

No.:F5.501(1428)/DoITC HQ/2024

Dated: Signed Date

Minutes of 109th meeting of SeMT dated 17-09-2025

The 109th meeting of the State e-Governance Mission Team (SeMT) was convened under the Chairpersonship of Secretary & Commissioner, IT&C on 17th September, 2025 in Committee Room, 2nd Floor, IT Building, Yojana Bhawan Campus, C-Scheme, Jaipur. List of participants is enclosed at **Annexure -"A"**.

Agenda Item(s) discussed during 109th meeting of SeMT are indexed as follows:

(Rs. in Lakh)

Sr. No.	Project Proposal Name	Department/ Organization	Estimated Cost	Page No.
1	Revised project proposal of FMS for Employment Exchange Management System (EEMS) for 9 months (01-07-2025 to 31-03-2026)	Employment Department	306.21	2
2	Rajasthan Supply & Inventory Management System (RajSIMS)	DoIT&C/ RISL	1116.00	4
3	Customization, Operations and Maintenance support of E-Library application for two years	DoIT&C/ RISL	78.63	6
4	FTTH Work (05 FTTH connections in a GP) Funded by DBN (earlier known as USOF), DoT, GoI	DoIT&C/ RISL	23600.00	7
5	FTTH Work under the scheme for Special Assistance to States for Capital Investment 2022-23 under Part-V (Optical Fiber Cable)	DoIT&C/ RISL	25960.00	9
6	Development of CGD (City Gas Distribution) portal	Directorate of Petroleum Department	83.93	11
7	Design, Development, Implementation and Maintenance Support of RAMP Portal and Integrated Dashboard	Industries & Commerce Dept.	1090.00	21
8	Design, Development, Operation & Maintenance of Mobile Application and Website for Tourism Department	Tourism Dept.	469.00	26
9	Implementation of RFID and Vehicle Tracking System (VTS) across Municipal Corporations of State to ensure efficient monitoring of solid waste management operations, enhance accountability and improve service delivery	Local Self Government (LSG) Dept.	6887.00	34

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Digitally signed by Akhlesh Mittal
Designation: Technical Director
Date: 2025.09.19 20:31:24 IST
Reason: Approved

Page 1 of 41



The following project proposals were discussed in the meeting:

1. Project : Revised project proposal of FMS for Employment Exchange Management System (EEMS) for 9 months (01-07-2025 to 31-03-2026) (Employment Dept.)

Employment Exchange Management System (EEMS) application is developed by RISL under the ownership of Employment Department for disbursement of unemployment allowance under "Mukyamantri Yuva Sambal Yojana" Scheme of GoR.

In continuation of Budget announcement, GoR has announced "Mukyamantri Yuva Sambal Yojana-2021" and rolled out from 01-01-2022. GoR has included this scheme as its flagship project.

EEMS Project has been started from 02-01-2012. In the 29th SeMT meeting held on 21-05-2012; basically, technical approval was accorded for EEMS project. Since its inception, the funds were provided by "Backend & New Projects" Budget Head of DoIT&C.

Then, the project was revised and approved in several SeMT meetings earlier and always funded by "Backend & New Projects" Budget Head of DoIT&C.

In 105th meeting of SeMT convened on 08-04-2025, the project was approved as:

"The SeMT is of the view to accord approval of FMS work of existing EEMS portal for the next 03 months from 01-04-2025 to 30-06-2025."

The FMS support services was going to expire on 05-03-2025 from Tier-1 empanelment of RISL. Financial Implication for the FMS support for EEMS portal was approved as mention below:

S.No.	Service Type	Description of work	Quantity (Resource)	Unit	Unit Cost	Total Amount (Incl. all Taxes) (INR)
1	FMS	Operation, maintenance & enhancement of existing EEMS portal for a period of 01 year with 03 resources (01 Senior Developer and 02 Developers)	3	3 Months	11,42,070.00	11,42,070.00
RISL Service Charges (INR)						1,14,207.00

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S.No.	Service Type	Description of work	Quantity (Resource)	Unit	Unit Cost	Total Amount (Incl. all Taxes) (INR)
		CGST @9% on RISL Service Charges (INR)				10,279.00
		SGST @9% on RISL Service Charges (INR)				10,279.00
		Grand Total to be transferred to RISL (INR)				12,76,835.00
		Rs. in Lakh				12.77 Lakh

Therefore, Project cost would be increased from Rs. 278.00 Lakh to 290.77 Lakh (278.00 Lakh + 12.77 Lakh (for 3 months) = 290.77 Lakh).

The SeMT accorded approval in 105th SeMT meeting for 3 months (01-04-2025 to 31-06-2025) instead of 12 months (01-04-2025 to 31-03-2026) which was requested by Employment Department.

Now, in compliance to the PeMT meeting convened 18-08-2025 in the Chairmanship of Additional Chief Secretary, Skill, Employment and Entrepreneurship Department, Rajasthan; the Employment Department requested again to provide approval of SeMT for FMS for Employment Exchange Management System (EEMS) for pending duration of 9 months (01-07-2025 to 31-03-2026) with One (1) resource person.

Financial Implication of present proposal:

(Amount in Rs.)

S. No.	Manpower Description and Quantity	Per Month Cost Including GST	Cost for nine months including GST
(A)	Senior Developer (01)	1,53,400.00	13,80,600.00
(B)	RISL services charges (Upto 2500000.00 @ 10%, 2500001.00 to 10000000.00 @ 8%)		1,38,060.00
(C)	CGST @ 9% on RISL service charges		12,425.40
(D)	SGST @ 9% on RISL service charges		12,425.40
	Total services charges		1,62,910.80
	Total cost including all taxes		15,43,510.80
	Total Cost (Round off)		15.44 Lakh

Total Estimated Cost for the proposal is Rs. 15.44 Lakh for nine months (i.e. from 1st July 2025 to 31st March 2026). The revised cost of the project will be Rs. 306.21 Lakh (Rs. 290.77 Lakh + Rs. 15.44 Lakh).

Fund Management:

Expenditure would be met from the funds available under "Backend & New Projects" Budget Head of Dept. of IT&C.

The Committee accords technical approval on the proposal for the duration of 1st July 2025 to 31st March 2026 having revised estimated cost of Rs. 306.21 Lakh (i.e. Rs. 290.77 Lakh + 15.44 Lakh).

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2. Project : Rajasthan Supply & Inventory Management System (RajSIMS) (DoIT&C/ RISL)

Rajasthan Supply & Inventory Management System (RajSIMS) is a database-driven centralized application platform designed as a core engine for Demand Collection, Supply, Inventory Management and Distribution for various departments having the common generic requirement.

"The application is SeMT approved in 92th SeMT date 10-06-2022 with a tentative budget of 700 Lacs. Funding for the core system was proposed to meet through ₹200 Lakh from CONFEDs' inventory management project, and the remaining ₹500 Lakh by RISL. Further the fund proposal revise and Finance Department has also approved funding RajSIMS via the DoIT&C-backed Budget Head (Ref: F11(26)DoIT&CPrj. 2023 dated 09.07.2023) for development of core engine of RajSIMS considering multi-department project."

A. Implementation of RajSIMS core engine currently implemented in following departmental schemes: -

1. **Mid Day Meal:-** Mid Day Meal Scheme of MDM department for monitoring and tracking of daily consumption of meals served to the Schools and Madarsa students. Approx. 68000+ users mapped and daily 1 lac+ Transactions of Distributions, Stock inward, Opening Balance and stock movement.
2. **Udaan Scheme (WCD):-** Udaan Scheme of the WCD department to monitors the distribution and supply of sanitary napkins to the beneficiaries of various government institutes, ensuring efficient tracking and delivery.

Approx. 99000+ users mapped of 13 beneficiary departments of Scheme and total 2 lac+ Transactions of Distributions.

B. Implementation of RajSIMS core engine in following departments with customization as per the department's requirement. Addition cost is born by the concern department.

1. IT enablement of Rajasthan Text Book Board: - Rajasthan Textbook board mandated the IT enabled of the board that include the Inventory Management and distribution of books along with complete HRMS enablement of the board. It is decided that the Supply and Inventory Management requirements can be fulfilled by RajSIMS and HRMS by RajERP as bundled solution to the board. Estimated total cost of customized solution using RajSIMS and RajERP is

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estimated to 3.0 Cr for 3 years. Customization and implementation of RajSIMS related functionalities are under implementation.

2. Application for Drug Monitoring of scheduled H1 Medicine by the Department of Drug control and food safety: - Department submitted the requirement of development of end to end IT solution for monitoring of production, supply and sale of schedule H1 drugs across all the medical stores of Rajasthan. The application can be further extended to track schedule H drug. Integration with other medical portals like RGHS, IHRMS, departmental application, Rajasthan Medical council and medical solution available in the market.

A PPR of the scope with estimated cost of 2.43 Cr has been submitted by RISL and approved by the Drug Department. Solution will utilize the RajSIMS core engine for underlining task and custom functionalities to be developed on top of it.

C. Other prospective departments that can implement the RajSIMS directly or with customization:

1. Rajasthan Handloom
2. Rajasthan Khadi Board
3. Rajasthan Bunkar Sangh
4. Rajasthan Wearhouse department

In view of the above—considering the expansion of RajSIMS to include department-specific customizations, ongoing support requirements, and the complexity of implementation—a dedicated development team will be deployed to ensure timely delivery and sustained support. These special customizations will continue to leverage the core engine RajSIMS, thereby maintaining architectural consistency and reducing duplication of effort.

Both the Department of Food Safety & Drug Control and the Rajasthan Textbook Board have agreed to provide funds to RISL for their respective modules. Accordingly, the overall scope of the RajSIMS project has been expanded to formally include the requirements of these departments under the unified RajSIMS umbrella.

The SeMT revised the overall cost of the project on the basis of the total expenditure occurred against the Rs. 700.00 approved earlier in 92nd SeMT and removing tentative cost of the other prospective departments mentioned in the proposal. The details are as follows:

(Rs. In Lakh)

S.N.	Description	Estimated Cost
1	Core Engine (actual expenditure)	560.00
2	Customization – Food Safety & Drug Control Department	243.00

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S.N.	Description	Estimated Cost
3	Customization – IT Enablement of Rajasthan Textbook Board	313.00
	Total Estimated Cost (Incl. GST)	1116.00

The Committee directed that in future, works related to customization in existing RajSIMS application for departments may be taken as separate projects.

