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Department of Information Technology
& Communication, Rajasthan

GOVERNMENT OF RAJASTHAN
Department of Information Technology & Communication

ITU WTSA
NEW DELHI 2024

No.:F5.501(1428)/DoITC HQ/2024/03617/2024   Dated: 20-08-2024

Minutes of 100th meeting of SeMT dated 12-08-2024

The 100th meeting of the State e-Governance Mission Team (SeMT) was convened under the Chairpersonship of Secretary, IT&C on 12th August, 2024 in Board Room, 1st Floor, RajCOMP Info Services Ltd. (RISL), Yojana Bhawan Campus, C-Scheme, Jaipur. List of participants is enclosed at **Annexure -"A"**

Agenda Item(s) discussed during 100th meeting of SeMT are indexed as follows:

(Rs. in Lakh)

S. No.	Project Proposal Name	Department/ Organization	Estimated Cost	Page No.
1	Development of Tele ICU	NHM	787.43	2-7
2	Extension of time period of Hiring of Technical support engineers (50 Nos.) for the successful operation of IHMS project in the Medical Colleges and Attached Hospitals under the Medical Education Department for one year (2024-25)	Medical Education Dept.	233.92	8
3	Extension of time period of Hiring of 10 FMS support staff in Sawai Man Singh Hospital for one year (2024-25)	Medical Education Dept.	98.65	9-10
4	Renewal of MoU with Stree Nidhi Telangana (SNT) for providing technical services through SNT/ TCS to Rajasthan Mahila Nidhi Credit Co-Operative Federation, Ltd., Jaipur	Rural Development & Panchayati Raj Dept.	232.63	10
5	Hiring of new TSP for Development, Customization, Implementation and Maintenance of IT system of Rajasthan Mahila Nidhi Credit Co-Operative Federation, Ltd. w.e.f. 01 November 2024 (for 3 years)	Rural Development & Panchayati Raj Dept.	392.66	11-12
6	Regarding uploading the data of solar power pump plants to be installed under PM Kusum Component B on 'PM Kusum portal' and providing space on the server of DoIT	Agriculture/ Horticulture Dept.	776.50	12-16
7	e-Girdawari - Automation of Girdawari Process through development of Mobile App	Settlement Dept.	347.55	16-20
8	IM Servers for Accountant General's office (IM server-AG Interface)	Finance (T&A) Dept.	514.43	21
9	Jan Soochna Portal	Dept. of IT&C	160.00	22
10	Rate Contract for the Container Management Platform and FMS Services	Dept. of IT&C	2854.15	23-24
11	Implementation of Integrated IT solution (RajERP Ph-III) for various PSUs under GoR	Dept. of IT&C/ RISL	3147.00	24-27
12	Implementation of Integrated IT solution (RajERP Phase-III) in any PSU (in generic manner) to ensure agile implementation, without requiring case wise approval- Rate Card Approval	Dept. of IT&C/ RISL	-	27-31
13	Revised Proposal of CMIS (CMWMS)	Dept. of IT&C	1227.02	31-33
14	Mass media network platform 2.0	Dept. of IT&C	3119.00	33-37
15	Hiring of Application Support & Maintenance (FMS) services of 25 manpower resources for IHMS application	Dept. of IT&C	245.00	37-39
16	Employment Exchange Management System 2.0	Employment Dept.	484.25	40-46
17	Integrated Watershed Management System	WD&SC Dept.	322.88	46-48
18	Implementation of Nation e-Vidhan Application (NeVA) in RLA	Rajasthan Legislative Assembly (RLA)	1261.60 (60:40:: GoI:GoR)	49-50

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GOVERNMENT OF RAJASTHAN
Department of Information Technology & Communication

ITU WTSA
NEW DELHI 2024

The followings were discussed in the meeting:

1. Project : **Development of Tele ICU** (NHM)

The Tele-ICU is a combination of tele monitoring software and Hardware integration. It is a transformation of a critical care tele-health program that delivers need-to-know information to caregivers, empowering them to care for the patients. It is a supplement - not a replacement - to the bedside team.

Project Objectives:

Design, Development, and Implementation of Tele-ICU Network linking 47 pediatric care units (with cloud based Tele-ICU having facility of automated tele monitoring) and 23 pediatric care units with 02 Centre of Excellence HUBs under Department of Medical & Health (list of facilities attached for reference).

Scope of Work:

- Tele ICU Software Development.
- Development of Tele-ICU module with Mobile & Web Application
- Live video consultation and prescription
- Seamless Interface with Medical Devices, integration with biomedical equipment (Multi Para Monitor and Ventilators), real-time tele monitoring
- Capacity building and handholding of specialists, nursing staff and other staff deployed at HUB, SPOKES and State officials
- Patient management system of Tele-ICU.
- Data Security and Patient Privacy
- Scalable Tele-ICU system
- Secure hosting of data & application
- Reporting, data analytics & Dashboard for all desired levels (Hospital, district & state authority)
- Procurement, supply, installation & commissioning of desired IT and networking equipment/ servers for HUB & SPOKES for effective communication (audio & video) and information exchange
- Skilled technical manpower deployment for everyday operation at Pediatric ICU SPOKES & HUB. One (1) at State level and four (4) at each of the two HUB locations – total 9 manpower.
- Integration of Tele-ICU system with IHMS 2.0
- Any other as per requirement of department
- As per discussions with DoIT&C officials, the following hardware shall be required for the same:

Sr. No.	Product	Automation Spokes [A] Qty.	VC Spokes [B] Qty.
	SPOKES	**47**	**23**
1	Bedside Hardware (including installation & commissioning) per Bed	188	NA
2	Camera on moveable stand	47	23
3	Laptop/All in one for Central Monitoring	47	23
4	Server for ICU	47	
5	Networking (laying LAN in ICU) - optional (Managed Switches, Face plates, Rack, Access points, patch cord, Services etc.)	47	23
6	Video Conference Licenses	47	23

	HUBS - 02	Qty.	Qty.
1	Laptop/All in one for Paediatricians/ Intensivists/ Critical Care experts (2 Per Hub)	4	
2	Triple Screen System (Comprehensive monitoring Solution for Tele ICU)	2	
3	Large Screen monitor (Display - 65 Inch)	2	
4	Color Printer	2	
5	Networking (laying LAN in ICU) - optional (Managed Switches, Face plates, Rack, Access points, patch cord, Services etc.)	2	
6	Server for Hub	2	
7	Video Conference Licenses	2	

*Bedside hardware will be integrated with only 4 ICU beds at each automated spoke.**

Roles and Responsibilities:

Roles & Responsibilities of the Medical and Health Department-
The broad set of responsibilities of the Medical and Health Department shall include:
- Medical and Health Department Shall appoint SPOC (Single point of Contact) for Tele-ICU Project for better coordination and collaboration.
- Monitor the functional requirements of the software solution in terms of workflow in ICU.
- Identify and appoint qualified healthcare professionals (HCPs) to staff the Hub ICU, including intensivists, critical care nurses, and respiratory therapists.
- Train HCPs on using tele-ICU technology and protocols for remote patient monitoring and intervention.
- Establish protocols for remote consultation, monitoring, and intervention between Hub ICU and Spoke locations.
- Ensure data privacy and security of patient information transmitted through the Tele-ICU system.
- Implement quality assurance measures to monitor the effectiveness of the Tele-ICU program and identify areas for improvement.
- Regularly review and update clinical protocols based on best practices and emerging evidence.
- To conduct timely project review meetings and monitor the progress & quality of the work done.
- Provide Sign-off / acceptance of various project deliverables submitted by RISL or vendor.
- Provide administrative support as and when required.
- Overall Project Management for the Tele-ICU project.
- Collaborate with other stakeholders for requirements and update DOIT/RISL for the same.

### Roles & Responsibilities of the DOIT/RISL-
- DOIT/RISL shall provide the requisite Technology Expertise for the project.
- Providing complete IT infrastructure (hardware and software) and required manpower for the project.
- Provide any other help/ assistance/ co-ordination required for successful implementation and operations of the work/ project.
- Data stored shall be accessible as per prevailing policies/ DoIT&C for inside and outside premises / network.
- Ensure that the solution design aligns with the project objectives.
- To ensure achieving timely project milestones.
- Assist in getting statutory approval from the concerned authority.
- RISL will provide necessary training and capacity building on IT Related system.

- Provide Human resource through RISL for implementation of Tele -ICU project.

Proposed Solution Flow:

The proposed framework for the Tele-ICU solution will provide a better and efficient method for healthcare professionals located at remote ICU facilities to interact and consult with healthcare specialists located at designated hub locations. This will allow the healthcare professionals at the remote site (spoke location) to initiate a video-conferencing call with the healthcare specialists at the super-specialty facility (hub location) and transmit diagnostic and EMR data of the critical patients admitted at the remote ICU facility.

Figure 1: Tentative workflow of Tele -ICU Solution Call
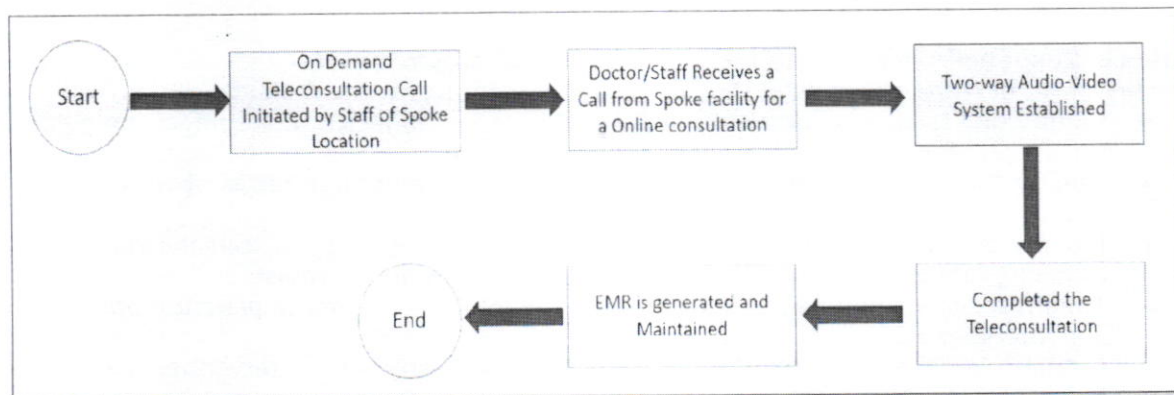
The framework for this solution will consist of the following functional layers:

- Data Acquisition Layer
- Application Layer
- Integration Layer
- Data Processing and Analytics
- Data Storage and Management

Proposed Solution Architecture:

- Cloud-Based Infrastructure
- Integrated Monitoring Devices
- Telemedicine Platform
- Clinical Decision Support System (CDSS)
- Data Analytics and Reporting
- Interoperability with Existing Systems
- Security and Compliance
- Remote Support and Training

System Actors

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

- State Level Users
- Moderators
- System Admin
- Individuals are the users

Functions of Web Portal/Module capabilities:

DoIT&C/RISL will develop the web portal for NHM, which includes the functions defined below as discussed with officials of NHM.

Patient Management	Patient Demographics, Medical History, Admission and Discharge Records, Bed Assignment, Care plans, Integration with EHR

Monitoring	Vital Signs monitoring, Call Management, Historical Data
Users Management	User registration, Role based access control, User profile management.
Dashboard and Reporting	Customizable Reports, On demand data access
Tele monitoring and VC (Video Conferencing)	Tele monitoring, Video Conferencing, Mobile Access

Users of Web Portal:
- Doctor & Staff at Spoke site (Health Facility)
- Facility in-charge of Spoke Facility
- Doctor & Staff at Hub site (Health Facility)
- Facility in-charge of Hub Facility
- District level officers (CMHO, RCHO)
- Zone level officers (JD-zone)
- State level officers at NHM HQ

Front End Modules:
These are the modules which covers various processes and sub processes of the system to facilitate state level, moderator's agency, system admin and other stakeholders. The module includes but not limited to:
1. Dashboards
2. MIS Reports
3. Call Management
4. Profile Management
5. Patient Management
6. Bio-medical Equipment integration and Management

Support Modules:
The support modules will be provided to ease of operation of the front-end modules. In this line the proposed modules under this category are:
1. Workflow Management.
2. Role/ Access Management.
3. Master Management.
4. Hierarchy Management.
5. Repository Management.

Database Layer
Integration Layer

Advantage of Proposed Solution
The proposed solution will extend benefits in various ways. The solution will be beneficial for both hospital and patients in following ways:
1. Improved Access to Specialized Care.
2. Timely Intervention.
3. Reduced Hospital Stay.
4. Consistent Care.
5. Optimized Resource Utilization.
6. Reduced Costs.
7. Improved Outcomes.
8. Streamlined Workflow.

Project Scope & Coverage Area:
- **Project Scope**
  The broad scope of the project includes but not limited to Study, Design, Development, Testing, Integration, and implementation services for NHM for the project and thereafter Operations & Maintenance Services for a period of 1 year.

- **Study of existing systems, New Modules and Enhancement Requirements**
- **Development of Web Solution**
- **Implementation and Support**
- **Training and Capacity Building as and when required**
- **Operations & Maintenance and Support Phase**

Project Stakeholders:

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

1. DOIT/ RISL, Rajasthan
2. Medical & Health Department & National Health Mission, Rajasthan
3. Moderators (If required)
4. Any other stakeholder Identified during the implementation of Tele -ICU project.

Financial Implication:

The estimated budget for the requirement of IT Hardware at Hub and Spokes site are given below in the table.

(Amount in Rs.)

