiSAG-N removes the dataset from the PM GatiShakti portal

This ensures data ownership integrity and avoids duplication/conflicts.

Outcomes:

This Standard Operating Procedure establishes a comprehensive, structured, and uniform framework for the preparation, validation, and integration of departmental datasets on the PM GatiShakti portal in the State of Maharashtra. By clearly defining institutional roles, data governance principles, technical standards, and operational workflows, the SOP seeks to ensure that data made available on the platform is accurate, authoritative, interoperable, and fit for planning and decision-making purposes.

The effective implementation of this SOP will enable departments to move away from siloed planning approaches and adopt a coordinated, spatially informed, and evidence-based methodology for infrastructure development. Consistent adherence to the processes and standards outlined herein will facilitate improved project alignment, avoidance of duplication, optimal utilization of public resources, and timely identification of infrastructure gaps and opportunities.

Departments are expected to treat data as a strategic asset and to institutionalize the practices defined in this SOP as part of their regular planning and project management workflows. Continuous updating, validation, and enhancement of datasets, supported by strong inter-departmental coordination and technical facilitation, will ensure that the PM GatiShakti platform remains current, reliable, and analytically robust.

The State PM GatiShakti Cell shall periodically review the implementation of this SOP and may issue clarifications, updates, or revisions as required to respond to evolving planning needs, technological advancements, or policy directions. Through sustained commitment and collaborative implementation, this SOP shall support the realization of integrated, efficient, and future-ready infrastructure planning across Maharashtra.

****END****