Fund Management:

Funds for Core Engine work (Rs. 560.00 Lakh) would be provided by "Backend & New Projects" Budget Head of DoIT&C and funds for customization for department(s) would be provided by the concerned departments.

The Committee accords technical approval on the proposal having revised estimated cost of Rs. 1116.00 Lakh.

3. Project : Customization, Operations and Maintenance support of E-Library application for two (2) years (DoIT&C/ RISL)

The E-Library project has played a transformative role in automating essential library operations across government institutions, fundamentally enhancing the efficiency of library management and user accessibility to resources. Since its inception in 2016, the E-Library system has been successfully deployed in 42 government college libraries and 7 government departments, including Raj Bhawan, Rajasthan Language Literature & Cultural Academy, Bikaner, Sangeet Sansthan, TRI, Jawahar Kala Kendra, and the Forest Department. By automating critical functions like acquisition, cataloguing, circulation management, and serial publication control, the application has empowered librarians with a highly efficient, user-friendly dashboard. This dashboard allows librarians to manage daily tasks with ease, which is especially valuable given their often-limited resources.

Currently, the E-Library has over 24 lakh books catalogued and accessible within the system, and the count continues to grow steadily. Additionally, the platform maintains comprehensive records for approximately 4,20,000 library members, ensuring streamlined member data management and operational efficiency.

However, the current maintenance contract for the E-Library application was till October 31, 2025. Given the widespread adoption of the application across numerous colleges and government departments, maintaining and enhancing this platform has become essential. The enhancements may include features such as highlighting new books, enabling editing of book details by departmental admin, due date reminder over email/ SMS etc.

Technology Stack

Front End: ASP.NET

Backend: MS SQL

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Financial Implication:

It is estimated that approximately Rs. 43.02 Lakh will be required for continued maintenance and necessary enhancements over two years (@21.51 per year), ensuring seamless functionality and support for the ever-growing user base. The estimates are as below:

S. N.	Modules/ Work	Estimated Cost (In Lakh)
1	Customization, Operations and Maintenance support cost for two (2) years	32.00
2	PMU Charges	5.17
3	Contingency Charges for Vehicle Expenses, trainings etc.	1.60
	Total	38.77
	RISL Charges	3.60
	GST on RISL Charges	0.65
	Total project cost including RISL service charges and GST	43.02

In reference to the above, the project was earlier approved in the 102nd SeMT convened on 16-12-2024. The approved budget in the SeMT was Rs. 35.61 Lakh. Out of Rs. 35.61 Lakh the funds of Rs. 29.95 have been utilized.

Therefore, revised estimated cost of the project is Rs. 78.63 Lakh (Rs. 35.61 Lakh + Rs. 43.02 Lakh).

Fund Management:

Expenditure would be met from the funds available under "Backend & New Projects" Budget Head of Dept. of IT&C.

The Committee accords technical approval on the proposal having revised estimated cost of Rs. 78.63 Lakh (Rs. 35.61 Lakh + Rs. 43.02 Lakh).

4. Project : FTTH Work (05 FTTH connections in a GP) Funded by DBN (earlier known as USOF), DoT, GoI (DoIT&C/ RISL)

- The Government of India's BharatNET project is being implemented pan India by DoT (GoI) for providing high speed broadband connectivity to the Gram Panchayats of Rajasthan. Total 8776 GPs are covered in Rajasthan under BharatNET (Phase-I).
- Under this scheme, initially Wi-Fi APs are to be installed for which, RISL has signed an agreement with M/s BBNL on dated 25.09.2018 for provisioning of Wi-Fi Services at all the 10,000 Gram Panchayats (GPs) in Rajasthan. As per the agreement, RISL had to install upto 5 Wi-Fi Access Points in each GP. Total approved project cost was amounting to Rs.

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Date: 2025.09.19 20:31:24 IST
Reason: Approved

400 Cr. (@ Rs. Four Lacs per GP x 10,000 GPs approx.) and to be funded by Government of India (GoI).

- Rs. 740 Crore was approved in 76th SeMT for Raj WiFi Project which includes installation of 5 Wi-Fi APs per GP in 10,000 GPs across Rajasthan. BSNL agreed to fund the project at a cost of Rs. 80,000/- per Wi-Fi AP (05 APs per GP in 10000 GPs). Total Rs. 400 Crore+ Taxes, was to be funded by DoT (GoI).
- Later, In meeting held under the Chairmanship of Administrator, USOF on 15th November, 2019 at New Delhi, scope was changed and proposed only 2 Wi-Fi APs at each GP instead of earlier approved 5 APs, Hence, the cost of project is revised and reduced to Rs. 160 crore (considering 2 Wi-Fi APs per GP @ Rs. 80,000 per Wi-Fi AP).
- Further, as per BBNL letter of dated 21st July, 2020, RISL was asked to install one only Wi-Fi AP in each GP and in lieu of second Wi-Fi AP, 05 FTTH connections are to be provided to the government institutions in each GP.
- As per the revised scope of work, Rs. 80 crore + taxes, is being funded by USOF, GoI to RISL for FTTH work (Rs 80,000/- for 05 FTTH connections in a GP) at 10000 GPs in Rajasthan.
- Execution of FTTH Work-** An MoU has been signed between RISL and BSNL for providing FTTH connections at Gram Panchayat level on dated 29th March 2022. This agreement is valid for 05 years from agreed date of commissioning of the FTTH network. Work order given to BSNL on 21st October 2022. Five (05) FTTH connections is being provided to govt. offices / buildings/ institutions in each GP across Rajasthan using BharatNET. 27500+ FTTH connections in 5400+ GPs have been commissioned so far and work in progress in remaining GPs.

The estimated expenditure of the work is as mentioned below:

S. No.	Description	Amount including GST (Rs. in Lakh)
1.	CAPEX cost - Rs 80,000/- + GST for 05 FTTH connections in a GP (For total 10,000 GPs :- 80,000 x 10,000 = 80,00,00,000/- + GST)	9440.00
2.	FTTH Plan Charges (Rs. 500 per month or 6000 per year) shall be applicable from 2 nd year onwards. (For Total 50,000 FTTH connections: - 6000 x 50,000 x 4 Years = 1,20,00,00,000/- + GST)	14160.00
Total Amount		23600.00

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Fund Management/ Funding pattern:

The CAPEX expenditure would be met from the fund provided by BBNL, DoT (GoI). The expenditure expected on monthly rental charges of FTTH connections from 2nd year onwards would be Rs. 141.60 Crore (for 05 years). Funding pattern for the OPEX shall be as mentioned below: -

1. Department (Other than RD&PR) –

As per FD approval, payment of monthly rental of FTTH connections installed in the offices /buildings of other Departments (other than RD&PR) for the FY 2024-25 & coming years from RajNET budget head. FD approved Rs. 26.83 Crore for FY 2024-25 and 2025-26 from the budget available in RajNET budget head in FY 2025-26.

2. RD&PR department - The payment of monthly rental of FTTH connections installed in the offices /buildings of RD&PR department for the FY 2024-25 from the fund provided by RD&PR department using XV Finance Commission Basic (Untied) Grant. Funds for the FY 2025-26 and subsequent years, is to be sought from RD&PR department in coming years.

As, the project is being implemented since 2022 to provide FTTH connections in the government offices / buildings at each Gram Panchayat across Rajasthan. Total 27,500+ FTTH connections in 5400+ GPs have been commissioned so far and work in progress in remaining GPs. CAPEX of Rs. 80 Cr + GST (funded by DBN, GoI) and OPEX (monthly rental for installed FTTH connections), is to be borne by State Govt/ XV FC. Total Project Cost (CAPEX + OPEX) is Rs. 236 Crore.

The Committee accords technical approval on the proposal having estimated cost of Rs. 23600.00 Lakh.

5. Project : FTTH Work under the scheme for Special Assistance to States for Capital Investment 2022-23 under Part-V (Optical Fiber Cable) (DoIT&C)

- The Govt. of Rajasthan proposes to extend the existing BharatNET network at GPs till the departmental offices/ schools at Village level under the scheme for Special Assistance to States for Capital Investment for the Year 2022-23 under Part- V.
- DoE (Dept. of Expenditure, Govt. of India) has approved capital expenditure on the capital project on OFC network as recommended by DoT, amounting to Rs. 175 Cr. for the state of Rajasthan.
- As per approved proposal, 03 FTTH connection is to be provided up to Village level across Rajasthan. The approved project is being executed by RISL.

The approved project detail (as per DoE, GoI) is as mentioned below:

Project	FTTH
Location	Gram Panchayat/Village level
OFC (Aerial) Route Length	20,000 KM approx.

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Date: 2025.09.19 20:31:24 IST
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Capital outlay (INE Cr.)	Rs. 23000.00 Lakh
Implementing Agency	BSNL
No. of GPs planned to be covered	10,000
No. of FTTH Connections proposed to be provided	30,000
Total material Cost and Labour Charges	Rs. 23000.00 Lakh
Amount of Special Assistance (as loan) Recommended under Part-V of the Scheme	Rs. 17500.00 Lakh

- Letter of Award (LoA) issued to BSNL on dated 15th March 2024 for execution of FTTH work at Village level. BSNL has been requested to provide FTTH connectivity at 4000 Villages in first phase across Rajasthan. An agreement was signed between RISL and BSNL on 27th May 2024. Agreement shall be valid for 05 years. Standard Operating Procedure (SOP) was also finalized on 31st December 2024.

The estimated expenditure of the work is as mentioned below:

(Rs. In Lakh)

S. N.	Description	Amount including GST
1.	First Year Charges - Rs 1,32,000/- per Village with minimum commitment of 02 FTTH connections (GST and Taxes extra as applicable). (For 10,000 Villages :- 1,32,000 X 10,000 = 1,32,00,00,000/- + GST)	Rs. 15576.00
2.	After 02 FTTH connections, additional FTTH connections in the same village will be provided @ Rs. 16,000/- per connection. (For 10,000 connections: - 16,000 X 10,000 = 16,00,00,000/- + GST)	Rs. 1880.00
3.	Monthly rental Charges for FTTH connections (Rs. 500 per month or 6000 per year for each connection) shall be applicable from 2 nd year onwards. (For Total 30,000 FTTH connections: - 6000 x 30,000 x 4 Years = 72,00,00,000/- + GST)	Rs. 8460.00
Total Expenditure		Rs. 25916.00

Fund Management:

The CAPEX expenditure would be met from the fund sanctioned by DoE (Department of Expenditure, Govt. of India) and OPEX (FTTH monthly plan charges) shall be borne from the State budget from 2nd year onwards, for which further approval is to be taken from Finance Department. Funding pattern would be as mentioned below: -

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(Rs. In Lakh)

S. N.	Description	Amount including GST
1.	DoE (Dept. of Expenditure, GoI) funding for CAPEX	17500.00
2.	Additional fund required from State budget from 2 nd year onwards for monthly rental of FTTH connections.	8460.00
Total Amount		Rs. 25960.00

- An agreement has been signed with BSNL on 27th May 2024, which is valid for 05 years. A Standard Operating Procedure (SOP) has also been signed on 31st December 2024, for smooth execution of FTTH work at Village level under this Scheme.