Capex:

	Budget Estimate for Hardware Requirement for Tele – ICU					
	SPOKES (70)			**Automation 47 spokes**	**VC-Only 23 spokes**	
S. No	Product	Cost/Unit	Qty.	Total	Qty.	Total
1	Bedside Hardware (Including Installation & Commissioning) Per Bed	30,000	188	56,40,000	0	-
2	Camera on movable Stand	80,000	47	37,60,000	23	18,40,000
3	Laptop/ All in one for central Monitoring	90,000	47	42,30,000	23	20,70,000
4	Server for ICU	1,00,000	47	47,00,000		-
5	Networking (Laying LAN in ICU) optional Managed switches, Face plates, Rack, Access points, Patch Cord, Services etc.)	5,00,000	47	2,35,00,000	23	1,15,00,000
6	Video Conference Licence (Webex Platform)	25000	47	12,50,000	23	5,75,000
	Total (For Spoke locations)			**4,30,05,000**		**1,59,85,000**
	HUBS (2)	Cost/Unit	Qty.	Total	Qty.	Total
1	Laptop/All in one for Paediatricians /Intensivists/Critical Care Experts - Laptops 1 Per Hub)	90,000	4	3,60,000		-
2	**Triple Screen System (Comprehensive monitoring Solution for Tele ICU)**	1,20,000	2	2,40,000		

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& Communication, Rajasthan

GOVERNMENT OF RAJASTHAN
Department of Information Technology & Communication

ITU WTSA
NEW DELHI 2024

3	**Large Screen monitor (Display - 65 Inch)**	**75,000**	**2**	**1,50,000**		
4	**Colour Printer**	**40,000**	**2**	**80,000**		
5	Networking (Laying LAN in Hub) optional Managed switches, Face plates, Rack, Access points, Patch Cord, Services Etc)	3,00,000	2	6,00,000		-
6	Server for Hub	1,00,000	2	2,00,000		-
7	Video Conference License (Webex)	25,000	2	50,000		
	Total (For Hub Locations)			**16,80,000**		**-**

* On demand tele-consultation will be made available at only 4 out of 12 beds in Pediatrics ICU

* Any change in hardware requirements at Hub and Spoke may be assessed at the time of procurement, if required.

*Observation/ view of Technical Committee (T.C.) of Dept. of IT&C is attached as **Annexure-"B"**.*

Summary of Estimated Budget:

Category	Cost (INR)
Automated Spokes (47)	4,30,05,000
VC only Spokes	1,59,85,000
Hubs	16,80,000
Total (A)	6,06,70,000
AMC@18% (B)	1,09,20,600
Grand Total	7,15,90,600

Opex:
The Operation Expenses which shall include
1. Staffing (Manpower)
2. Training
3. Monitoring and Support Services
4. Administrative overhead
5. Quality Assurance
6. Medical Equipment maintenance
7. Moderators

S. No	Designation Of Resource	Number	Period (Months)	Man Month Rate (Including GST) INR	Annual Cost INR
1	Quality Manager (Technical)	1	12	77,747.00	9,32,967.00
2	Technical Support Engineer (3+1) (4 Per Hub)	8	12	64,789.38	62,19,780.48
	Total Opex	**9**	**12**	**1,42,536**	**71,52,747.48**

Fund Management:
Funds will be borne by Medical and Health Department.

The Committee accords technical approval on the proposal having estimated cost of Rs. 787.43 Lakh (Capex+Opex).

GOVERNMENT OF RAJASTHAN
Department of Information Technology & Communication

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NEW DELHI 2024

2. Project : **Extension of time period of Hiring of Technical support engineers (50 Nos.) for the successful operation of IHMS project in the Medical Colleges and Attached Hospitals under the Medical Education Department for one year (2024-25)** (Medical Education Dept.)

In compliance to the budget announcement of Honorable Chief Minister for 2017-18 the online work of the patients in the hospital is being done through IHMS (Integrated Health Management System) with the cooperation of Department of Information Technology and Communication.

Technical human resources (Roll out support engineers) have been appointed at 50 places through NIC in the Medical Education Department. In view of the requirement of the said human resources for maintaining IHMS during the financial year 2024-25, Dept. requested the approval of SeMT. Details of the same is as follows:

(Amount in Rs.)

S.N.	Facility Management Service Name	No. of Resources	Man Months	Man Month Base Rate Excl. GST (NICSI Margin@9%)	Total Amount (Incl. all taxes except GST)
1	Rollout Support Engineer (0 to less than 2 years relevant experience)	27	12	35159.60	9872815.68
2	Rollout Support Engineer (2 to less than 4 years relevant experience)	10	12	38004.22	3952438.90
3	Rollout Support Engineer (4 to less than 6 years relevant experience)	9	12	41076.42	3444752.93
4	Rollout Support Engineer (3 to less than 5 years relevant experience with certification or 5 to less than 7 years experience without certification)	4	12	51772.22	2153724.36
				GST 18%	3568271.73
	Total	**50**			**2,33,92,004.00**

Financial Implication:
The expected estimated expenditure is around Rs. 233.92 Lakh (including GST).

Fund Management
Expenditure would be met from the funds available with Medical Education Department.

The Committee accords technical approval on the proposal having estimated cost of Rs. 233.92 Lakh.

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Department of Information Technology & Communication (Rajasthan)

GOVERNMENT OF RAJASTHAN
Department of Information Technology & Communication

ITU WTSA
NEW DELHI 2024

3. Project : **Extension of time period of Hiring of 10 FMS support staff in Sawai Man Singh Hospital for one year (2024-25)** (Medical Education Dept.)

IHMS is being rolled out in Sawai Man Singh Hospital from 14-10-2022. In view of the urgent need for its successful operation and FMS Services in the interest of the patients, Through the office order number F4.15(02)/RISL/Tier-1/2022/7396 dated 02-02-2023 **Senior Network Specialist-01, Data Base Expert- 01, Network Specialist- 02 and Technical Support Engineer-06** have been made available by RajCOMP Info Service Ltd., the period of which had expired on 01.02.2024. In relation to extending the above mentioned FMS Services, RISL through its letter number 6682 dated 09-01-2024, informed that there is no provision for any budget fund at RISL level nor are any budgets available.

Therefore, the Medical Department has to take action at its own level to continue the above mentioned FMS services after 01-02-2024. Dept. requested for approval of SeMT on the proposal to continue FMS services in the financial year 2024-25 and to pay their dues from 01-02-2024 to 31-03-2024.

Detailed requirement of resources in Sawai Man Singh Hospital, Jaipur for one year (2024-25) is as follows:

(Amount in Rs.)

S.N.	Facility Management Service Name	No. of Resources	Man Months	Man Month Base Rate Excl. GST (NICSI Margin@9%)	Total Amount (Incl. all taxes except GST)
1	Sr. Network Specialist	1	12	130079.51	1560954.12
2	Database Expert	1	12	70952.46	851429.52
3	Network Specialist	1	12	65039.76	780477.12
4	Network Specialist	1	12	47301.64	567619.68
5	Support Engineer (TSE)	6	12	47301.64	3405718.08
	Total	**10**			**7166198.52**
				GST 18%	1289915.73
	Total Amount				**8456114.25**

Estimated expenditure for the payment of outstanding amount from 02-02-2024 to 31-03-2024 as per NICSI rates is as follows:

(Amount in Rs.)

S.N.	Facility Management Service Name	No. of Resources	Man Months	Man Month Base Rate Excl. GST (NICSI Margin@9%)	Total Amount (Incl. all taxes except GST)
1	Sr. Network Specialist	1	2	130079.51	260159.02
2	Database Expert	1	2	70952.46	141904.92
3	Network Specialist	1	2	65039.76	130079.52
4	Network Specialist	1	2	47301.64	94603.28
5	Support Engineer (TSE)	6	2	47301.64	567619.68
	Total	**10**			**1194366.42**
	GST 18%				214985.96
	Total Amount				**1409352.38**

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GOVERNMENT OF RAJASTHAN
Department of Information Technology & Communication

ITUWTSA
NEW DELHI 2024

Financial Implication:
The expected estimated expenditure is around Rs. 84,56,114.25 + Rs. 14,09,352.38 = Rs. 98,65,466.63 say Rs. 98.65 Lakh (including GST).

Fund Management
Expenditure would be met from the funds available with Medical Education Department.

The Committee accords technical approval on the proposal having estimated cost of Rs. 98.65 Lakh with follows:
1. **Post-facto approval from 01-02-2024 to 31-03-2024 for F.Y. 2023-24.**
2. **Technical approval for F.Y. 2024-25 with post-facto approval from April 2024 to August 2024.**

4. Project : **Renewal of MoU with Stree Nidhi Telangana (SNT) for providing technical services through SNT/ TCS to Rajasthan Mahila Nidhi Credit Co-Operative Federation, Ltd., Jaipur (Rural Development & Panchayati Raj Dept.)**

1. Earlier the project proposal of "Customization, Implementation and Maintenance of IT System for Mahila Nidhi Credit Co-Operative Federation, Rajasthan by TCS through Stree Nidhi Telangana (SNT)" was approved in 94th meeting of SeMT dated 21-10-2022 for one year and was effective up to 31 October 2023.

2. Now, Stree Nidhi Telangana (SNT) has submitted draft for renewal of MoU proposal of TCS for providing technical Services to Rajasthan Mahila Nidhi from 01 November 2023 to 31 October 2024 with 13 Resources at the rate 2,32,63,200/- (Two Crores Thirty-Two Lakh Sixty-Three Thousand and Two Hundred Only) excluding taxes.

3. The modules have been developed and operational are as follows:

   - eFMS (Electronic Funds Management System) Mahila Nidhi Loan Processing
   - Loan Authentication Module
   - DCB & Accounting Module
   - Insurance and Claim Processing Module
   - Apna Mahila Nidhi Mobile Application
   - Attendance Android Application

4. Implementation, customization and Maintenance of new modules:

   - eFMS Mahila Nidhi loan processing for HLP loan and deposits.
   - Loan Authentication Module for Udhyami & Smarth Sakhi Rin Yojna
   - DCB & Accounting Module for Udhyami & Smarth Sakhi Rin Yojna
   - Insurance & Claim Processing Module for Udhyami & Smarth Sakhi Rin Yojna
   - Apna Mahila Nidhi Mobile Application for Udhyami & Smarth Sakhi Rin Yojna
   - Grievance Mechanism

Financial Implication:
The estimated cost for providing technical services to Rajasthan Mahila Nidhi through TCS for one (1) year i.e from 01 November 2023 to 31 October 2024 is Rs. 2,32,63,200/- (excluding GST).

Fund Management
Expenditure would be met from the funds available with Mahila Nidhi Credit Co-Operative Federation, Rajasthan.

The Committee accords post-facto technical approval on the proposal having estimated cost of Rs. 232.63 Lakh.

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GOVERNMENT OF RAJASTHAN
Department of Information Technology & Communication

ITU WTSA
NEW DELHI 2024

5. Project : **Hiring of new TSP for Development, Customization, Implementation and Maintenance of IT system of Rajasthan Mahila Nidhi Credit Co-Operative Federation, Ltd. w.e.f. 01 November 2024 (for 3 years)** (Rural Development & Panchayati Raj Dept.)

Since the existing solution is deployed at State Data Center and in future it requires lot of integration with the existing IT ecosystem of the state such as Jan Aadhar, Raj Masters, eMitra, SSO, eSanchar, Rajeevika MIS, RPP etc. so it was decided by Departmental PeMT to hire the services of RajCOMP Info Services Ltd. (RISL) for Development, Customization, implementation and maintenance of IT system of Rajasthan Mahila Nidhi Credit Cooperative Federation Ltd., Jaipur.

The new TSP may be allowed around two months for knowledge transfer before taking over the project.

Scope of Work-

The major activities envisaged under the project are as follows:

- Design, development, revamping and maintenance of RMN application.
- To develop a comprehensive mobile application, compatible of all devices.
- Comprehensive dashboard.
- User Management- creation of Data Entry Sakhi as a user in the system so that she can apply for loans and this can be forwarded to AM.
- Option for Data entry from field through Mobile application.
- Integration with Rajeevika- for updating of member details in Aadhar, etc.
- Aadhar/Jan-Aadhar based authentication of applicants.
- Application maintenance and support services.
- Complete profiling of users so that their financial health may be analyzed. The individual & family income, existing loans and existing investments of the applicants maybe be managed.
- Module for managing repayment of loans.
- Addition of new functionalities/ modules as and when required.
- Modification/ up-gradation/ enhancement in the Process or functionality to fix some complex problem requests or defect fixing to upgrade the application performance.
- Update the design & content, layout, color schema, input forms, etc.
- MIS Reports based on separate instance of Database.
- Analytical Dashboards based on the materialized views and/ or OLAP database to ensure fast retrieval without affecting transitive performance.
- Integration with any applications of GoI/ GoR/ Third party for compliance of any mandate of government or to enhance the services through Rajeevika.
- Any task related to application enhancement, development, maintenance, for the compliance of government orders or as directed by the purchaser.
- Over all administration, operations, monitoring & maintenance of the deployed (existing and proposed) RMN Application and the Database to ensure the desired uptime and performance.

Financial Implication:

(Amount in Rs.)

S. No.	Description	Total Cost incl. GST @ 18%
1	Application Development, Customization, Implementation and Maintenance (Web & Mobile) for RMN (For 1 year)	1,38,41,577.36
2	RMN Application Maintenance Services for 2 years	1,93,31,488.10
3	**Contingency Charges @5%**	16,58,653.27
	Sub Total	3,48,31,718.73
4	**RISL Service Charges**	37,58,171.87
5	**CGST @9% on RISL Service Charges**	3,38,235.47
6	**SGST @9% on RISL Service Charges**	3,38,235.47
	Total Cost	3,92,66,361.54

Assumptions:
Following assumptions have been taken into consideration to arrive at the cost estimates:
1. The application shall be hosted at the RSDC and the core infrastructure of RSDC shall be utilized for the same.
2. Payment terms: 100% advance as per RISL policy

Note:
The financial estimates mentioned above are tentative. Actual cost may vary to some extent after further study of the requirements and actual rates discovered through tender process.

Fund Management
Expenditure would be met from the funds available with Mahila Nidhi Credit Co-Operative Federation, Rajasthan.

The Committee accords in-principal approval on the proposal having estimated cost of Rs. 392.66 Lakh, with direction to discuss the project details along-with all concerned stakeholders so that DoIT&C/ RISL may take a call on this for project to be considered at the level of RISL.

6. Project : **Regarding uploading the data of solar power pump plants to be installed under PM Kusum Component B on 'PM Kusum portal' and providing space on the server of DoIT** (Agriculture/ Horticulture Dept.)

Ministry of New and Renewable Energy (MNRE) launched Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyan (PM-KUSUM scheme) on March 8th, 2019 with objective of providing financial & water security to farmers through 3 components (A, B and C). RHDS, Department of Horticulture is a State Nodal Agency for Component B, provides for stand-alone off-grid solar pump sets to intended beneficiaries.

As per the detailed scheme guidelines, it is mandatory to set up a Remote Monitoring System (RMS) to capture various parameters from all the systems installed under the scheme along with a State Level Solar Energy Data Management (SEDM) platform to connect with all installed RMS systems through SCADA (using IIoT communication protocol and JSON message) to enable real-time monitoring.

As per the instructions of the Ministry of New and Renewable Energy (MNRE), GoI, the data of solar power pump plants to be installed under Component-B is to be uploaded on PM Kusum portal.

RHDS intends to issue tender for the Configuration of devices with providing SCADA Software License, Deployment, integration and Go-live services for each remote monitoring system as well as integration with existing State Level Portal & National Level Portal of PM- KUSUM scheme Component- B as described along with 05 years Operations & Maintenance contract.

The estimated cost for 1,50,000 pump plants to be installed in this tender is likely to be Rs. 646.50 Lakh (without GST).

Data of pump plants to be installed under PM Kusum Component 'B' Stand Alone Solar Energy Pump Plant Project is to be uploaded on the server of DoIT for PM Kusum State Portal as per the following details which may be more/less-

Scope of Work:

Work title: Configuration of devices with providing SCADA Software License, Deployment, Integration and Go Live services for each Remote Monitoring System as well as integration

D IT.C
Department of Information Technology
& Communication, Rajasthan

GOVERNMENT OF RAJASTHAN
Department of Information Technology & Communication

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NEW DELHI 2024

with existing State Level Portal & National Level Portal of PM- KUSUM scheme Component - B along with 05 years O&M contract.

Overall scope of work shall be in line with Standard Bidding Document (SBD) issued by MNRE including but not limited to following:

a. Supply of SCADA Software plat form license for integration of IoT based RMS as per MNRE Guidelines.
b. SCADA Device Provisioning Services for each IoT based Remote Monitoring System which includes TLS/SSL Certificate Generation, Credential generation, Device hierarchy management, FTP Server credential and testing for each device.
c. SCADA Tag Configuration Services for each IoT based Remote Monitoring System which includes configuration of Hard Tags, Soft Tags, Alarms and Notifications of Each system.
d. Configuration Services of User and Role Management: Organization/ User Creation, Role Management, Group Creation, Data Access Mapping, Mobile Application User Access Management.
e. Integration of data with State Level as well as National Level Platform.
f. Impart the required training to RHDS Officers for operation and usage of system.

Requirements of Software Operation and Maintenance Services for 5 Years:
Operational and Maintenance support activities are defined in four parts mainly:

a. **Remote Operational Support Services** which is required for successful application processing through all workflow stages. Bidder needs to provide following services as a part of Operational Support
    -   Tracking application through various stages from Application registration to Payment Disbursement
    -   Identifying misleading information and its reflection in reports and dash boards
    -   Troubleshooting related to data verification and validation process of each application
    -   Mass or Individual application-level Rectification of data entries as per RHDS requirements (subject to permission from competent authorities)
    -   Support to Empanelled agencies for troubleshooting and rectification (subject to permission from competent authorities)
    -   Support required to auto generate forms and documents for each application
    -   Regular archiving and back up of each application during its processing till closure.
    -   Ensuring complete integration and closure of each application at National Level portal
    -   Information Security is up most important. It is prime responsibility of bidder to ensure that the data shall remain secure from unauthorized user access. All due care shall be taken care while implementing the software.

b. **Remote Software Maintenance Services which is required for maintaining availability and performance of entire software platform**
    -   Ensuring availability of software
    -   Ensuring Proper functioning of each software module
    -   Ensuring performance of all software modules
    -   Provide resolutions of bugs in the software
    -   Updating Configuration of SCADA software in case of replacement of device or meter
    -   Support for billing integration APIs as per RHDS requirements
    -   Ensuring periodic backup of database
    -   Restoration of entire data base and software platform in case of infrastructure or other failures
    -   Ensure that the software remains compatible for operating system and database of the servers, PCs and mobiles during maintenance period. Accordingly, enhance the software and release the upgrades to maintain the compatibility with the latest versions of operating system and database and submit the latest source

code with states
- Ensure that the software is not vulnerable to any security threats.
- update third party security audit certificate as per guidelines

c. **Consultancy Services which is required to perform analytics on** received information and to highlight various abnormalities as well as irregularities to concern state officers and empanelled agencies
- Verification, validation and identification of data and image discrepancy in JCR/PCR Report and highlighting the same to concerned officer on weekly/Monthly basis
- Analytics of consumer and asset information

- The bidder shall develop various reports related to billing and electrical system performance analysis as per the requirement of RHDS as and when raised during the period of 5 years.
- Automatic reports for monthly and annual energy accounting and commercial settlement as per the requirement of RHDS should be prepared.

- Identification and generation of Weekly/Monthly Exceptional reports and to be shared with concerned officers at district level/subdivision level/ State level/ RHDS level, some of the examples but not limited to below list
  - (i) Low Generation
  - (ii) Low CUF
  - (iii) Abnormal Electrical System Reports: Over Voltage, VoltageUnbalance, Over Load, UN Balance Load, and High Temp.
  - (iv) Abnormal consumption/running hours etc.
  - (v) Low availability of system components: Inverter, Pump, grid etc.
  - (vi) Low Device Connectivity of RMS Systems
  - (vii) Low Data Availability from RMS Systems
- Identification and Generation of Exceptional reports related to complaint and Ticket Management
  - (i) Response and Resolution Time with reference to SLA
  - (ii) Root cause Analysis of complaints
  - (iii) Performance grading of Agencies and Components

d. **Regular Training and handholding Services for state officers and** empanelledagencies required to ensure effective utilization of entire software platform
  - Software and system training is utmost important for the success of the project hence the training in person shall be conducted on regular Monthly basis or as and when required in below areas but not limited to below topics
    - (i) Business Processes, Data Entry Impact, Issues & Resolutions
    - (ii) Solar, Grid & Electrical System Performance Analysis and Issues
    - (iii) Awareness for Farmer Mobile Application, Complaint & TicketManagement
    - (iv) System & Communication Architecture, RMS, IT, Web/ Mobile Applications

Requirements of Server Hosting for each Remote Monitoring System proposed by RHDS:

RMS Server Infrastructure for each Remote monitoring system for 5 years.

RMS Server / VM Requirement for PMKUSUM Comp- B– 250,000 RMS

SN	Server Name	Operating System	Processor	RAM	HDD	QTY
1	Device Communication & Management Server	Linux	Intel Xeon E5 2673, 16 Core equivalent or higher	128 GB	01 TB	1
2	SCADA Server	Windows Server 2019	Intel Xeon E5 2673, 8 Core equivalent or higher	64 GB	01 TB	1
3	Internal Queue Server	Linux	Intel Xeon E5 2673, 8 Core equivalent or higher	64 GB	01 TB	1
4	Archiving Server	Windows Server 2019	Intel Xeon E5 2673, 8 Core equivalent or higher	64 GB	01 TB	1
5	Database Server	Windows Server 2019	Intel Xeon E5 2673, 32 Core equivalent or higher	256 GB	20 TB	1
6	Web server for Mobile users	Windows Server 2019	Intel Xeon E5 2673, 8 Core equivalent or higher	128 GB	01 TB	1
7	Application Server	Windows Server 2019	Intel Xeon E5 2673, 8 Core equivalent or higher	128 GB	01 TB	1

Financial Implication:
Part A: Software and Application Development
Total RMS Integration of Solar Pumps - 1,50,000

Particulars	Cost*	Qty	Amount (₹)
Supply, Deployment, Integration and Go Live services of SCADA Software as well as integration with existing State level & National Level Portal of PM-KUSUM scheme Component-B.	326	150000	48900000
O & M Services Part-1 Remote Operational Support services of PM-KUSUM scheme Component-B.	30	150000	4500000
O & M Services Part-2 Software Maintenance, Consultancy and Training Services for 5 Years of PM-KUSUM scheme Component-B.	75	150000	11250000
Estimated Total Financial Arrangement			**6,46,50,000**

*** Estimated Cost is on the basis of previous year; it may vary by ± 10%**

D IT.C
Department of Information Technology
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GOVERNMENT OF RAJASTHAN
Department of Information Technology & Communication

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NEW DELHI 2024

Part B: Hosting and Infrastructure

SN	Server Name	Operating System	Processor	RAM	HDD	QTY
	RMS Server / VM Requirement for PMKUSUM Comp-B – 250,000 RMS*					
1	Device Communication & Management Server	Linux	Intel Xeon E5 2673, 16 Core equivalent or higher	128 GB	01 TB	1
2	SCADA Server	Windows Server 2019	Intel Xeon E5 2673, 8 Core equivalent or higher	64 GB	01 TB	1
3	Internal Queue Server	Linux	Intel Xeon E5 2673, 8 Core equivalent or higher	64 GB	01 TB	1
4	Archiving Server	Windows Server 2019	Intel Xeon E5 2673, 8 Core equivalent or higher	64 GB	01 TB	1
5	Database Server	Windows Server 2019	Intel Xeon E5 2673, 32 Core equivalent or higher	256 GB	20 TB	1
6	Web server for Mobile users	Windows Server 2019	Intel Xeon E5 2673, 8 Core equivalent or higher	128 GB	01 TB	1
7	Application Server	Windows Server 2019	Intel Xeon E5 2673, 8 Core equivalent or higher	128 GB	01 TB	1

***150000 RMS for Current project + Approx. 73000 RMS which are previously deployed on Cloud**

Estimated expenditure for taking the server from DoIT&C is Rs. 130.00 Lakh and Overall estimated total cost of project proposal is **Rs. 776.50 Lakh** (Rs. 646.50 Lakh+ Rs. 130.00 Lakh)

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. 776.50 Lakh.

7. Project :   **e-Girdawari – Automation of Girdawari Process through development of Mobile Application** (Settlement Dept.)

In compliance to the budget announcement for Financial Year 2023-24, the Hon'ble Chief Minister, Government of Rajasthan (GoR) intends to develop e-Girdawari a complete online Girdawari system for farmers of the state which shall encompass mobile applications (for Farmers and Dept. users).

Objective:
The primary objective of the project is to develop a mobile application that empowers farmers and makes them self-reliant in Girdawari process.
In addition to the objective of a self-service mobile application for the Girdawari process, the data generated through the Girdawari records shall also help the government to achieve:

a. Analysis of Land Use pattern
b. Compensation for Crop failure
c. Determining of Minimum Support Price (MSP) for crops
d. Any other use for Government of India, government of Rajasthan and various other stakeholders.

D IT.C
Department of Information Technology
& Communication, Rajasthan

GOVERNMENT OF RAJASTHAN
Department of Information Technology & Communication

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NEW DELHI 2024

Scope of Work:

1. **Development & Enhancement of Mobile Application, Interactive & Real time Dashboard and Reporting tools**

   The objective of this project is to design and develop a mobile application for Girdawari that ensures valid user authentication and accurate recording of necessary information. The application should allow users to provide details such as crop sown, areas of crop sown, and crop geo-tagged photographs for each Khasra.

   The department intends to develop a comprehensive mobile application with interfaces for farmers (Kisan) for entering their details and Departmental users for verification and validation.

   - Development of a mobile Application for Land Owners (Kisan) and executing agencies.
   - The Mobile App interfaces shall be developed in consultation with the department and can be modified on the basis of testing and Proof of concept (POC) report.
   - The mobile application shall provide a user-friendly login page for citizens to access the Farmer Login feature. Users will be able to log in using their Janaadhar/Aadhaar/ Any other mode as decided.
   - The mobile application shall provide a user-friendly login page for citizens to access the Farmer Login feature. Users will be able to log in using their Janaadhar/Aadhar/Any other mode as decided. SSO credentials, ensuring a secure and convenient login process.
   - For the departmental users a Single Sign-On (SSO) based login functionality shall be created to facilitate verification process.
   - For the purpose of Geo-fencing, georeferenced Khasra maps and 30m geo-fencing from khasra boundary shall be integrated in the solution.
   - The developed Mobile application shall be closely integrated with the existing Rajdharaa eco-system to ensure utilisation of existing GIS datasets and GIS layers.
   - State girdawari mobile App should have all features of Agristack mobile App for digital crop survey.
   - Other features shall be incorporated as per government mandate.
   - Grievances redressal system and feedback provisions should be developed in mobile app and dashboard.
   - API has to be given as and when required.
   - Integration of weather forecasting and Mandi rates etc.
   - Money transfer option has to be developed for easement of fund transfer as and when required through web.
   - Any up-dation and modification in data feeding, form display and reporting format has to be done as per requirement of user department.
   - After three years the user department can take handover of mobile app and dashboard or continue with DoIT&C as per mutual consent.
   - Integration of following applications with Girdawari mobile app

     - eDharti, BhuNaksha- API will be provided.