As, the project was initiated as per the GoI, guidelines, for which funds for CAPEX has been received to State from DoE (GoI). The work order for this has been given to BSNL. Regarding the OPEX (monthly rental for installed FTTH connections), the FTTH monthly plan charges shall be applicable from 2nd year onwards, for which further approval is to be taken from FD.

- DoT (GoI) is taking regular follow-up regarding implementation status of the Project through the VCs at the level of Administrator DBN (earlier known as USOF). Execution work of these project is being carried out by implementing agency (i.e. BSNL -Govt. of India owned Public Sector Undertaking).

The Committee accords technical approval on the proposal having estimated cost of Rs. 25960.00 Lakh.

6. Project : Development of CGD (City Gas Distribution) Portal (Petroleum Department)

Aligning with the Budget Announcement of the Government of Rajasthan, and with a vision to promote the use of clean and efficient energy among both industrial units and common households, the Department of Petroleum and Mining is set to introduce the City Gas Distribution (CGD) Policy 2025. This policy aims to accelerate the adoption of natural gas as a primary fuel source by ensuring ease of access, regulatory support, and digital facilitation for setting up CNG stations and laying gas pipelines across the state.

In line with this initiative, Department of Petroleum has envisaged to develop a web-based platform to digitize the processes for issuing No Objection Certificates (NOC) for CNG stations and pipeline infrastructure, ensuring transparency, efficiency, and ease of doing business for stakeholders. Further, Rajasthan State Gas Limited (RSGL) has been nominated as the nodal for development and operationalisation of the portal.

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1. Project Background:

At present, all the processes of applications are being done offline through physical means (application letter, etc). The primary purpose of the proposed web application is to provide an online platform, user-centric platform that facilitates effective communication, information dissemination, and service delivery for the CGD entities. This web application is envisioned to provide the online platform for requesting applications and monitoring of the gas pipeline laid across the State.

The web application will enable them to apply for NOC for CNG station and also for the permission for pipeline laying across the State. It will also serve as a digital tool for departmental personnel to manage the gas pipeline distributed, such as verification, approval, & generate NOC, collection of pipeline charges from the CGD's entities.

2. Project Objectives:

The primary objective of this project is to conceptualize, develop, and deploy an efficient, secure, and user-friendly web application for City Gas distribution. This system will provide a comprehensive, integrated solution for managing the gas pipeline distribution, NOC issuance, Monitoring/ compliance, etc. The system will streamline the implementation of guidelines as per CGD policy 2025.

Key Objective-

- To design and develop a centralized web application to process application for gas pipeline distribution, and manage approval, generate/renew/revoke NOC, collection of fees.
- To enhance monitoring efficiency through automated workflows and real-time status tracking.
- To provide a secure, role-based user management system
- To generate detailed reports and analytics to assist administrative decisions
- Providing timely updates and alerts to the users & respective stakeholders
- Digitization of forms to reduce time and efforts

3. Proposed Solution flow:

The proposed web application will be enabling the City Gas Distribution (CGD) entities to digitally process their applications for NOC and permission for pipeline laying as per the CGD policy 2025. In this web application, applicant can conveniently apply as per the eligibility criteria, review the application status.

All entities would have admin (user) access to assess application, review application status and reporting dashboard. The entities will be on boarded by the nodal department, Mines &

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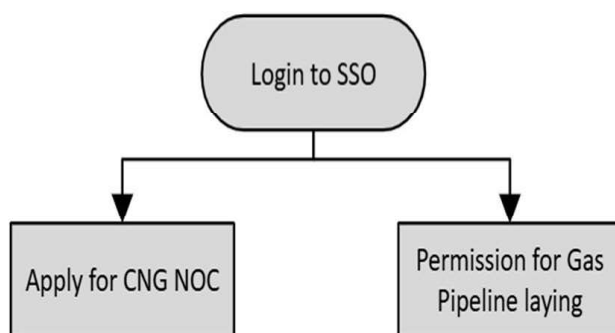
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Petroleum. The nodal department will also have a dashboard/ reporting access to view the status of the CNG stations and Gas pipeline laying status within the Rajasthan State.

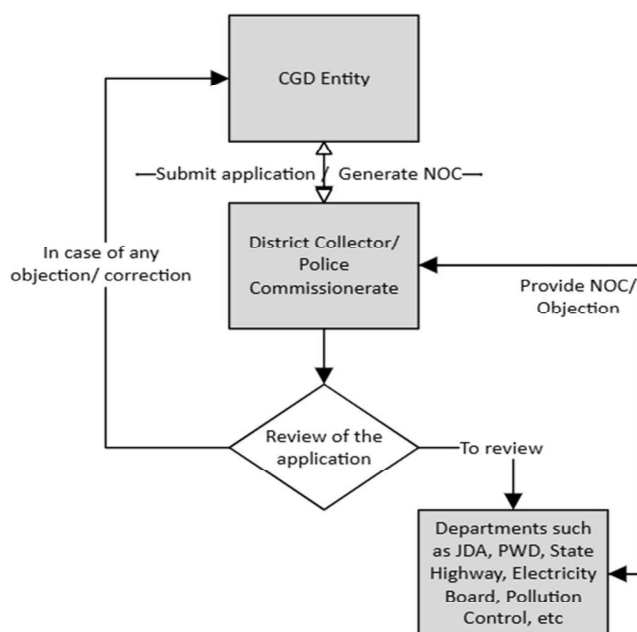
Below are the stages of the web application

Stage 1 – Applicant login and Application type selection

The process begins with the entities (CGD) applicant registering their personal login details through the SSO (Single Sign-On) portal. Once logged in, the entity must select the appropriate application type from the available options:



Applying for NOC for CNG Station or Permission for pipeline laying.



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Stage 2.A – Filling the application form for NOC for CNG Station

The application form for NOC permission will require the CGD entity to provide key project details. Applicants must select the geographical area and the district where the CNG station is proposed. They will also need to specify the type of station—such as online, daughter booster, or mother/ daughter station and the exact geo-coordinates of the site. To support the application, several documents must be uploaded, including the PESO approval, site layout plan, lease deed, and the PNGRB authorization letter. Additional supporting documents, if any, can also be attached to ensure a comprehensive submission for review.

The process begins with the CGD entity applying to the District Collector or Police Commissionerate. Upon receiving the application, the authority conducts an initial review. If any objections or corrections are identified, the application is returned to the CGD entity for necessary revisions. Once the application is found to be in order, a No Objection Certificate (NOC) or a formal objection is issued. Following this, the application is forwarded to various concerned departments—such as the District Development Authority (JDA), Public Works Department (PWD), State Highway Authority, Electricity Board, and Pollution Control Board—for further review and departmental clearances. Once all departments provide the clearances to the District Collector/ Police Commissionerate, NOC will be issued to the applicant.

Stage 2.B – Filling the application for Gas pipeline laying permission

The process for obtaining permission to lay gas pipelines begins with the City Gas Distribution (CGD) entity submitting an application to the respective department through the designated online portal. The Department of Petroleum acts as the central coordinating authority and monitors the application review and further action.

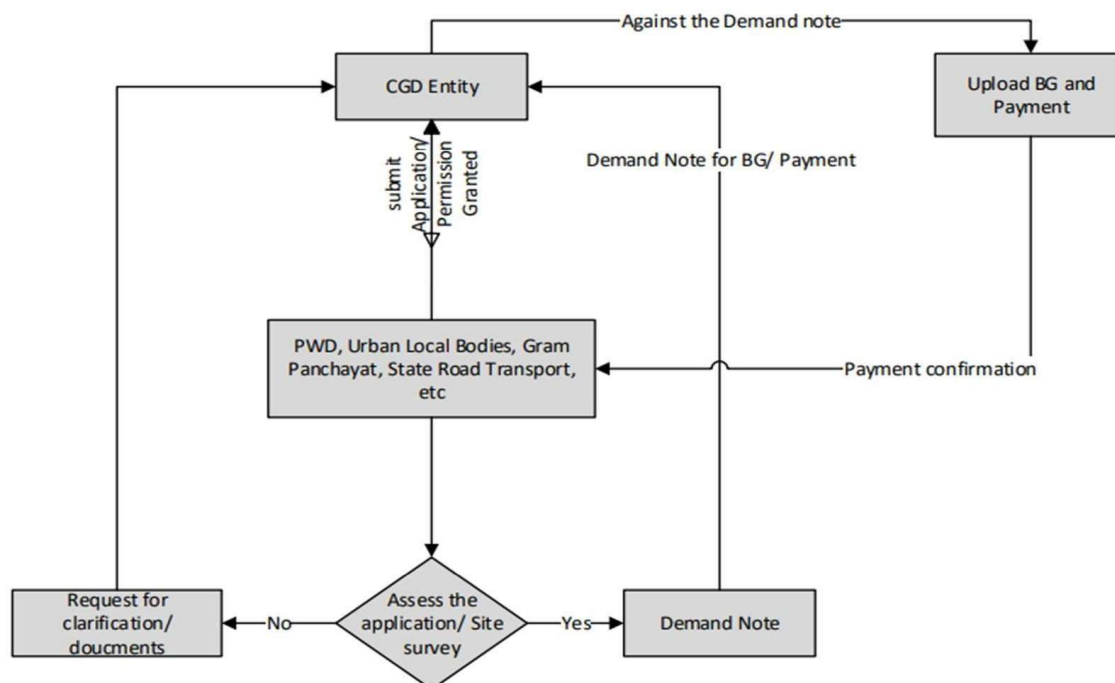
The concerned authorities may include the Public Works Department (PWD), Gram Panchayats, Urban Local Bodies (ULBs), Road Authorities, Forest Department, Water Resources Department, or the State Road Construction Corporation, depending on the geographical and administrative scope of the pipeline route. The respective department shall conduct a site survey to assess factors such as ground conditions, utility infrastructure, right-of-way alignment, etc.

Following the survey, a demand note is issued by the concerned authority, detailing applicable charges, conditions, or mitigation measures. The CGD entity is required to upload the Bank Guarantee (BG) and make necessary payments through the portal, along with any additional documentation. (as per the CGD policy 2025)

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Upon successful verification of all submitted documents and fulfilment of required conditions, the final permission for pipeline laying is granted. This digitized and streamlined workflow ensures efficient inter-departmental coordination, real-time tracking of application status, and a single-window clearance mechanism, significantly enhancing ease of doing business for CGD operators.



Stage 3 Fee Payment

Once the application form is completed, the applicant proceeds to the fee payment stage. The required fees include a mandatory application fee, depending on the policy terms and conditions. These payments are made through a e-Gras payment gateway. Upon successful payment, a receipt is generated, which becomes part of the application record.

Below are the payment guidelines as per the CGD policy

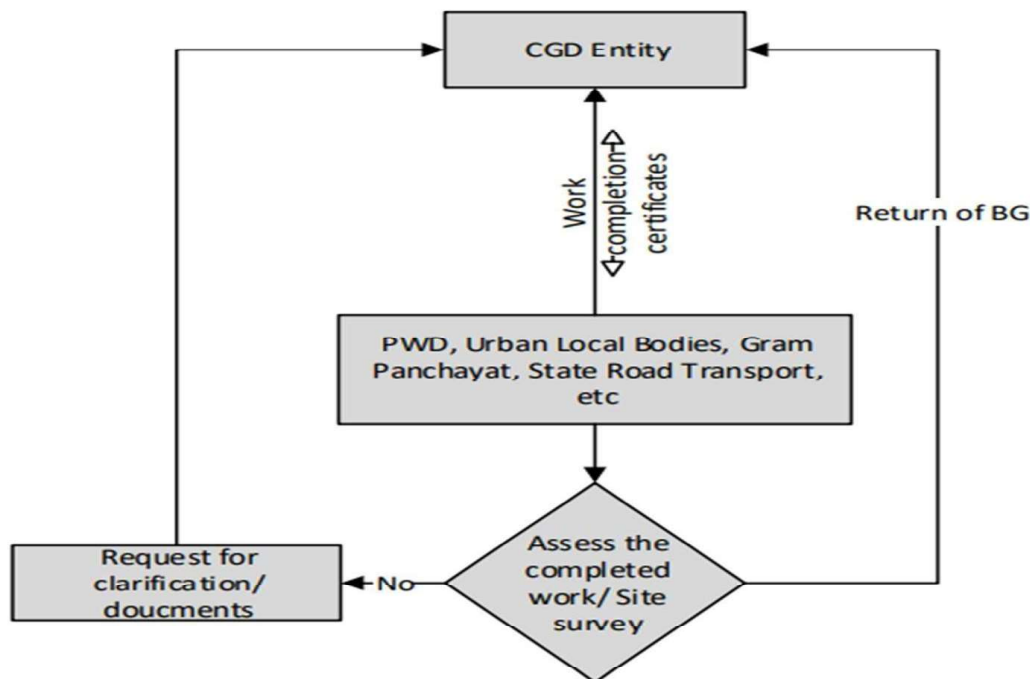
- The non-refundable application submission fee for pipeline laying permission is ₹1,000/ KM. The BG amount for pipeline laying permission is 20% of the total restoration cost, calculated at a flat rate of ₹1,200 per square metre (covering the average for bitumen, cement concrete, and WBM surfaces).
- The annual rent for the land designated for CGD equipment installations is 5% of the residential reserve price or residential DLC rate applicable to the area where the land is located.

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Return of BG

After completion of work, the entity should request for the return of the BG. The respective department will review the application and conduct the survey of the work completed, and after the confirmation of the completed work, the BG will be returned to the CGD entity.



4. Proposed Solution Architecture:

To achieve objectives of the project, DoIT&C/ RISL propose web application for Department of Mines and petroleum, will have following features:

- Implementation of all required data validation to ensure compliance of eligibility criteria of CGD policies.
- Centralized database driven system to keep all application status, approval and related information in sync.
- Unified dashboards and notifications/alerts to track day to day operations such as application submission, fee payment, verification, approval, generate NOC, gas pipeline charges, etc.
- Integration with common components of Rajasthan IT stack like RajSSO, e sanchaar, eMitra, etc. as per requirement and IT Architecture of Rajasthan State.

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Date: 2025.09.19 20:31:24 IST
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- MIS Reports for complete view of the NOC process. A report dashboard will be made available to view the various reports & applications status of all categories under city gas distribution.

4.1 System Actors-

These are the system actors who will have access of the system as follows:

- Board Level Users (Department of Mines and Petroleum):** are the authorized users who will have access of the functionalities of the solution based upon the roles and area of operation defined. These users may also perform as multi-level functional Admins for various respective modules/ submodules.
- Moderators (if required):** are the authorized users of a moderating agency i.e. various officers considering the area of operation for performing the mapped processes and monitoring of the activities of mapped offices.
- Applicants as City Gas Distribution Agency (s) (as specified):** are the users who will have access of the web application and modules for availing NOC for CNG station and Gas pipeline laying permission.

4.2 Modules-

These are the modules which covers various processes and sub processes of the system to facilitate all stakeholders.

- User authentication:** Each entity will access the web application through Single Sign On (SSO) functionality only.
- Dashboards:** Unified dashboards to be designed based upon the roles defined for the users. These dashboards consist of the interfaces to be provided for modules, summarized analytical reports and action items.
- NOC Management:** This module enables the authorized user to perform work such as, generate NOC (as per CGD policy)
- Payment/Account Management:** The admin level designated user will also be facilitated to define policies and procedures for application fee, pipeline laying charges, penalty charges. The designated users of onboarded department will perform the processes in the compliance of various policies such as refund policy, cancellation policy, chargeback policy, etc. *This module will be integrated with eGras Payment Gateway to manage the payment related processes & sub processes.*
- Report & Analytics Management:** This module offers comprehensive reports of transaction data generated through the various processes and sub-processes on CGD portal. It enables the department to identify gaps in the workflow and determine actionable steps for addressing inefficiencies and strengthening weaker areas.
- Stakeholder Onboarding Management:** This module allows authorized user to onboard other stakeholder/users of the web application as per there defined role.

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Date: 2025.09.19 20:31:24 IST
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Authorized user can add or inactivate users as per the department's need.

- g. **Master Management:** This module enables admin level users to create master's such as applicants' categories, geographical areas, etc. to minimize ambiguity in the system.
- h. **Application form Management:** Defined structure and inputs for each relevant form include various data validations with the desired interface to the department of jurisdiction.
- i. **Application Tracking:** Status management of an application through Application Reference Number generated upon form submission.

4.3 Database Layer-

This layer will have configuration files, database of transactions/ masters related to application, district offices, transaction log & audit trails and service database of various department applications/ databases.

4.4 Integration Layer-

As per the IT architecture and IT policy of Rajasthan State, the possibilities of integration of proposed system will be explored with the database of other departments to provide seamless unified dashboards for operational field staff and decision makers of the authorized departments and other stakeholders.

5. Project Scope & Coverage Area:

Project Scope: The scope of the proposed web application encompasses the design, development, deployment, and maintenance of a comprehensive digital platform tailored to meet the functional and informational needs of Department of Mines & Petroleum. This web application will cater to a wide range of users like industries, mining industries and others (as specified), and departmental staff, by offering a user-friendly interface and robust backend support.

Additionally, the scope covers integration with relevant government applications and databases where required, compliance with accessibility and security guidelines, and provision of training and documentation for departmental users.

Study of existing systems, New Modules and Enhancement Requirements: Proper study will be conducted through requirement gathering, understanding of gas distribution processes / other stakeholders to design, develop and implement a single seamless web application for online processing of NOC operations as per IT architecture of Rajasthan Govt.

Development of Web Solution: Based on the study & approved design, the development of the entire web application will be done which includes development of new modules and integrations between the modules.

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Date: 2025.09.19 20:31:24 IST
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Implementation: After successful development of each module of the web application, the implementation of web application will be done for its utilization, and requisite support will be provided to various level users to utilize the web application in case of any issue reported in the web application.

Training and Capacity Building as and when required: Support in training and capacity building sessions like user manual and trainers for training on utilization of the web application will be provided.

Operations & Maintenance and Support Phase: The operations & maintenance support services will be provided for the developed web application and requirement of new development/enhancement will also be catered during O&M period i.e. one year. All requirements described at this stage is as per the discussions and inputs provided by RSGL, a nominated agency for the development of online CGD portal, by Department of Mines & Petroleum, and subject to change as per the CGD policy 2025 (draft stage).

6. Project Stakeholders:

Keeping in view of the requirements of the project for the solution, the probable stakeholders' alignment for the project is given below:

- a. **Department of Mines and Petroleum-** The Department of Mines & Petroleum will appoint the designated officers to manage and coordinate the project stakeholders and activities from the end of the department. Furthermore, the operational activities except IT solutions and financial responsibilities will also be carried out by them. The Department has nominated RSGL for the development of the online CGD portal, RSGL will provide functional requirements and details of critical points/ issues to be addressed through the required solution. The Department will also ensure whether the provided solution is addressing all requisite functional requirements. All identified stakeholders for the system will be coordinated and managed by the department, during the implementation of the approved solution.
- b. **Gas Distribution Entities-** Total 13 nos of CGD are operational in Rajasthan which are as AGP CGD India, Adani Gas Limited, BPCL, Gasnet Services, GAIL Gas Ltd, Gujarat Gas Limited, HPCL, IOCL, RSGL, Torrent Gas Limited, Indraprastha and others.
- c. **Department of Information Technology & Communication (DoIT&C/RISL):** As per requirement of the Department of Mines & petroleum and RSGL, DoIT&C/RISL will design, develop, deploy the solution in collaboration of all stakeholders involved in this project. DoIT&C/RISL will ensure that solution design is in line of the objectives decided for the project. DoIT&C/RISL will monitor all project related activities and communicate regular

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Designation: Technical Director
Date: 2025.09.19 20:31:24 IST
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updates to all respective stakeholders as per project governance mechanism in the development phase. DoIT&C/RISL will only provide technical solution along with technical manpower to provide O&M support to the solution at the DoIT&C/RISL premises.

7. Financial Implication:

a) Web Portal Development – Rs. 23.88 Lakhs

This cost encompasses the complete lifecycle of portal creation, including study, design, development, integration, testing, and deployment.