     - Raj-Dhara

2. **Development & Integration of Payment portal**

   Development and Integration of payment portal shall be done for private surveyor after approval process.

   The designed user-friendly interface shall allow the payment through budget head from IFMS. For this there will be an account created into IFMS system and it is to be processed through finance. First account will be created into IFMS for payment and after that API of payment will be shared from NIC team. In parallel bank accounts of all the private surveyors should be taken. A web application to be developed for private surveyors registration using Jan Aadhaar.

   The developed system shall encompass-

i. A workflow based validation and verification system to ensure accurate and valid data submission by the private surveyors.

ii. A comprehensive and user-friendly interface for department's, shall be developed to allow applicants to complete and preview the form before final submission.

iii. After private surveyors are registered through SSO; work allocation module will be developed and surveyors will be allocated the work.

iv. The respective Tehsildar should allocate the khasra of selected village or Patwar mandal for the survey and verification of the work done by the surveyor.

v. According to private surveyor works, payment will be approved by Tehsildar and further payment can be initiated.

3. Solution Hosting, User Training, Technology Support & Farmer Helpdesk

i. Like all other state specific application, this solution shall also be hosted in the Rajasthan State Data Centre (RSDC) as per the datacentre policy of the Government of Rajasthan. As stated earlier, the mobile applications developed as part of the project shall be hosted on Google Play Store and Apple App Store for a wider audience reach.

ii. Training sessions shall be organized for the user department officials to make them well conversant with in-built functionalities, features and process of the application.

   • DoIT&C/RISL shall design training programs to train the trainers and also create graphical contents for farmer's learning.
   • Technology support team shall be available for providing any technology assistance during the roll out and implementation phase.

iii. DoIT&C/RISL shall provide Operation & Maintenance (O&M) support for the entire project period i.e. 03 Years from the project Go-Live date. During the O&M phase a team of Consultants, GIS Developers, Analysts, Application Developers, Database experts, Performance Testers and Image processing manpower shall be available to address any challenges. DoIT&C/ RISL shall also create a User Manual to help the departmental users to understand the process flows and make effective use of same. A list of FAQ's shall also be created to address frequently asked questions. Any technological challenge associated with the application after the Go-Live date shall be addressed by the Technology Support team to the best of their abilities.

iv. The Helpdesk aims to address and resolve the challenges faced by farmers during the Girdawari process. It shall serve as the primary point of contact for farmers seeking guidance on executing the Girdawari. By establishing this Helpdesk, farmers will have a dedicated platform to seek assistance and find solutions to their issues. The ultimate goal is to streamline the Girdawari process and ensure that farmers have the necessary support to carry out their tasks effectively. Helpdesk will be established by user Department.

   • Helpdesk teams shall be created to assist around usage, generic queries, user mapping etc.
      a. Ticket management tool shall be implemented to address queries from the farmers as well as department users. The tool may also be integrated with Rajasthan Sampark on the requirements of the department.
      b. SLA shall be defined for various query types and resolution shall be monitored accordingly.
      c. The helpdesk team shall also be utilized for seeking feedback and effectiveness of the solution from the farmers.

Roles & Responsibilities:

Roles & Responsibilities of the Settlement Department

The broad set of responsibilities of the Settlement Department shall include below:

- The Department shall appoint a Nodal Officer as the Single Point of Contact (SPOC) for the project. One additional nodal officer shall be appointed from BoR

- The Department shall take ownership of all necessary data and help provide village map data, Khasra/ Khata related data, and official SSO master data through APIs

- The Department shall ensure the required fieldwork, including educating the farmers and help in conducting Girdawari activity on the ground

- The Department shall coordinate with various departments like NIC, Agriculture Department and Revenue Board to provide necessary data and information, such as village maps and crop master data

- The Department shall ensure smooth and proper cooperation and coordination between the ground team and other officials involved in Girdawari process

- To provide API for Aadhaar integration, Weather forecasting, Mandi Rate.

- To provide Grievance and feedback related details to incorporate with app.

- To provide list of APIs.

- To provide features details as part of Agristack for digital crop survey to integrate with mobile app.

- To provide list of features that shall be incorporated as per government mandate.

- To provide list of details /information to show in the developed dashboard.

- To provide API from IFMS for payment process integration

- To provide SSO id through SSO exits of all the official's

- Helpdesk support shall be established at Settlement department level.

Roles & Responsibilities of RISL / DoIT&C

The broad set of responsibilities of RISL/ DoIT&C shall include below:

- RISL shall provide the requisite Technology Expertise for the project

- RISL shall Design, Develop, Test & Audit the Mobile Application, Interactive & Real-time Dashboard

- RISL to provide Technical Support during the development and O&M Technical Support phases as per the period defined in the PPR document including but not limited to security audits of the web and mobile applications, Bug Fixes, enhancement, etc.

- RISL shall arrange the necessary infrastructure for hosting the data and application

- RISL shall create web services/ APIs to integrate available Base Map, Village boundaries, etc. and related attributes with the Girdawari Solution

- RISL shall provide training to Settlement Department officials& Helpdesk Support to Farmers as per the scope defined in the PPR

D IT.C
Department of Information Technology
& Communication, Rajasthan

GOVERNMENT OF RAJASTHAN
Department of Information Technology & Communication

ITU **WTSA**
NEW DELHI 2024

- Initially infrastructure (required hardware) shall be provided from the shared pool of Rajasthan State Data Centre (RSDC), although if additional infrastructure is required, then the line department is required to do provision for the same.

Financial Implication:

(Rs. in Lakh)

S. No	Sub-Activity / Category	Months	Qty	Cost Ex.GST
	Development and Implementation- Phase 1			
1a.	Development of Mobile Application for Kisan e- Girdawari, Janaadhaar Seeding and Girdawari verification by Authorities i.e. Patwari, ILR, Tehsildar etc. (Design, Development & Testing)		1	9.00
1b.	Development of Mobile Application for Farmer and Farmland Plot Registries		1	3.00
2	Support and Maintenance (after Go-Live of Girdawari Application)	36		20.40
3	Development of Web Dashboard Application to monitor the overall progress of the work, Extract Reports and Report Generation (Backend & Dashboard Development and DB Management)	36		48.10
4	Development of Payment Portal (Backend Development and DB Management)	36		18.00
5	Expert Manpower Services (PMU Team) - Development Phase (Various Integrations including GIS APIs and NIC Datasets)	6		63.39
	Maintenance Phase			
1	Team for Project Management, Operation & Maintenance support	12		48.7
2	Helpdesk Resources for e-Girdawari (As per project requirement, this may change) – **excluded** at Settlement			
3	Training and Transportation Related Expense & Other Miscellaneous Expenses		36	50.40
	All activities Cost			**260.99**

Note: All above given prices are excluding GST and RISL Service Charges.

Project Cost (including GST & RISL Service charges) for Phase-1-

(Rs. in Lakh)

S. No.	Item	Cost
A	Sum of Sr. No. 1 to 8 from table Implementation of Phase 1	260.99
B	GST (18% of A)	46.98
C	Total Cost Including GST (A+B)	**307.97**
D	RISL Service Charges 15% for <=25 lacs,+12% for >25 lacs&<=100 lacs+10% >100 lacs	33.55
E	GST on RISL Service Charges(18% of D)	6.03
F	**Total Cost to Department (C+D+E)**	**347.55**

Fund Management:
Expenditure would be met from the funds available with Settlement Department, Govt. of Rajasthan.

The Committee accords technical approval on the proposal having estimated cost of Rs. 347.55 Lakh.

8. Project : **IM Servers for Accountant General's office (IM server-AG Interface)**
(Finance (Treasury & Accounts) Dept.)

For sending monthly accounts/daily accounts through IFMS by Account General's office is currently done through AG Interface (IM server) project operated by Department of Information Technology and Communication.

The time period for the project is going to expire on 12-08-2024. A request has been made by the Accountant General's Office to continue this project for the next three years, the estimated cost of which has also been calculated by RISL's letter dated 08.04.2024.

The scope of this project has been proposed by the Accountant General's Office as follows:-

1. To do daily operation and management of the application software and providing support to AG office.
2. Upgrading, improving and maintaining applications as per AG office requirements.
3. Preparing or revising monthly/quarterly/annual reports as per AG office requirements.
4. To further strengthen the coordination of IM server with IFMS and IFMS 3.0 to facilitate exchange of data and information (including necessary documents) between the AG office and the State Government.
5. To ensure uninterrupted availability of all services, data and documents available in the current IM server.
6. To make available Voucher data, with all those data fields, which are available in voucher data in IFMS, on the IM server.
7. Through PMS receive from C.A.G headquarters, In compliance with the recommendations of the report of the working group constituted for hybrid accounting of transactions of Single Nodal Agency (S.N.A), Making available complete voucher data, documents and reports related to S.N.A to the AG office through IM Server.

Man Power Requirement submitted by Finance (T&A) Dept.:

S.N.	Profile	Total No. of Resources
1	Project Manager	1
2	Sr. Data Developer	2
3	Sr. Software Engineer (Java/ J2EE)	1
4	Software Engineer (Java/ J2EE)	2
5	Helpdesk	3
	Total	**9**

Financial Implication:

S.N.	Particulars	Amount in Rs.
A	Estimated Expenditure for Manpower (3 years)	3,86,31,229
B	Miscellaneous (Training, Vehicle etc.)	15,00,000
C	Sub Total (A+B)	4,01,31,229
D	Sub Total including 18% GST	4,73,54,850
E	RISL Charges (Application Software)	3,46,4840
F	RISL Charges with GST	40,88,511
	Total (D+E+F)	**5,14,43,361**

Fund Management:
Expenditure will be done under the budget heads of Directorate of Treasuries & Accounts.

The Committee accords technical approval on the proposal having estimated cost of Rs. 514.43 Lakh.

9. Project : **Jan Soochna Portal** (DoIT&C/ RISL)

Jan Soochna Portal, launched on 13 September 2019 by then Hon'ble Chief Minister, is a Public Information portal in which information about all the schemes implemented by the Government in the Ward/ Panchayat is disclosed at one place i.e. portal http://jansoochnarajasthan.gov.in this in line with Section 4 (2) of the RTI Act and Rajasthan Information Technology (Electronic Delivery of Services) Rules, 2019 drafted in compliance Electronic Service Delivery Rules, Government of India.

Current Status
The portal is available through web version, e-Mitra Plus Self-Service Kiosk and Mobile App. Presently, 727 Information related to 341 Schemes of 117 Departments is disclosed on Jan Soochna Portal.

Budget allocated
In the 78th meeting of SeMT held on 15-10-2019, the committee accorded technical approval of the project with project cost of Rs. 600.00 Lakh i.e. Rs. 6.00 Crore for development and O&M of Jan Soochna Portal along with feature enhancement of e-Mitra Plus self-service kiosks for 5 years; subject to the approval of Finance Department. Finance Department (FD) accorded the project approval.

The following components towards project cost are not considered in the assigned budget of ₹ 6 Crore for Jan Soochna Portal:
- GST component on project cost @ 18% of project value
- Rates of Service Charges for implementation of e-Governance / IT Projects by RISL: Approx. 10% of the project value plus GST.

Through an open tender, M/s Rysun Labs Private Limited (Formerly known as M/s Krish CompuSoft Services Pvt. Ltd.) was selected as the Technology Partner with work order / project value ₹ 5,85,00,007/- i.e. ₹ 5.85 Cr. Contract started on 15th June 2020 and is valid till 14th June 2025. Expenditure towards Project Cost is met from the fund managed from the DoIT&C's Budget.

Detail Fund requirement is given below:

S. No.	Component		Amount in Rs.	Remarks
1	Work Order Value	A	5,85,00,007.00	M/s Rysun Labs Private Limited (Formerly known as M/s Krish Compusoft Services Pvt. Ltd.)
2	GST	B	1,05,30,001.26	B=18% of A
3	RISL Service Charges	C	69,03,000.83	C=10% of A + 18% GST on 10% of A
4	Total Project Cost	D	7,59,33,009.09	D=A+B+C
5	Allocated Budget	E	6,00,00,000.00	As approved in 78th meeting of SeMT held on 15-10-2019
6	**Addl. Fund requirement**	F	**1,59,33,009.09**	F=D-E

Additional Fund Requirement: As highlighted above, to accommodate for left out taxes and RISL Service charges, funds of ₹ 160 Lacs is required towards project cost.

The Committee accords revised technical approval on the proposal having total estimated cost of Rs. 760.00 Lakh [Rs. 600.00 +160.00 Lakh (GST and RISL Service charges)].

D IT.C
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GOVERNMENT OF RAJASTHAN
Department of Information Technology & Communication

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NEW DELHI 2024

10. Project : Rate Contract for the Container Management Platform and FMS Services (DoIT&C/ RISL)

DoIT&C is equipped with state of the art infrastructure and it has several projects like Jan Aadhar, eMitra, Integrated Excise Management System, RajKaj, Sampark etc. which require Microservices Based Architecture. This needs availability of Microservices based technology stack, associated hardware and software infrastructure.