S.N.	Particulars	Total Price (In Lakh)
A.	Web Portal Development	
1	Study, Design, Development for 3 Months	18.10
2	GST @ 18 %	3.26
	Sub Total A	21.36
B	RISL Service Charges on Sub Total A	
1	RISL Charges	2.14
2	GST @ 18 % on RISL Charges	0.38
	Sub Total B	2.52
	Total Project Cost (A+B)	23.88

b) Facility Management Services (FMS) – Rs. 19.26 Lakhs (1 Year)

This includes operational support, application maintenance, and helpdesk services to ensure uninterrupted portal functionality.

S. N.	Particulars	Total Price
A.	FMS for 01 Year	
1	Maintenance & Support for 12 months	14.60
2	GST @ 18 %	2.63
	Sub Total A	17.23
B	RISL Service Charges on Sub Total A	
1	RISL Charges	1.72
2	GST @ 18 % on RISL Charges	0.31
	Sub Total B	2.03
	Total Project Cost (A+B)	19.26

c) Extended FMS – Rs. 38.52 Lakhs (2 Years)

Additionally, it was agreed during the meeting to extend FMS for a further period of two (2) years under the same terms and conditions, as outlined in the Project Proposal Report (PPR).

S. No.	Particulars	Total Price
A.	FMS for 02 Year	
1	Maintenance & Support for 12 months	29.20
2	GST @ 18 %	5.26
	Sub Total A	34.46

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Designation: Technical Director
Date: 2025.09.19 20:31:24 IST
Reason: Approved

S. No.	Particulars	Total Price
B	RISL Service Charges on Sub Total A	
1	RISL Charges	3.44
2	GST @ 18 % on RISL Charges	0.62
	Sub Total B	4.06
	Total Project Cost (A+B)	38.52

d) Infrastructure Cost – Rs. 2.27 Lakhs

The infrastructure cost has been estimated at ₹6,300 per month for a duration of 36 months (3 years), based on the hosting requirements of two virtual machines—each configured with 2 cores—allocated respectively for the application and database environments.

Total Estimated Project Cost (1+2+3+4): Rs. 83.93 Lakhs.

These estimates comprehensively cover all critical components—development, long-term support, and infrastructure—required to ensure the portal's robust and efficient operation.

8. Fund Management:

Expenditure would be met from the funds available with the Department.

The Committee accords technical approval on the proposal having estimated cost of Rs. 83.93 Lakh. During implementation, necessary integration with relevant State Government portals may be ensured.

7. Project : Design, Development, Implementation and Maintenance Support of RAMP Portal and Integrated Dashboard (Industries & Commerce Dept.)

1. Overview of the RAMP Program:

The RAMP (Raising and Accelerating MSME Performance) initiative aims to improve market and credit access for micro, small, and medium enterprises (MSMEs), enhance institutional support and governance, and strengthen partnerships between the central and state governments. It also focuses on promoting environmentally friendly practices among MSMEs.

2. RAMP Portal and Dashboard-Objective and Impact:

The RAMP Portal and Integrated Dashboard is a key component of the program, designed to enhance the monitoring and evaluation of the RAMP scheme's overall progress. This digital initiative will enable MSMEs to easily access available benefits, thereby expanding the reach and impact of various growth- support schemes. It aims to streamline operations, simplify resource access, and support the MSME sector's growth by offering a comprehensive solution tailored to their specific needs.

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Date: 2025.09.19 20:31:24 IST
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Having a digital platform for the government would make processes more efficient and create favorable conditions for both MSMEs and concerned Government Departments.

The RAMP Portal and Integrated Dashboard leverage cutting-edge technology to enhance functionality and user experience, featuring visualization-based dashboards for intuitive data comprehension, business process automation to streamline operations, and advanced algorithms for simplified navigation. Interoperable technologies facilitate seamless information exchange among stakeholders, while centralized data sharing ensures accurate and accessible data management. Real-time tracking allows for continuous monitoring of project information and milestones, supporting timely updates and interventions. These innovations collectively improve the flow of information, enhance collaboration, and support effective decision-making, thereby driving the success of the RAMP scheme in aiding MSME growth and recovery.

3. Program Interventions to be covered and sanctioned budget as per SIP-IP:

Design, Development, Implementation and Operations of Integrated Portal Development and Integrated Dashboard under RAMP Scheme covers the following components:

S.N.	Component	Budget Sanctioned (Rs. in Lakh)
1	Digital Process Matchmaking	20.00
2	Portal development	50.00
3	Knowledge Repository	20.00
4	Integrated dashboard for Monitoring	1000.00
5	Energy Efficiency Learning Portal	(to be part of RAMP Portal, no separate budget sanctioned by GoI)
Total		1090.00

4. Salient functional features of the Program Interventions:

4.1 Portal Development-

- **Home Page:** To Display scheme details, MSME testimonials, success stories, circulars, notifications, laws, policies, events, and training opportunities.
- **User Admin Module:** To Manage users from various departments and MSMEs to access resources, apply for interventions, and engage in performance-enhancing programs.
- **Registration, Login, and Password Management:** To Ensure secure access, manage user roles and permissions for personalized experiences and data protection.
- **Beneficiary Module:** To Streamline identification and management of eligible MSMEs to access resources under the RAMP Program.
- **Mentor-Mentee Module:** To Facilitate structured mentoring for MSMEs to

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Designation: Technical Director
Date: 2025.09.19 20:31:24 IST
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upgrade technology and enhance business capabilities.

- **Green MSME/EELP Module:** To Support energy efficiency through online registration, reimbursement applications, compliance checklists, and knowledge repository features.
- **SME Exchange Program Module:** To Streamline stock exchange compliance processes and reimbursement applications for SMEs.
- **Knowledge Repository Module:** Provide registered users access to an e-Library for exploring digital resources and learning materials.
- **Branding of Haat Module:** To Showcase marketing content for Urban and Rural Haats and offer real-time experiences through Google Arts and Culture.
- **First Time Exporter Module:** To Manage on boarding, reimbursement applications, and approvals for ECGC stakeholders.
- **Reverse Buyer-Seller Meet Module:** To Facilitate database creation, registration, compliance checklists, and digital process matchmaking for buyer-seller interactions through development of suitable algorithm.
- **Doubling of GI-Tag and Google Arts & Culture Module:** To Track updates on GI tags and Google Arts & Culture initiatives.
- **Awareness Workshop Module:** To Organize workshop calendars, manage MSME registrations, and keep attendance records.
- **Capacity Building Training Module:** To Prepare training schedules, manage MSME registrations, and maintain training reports and attendance records.
- **Payment Module:** To Develop a system for beneficiary subsidy/reimbursement payment transfers, including document review and payment advice preparation.
- **Integration of RAMP Portal with other Government Applications:** To Integrate with various government portals and services for seamless data validation and communication.
- **Communication Hub:** To Implement a messaging system for alerts, notifications, and communication between MSMEs and officials.
- **Grievance Redressal System:** To Enable MSMEs to submit grievances and track their status through a ticketing system.
- **Security and Access Control:** To Implement robust security measures including data encryption, user authentication, and role-based access control.

4.2 Integrated Dashboard-

- **Role-Based System:** To Provide customized dashboards with graphical, tabular, and geo- spatial views tailored to different user profiles for accessing RAMP program data.
- **Data Management and Content Preparation:** Focuses on organizing and preparing data for input and analysis, ensuring efficient data handling.

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Designation: Technical Director
Date: 2025.09.19 20:31:24 IST
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- **Monitoring and Evaluation Dashboard:** Displays intervention-specific data, ownership types, sector insights, and budget tracking with time-sensitive analyses.
- **Analytics Dashboard:** For descriptive and predictive analytics using visualizations like charts, maps, and real-time data processing for informed decision-making.
- **User Login Dashboard:** To Enable users to monitor RAMP program progress through personalized dashboard views.
- **MSME Dashboard:** To Allow MSMEs to access scheme data, track application status, and receive alerts on new schemes and documents.
- **Vendor Dashboard:** To Provide RAMP vendors with insights into their project progress and status.
- **District Insights Dashboard (DICC View):** To Offer district-specific insights on applications, approvals, subsidies, and industry performance using geo-spatial data visualization.
- **Government Department Dashboard:** To Deliver updated data on applications, approvals, and subsidies with visualization tools for tracking MSME activities in Rajasthan.
- **RAMP Implementing Agency Admin Dashboard:** Facilitates data input, report generation, and visualization metrics for effective program oversight.
- **Security and Access Control:** To Ensure secure access through data encryption, user authentication, and role-based access control for tailored information access.

5. Selection/On boarding of Agency:

Department of Industries & Commerce (Udhyam Protsahan Sansthan) has engaged a Competent Agency through NICSI.

6. Preference of Technology- Technology Stack:

The technology stack as preferred by DoIT&C i.e. Microsoft .NET technology for scripting language and open source MySQL for database.

7. Operation and Maintenance (O&M):

Following Broad activities to be performed by the agency during the Operations phase are listed below:

- To regularly update, operate, and maintain the complete end-to-end solution during the Project duration
- Implement a formal process for submitting, reviewing, and approving change requests
- The bidder will be required to provide Technical Support for web application / portal
- Resolution of any bugs & issues including bug fixing, improvements in

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Designation: Technical Director
Date: 2025.09.19 20:31:24 IST
Reason: Approved

presentation and/or functionality.

- Provide the latest updates, patches/fixes, version upgrades relevant to the solution.
- Conducting cosmetic changes in the web application/web portal within reasonable time limits
- Use a version control system (e.g., VSS, SVN etc.) for all development and maintain a rollback strategy (If the new versions are not stable then reverting the system to earlier stable version)
- Installation of the necessary patches and application upgrades.

Financial Implication:

Design, Development, Implementation and Operations of Integrated Portal Development and Integrated Dashboard under RAMP Scheme covers the following components:

S.N.	Component	Budget Sanctioned (Rs. in Lakh)
1	Digital Process Matchmaking	20.00
2	Portal development	50.00
3	Knowledge Repository	20.00
4	Integrated dashboard for Monitoring	1000.00
5	Energy Efficiency Learning Portal	(to be part of RAMP Portal, no separate budget sanctioned by GoI)
Total		1090.00

Fund Management:

Expenditure would be met from the fund available with Industries Department, Rajasthan.

In the meeting, Department informed that the project is implementing at Departmental level through manpower taken from NICSI. 21 resource persons are being on boarded for development phase and 11 resource persons will be taken during maintenance phase.

The Committee directed that the department should ensure necessary integration with relevant State Government applications.

The Committee accords post-facto technical approval on the proposal having estimated cost of Rs. 1090.00 Lakh.

8. Project : **Design, Development, Operation & Maintenance of Mobile Application and Website for Tourism Department** (Tourism Department)

Project Overview:

The primary objective of this project is to design and develop a comprehensive, user- friendly, and multilingual Tourism Mobile Application & Web-Based Content Management System (CMS) and Website for the Department of Tourism, Government of Rajasthan. The platform aims to serve as a one-stop digital gateway for tourists to discover, plan, and experience the diverse

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Designation: Technical Director
Date: 2025.09.19 20:31:24 IST
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cultural, historical, and natural offerings of Rajasthan. It will integrate key functionalities such as destination browsing, itinerary planning, booking facilitation, cultural storytelling, AR/VR-based previews, and real-time multilingual support, thus enriching the overall travel experience for both domestic and international visitors.

Modules to be covered:

S. No.	Feature Name / Category	Enhanced Requirement Description
1	Mobile App	The mobile application shall be developed for both Android and iOS platforms using native or hybrid technologies for maximum compatibility and reach.
2	Website	The website must feature an intuitive, visually rich, and interactive Graphical User Interface (GUI) to ensure a smooth and engaging user experience
3	Weather Information	Display current weather conditions of the selected place to help users plan their day accordingly.
4	User On boarding	Seamless login and onboarding using email, phone number, or social media platforms. User profile supports preferences, saved trips, and wish lists.
5	User Registration	Allow user registration with name, email, phone, country, and password or via Facebook, Instagram, Gmail, and mobile number.
6	Multilingual Support	Support Hindi, English, and international languages such as French, Spanish, Russian, German, Chinese, Japanese, and Arabic for wider accessibility.
7	360° Panoramic Views	Provide immersive 360-degree views and drone footage for major tourist attractions to enhance virtual exploration.
8	AI Suggestions	Use AI-driven personalization to recommend attractions, events, food, and hotels based on behaviour and preferences and save them for future.
9	Social Sharing	Enable users to share their travel experiences and app content via Facebook, Instagram, YouTube, and WhatsApp.
10	Saved Search History	Users should be able to access their past searches categorized by date (e.g., Today, Last 7 Days, Last 1 Month) for added convenience. The platform should also allow users to save their previous searches and itineraries, enabling quick and easy access later.
11	Notifications	Enable location-based and personalized push notifications about events, attractions, or deals as configured by the department.
12	SOS Emergency	Provide an SOS button that displays important contact numbers (police, ambulance, fire, railway, emergency contacts) relevant to the user's location.

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Date: 2025.09.19 20:31:24 IST
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S. No.	Feature Name / Category	Enhanced Requirement Description
13	Grievance Redressal	Allow users to lodge complaints or seek help through integration with the Rajasthan Sampark grievance portal.
14	Experience Rajasthan	Let users explore & book local experiences such as: <ul style="list-style-type: none"> • Monuments • Craft Tours • Nightlife • Sound & Light Shows • Shopping • Folk Events Include curated options like: <ul style="list-style-type: none"> • Palace on Wheels • Wellness Retreats • Virtual Tours • Culinary Tours Customized Packages
15	Attraction Details	Each place must show: <ul style="list-style-type: none"> • History, timings, contact • Map & navigation • Photo gallery & 3D view • Social sharing Nearby services (ATMs, hotels, police, etc.)
16	AR/VR Navigation	Enable immersive AR/VR-based navigation, walkthroughs, and virtual visits of tourist destinations using department-provided content.
17	Audio & Video guides	Include audio and video guides for monuments
18	Accessibility - Subtitles	Provide sign language support and subtitle overlays on audio/video content and virtual tours.
19	Accessibility - Braille/Audio	Support visually impaired users with downloadable braille maps and audio-assisted site tours.
20	Cuisine	Display famous restaurants and eateries with descriptions, type of cuisine, explaining origin, cultural context. Show live restaurant offers, promotions, and allow reservations if integrated.
21	Gamification	Reward users with badges/points for exploring destinations, sustainable behaviour, or cultural engagement. Add leaderboards and redeemable rewards.
22	Artisan Profiles	Share profiles, stories, or interviews of local artisans and link to their craft markets or exhibitions.
23	Festival	Maintain an interactive calendar with state-wide cultural events

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Designation: Technical Director
Date: 2025.09.19 20:31:24 IST
Reason: Approved

S. No.	Feature Name / Category	Enhanced Requirement Description
	Calendar	and festivals, filterable by date and region.
24	Events Details	Let users discover events with full event information near their location or selected destination through geolocation tracking.
25	Visa and Currency Info	For visa requirements, application steps, live forex rates and currency exchange guidance and FAQs for international tourists, redirect to concerned official website.
26	Offline Mode	Allow users to save maps, tickets, and guides locally to use offline in low-connectivity zones.
27	Flight/Train/Bus Booking	Redirect users to concerned government websites for booking/reservations.
28	Cab Booking	Integrate with cab services or list local tourist transport vendors with contact and tariff.
29	Accommodation booking and Listing	Integrate with accommodation aggregators and provide detailed listings for hotels, homestays, resorts, and heritage stays with filters for pricing, facilities, rating, room type, proximity to tourist areas.
30	Online Booking	Booking of tickets for monuments, safaris, museums etc. through OBMS (API integration with OBMS)
31	Tour Packages	Enable tour packages through RTDC portal. Display pre-defined itineraries with department-provided content including images and videos.
32	AI-powered Itinerary Planner	Develop AI-driven personalized travel itineraries by leveraging user preferences, travel history, and current travel trends. Provide curated itineraries for: <ul style="list-style-type: none"> • Eco-tourism • Wellness • Culture • Wildlife • Family • Rural Rajasthan, etc
33	Itinerary Export	Functionality to export itinerary in PDF format with sharing options.
34	WhatsApp Sharing	Enable sharing of itineraries, tickets, and real-time updates directly via WhatsApp.
35	Real-time Travel Updates	Provide real-time updates on flights, bookings, and other travel-related information, with the AI module incorporating real-time data checks to ensure itinerary accuracy and relevance.
36	Integrated AI chatbot	Utilize AI-based voice recognition chatbots to handle user queries, manage bookings, and provide travel-related

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Designation: Technical Director
Date: 2025.09.19 20:31:24 IST
Reason: Approved

S. No.	Feature Name / Category	Enhanced Requirement Description
	Assistant	information seamlessly.
37	City-wise Travel Desk Info	Display tourism offices, guides, helpdesk info by city.
38	Marketplace	Incorporate local shops and other merchandise relevant to tourists with an integrated dashboard to manage profiles, services, documents and status tracking along with an admin panel for verification and monitoring.
39	User Reviews & Ratings	Allow users to rate and review attractions, services, and destinations. It can also be used for internal analysis.
40	Social Media Sharing	Share photos, reviews, and travel stories on social platforms.
41	Travel Buddy Finder	Connect users with fellow travelers for shared experiences.
42	Influencer Collaboration Program	Streamlined influencer registration, affiliate links, and commission-based model. Real-time tracking of affiliate clicks, conversions, and earnings. Free/early access to events and discounted promotional experiences.
43	Payment Gateway Integration	Enable transactions via Raj Payment and other government gateways.
44	RajSampark Grievance Integration	Allow users to lodge grievances with departments via RajSampark.
45	Department Notification System	Enable communication and notification for internal department management.
46	Multimedia Gallery	Users can view categorized photos and videos.
47	E-Brochures & Publications	Access and download brochures and tourism-related publications.
48	Transaction Management	Back-end support for payment and booking transactions.
49	MIS Reports	Generate and manage Management Information System reports.
50	Content Approval Workflow	Approval-based publishing system with content controls.
51	Role-based Login	Assign roles (maker, checker, approver, publisher) for operations.
52	Customer Service & CRM	Enable CRM tools to handle users, SoS alerts, and booking queries.

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Digitally signed by Akhlesh Mittal
Designation: Technical Director
Date: 2025.09.19 20:31:24 IST
Reason: Approved

Key third-party integrations include (but are not limited to):

1. Travel Booking APIs:

- **IRCTC API** for Indian Railways ticket booking (via redirection or integration).
- **Flight Booking** via airline redirection or integration.
- **Bus Booking** with local/state/national transport services (via redirection or integration).
- **Cab Aggregators** integration with verified taxi operators.

2. Accommodation & Hospitality Platforms:

- Integration with **hotel booking engines** or aggregators for real-time room availability, pricing, and bookings.
- Hotel data updates via APIs where available.

3. Location-Based Services & Mapping:

- **Google Maps API** or equivalent for navigation, directions, and location tagging of attractions, eateries, and accommodations.
- **Geofencing** for push notifications and nearby alerts.

4. Payment Gateway (if applicable):

- Secure integration with **government-approved payment gateways** for in-app purchases or value-added services.

5. Event Ticketing Platforms:

- Integration with regional or national event ticketing platforms for booking festival passes, show tickets, and guided tours.

6. Social Media Integration:

- Seamless sharing and login via **Facebook, Instagram, YouTube, Twitter, Gmail**, and **WhatsApp** for user engagement and content distribution.

7. SMS & Notification Gateways:

- Integration with government-approved SMS gateways and push notification services to ensure timely alerts and updates.

8. Rajasthan Sampark Integration:

- API integration with the **Rajasthan Sampark grievance redressal platform** for lodging and tracking tourist grievances.

Application Development Technology:

Layer	Technology
Frontend (Mobile)	React Native / Flutter
Frontend (Website-CRM &)	React.js / Angular, HTML5, CSS3, Bootstrap 5, Tailwind (Fully

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Layer	Technology
CMS)	Dynamic CMS)
Backend	Node.js/Type Script, JWT
Database	PostgreSQL, MongoDB
AI/ML Development	Python/Ollama, Rasa
Authentication	OAuth, OTP (via SMS, WhatsApp, Email, Instagram)
Hosting	Rajasthan State Data Centre (RSDC) – Hosting OS- Latest Linux/Windows
DevOps & Infrastructure	AWS, Docker, CI/CD pipelines (GitHub Actions or similar)
Design & Prototyping	Figma (for wireframes, UI designs, and interactive prototypes)
APIs & Integrations	RESTful APIs, JSON/XML, SMS, Email, Payment Gateway, GIS/Map, GoR/GoI/PSU APIs, Booking, shopping and Transportation API

Project Deliverables and Milestones

Development Phase duration: - 11 Months.

Operation and Maintenance duration: - 48 Months.