Project Scope

Microservices architecture (often shortened to Microservices) refers to an architectural style for developing applications. Microservices allow a large application to be separated into smaller independent parts, with each part having its own realm of responsibility. To serve a single user request, a microservices-based application can call on many internal microservices to compose its response.

A microservices architecture is a type of application architecture where an application is developed as a collection of services. It provides a framework to develop, deploy, and maintain microservices architecture and services independently.

Containers are a well-suited microservices architecture example, since they let you focus on developing the services without worrying about the dependencies. Modern cloud-native applications are usually built as microservices using containers.

There is a need of the container-centric management software that has de facto standard to deploy and operate containerized applications. It automates application management and day-to-day operations to make sure applications are always running. It continuously runs health checks to check application/services, restarting containers that fail, or have stalled, and only making available services to users when it has confirmed they are running.

The Container Management platform shall have following features:-

1) The licenses of container management platform shall be on premise in nature.
2) The container management platform shall be able to run efficiently on the bare metal servers and not be dependent on engineered machine to meet the hardware infrastructure requirements and performance.
3) The proposed OEM shall be positioned in latest published Gartner Magic quadrant report for Container Management.
4) The proposed Container Management platform shall be compliant with the functional & technical specifications as per project objectives.
5) The following items may be procured:

S.No	Description	Approximated Qty.
1	Container Management Platform licenses with 3 Years of support	2500 CPU Cores
2	OEM Manpower for Operation and Maintenance support of Container Management Platform for 3 years	3 Manpower
3	SI Manpower for FMS Services of Container Management Solution for 3 years	6 Manpower

Project Duration

Setting up of Container Management Solution and FMS Services for Operation & Maintenance Support of the platform for RSDC project will be a 3 years project.

Implementing Agency

For implementing the project, RISL would be the implementing agency for the project.

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GOVERNMENT OF RAJASTHAN
Department of Information Technology & Communication

ITUWTSA
NEW DELHI 2024

Project Financials

Indicative Cost with break up is as follow:

(Rs. in Lakh)

SN	Item Descriptions	Amount
1	**Rate Contract for the following items :-** a) Container Management Platform licenses with 3 Years of support - (2500 CPU Cores) b) OEM Manpower for Operation and Maintenance support of Container Management Solution for 3 years - (3 Manpower) c) SI Manpower for FMS Services of Container Management Solution for 3 years - (6 Manpower)	2500.00
2	Contingency Fund	50.00
3	**Sub Total (Sr. no. 1 + Sr. no. 2)**	**2550.00**
4	RISL Service Charges (as per order number F2.1(22)/RISL/Actt./12-13/5370 dated 31.10.2023, Turnkey category)	257.75
5	GST on RISL Service charges (@18% on Sr. no. 4)	46.40
6	**Total (Sr. no. 3 + Sr. no. 4 + Sr. no. 5)**	**2854.15**

The Committee accords technical approval on the proposal having estimated cost of Rs. 2854.15 Lakh.

11. Project : **Implementation of Integrated IT solution (RajERP Phase-III) for various PSUs under Government of Rajasthan** (DoIT&C/ RISL)

1. Government of Rajasthan has envisaged the need for a uniform ERP system for state government departments and PSUs to enhance internal efficiencies and automate internal processes. Therefore, it is proposed to implement a customizable integrated IT ERP solution to meet the requirements of various business functions. This solution will enable all activities to be executed through a single platform and will be closely integrated with the broader e-Governance architecture of the state.

2. RISL received requests from many PSUs for ERP implementations. In response, the APEX Committee, in its meeting held on December 29, 2015, decided that "Common Modules of RIICO application may be developed as a product looking into the commonalities of 60% similar requirements in other PSUs."

3. Phase I of the ERP implementation for 7 PSUs of the GoR under the project titled 'Implementation of Integrated Solution for IT Enablement of 7 PSUs' was approved by the SEMT during its 71st meeting held on November 16, 2017. The committee granted technical approval for the project with an estimated cost of Rs. 855.47 Lakhs.

4. Furthermore, during the 74th meeting of SeMT held on August 21, 2018, the project proposal for the "Implementation of Integrated IT Solution (ERP Suite) for IT Enablement of 6 Power Companies (RRVPNL, RUVNL, RVUNL, JVVNL, JDVVNL, and AVVNL) and the Formation of ERP Establishment Cell" received technical approval, with an estimated project cost of Rs. 504.30 Lakhs. Later, during the 76th SeMT meeting held on November 27, 2018, the committee revised the technical approval of the project, adjusting the cost to Rs. 701.85 Lakhs.

5. As part of Phase 3 Raj-ERP solution shall be a standard package with flexibility of dynamic configuration of the processes at the front end, as per organization requirements along with a scope of development of the any new modules and their corresponding integration with the existing modules wherever required. With RajERP, aim is to provide government COTS (Commercial off-the-shelf) product suitable to standard government processes at very low cost and a robust product, which requires minimum customization and faster adaptability.

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Department of Information Technology & Communication

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Scope of Work (SoW) under ERP Phase-III:

1. Customize, improvise, and upscale the implemented standard Integrated IT Solution (ERP package) which consists of multiple modules with dynamic configuration and customization facility, so that these can be implemented in any PSU with minimum efforts. During the standardization, it is expected to close all the processes under the module to get the closer of the module.
2. To provide seamless FMS support of all standard module currently being used in PSUs which were on-boarded in Phase-1 and Phase-2 of RajERP.
3. Total 6 modules, have already been developed as **Standard ERP module** viz-a-viz:
   - Human Resource Management
   - Accounts and Finance Management
   - Works monitoring and Project Management
   - Material Management & Procurement
   - Sales & Marketing Module for (mineral and mining sales)
   - Contributory Provident Fund Management
4. **On-boarding of New PSUs:** Configure and implement all required modules for various organization/ PSUs/ Departments under Government of Rajasthan as per the requirements of the organization. Detailed system study, Gap analysis and requirement finalization for all new PSUs will be done for seamless on-boarding on RajERP.
5. Integration with other standard e-governance applications (such as E-sign, E-Vault, Raj-Kaj, SMS and E-mail gateway) and existing applications of respective PSUs.

Financial Implications:

The cost of PMU, FMS Manpower, Training & Mobile Application and on-boarding of New PSU Module wise is mentioned in below table:

SN	Item Description	Quantity	Units	Per Unit Rate in INR (incl. all incidental charges and all Taxes but excl. GST)	Total in INR (incl. all incidental charges and all Taxes but excl. GST)	Total GST applicable in INR	Total in INR (incl. all incidental charges, all Taxes & GST)
PMU							
1.01	Delivery Manager	36	Man-Month	260400	9374400	1687392	11061792
1.02	Team Lead (L5)	36	Man-Month	241800	8704800	1566864	10271664
1.03	Project Manager (Technical)	36	Man-Month	232500	8370000	1506600	9876600
1.04	Project Manager (Functional)	36	Man-Month	232500	8370000	1506600	9876600
1.05	Domain Expert/ Business Analyst (L2)/Functional Consultant	216	Man-Month	139500	30132000	5423760	35555760
1.06	Senior Data Analyst	36	Man-Month	269700	9709200	1747656	11456856
1.07	Data Analyst	72	Man-Month	200880	14463360	2603405	17066765
1.08	**Total**						**105166037**
FMS							
2.01	Senior Software Developer (L4)	216	Man-Month	134850	29127600	5242968	34370568

2.02	Database Administrator (DBA)	72	Man-Month	116250	8370000	1506600	9876600
2.03	Software Developer (L3)	216	Man-Month	116250	25110000	4519800	29629800
2.04	Business Analyst (L1)	216	Man-Month	116250	25110000	4519800	29629800
2.05	Junior Software Developer (L2)	216	Man-Month	102300	22096800	3977424	26074224
2.06	Tester	216	Man-Month	74400	16070400	2892672	18963072
2.07	Coordinators/Associate Project Manager	216	Man-Month	83700	18079200	3254256	21333456
2.08	Help Desk Engineer (L1)	216	Man-Month	46500	10044000	1807920	11851920
2.09	Help Desk Executive	432	Man-Month	37200	16070400	2892672	18963072
2.10	**Total**						**200692512**
Mobile Application							
3.01	Mobile APP (For all 5 modules(HRMS, FA, MM, WPM, Sales & Marketing))	5	App	930000	4650000	837000	5487000
3.02	**Total**						**5487000**
Training							
4.01	Training	1	No. of batches	16740	16740	3013	19753
4.02	**Total**						**19753**
New PSU/Module on-boarding							
5.01	Cost for Conversion of required modules into a Standard Package solution	1	In numbers	465000	465000	83700	548700
5.02	Cost for on boarding PSU's having upto 100 employees	1	In numbers	186000	186000	33480	219480
5.03	Cost for on boarding PSU's having 101 to 1000 employees	1	In numbers	279000	279000	50220	329220
5.04	Cost for on boarding PSU's having 1001 to 3000 employees	1	In numbers	372000	372000	66960	438960
5.05	Cost for on boarding PSU's having more than 3000 employees	1	In numbers	465000	465000	83700	548700
5.06	Project Manager	1	Man-Month	232500	232500	41850	274350
5.07	Project Coordinator	1	Man-Month	83700	83700	15066	98766

5.08	Application Support Executive/Help desk	1	Man-Month	37200	37200	6696	43896
5.09	Functional Consultant	1	Man-Month	139500	139500	25110	164610
5.10	Application Engineer	1	Man-Month	83700	83700	15066	98766
5.11	Change Request Per Man month	1	Man-Month	186000	186000	33480	219480
5.12	Total						2984928
Grand Total							314350230

Fund Management:

The expenditure will be covered by the funds managed or available with the respective PSUs & RISL.

Sr. No.	Description	Cost Borne By	Estimated Financial Implications (INR incl. all taxes &charges)
1	PMU	RISL	Rs. 10.51 Cr.
2	FMS (3 Yr.) - Rajasthan State Mines & Minerals Ltd.	RSMML	Rs. 4.91 Cr.
3	FMS (3 Yr.)- DISCOMs (AVVNL, JdVVNL& JVVNL)	Respective DISCOM	Rs. 7.60 Cr.
4	FMS (3 Yr.)-Rajasthan Rajya Vidyut Utpadan Nigam Ltd.	RVUNL	Rs. 0.8 Cr.
5	Future on boarded new PSUs with mobile application, training and FMS cost	Respective new PSUs	Rs. 7.65 Cr.
	Total		Rs. 31.47 Cr.

(As previous work orders of RajERP Phase-I & Phase-II were about to expire and there was urgent needs to provide FMS services to existing PSUs, as approved in PC-III vide ref. no. F4.3(200)/RISL/Tech/16/Part-III/4239 dated:20.09.2022 LoI issued to M/s ESPL for RajERP Phase-III of amounting Rs. 31.47 crore.)

The Committee accords post-facto technical approval on the proposal having estimated cost of Rs. 3147.00 Lakh.

12. **Project :** **Implementation of Integrated IT solution (RajERP Phase-III) in any PSU (in generic manner) to ensure agile implementation, without requiring case wise approval- Rate Card Approval** (DoIT&C/ RISL)

The implementation of ERP Phase 1(For RSMML, RISL, AUK, JMRC) & Phase 2 (For DISCOMs, RVUNL & RVPN)for Phase 1 approved by SEMT during its 71st meeting held on 16th Nov 2017 and for Phase 2 approved by SEMT during its 74th meeting held on 21st August 2018.

In the 74th SeMT meeting it was directed, that the rates for implementation in any PSU (in generic manner) should get approved to ensure agile implementation, without requiring further case wise approvals. In compliance of this a rate card was approved in 76th SeMT meeting held on 27th November 2018 based on RajERP Phase-2 Work order.

Since new work order has been placed for RajERP Phase-3, New rate card has been prepared for RajERP Phase 3 which will be utilized for all further implementations (in new PSUs and additional modules in PSUs considered in Phase-III), including extensions of the FMS period

as per the actual requirements of the PSUs. For future on-boarding of PSUs, the costs can be determined based on the approved rate card from this SeMT.

Financial Implications:
The total minimum cost for on-boarding single module of RajERP implementation in any organization would be calculated based on below Rate Card (3 Month Implementation and 12 month FMS cost):

SN	Component	Description	Unit	PSU having (0-100) employees Amount (Excl. RISL Service charges & GST)	PSU having (101-1000) employees Amount (Excl. RISL Service charges & GST)	PSU having (1001-3000) employees Amount (Excl. RISL Service charges & GST)	PSU having (3000+) employees Amount (Excl. RISL Service charges & GST)
1	Onboarding Charges (As per Existing Standard Scope)	For One module detail in Annexure A	Per module	1,86,000	2,79,000	3,72,000	4,65,000
2	Infra Cost	Central stack & Server infra Annexure D	Per module	3,13,470	6,09,120	11,52,889	22,51,508
3	Training Cost (30 trainees per batch) @ 16740 as per WO	Cost of training per batch (Batch Size = 30 Persons)	Per module per batch	16,740	16,740	16,740	16,740
4	Implementation Support for 3 months	As per Annexure B	Per module	7,04,475	10,46,250	17,29,800	20,71,575
5	FMS Services for 12 months	As per Annexure C	Per module	25,66,800	28,17,900	38,22,300	46,31,400
6	Change Request (includes new process developments)	As per Actual	Per man month	1,86,000	1,86,000	1,86,000	1,86,000
	Total Cost Per Module (Excl. RISL Service charges & GST)			**37,87,485**	**47,69,010**	**70,93,729**	**94,36,223**

Note:-
- **On boarding Charges**- The cost for On-boarding new PSU are fixed for one module as per the User base of PSU utilising the ERP Module given in **Annexure A**.
- **Hardware Costs & Software costing**- All hardware-related expenses are additional and not included in the current scope of work. Details of minimum cost for Infrastructure Central stack & Server for one module are included in Annexure D. In case organization opts for more than one module, infra for subsequent modules will vary based on the uses of the organization.
- **Training Flexibility**- Training sessions can be extended based on departmental needs and actual usage and will be defined based on number of batches.