S. No.	Milestone / Activity / Task	Timeline (T1 Format)	Key Deliverables
1	Project Initiation & Planning	T1 to T1+2.5 Weeks	- Detailed Project Plan Finalization - Resource Mobilization - Kick-off Meeting
2	System Study & Requirement Finalization	T1+2.5 to T1+4 Weeks	- Software Requirement Specification (SRS) - UI/UX Wireframes - Technical Architecture Plan
3	UI/UX Finalization & Design Approval	T1+5 to T1+8 Weeks	- Final Designs (Web & Mobile) - Design Mockups for Key Modules - Accessibility & Multilingual Planning
4	Phase I Development – Core Modules	T1+9 to T1+16 Weeks	- CMS with Workflow - Admin Panel Setup - Multilingual Framework - User Dashboard & Login Roles
5	Phase II Development – Tourism & Experience Modules	T1+17 to T1+28 Weeks	- Dynamic Sections (Attractions, Experience Rajasthan, etc.) - Mobile App and Website Development - AR/VR & 360° Integration - Cultural & Festival Content Pages - Accessibility Tools (Braille Maps, Subtitled PDFs)
6	Phase III	T1+29 to	- RTDC Portal Integration

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S. No.	Milestone / Activity / Task	Timeline (T1 Format)	Key Deliverables
	Development – Integrations & Bookings	T1+32 Weeks	- Payment Gateway Integration - Rajasthan Sampark Integration - CRM - Influencer / Affiliate Module
7	Internal Testing & Staging Setup	T1+33 to T1+36 Weeks	- QA Testing Reports - CMS Testing & Approval Flow Check - Mobile App and website Beta Release - SEO Optimization & Speed Testing
8	UAT (User Acceptance Testing)	T1+37 to T1+38 Weeks	- UAT Server Deployment - UAT Feedback Compilation - Bug Fixes and Final Tuning
9	Security Audit, Compliance & Go-Live	T1+39 to T1+40 Weeks	- CERT-In Security Clearance - Final Live Server Deployment - SSL, Hosting, DNS Setup
10	User Training & Project Documentation	T1+41 to T1+44 Weeks	- Admin & End-User Training (Online/Onsite) as per requirement - User Manual, Admin Guide, Deployment Package - Final Source Code Handover
11	Operation & Maintenance (Phase II)	T1+45 Weeks onward (4 Years)	- Quarterly Health & Audit Reports - Bug Fixes & Feature Updates - Regular Backups & Content Support - Server Monitoring & Performance Tuning - Security Patches, App Store Support

Resource requirements:

During development: -

Role	Key Skills	Quantity
Project Manager	Experience of Project Mgmt.	1
Business Analyst	SRS, URS, Functional Docs etc.	1
UI/UX Designer	Figma, Adobe XD, WCAG	1
Mobile App Developer	Flutter/React Native Cross platform, Android & iOS	1
Website Developer	Expertise in React.js / Angular, HTML5, CSS3, Bootstrap 5, Tailwind	1
Full Stack Developer	React + Node	1
QA Tester	Cross-platform QA, Manual & Automation	1
AI/ML Developer & Specialist	AI personalization, Itinerary Planner, GPT integration, NLP	1

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Role	Key Skills	Quantity
DBA	Expertise in database design,	1
Content Management /Document Writer/	SEO-focused Copywriting and Document writing expertise	1
Photographer/Videographer (As and when required)	Expertise in Creation of 360 degree content, videos, photos and A/V Content, drone shots etc.	1

During O & M: -

Role	Key Skills	Quantity
Project Manager	Experience of Project Mgmt.	1
UI Designer	Figma, Adobe XD, WCAG	1
Full Stack Developer	React + Node	1
Content Management /Document Writer/	SEO-focused Copywriting and Document writing expertise	1
AI/ML Developer & Specialist	AI personalization, Itinerary Planner, GPT integration, NLP	1
Photographer/ Videographer (As and when required)	Expertise in Creation of 360 degree content, videos, photos and A/V Content, drone shots etc.	1

Mode of procurement: - Open Tender (Project Mode).

Financial Implication:

Estimated Project Cost is Rs. 469.00 Lakh.

Fund Management:

Funds would be met by the Tourism Department, Rajasthan.

The Committee advised the department to ensure necessary integration with relevant State Government applications. It was also advised that necessary steps be taken during procurement process to ensure quality.

The Committee accords technical approval on the proposal having estimated cost of Rs. 469.00 Lakh.

9. Project : Implementation of RFID and Vehicle Tracking System (VTS) across Municipal Corporations of State to ensure efficient monitoring of solid waste management operations, enhance accountability and improve service delivery (Local Self Government Dept.)

The work regarding the Implementation of RFID and Vehicle Tracking System (VTS) across Municipal Corporations of State to ensure efficient monitoring of solid waste management

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operations, enhance accountability and improve service delivery has been included under State Budget Announcement 2024-25 (Para 22 (III)).

Objective:

In almost all Urban Local Bodies, the door to door collection of waste is being done by auto tippers / hoopers, but the vehicles are not being tracked to know whether every household is being covered by the waste collectors or not. To monitor the door-to-door waste collection effectively and to track the movement of every vehicle, latest IT tools are proposed to be used such as placing RFID plate fixed at each household and RFID reader placed in each vehicle or RFID reader to be provided to each waste collector. All the RFID readers be connected with the state level central monitoring system.

Impact:

- **Accurate Tracking:** Provides accurate and timely information about the status and location of each waste bin. **Efficient Collection:** Optimizes collection routes based on real-time bin fill levels, coverage of houses and collection schedules. **Data-driven Insights:** Enables data analysis for improved operational planning and resource allocation.
- By this initiative implementing a vehicle tracking system for door-to-door waste collection can lead to improved operational efficiency, 100% coverage of households, reduced costs, and enhanced service delivery in waste management practices. Converting an intermediate transfer station into a mechanized or automated facility can enhance operational efficiency, improve waste handling practices, and contribute to overall sustainability goals in solid waste management

Work Involved in the Project:

The project involves implementing a **vehicle tracking system integrated with RFID devices** for door-to-door waste collection to streamline and optimize operations.

1. System Design & Planning

- Gather requirements: coverage area, waste types, collection frequency.
- Design scalable architecture combining vehicle tracking and RFID.
- Select hardware: RFID tags/readers for bins, GPS/GSM modules for vehicles.

2. RFID Integration

- **Tagging:** Attach RFID tags to bins/houses for unique identification (passive or active).
- **Readers:** Install readers in collection vehicles or points to verify service at time/place.

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3. Vehicle Tracking System

- Install GPS modules in vehicles for real-time tracking.
- Transmit data via GSM to central server.
- Provide mapping & route visualization through UI.

4. Software Development

- Backend system to manage RFID + vehicle tracking data.
- Database for routes, schedules, RFID IDs, etc.
- Ensure integration of bin status and vehicle location data.

5. Deployment & Maintenance

- Plan phased rollout across service area.
- Train drivers & administrators on system use.
- Provide continuous support, updates, and hardware maintenance.

6. Expected Time of Arrival (ETA)

- System will calculate and display ETA of waste collection vehicles.
- Improves service predictability and enhances citizen satisfaction.

7. User Charges Collection through App-Based System

- Supports ULBs in collection of user charges via mobile applications.
- Provides digital records, transparency, and improves financial sustainability.

Detailed requirement for Nagar Nigam:

S. No.	Item Description	UOM	Qty	Total unit Basic	Total
A	Command & Control Center: State SCADA for SWM				
1	Supply of Command & Control Applications: -Video Wall Display (10*3 Matrix) of 55" LED with all required accessories and controller.	EA	1	312,24,300	312,24,300
2	Supply of Desktop Computers along with the OS, Antiviruses	EA	5	1,15,000	5,75,000
3	Supply of Modular Workstation with Chairs	EA	5	55,000	2,75,000
4	Supply Installation and commissioning of 5 KVA online UPS with 3 hour backup	EA	1	2,85,000	2,85,000
5	28 port managed switch	EA	2	6,44,280	12,88,560
6	Passive cabling including Ethernet, OFC Patch Cords, Electrical cabling, Conducting, HDMI cable, OFC, Duct, LIU & other related	Lot	1	16,56,720	16,56,720

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S. No.	Item Description	UOM	Qty	Total unit Basic	Total
	accessories.				
7	Installation & commissioning of Command & Control Applications	LS	1	36,81,600	36,81,600
8	Civil Work (renovation of the State SCADA for SWM)	LS	1	50,00,000	50,00,000
B	Data Center Items (at State Data Centre)				
1	at Bhamashah Data Centre	TB	25	as per actual	as per actual
C	Solid Waste Management Solution Centralize Part				
1	Development of Web Application and dashboard (including integration with State SSO Portal) for Hopper (Vehicle) tracking & Integration with State SCADA for SWM, Mobile Application (Android & IOS), QR Placer Application .	EA	1	453,12,000	453,12,000
2	driven House linkage with payment collection server application	EA	1	84,96,000	84,96,000
3	Payment Gateway - Rajasthan Payment Platform			-	-
4	Payment gateway integration charges	EA	1	22,65,600	22,65,600
5	Integration with Electricity and other Municipal Data for getting House unique ID and owners Contact number	EA	1	45,31,200	45,31,200
6	Development of Citizen Mobile App	EA	1	67,96,800	67,96,800
7	Citizen communication through eSanchar - efficient and reliable delivery of SMS, OTP	Annum	3	4,04,000	12,12,000
D	Solid Waste Management Solution Location Base				
1	Supply of Control Centre Applications: -Video Wall Display (2*2 Matrix) of 55" LED with all required accessories and controller. Applicable for top 13 Nigams	EA	13	22,08,960	287,16,480
2	Supply of Desktop Computers along with the OS, Antiviruses considering 2 persons to monitor at each control centre	EA	26	1,15,000	29,90,000
3	Supply of Modular Workstation with Chairs for 2 persons at each Control station	EA	26	55,000	14,30,000
7	Supply Installation and commissioning of GPS Tracking devices for Hopper (Vehicle) (Approx numbers taken here, where as actual cost to Nigam / Paliks will be as per their quantity)	EA	3000	4,602	138,06,000
8	Supply Installation and commissioning of RFID Tag for Hopper (Vehicle)(Approx numbers taken here, where as actual cost to Nigam / Paliks will be as per their quantity)	EA	3000	212	6,35,076
9	Supply Installation and commissioning of RFID	EA	28	1,01,244	28,34,832

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S. No.	Item Description	UOM	Qty	Total unit Basic	Total
	Reader for 65 Weigh Bridge Station				
10	Weighment record generation automation system application & commissioning	EA	28	8,60,250	240,87,000
11	CCTV camera at each location	EA	28	13,806	3,86,568
12	Installation Commissioning with Pole, Cables etc at Each location	EA	28	55,224	15,46,272
13	Gotagging activity at each location with house hold survey (Approx count taken which shall be used only in the case if initial Technology based tagging does not provide proper reading. Presently 10% of total households are considered under this category . This may increase or decrease as the case may be)	EA	100000	101	101,24,400
	Total A				19,91,56,408
E	Operation & Maintenance at Central Station for 3 Years				
1	Project Manager (Technical) - General Shift - 01 no.	MM	36	1,20,000	43,20,000
2	Quality Manager (Technical) - General shift 1 No	MM	36	70,000	25,20,000
3	Support Engineer - General Shift- 2 numbers each at major Nigams , means total 26	MM	936	55,000	514,80,000
5	10 MB leased line connectivity with redundancy (So total 20 MB) at State Control room for 3 years	MM	36	36,816	13,25,376
6	Broadband Connectivity at 13 State Control Station	Annum	468	11,800	55,22,400
7	Broadband Connectivity with 28 Weigh Bridge Station	Annum	1008	11,800	118,94,400
8	IOT (M2M) Multi Operator SIM for GPS for 36 months	EA	3000	5,040	151,20,000
9	AMC for hardware items for 3 years	Annum	3	67,26,894	201,80,682
11	GIS utility licences (shall be taken from DoIT)	Nos	3	-	-
	Total B				11,23,62,858
	Grand Total (A+B)				31,15,19,266

Detailed requirement for Nagar Parishad:

S. No.	Item Description	UOM	Qty	Total unit Basic	Total
A	Solid Waste Management Solution Parishad Part				

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1	Development of Web Application and dashboard (including integration with State SSO Portal) for Hopper (Vehicle) tracking & Integration with State SCADA for SWM, Mobile Application (Android & IOS), QR Placer Application .	EA	1	113,28,000	113,28,000
2	driven House linkage with payment collection server application	EA	1	21,24,000	21,24,000
3	Payment Gateway - Rajasthan Payment Platform			-	-
4	Payment gateway integration charges	EA	1	5,66,400	5,66,400
5	Integration with Electricity and other Municipal Data for getting House unique ID and owners Contact number	EA	1	11,32,800	11,32,800
6	Development of Citizen Mobile App	EA	1	16,99,200	16,99,200
7	Citizen communication through eSanchar - efficient and reliable delivery of SMS, OTP	Annum	3		
B	Solid Waste Management Solution Location Base				
8	Supply of Control Centre Applications: -Video Wall Display (2*1 Matrix) of 55" LED with all required accessories and controller. Applicable for other Parishads	EA	52	11,04,480	574,32,960
9	Supply of Desktop Computers along with the OS, Antiviruses considering 1 persons to monitor at each control centre	EA	52	1,15,000	59,80,000
10	Supply of Modular Workstation with Chairs for 1 persons at each location	EA	52	55,000	28,60,000
11	Supply Installation and commissioning of GPS Tracking devices for Hopper (Vehicle) (Approx numbers taken here, where as actual cost to Nigam / Paliks will be as per their quantity)	EA	1700	4,602	78,23,400
12	Supply Installation and commissioning of RFID Tag for Hopper (Vehicle)(Approx numbers taken here, where as actual cost to Nigam / Paliks will be as per their quantity)	EA	1700	212	3,59,876
13	Supply Installation and commissioning of RFID Reader for 80 Weigh Bridge Station	EA	52	1,01,244	52,64,688
14	Weighment record generation automation system application & commissioning	EA	52	8,60,250	447,33,000
15	CCTV camera at each location	EA	52	13,806	7,17,912
16	Installation Commissioning with Pole, Cables etc at Each location	EA	52	55,224	28,71,648

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17	Gotagging activity at each location with house hold survey (Approx count taken which shall be used only in the case if initial Technology based tagging does not provide proper reading. Presently 10% of total households are considered under this category . This may increase or decrease as the case may be)	EA	1500 00	101	151,86,600
Total A					1600,80,484
18	Support Engineer - General Shift- 1 numbers each at Parishads, means total 52	MM	1872	30,000	561,60,000
19	Broadband Connectivity at 52 Control Station	Annum	1872	11,800	220,89,600
20	Broadband Connectivity with 52 Weigh Bridge Station	Annum	1872	11,800	220,89,600
21	IOT (M2M) Multi Operator SIM for GPS for 36 months	EA	1700	5,040	85,68,000
22	AMC for hardware items for 3 years	Annum	3	287,01,042	861,03,127
23	Other General Maintenance in terms of Overall solution upkeep for the period of 3 years	LS	3	73,63,200	220,89,600
24	GIS utility licences		3		-
Total B					21,70,99,927
Grand Total (A+B)					37,71,80,411

Overall Financial Implication:

Description	Amount in Rupees
Requirement for Nagar Nigam	31,15,19,26.00
Requirement for Nagar Parishad	37,71,80,411.00
Grand Total	68,86,99,677.00
Say in Rounded Off	6887.00 Lakhs

Fund Management:

Expenditure of the project proposal would be met from the funds available with LSG Department, Rajasthan.

The Committee advised the department to re-evaluate the project and re-submit with further clarity.

Meeting ended with the vote of thanks to the chair.

This bears the approval from competent level.

(Akhilesh Mittal)
Technical Director

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Designation: Technical Director
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Reason: Approved

Copy for information and necessary action to:

1. PS to Additional Chief Secretary, Skill, Planning & Entrepreneurship Dept., Jaipur
2. PS to Principal Secretary, Finance Dept., Rajasthan, Jaipur
3. PS to Principal Secretary, Mines & Petroleum Department, Rajasthan, Jaipur
4. PS to Principal Secretary, Planning Dept., Rajasthan, Jaipur
5. PS to Principal Secretary, Industries and Commerce Department, Jaipur
6. Sr. PS to Secretary and Commissioner, Dept. of IT&C, Jaipur
7. PA to Commissioner, Tourism Department, Rajasthan, Jaipur
8. PA to Commissioner, Skill, Planning & Entrepreneurship Dept., Jaipur
9. PA to Director, Local Self Government & Swacch Bharat Mission (Urban), GoR, Jaipur
10. PA to Joint Secretary, Finance (Expenditure-III) Dept., Rajasthan, Jaipur
11. PA to Director (T), RISL, and Chairman, Technical Committee, Dept. of IT&C, Jaipur
12. PA to Director, Petroleum Department, Rajasthan, Jaipur
13. PA to Director, Directorate of Employment, Jaipur
14. PA to DDG & SIO, National Informatics Centre, Rajasthan, Jaipur
15. Shri Sanjay Singhal, Technical Director, Dept. of IT&C, Jaipur
16. Shri Darbari Lal, Technical Director, Dept. of IT&C, Jaipur
17. Smt. Poonam Choudhary, Chief Accounts Officer, Dept. of IT&C, Jaipur
18. PA to Director, LNMIIT, Jaipur
19. Shri Vikram Singh, Additional Director, Industries Department, Jaipur
20. Shri Ashish Kumar Gupta, Additional Director, Dept. of IT&C, Jaipur
21. Smt. Monika Chaudhary, System Analyst (Joint Director), Dept. of IT&C, Jaipur
22. Shri Dinesh Gujar, System Analyst (Joint Director), Dept. of IT&C, Jaipur
23. Shri Vijay Kumar Kanugo, Manager (Technical), RISL, Jaipur
24. Shri Rajesh Kumar Yadav, A.C.P. (Dy. Director), Employment Dept., Jaipur
25. Shri Shankar Lal Kumhar, A.C.P. (Dy. Director), Dept. of IT&C, Jaipur
26. Shri Prateek Kumawat, AEN, Directorate of Local Bodies (DLB), Jaipur
27. OIC- Website, Dept. of IT&C to upload the MoM on departmental website.

Technical Director

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Annexure-"A"

109th Meeting of SeMT held on 17-09-2025 - List of Attendees

S. No.	Name of officer	Designation and Department
1.	Smt. Archana Singh	Secretary & Commissioner, IT&C/ Chairperson, SeMT
2.	Shri Anil Kumar Singh	Director (T), RISL, Jaipur
3.	Shri Akhilesh Mittal	Technical Director, Dept. of IT&C, Jaipur
4.	Shri Sanjay Singhal	Technical Director, Dept. of IT&C, Jaipur
5.	Shri S.S. Shah	Additional Commissioner, Industries Dept., Jaipur
6.	Shri Ranveer Singh	MD, Rajasthan State Gas Ltd., Jaipur
7.	Shri Anant Jain	AD, Planning Department, Jaipur
8.	Shri Vikram Singh	Additional Director, Industries Dept., Jaipur
9.	Shri Ashish Kumar Gupta	Additional Director, DoIT&C, Jaipur
10.	Smt. Poonam Choudhary	Chief Accounts Officer, Dept. of IT&C, Jaipur
11.	Shri Om Prakash Jatawat	S.A. (Joint Director), Dept. of IT&C, Jaipur
12.	Shri Dilipraj Sharma	Joint Director, Petroleum Department, Jaipur
13.	Shri Jagdish Narayan Nirwan	Joint Director, Employment Dept., Jaipur
14.	Dr. Punita Singh	Joint Director, Tourism Dept., Jaipur
15.	Shri Dinesh Gurjar	S.A. (Joint Director), Dept. of IT&C, Jaipur
16.	Shri I.D. Variyan	Sr. Director (IT), NIC
17.	Shri Ravish Sharma	Joint Commissioner, Industries Dept., Jaipur
18.	Shri Rajesh Yadav	A.C.P. (Dy. Director), Employment Dept., Jaipur
19.	Shri Natwar Singh	A.C.P. (Deputy Director), Dept. of IT&C, Jaipur
20.	Smt. Harneet Kaur	A.C.P. (Dy. Director), Tourism Dept., Jaipur
21.	Smt. Asha Verma	A.C.P. (Dy. Director), LSG, Jaipur
22.	Shri Prateek Kumawat	AEN, Directorate of Local Bodies (DLB)
23.	Shri Vijay Kumar Kanugo	Manager (T), RISL, Jaipur
24.	Shri Mahesh Chandra Sharma	AAO-I, Finance (Expenditure-3) Dept., Jaipur
25.	Shri Hemant Kumar Nagar	SWM Expert, LSG

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