- **Implementation Support**- Cost for Implementation support are fixed based on number of users of the respective PSUs. Detail calculation for one module are attached in Annexure B for one module. In case organization opts for more than one module, on site Implementation team may be reduced based on the requirement of department.
- **FMS Costs**- The base cost for FMS is set fixed according to the minimum effort estimated based on departmental employee numbers. Detail calculation for one module are attached in Annexure C. In case organization opts for more than one module, on site FMS team may be reduced based on the requirement of department.
- **Change Requests**- Any deviations from the standard scope of work will be considered as a CR according to RajERP Phase-3 work order.

Annexure A (On-Boarding Cost)

	On-Boarding Cost			
SN	Item Description	Quantity	Units	Per Unit Rate in INR (Excl. RISL Service charges & GST)
1	Cost for onboarding PSUs having up to 100 employees	1	In Numbers	1,86,000
2	Cost for onboarding PSUs having 101 to 1000 employees	1	In Numbers	2,79,000
3	Cost for onboarding PSUs having 1001 to 3000 employees	1	In Numbers	3,72,000
4	Cost for onboarding PSUs having more than 3000 employees	1	In Numbers	4,65,000

Annexure B (Implementation Cost)

	Implementation Cost (Excl. RISL Service charges & GST)					
SN	Item Description	Per Unit Rate in INR	0-100 Employee	101-1000 Employee	1001-3000 Employee	More than 3001 Employee
1	Project Manager	2,32,500	58,125	1,16,250	2,32,500	2,90,625
2	Project Coordinator	83,700	83,700	83,700	83,700	83,700
3	Application Support Executive/Help Desk	37,200	37,200	37,200	37,200	37,200
4	Functional Consultant	1,39,500	34,875	69,750	1,39,500	1,74,375
5	Application Engineer	83,700	20,925	41,850	83,700	1,04,625
6	Total Implementation cost		2,34,825	3,48,750	5,76,600	6,90,525
7	Total Implementation cost for 3 months (Excl. RISL Service charges & GST)		7,04,475	10,46,250	17,29,800	20,71,575

Note:-

- The above Implementation charges are for 3 months, however, if the project takes longer due to dependencies on the department or PSU, then additional implementation charges will apply on a monthly basis according to the actual time taken.
- During implementation phase only Project Coordinator & Application Support executive will be deployed on client location.

Annexure C (FMS Cost per year)

FMS Cost per year (Excl. RISL Service charges & GST)

SN	Item Description	Units	Per Unit Rate in INR	Qty	0-100 Employees	Qty	101-1000 Employees	Qty	1001-3000 Employees	Qty	3000+ Employees
1	Senior Software Developer (L4)	Man-Month	1,34,850	0	0	0	0	0	0	0	0
2	Database Administrator (DBA)	Man-Month	1,16,250	0	0	0	0	0	0	0.5	58,125
3	Software Developer (L3)	Man-Month	1,16,250	0	0	0.5	58,125	0.5	58,125	0.5	58,125
4	Business Analyst (L1)	Man-Month	1,16,250	0	0	0	0	0	0	0	0
5	Junior Software Developer (L2)	Man-Month	1,02,300	1	1,02,300	1	1,02,300	1	1,02,300	0.5	51,150
6	Tester	Man-Month	74,400	1	74,400	0.5	37,200	0.5	37,200	1	74,400
7	Coordinators/Associate Project Manager	Man-Month	83,700	0	0	0	0	1	83,700	1	83,700
8	Help Desk Engineer (L1)	Man-Month	46,500	0	0	0	0	0	0	0.5	23,250
9	Help Desk Executive	Man-Month	37,200	1	37,200	1	37,200	1	37,200	1	37,200
10	FMS Total Per Month			3	2,13,900	3	2,34,825	4	3,18,525	5	3,85,950
11	FMS for 12 Months(Excl. RISL Service charges & GST)				25,66,800		28,17,900		38,22,300		46,31,400

Note:-
- FMS cost may increase if client PSU requests for additional resources for FMS other than mentioned in the above table.
- During FMS period only Help Desk Executive will be deployed on client location.

Annexure D :(Infrastructure Central stack & Server)(Excl. all charges & GST)

PSU with 0-100 Employees

SN	Item	Qty	Rate per	Per Month Amount	Yearly Amount
1	SERVER(2 core 8 GBRAM,100 GB Storage)	2	3,150	6,300	75,600
2	Windows Server OS (Per 2 Core)	2	525	1,050	12,600
3	Oracle Enterprise(Per 2 Core)	2	6,000	12,000	1,44,000
	Total			19,350	2,32,200
4	FMS Charges (35%)	1		6,772	81,270
				Total	3,13,470

PSU with 101-1000 Employees

SN	Item	Qty	Rate per	Per Month Amount	Yearly Amount
1	SERVER(4 vCore 16 GBRAM,100 GB Storage)	2	5,750	11,500	1,38,000

SN	Item	Qty	Rate per	Per Month Amount	Yearly Amount
2	Windows Server OS (Per 2 Core)	4	525	2,100	25,200
3	Oracle Enterprise(Per 2 Core)	4	6,000	24,000	2,88,000
	Total			**37,600**	**4,51,200**
4	FMS Charges (35%)	1		13,160	1,57,920
				Total	**6,09,120**

PSU with 1001-3000 Employees

SN	Item	Qty	Rate per	Per Month Amount	Yearly Amount
1	SERVER(8 vCore 32 GBRAM,100 GB Storage)	2	10,533	21,066	2,52,792
2	Windows Server OS (Per 2 Core)	4	525	2,100	25,200
3	Oracle Enterprise(Per 2 Core)	8	6,000	48,000	5,76,000
	Total			**71,166**	**8,53,992**
4	FMS Charges (35%)	1		24,908	2,98,897
				Total	**11,52,889**

PSU with more than 3000 Employees

SN	Item	Qty	Rate per	Per Month Amount	Yearly Amount
1	SERVER(16 vCore 64 GBRAM,100 GB Storage)	2	19,391	38,782	4,65,384
2	Windows Server OS (Per 2 Core)	8	525	4,200	504,00
3	Oracle Enterprise(Per 2 Core)	16	6,000	96,000	11,52,000
	Total			**1,38,982**	**16,67,784**
4	FMS Charges (35%)	1		48,643	5,83,724
				Total	**22,51,508**

Note:-
- In case organization opts for more than one module, infra cost may be increase or remain same as per requirement.

The Committee accords technical approval on the proposal of Rate Card of RajERP.

13. Project :   Revised Proposal of CMIS (CMWMS) (DoIT&C/ RISL)

Committee was briefed about the CMIS project. The scope of work outlines the comprehensive framework for the development, implementation, and maintenance of the Chief Minister Information System (CMIS), emphasizing its dynamic nature and commitment to meeting the evolving needs of the Hon'ble Chief Minister's office.

The Chief Minister Information System (CMIS) is an integrated web-enabled information and decision-support system developed for the computerization of core activities within the office of the Hon'ble Chief Minister of Rajasthan. The committee granted technical approval for CMIS project proposal having estimated cost of Rs. 1086.14 Lakh under the 99th SEMT.
CMIS is developed to provide a centralized platform for storing, managing, and accessing critical information relevant to the Hon'ble Chief Minister's office. It also enables real-time data collection, analysis, and reporting to support informed decision-making by the Hon'ble Chief Minister and other stakeholders, facilitate seamless communication and collaboration among departments, ministries, and agencies involved in the governance process.

In the ambit of CMIS, CMWMS project/module will be developed and maintained. The details of CMWMS projects are as follows: -

About the CMWMS Projects

The Chief Minister's Works Management System (CM-WMS) was developed for monitoring and tracking of infrastructure works of different departments related to State Budget declarations/announcements made during previous 4 years and upcoming years.

This system has following components:

1. Web Application: Web application is being used for management and tracking of all infra related budget announcement and works respect to these announcements, MIS reports, User management, Dashboard etc.
2. Mobile Application: for capturing geo tagged image of works at different stages like under conceptualization, under development, under implementation, and completed. (Mobile application available on Play Store and iOS Store).

Scope of Work:

1. **Reporting Facilities**: Provision of various project reports, geo-tagged work reports, project status reports etc.
2. **Works Details Management**: Addition and updating of work details based on announcement type, date, and financial year.
3. **E-Sanchar Integration**: Auto-generation of SMS and emails via E-Sanchar integration.
4. **Master Data Management**: Maintenance of master records for departments, users, announcement types, financial years, etc.
5. **Mega Project Management**: Addition and updating of mega projects (projects costing more than ₹100 crore). Monitoring of mega projects through the mobile application.
6. **PMG and PM-Pragati Portal Integration:** Integration with the PMG and PM-Pragati portal for effective monitoring of ongoing projects of Rajasthan, monitored by the Government of India.
7. **Work Progress Tracking:** Capture and track work progress at different stages under conceptualization, under development, under implementation, and completed through the mobile application.

This scope of work ensures comprehensive management, monitoring, and reporting of projects, leveraging technology and integrations for enhanced efficiency and transparency with agility.

Duration of the project: The nature of the project is continuous and on-going. The period of the project is proposed to enhance further for three (3) consecutive financial years 2023- 2026. The CMWMS is proposed to be for two financial years 2024-2026.

Implementing Agency: RISL will be the implementing agency for the CMIS project which also includes CMWMS portal.

Financial Implication:
Additional Funds Requirement for F.Y. 2024-25 and 2025-26 for CM-WMS under CMIS project

(Rs. In Lakh)

S. No.	Description	Requirement for F. Y. 2024-25	Requirement for F. Y. 2025-26	Revised Total Cost
1	Facility Management Services of the developed applications.	60.00	60.00	120.00
2	Contingency Charges includes Mobility and Consultancy (@5% of S.No. 1)	3.00	3.00	6.00
	Total estimated cost	**63.00**	**63.00**	**126.00**
	RISL Service Charges as per approved rates (as applicable)	6.30	6.30	12.60

GST on RISL service charge @ 18%	1.14	1.14	2.28
Total Estimated Revised Project Cost including RISL Service Charges & Taxes	**70.44**	**70.44**	**140.88**

In the 99th SeMT, the CMIS project was approved for Estimated Financial Implication of the project proposal is Rupees 1086.14 Lakh for the duration of years 2023-24 (Rs. 327.14 Lakh), 2024-25 (Rs. 379.50 Lakh) & 2025-26 (Rs. 379.50 Lakh).

Considering the estimated cost of this project CMWMS is Rs. 140.88 Lakh. Now, overall Estimated Financial Implication of the revised project proposal is **Rs. 1227.02 Lakh** for the duration of year 2023-24 (Rs. 327.14 Lakh), for year 2024-25 (Rs. 379.50 + 70.44 = Rs. 449.94 Lakh) & 2025-26 (Rs. 379.50 + 70.44 = Rs. 449.94 Lakh).

Fund Management:
Expenditure would be met from funds available with Dept. of IT&C under the Budget Head of "CMIS".

The Committee accords technical approval on the proposal having revised estimated cost of Rs. 1227.02 Lakh.

14. Project :   Mass media network platform 2.0 (DoIT&C/ RISL)

The Government of Rajasthan wants to draw advantages from the Mass Media Network Platforms which are technology driven and popular among the masses to communicate instantly and directly with the people of the State in a highly effective and transparent manner. These platforms help in making networking and engagement with the public simple and powerful. It also helps in making faster research, providing mechanisms for understanding sentiments, quick communications at the times of crisis and measurement of public sentiment to help in forming the public policy.

Social media and Digital Marketing encompass strategies for marketing, brand promotion, content creation, event promotion, and search engine optimization across various social networking platforms. The primary goal is to enhance visibility and raise awareness among citizens about government schemes and individuals. The scope involves promoting content on key social media platforms such as Facebook, Instagram, Twitter, YouTube, Pinterest, Tumblr, LinkedIn, Snapchat, Vimeo, etc., utilizing AI solutions.

Department of Information Technology & Communication (DoIT & C) through RISL intends to select a professional and experienced premium network media agency to manage various activities including (but not limited to) network media management, listening, benchmarking, insights, promotions, digital content creation & management, search engine optimization, search engine marketing, sentiment analysis etc related to Government of Rajasthan upto 100 social media handles.

Scope of work:
Complete Mass Media Management, which includes (but not limited to):
Making strategies for Marketing and promotion on key social media platforms such as Facebook, Instagram, "X", YouTube, Trends, Pinterest, Tumblr, LinkedIn, Snapchat, Reddit, Vimeo etc.
Utilizing AI solutions for Mass Media Listening, management, query management and auto response, insights, engagement, sentiment analysis etc.
Content creation, event promotion, and search engine optimization and marketing across various mass media networking platforms.

The primary goal is to enhance visibility and raise awareness among citizens about government schemes and individuals. The scope includes, but not limited to:

1. **Providing a Unified Platform with AI/ GenAI capabilities**
   - Mass media listening, media monitoring, tracking and social media engagement into a single platform.
   - The capability to monitor an unlimited number of mentions across unlimited keywords using unlimited queries.
   - The platform should be capable to track Twitter Firehose and Reddit Firehose.
   - Ability to track different sources of data (structured and unstructured) such as social media, online news, broadcast, print media etc. (Note: Offline media, including national / international / regional newspapers, magazines, periodicals etc. also need to be monitored and inputs / analysis/ reports need to be provided digitally).
   - The tracking capabilities for both primary languages i.e. English, Hindi with regional language support to some extent.
   - AI based smart alerts and notifications for top mentions, spikes for sudden increase/decrease in mentions, mentions (tweets) from prominent journalists/influencers/persona.
   - Centralized Dashboard for AI generated summaries for sentiment analysis and subsequent decision making based on the insights identified by the tools with AI capabilities.
   - Bench marking, Query Management and AI driven auto responses/recommendations for conversations/mentions.
   - Early warning reporting system and response to the Procuring Entity.
   - In the event of unforeseen occurrences or in the situation of crisis management, to assist the Procuring Entity communicate effectively using various media deemed fit.

In addition to above the service provider would be responsible to provide subscription / licenses of native tools used by prominent social media channels like Facebook, Instagram, "X (firehose)", YouTube and AI platforms like ChatGPT, Gemini etc., SEO & SEM Tools, Image and video Libraries such as Shutterstock etc. as per the project requirements during the contract period.

2. **Comprehensive Digital Outreach Strategy for Citizens**
   Expansion of Digital Outreach (Amplification):
   a) The Selected Bidder shall achieve 5% growth for each priority handle (to be identified and finalized jointly by Procuring Entity and Bidder, up to 15% of total handles) and 1% growth for other handles each month for each Mass Media Network Platform handle in number of followers and reach, etc. Procuring Entity may revise the targets in exceptional circumstances after analyzing the performance, trends, requirements and insights (revised targets would not be higher than the ones mentioned above).

3. **Creation, Maintenance & Management of Digital Mass Media Network Platform Accounts/Handles:**
   a) The Selected Bidder shall maintain the Social Media Accounts/ Handles, upto 100 in nos., in English & Hindi (with Rajasthani Dialect wherever possible) on various popular Digital Mass Media Network Platform, like - Facebook, Instagram, LinkedIn, "X (firehose)", YouTube, WhatsApp, Telegram, Signal Pinterest, Snapchat, Reddit etc.
   b) The Selected Bidder will be responsible for creation, maintenance and management of up to 100 handles with the manpower to be deployed initially under this RFP.

This also includes Content Creation & Management for social media handles:

a) Selected Bidder shall ensure daily informative and promotional updates about government schemes and initiatives on Mass Media Network Platform Handles

b) Developing creative units like banners / posters / fliers and video·

c) Procuring photographs, music and videos as may be required. The expenses for the same would be paid by the Selected Bidder, including third party image/audio/video libraries, without any financial implications for the Procuring Entity.

d) Creation of Powerful and Interactive Power Point Presentations as per the requirement. The content for the presentations would be provided by respective stakeholders.

e) Design of fliers, brochures, banners, posters, etc. promotional material as and when required.

f) Development of logos for different projects, events, initiatives, etc.

g) Creation of high quality contents in Hindi & English for blogs, newsletters, e-mailers, social media posts, videos, websites, Wikipedia, SEO, online advertisements, etc.

h) Creative content generation, recreate or convert the content and repackage the available content. The content may be of various forms such as graphics, cartoons, smart art, animations, video, etc.

i) Adaptation and replication of existing and new creative for various media.

j) Content update frequency for each of the applicable Mass Media Network Platform of each Department as mentioned below.

PLATFORM	MINIMUM/POSTS/ PHOTOS/VIDEOS/ ETC. PER DAY PER DEPARTMENT	MINIMUM POSTS/ PHOTOS/VIDEOS/ETC. PER MONTH PER DEPARTMENT	OTHER DETAILS
Facebook	3-5	100	-Creation/Updating of cover /profile images & banners
"X"	5-7	150	
Instagram	1-2	40	
LinkedIn	—	20	-Messages in public interest (with different type of contents like te: video, images, etc.)
YouTube	—	1-2	-Use of Tags/Hash tags

4. **Mass Media Network Platform Query Management & Online Reputation Management**

5. **Articles:**

6. **Wikipedia:**

7. **Search Engine Optimization / Search Engine Marketing:**

8. **Preparing & Maintaining the Inventory / Repository of Creative Material:**

9. **Gate keeping:**

10. **Reporting and Business Intelligence:**

11. **Data Security & Fraud Prevention:**

12. **Onsite Team:**

a. The Selected Bidder shall deploy onsite as well as offsite team for the activities mentioned in the scope of the work and RFP. The composition, number of resources, structure, etc. of offsite team shall be decided by the Selected Bidder which will include the mandatory requirements mentioned in the RFP by the Procuring entity. The Onsite Team will be working at Jaipur and at different parts of the State of Rajasthan and may have to travel to accomplish the Scope of Work as given in this RFP and as per assignment of task by the Procuring Entity. This

arrangement for the same will be without any financial obligation for Procuring Entity unless mentioned otherwise.

b. The details of onsite team required in Jaipur is left to the discretion of the Selected Bidder apart from the mandatory requirements as mentioned by the Procuring Entity. Qualification and Experience of experts for providing services is explained at Annexure 12 of the RFP. Selected Bidder will have to study the Team size, Composition and requirement in consultation with the Procuring Entity to ensure smooth functioning on a daily basis of all activities as mentioned in the Scope of Work of this RFP. Procuring Entity envisages mandatory requirement of minimum twenty (20)* resources onsite to cater for the daily requirement during the kick start of the Project. It may increase depending upon the penetration and influence of social media on the common mass (target audience) and the awareness level which will increase within the Government departments. Selected Bidder should be ready to deploy more resources onsite if so, felt by the Procuring Entity to enhance functional efficiency to meet the SLAs and the activities as mentioned in the Scope of Work and when required which the Procuring Entity will bring out if they see a deterioration in the quality.

	Social Media work	Minimum onsite team out of total resources
Program Manager	1	1
Digital Marketing Manager	1	1
Online Reputation Manager	1	1
Digital Analyst / Social Media Analyst	3	1
Motion Designers / Video Editors	3	2
Senior Graphic Designer	3	2
Content Manager	3	1
Content Writers	5	4
Social media Developers	3	1
AI Tool Expert	2	2
Technical Support	4	4

c. Minimum five (5) Mass Media Network Real Time Response Teams as per following details will be required:

Mass Media Response Team (Minimum five Teams (5) of 3 resources each)	
	No.
Photographer	1
Videographer	1
Reporter	1

These Mass Media Network Real Time Response Teams will have to move to any part of Rajasthan as per requirement of Procuring Entity for covering the Events. Out of 5 teams, 2 teams should be readily available to move on short notice of 2-3 hours and 3 teams should be readily available on 24 hours notice depending upon the travel distance. All these requirements for completion of the activities mentioned in the Scope of Work will be the responsibility of the Selected Bidder without any financial obligation for Procuring Entity.

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Department of Information Technology & Communication

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Financial Implication:

The details of the proposed expenditure of estimated cost of approx. rupees 31.19 Cr. for 4 years (2024-25 to 2027-28) are as follows:

S. No.	Item Description	Estimated Annual cost (INR)	Estimated cost for 4 years (INR)
1	Installation, configuration, customization, capacity building and FMS services of the AI based Mass Media Tool at RSDC/Cloud along with subscription / licenses of native tools, SEO & SEM Tools - For 4 years	73,75,000	2,95,00,000
2	Manpower/Team Deployment (29 Resources)	4,07,25,000	16,29,00,000
3	Manpower Cost - Real-time Response Team (5 Teams – each consist of 3 resources)	1,22,50,000	4,90,00,000
4	PMU Cost	62,50,000	2,50,00,000
5	RISL Charges	83,75,000	3,35,00,000
6	Others (Contingency etc.)	30,00,000	1,20,00,000
	Total	**7,79,75,000**	**31,19,00,000**

Budget Provision:

The project would be implemented through RISL. Approval was accorded in the 95th meeting of SeMT for the earlier project Mass Media Network Platform Management for two years with estimated cost of Rs. 30.80 Crores (15.40 Crore per year) & this project was executed for one year.

The required fund of rupees 31.19 Cr. for the current proposal for the duration of 4 years (2024-25 to 2027-28) would be provided by DoIT&C from the funds available under the Budget Head "Social Media" in this year & subsequent years.

The Committee accords technical approval on the proposal having estimated cost of Rs. 3119.00 Lakh.

15. Project : **Hiring of Application Support & Maintenance (FMS) services of 21 manpower resources for IHMS application** (DoIT&C/ RISL)

Integrated Health Management System (IHMS) Project was started in 2017 under compliance of Hon'ble CM Budget announcement FY- 2017-18. It is centralized unified web based solution that caters to all health services of Govt. Hospitals and generate EHR for patients across the state. The existing IHMS application modules have been onboarded in more than 1200 Govt. Hospitals / Medical institutes are empanelled across Rajasthan (including the largest health facility in state, i.e., SMS Hospital, Jaipur) and required to be continued for providing healthcare facilities.

After floating RFP in 2017 with Open competitive bid process, Work Order No. F4.2(266)/RISL/Tech/2016/5306 dated 20.09.2017 was awarded to M/s E-Connect Solutions

Pvt. Ltd. for the project "Implementation of Integrated Health Management System (IHMS) with Telemedicine for the State of Rajasthan", wherein FMS services (25 resources) started from Sept 2020 which ended on 31st August 2023.

An additional work order no. F4.2(266)/RISL/Tech/2016/ 6205 dated 09.12.2022 was awarded to M/s E-Connect Solutions Pvt. Ltd. as per Rule 73 of RTPP Rules, 2013 for deployment of 24-Developers & Module Champions and 9 Subject Matter Experts under IHMS project for "The capacity enhancement for roll-out of IHMS application at SMS College & attached Hospital including basic Integration with Chiranjeevi, RGHS, E-Aushadhi". The work order of M/s E-Connect Solutions expired on 29th February 2024. Afterwards, for continuity of work, RISL work order no. F4.15(02)/RISL/Tier-I/2024/9139 dated 16.03.2024 was awarded to M/s Data Ingenious Global Ltd. for deployment of 18 manpower resources (developers/ module champions/ subject matter experts) which will expire on 16th August 2024.

Keeping in view the criticality and complexity of application and for continuity of services, M/s E-Connect Solutions Pvt. Ltd. was awarded the following post facto-work order no. F4.2(266)/RISL/Misc/2016/7315 dated 06.02.2024 from 1st September 2023 to 31st January 2024 and work order no. F4.2(266)/RISL/Misc/2016/7316 dated 06.02.2024 for the period of 1st February 2024 to 31st August 2024 as per provision of RTPP Act 31.1 (c) & (d) for the FMS (support & maintenance) services for implementation of IHMS for the state through Single Source Procurement :

In compliance of the Hon'ble CM Budget Announcement FY 2023-24, Design, development and implementation of enhanced version (IHMS 2.0) of IHMS application is to be done with enhanced features, functionalities & capabilities. Therefore, existing IHMS application needs to be continued till IHMS 2.0 goes officially live. In the same context, RFP has been published on 30.07.2024.

The work order of FMS will expire on 31.08.2024. The Application Support & Maintenance (FMS) for IHMS application needs to be continued till IHMS 2.0 will take over the project.

FMS Team ensures smooth function of IHMS application by supporting the Public Health facilities with IHMS application, imparting training to new users, providing solution or technical issues, validating the existing and new flow modifications, data migration, any type of integration, categorise the issues and forward them to the development team, maintaining coordination between stakeholders, and last not the least knowledge transfer etc.

Currently, the IHMS application is still undergoing technical enhancements like integration with WhatsApp, Queue Management System and ABDM Compliance, therefore, the Application Support & Maintenance (FMS) for IHMS application needs to be continued till IHMS 2.0 will take over the project.

As per decisions taken in PC-III it is decided to hire the FMS team categorised in Support Team and Development Team for a period of one year i.e. from 1st September 2024 to 31st August 2025 to cater the requirements of the State including SMS College and affiliated hospitals.

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Department of Information Technology & Communication

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Estimated Financial Implication for Tier- I FMS manpower (In Rs):

(A)   Support Team:

SN	Category	Qty.	Duration (in months)	RISL MMR Including all incidental charges (Excl. GST)	Total RISL Amount Including all incidental charges (Excl. GST)
1	Team Lead & Project Manager	1	12	142,860.00	1,714,320
2	Helpdesk Executives	10	12	54,906.25	6,588,750
3	Domain Expert	6	12	84,525.00	6085800
(i)	Approx. Total Amount (In Rs.)				1,43,88,870

(B)   Development Team:

SN	Category	Qty.	Duration (in months)	RISL Rate Including all incidental charges (Excl. GST)	Total RISL Amount Including all incidental charges (Excl. GST)
1	Senior Developers/ Full Stack Developers	4	12	122,406.78	5,875,525
2	Developers	2	12	100,000.00	2,400,000
3	Database Administrator	1	12	87,850.00	1,054,200
4	QA and Testing	1	12	63,142.19	757,706
(ii)	Approx. Total Amount (In Rs.)				1,00,87,432

(C)   Total Amount:

S.No.	Team Category	Total RISL Amount (Excl. GST)
i.	Support Team [A(i)]	1,43,88,870
ii.	Development Team [B(ii)]	1,00,87,432
iii.	Approx. Total Amount (Excl. GST) [(A(i))+ (B(ii))] (In Rs.)	2,44,76,302
	Say Rs. (In lakh)	245.00

Proposal cost of procurement of FMS (Support & Maintenance) would be approx. Rs. 245.00 Lakh (Excl. GST).

Fund requirement may be met from the funds available in "Backend & New Projects" Budget Head of DoIT&C.

The Committee accords technical approval on the proposal having estimated cost of Rs. 245.00 Lakh.

16. Project : Employment Exchange Management System 2.0 (Employment Dept.)

The Department of Employment (DoE) of Rajasthan, as a part of their envisioned strategy to strengthen the Livelihood opportunities and reduce unemployment in the State, a new portal called "Employment Exchange Management System-2.0 is to be proposed". The proposed IT platform shall serve as an enabler for empowerment of unemployed skilled youth, which will also help the industry & service consumers to address their manpower requirements. The platform shall serve as a unique source of information as manpower database, integrate various other data sources and serve as a "one-stop-solution" for employment related services to citizens.

Employment Exchange Management System shall be used for registering service providers working in organized and unorganized sectors. It will include functionalities like Job Seeker Registration, Employer registration, apply for Un-Employment Allowance and complete application disposal through an online platform.

The online "Employment Exchange Management System" shall be supplemented with State-of-the-art employment services. These services shall function with participation from private sector to provide all kinds of employment related services to the youth visiting there with the process of the unemployment exchanges.

In order to implement the proposed solution a preliminary system study has been conducted to evaluate feasibility of the proposed IT solution. Also, the existing EEMS portal needs to be maintained to support its existing services without any interruption. The PPR serves as the roadmap for implementation of "Employment Exchange Management System-2.0".

The implementation cost for the proposed IT solution is estimated a detailed in Section 5 of this report. The cost includes expenditure towards the creation of "Employment Exchange Management System" which will have all functionalities of EEMS. RISL service charges have also been included in the cost estimates.

Project Background

The Department of Employment (DoE) in Rajasthan performs its functions through Directorate of Employment (Employment Head office (HO) at Jaipur), 07 Regional offices (ROs) and 40 Employment Exchanges (EEs) spread over all districts of Rajasthan which includes District Employment Exchanges (EEs) at all the 33 District headquarters. Besides, there are special EEs for physically handicapped, four University Employment Information and Guidance Bureau and Special Employment Exchange (EE) for Women and Professional & Executives.

The main functions of Department of Employment are as per the National Employment Services Manual (NESM) and are therefore mostly consistent throughout the country with the flexibility to State Governments to apply innovative approach to their functioning. The Department of Employment is mainly responsible for the following:

- Ensuring proper enforcement of the provisions of Employment Exchange (Compulsory Notification of Vacancies (CNV)) Act, 1959&Rules, 1960.

- Collection and dissemination of information about various Self Employment Schemes to job seekers.

- Provision of dispensing special scheme(s) to assist job seekers of weaker sections of the society— Scheduled Castes (SCs), Scheduled Tribes (STs), Other Backward Communities (OBCs), disabled persons, women etc.

However, a lot more can be done for improving the employability of youth, providing them proper counselling and enabling the employers to select right set of candidates.

The Department of Employment (DoE) of Rajasthan, as a part of their envisioned strategy to strengthen the Livelihood opportunities and reduce unemployment in the State, a new portal called "Employment Exchange Management System 2.0" is proposed.

Key features of Employment Exchange Management System 2.0

Core "EEMS 2.0" consists of micro services-based architecture leveraging the following benefits:
Scalability: Allowing services to be scaled up or down as needed easily.
Flexibility: Providing flexibility enabling developers to choose most appropriate tool.
Resilience: Provides resilience so even if any service fails the other services continues to work.
Faster development and deployment: Developers can focus on developing and deploying individual services, rather than working on a monolithic application.
Easier maintenance: Maintenance is easier, since service can be updated, tested, and deployed independently.
Improved fault isolation: Each service has its own fault isolation boundaries, so faults in one service will not affect the entire application.
Cost-effective: Using of cloud-based services is cost-effective than on-premises solutions. These exchanges will be supported by Web and Mobile applications enabling stakeholders to access the services remotely. The job seekers will also be able to get access to employment exchange personnel through video conference by taking prior appointment.
EEMS 2.0 will be use Jobseeker who benefits any kind of government scheme and family annual income details in JanAadhaar

- **Registration**

  - Job seekers should feed detail of their all educational qualification along with technical qualification/certificate and also provide information on course qualifications obtained.

  - Job Seekers' personal details like Name, Father's Name, Bank information etc. are fetched from Jan Aadhaar Database.

  - Job Seekers' address details like Village, Tehsil, Block, District, Division, and Assembly/Parliament Constituency are fetched from Raj-Master Database.

  - Applicants should indicate whether they are BPL or APL, with BPL applicants required to attach a certificate, and all applicants should sign a self-declaration confirming the accuracy of the provided information.

  - The registration process should involve verification of applicant-provided data against attached documents by the office to assign an NCO code, and a system for renewing the status of registered candidates after three years should be implemented in the portal.

  - Implement mandatory OTP verification for inter-district transfer of registered/unemployment allowance applications, ensuring they are only included in the new district after verification, rather than directly appearing in the payment sheet.

  ### Submission

  - The EEMS system should facilitate the submission process by enabling the preparation and sending of lists of registered candidates to employers or government departments based on their demands as per required parameters and registration date seniority.

- This involves registering demands, preparing order cards and selection plans, sending lists to employers, receiving selection results, and performing follow-up activities, all of which require necessary arrangements to be made on the portal.

- Module to Generate unique vacancy notification number: Each Job opportunity/ vacancy created by an Employer will be allotted a unique number on the basis of the notification of vacancies(X-6) submitted as per Act & rules.

- **Vocational Guidance**
  Mainly three activities are done by employment offices to provide career and vocational guidance:
  - Individual guidance
  - Group discussion
  - Career talk in school/college/other institutions

- **Compilation of Employment Market Information (EMI): -**
  - Maintaining Employers register sector wise and ICL wise (details as per NESM part-II/Vol-I Chapter -II)
  - The EEMS portal should have a system for generating inspection reports after employer institute inspections, and a mechanism for employers to directly submit ER-1 quarterly employee data, which would then be recorded in the EM-2 register to generate quarterly employment change statements.
  - The portal should enable the generation of quarterly employment change reports based on ER-1 data.

Developing a job fair module

Developing a job fair module involves successfully organizing and executing a job fair. Here's a detailed outline of what such a module might include:

1. Objective and Scope Definition

▶ **Objective**: Purpose of the job fair is to provide employment opportunities to youth. For this a platform is provided to both Employers and Jobseekers.
▶ **Scope**: scale of the job fair, target audience, and the types of employers and job seekers you want to attract.

2. Project Planning and Management

▶ **Timeline**: Establish a timeline with key milestones, from initial planning to post-event follow-up.
▶ **Team Roles**: Assign roles and responsibilities within the project team, such as project manager, marketing coordinator, logistics manager, and volunteer coordinator.

3. Employer and Attendee Management

▶ **Registration System**: Develop an online registration system for employers and job seekers. Include features for profile creation, resume uploads, and appointment scheduling.
▶ **Communication**: Maintain regular communication with registered employers and attendees, providing updates and event details.

4. Event Day Coordination

▶ **Setup**: Ensure that venue is set up according to the layout plan. Coordinate the delivery and setup of equipment and materials.
▶ **Registration and Information Desk**: Set up a registration desk to check in attendees and provide information. Prepare name badges and event programs.

5. Post-Event Follow-Up

▶ **Reports**: Prepare a detailed report summarizing the outcomes of the job fair, including key metrics, feedback, and financial performance.
▶ **Planning for Next Event**: Use the insights gained to start planning the next job fair, incorporating lessons learned and feedback received.

By systematically addressing each of these components, the job fair module will ensure a well-organized and successful event that meets the objectives and provides value to all participants.

Required Technology in EEMS 2.O: -

Front-end Web App Development: - Angular 18.0+ and

Back-End Web App Development: - .NET Core 8.0+ with bootstrap 5.0+   with Micro Services Architecture

▶ **Database**: - Microsoft Sql Server 17.0+ with Reporting server (SSRS)

Blazor/Angular Technology: -

▶ **Single Programming Language:** Blazor allows developers to build interactive web applications using C# and .NET instead of having to use multiple languages.
▶ **Performance**: Blazor Web Assembly leverages Web Assembly to execute .NET code directly in the browser, offering near-native performance comparable to traditional JavaScript-based web applications. Blazor Server provides minimal latency by optimizing communication between the client and server.
▶ **Cross-platform Compatibility**: Blazor applications can run on multiple platforms and devices, including desktop, web, and mobile, using a variety of hosting options such as Windows, Linux, and mac OS, and Docker containers.

.NET Core Web API: -

▶ **Cross-platform Compatibility** .NET Core is cross-platform, allowing you to develop and deploy applications on Windows, Linux, and mac OS environments.
▶ **High Performance**: .NET Core is optimized for performance, offering faster execution times and lower memory usage compared to traditional .NET Framework.
▶ **Modular and lightweight**: .NET Core is modular and lightweight, allowing you to include only the necessary libraries and dependencies for your application.
▶ **Cross-origin Resource Sharing (CORS)**: ASP.NET Core provides built-in support for Cross-Origin Resource Sharing (CORS).

Security Features: ASP.NET Core includes built-in security features and middleware for protecting web APIs against common security threats such as cross-site scripting (XSS), cross-site request forgery (CSRF), and SQL injection attacks.

Developing module phase wise description: -

Phase -1

1. **Job Seekers Module: -**
   1. Registration/ Renewal/ Reregistration/ Transfer/ Lapsing
   2. Vocational Guidance
   3. Skills Matching Sub Module
   4. Job application

2. Employers Module: -
1. Registration
2. Skills Matching
3. Employers Returns
4. Job description builder
5. Applicant tracking

3. **Unemployment Scheme (MYSY 2021) Module**: User will be able to apply for the Scheme on the Portal online including application verification and approval. Beneficiaries will get payment online through direct benefit Transfer (DBT).

4. **Job Fair Module:** Development of Online Job fair module. This module shall include the following functionality

   1. Creations of job fair Event (Division/ District Level)
   2. Companies can create their profile on SSO
   3. Companies shall be able to post the job availability on the portal for a particular event
   4. Registration of the candidates for a particular event
   5. Provision of e-CVs through which candidates can upload their information on the portal
   6. Give Admin permission to allow the candidate to appear for the number of vacancies
   7. Provisions of issuing the QR based passes.
   8. Provision of entry of the candidates only after successful registration and issuance of the QR based   passes
   9. Provision of arrangement be recorded in the system for boarding and lodging

Phase -2

1. **Development of Mobile Application:** Having a mobile app will encourage larger participation and it will be developed for users (Job seekers/ Employers/ Departmental Officials) with role-based authentication.

Phase -3

1. **Dashboards:** The technology partner will be responsible to develop an interactive dashboard and various analytical reports as per the requirement of the stakeholders.

2. **Integration of Employment Exchange Management System with RSLDC application**
a) When a user registers with RSLDC, he/she will be automatically registered with EEMS and details will be notified via email / SMS on registered number.
b) Skill information will get updated in real time, once user successfully completes the training.

3. **Integration with external applications of other Departments:**
a)   Educational Qualification: Any student who completes RSLDC (Attendance, certificate duration and completion) course the data will be rolled automatically with **EEMS 2.0** and can take benefit of the EEMS services.
b) Status of Employment: Employment status of every user registered with any service will be maintained in real-time and it will be updated automatically (Used integration API like Attendance for Raj-SSO, Jan-Aadhar & SSO) if any user gets employed or unemployed.

New Technology collaboration partner (Government of Rajasthan) in EEMS 2.O

Sanstha Aadhar		Company information by BRN for Company Registration in EEMS 2.O
Raj Master		All Master Data of GoR like district, tehsil, block, village, city, ward, department automatic intermigration EEMS 2.O when change in State
Jan Aadhar		Jobseeker's government details as government document like name, DOB, Bank Information, Father Name, Category etc.
Raj e-Vault		It is a portal dedicated to providing digital verification platform for official documents and certificates
Raj SSO-AMS		Electronically capture the attendance of Jobseeker of internship in Government's department
Raj e-Sign		The signers are authenticated via their **Aadhar and JanAadhaar IDs**.it brings ease in the complex processes included lengthy paperwork
Pay Manager/IFMS		IFMS is a complete suite of numerous applications related to finance, covering budget, payments, expenditure, receipt, works management and accounting

Financial Implication:

Total financial cost shall be around four crores eighty-one lakh only

S.N.	Description	Total Cost
1	Total Cost for" Employment Exchange Management System-2.0" (EEMS-2.0) application development	1,34,50,000
2	Application Maintenance Services for "Employment Exchange Management System-2.0" (EEMS-2.0) application (for 3 Years)	2,61,80,000
3	Training	13,45,000
4	Contingency expenses (@ 5% of Project Cost)	20,48,750.00
5	**Sub Total**	**4,30,23,750**
6	RISL Service Charges @ 10%	45,77,375
7	GST on RISL Service charges @ 18%	8,23,927.5
8	Total Project Cost	**4,84,25,052.50**
	Say Rs. (In lakh)	**484.25 Lakh**

Following assumptions have been taken into consideration to arrive at the cost estimates:

1. The application shall be hosted at the RSDC and the core infrastructure of RSDC shall be utilized for the same in case any additional licenses or hardware shall be required RISL shall procure.
2. The initial training shall be imparted by the Implementation Agency to the identified officials. Subsequent training to the other employees shall be levied additionally.
3. Training infrastructure shall be provided by DoE at required locations.
4. Payment terms: 100% advance

Note:

1. The financial estimates mentioned above are tentative. Actual cost may vary to some extent after further study of the requirements.
2. The building, infrastructure, facilities and staff for operationalization of Employment Exchange Management Systems shall be provided by the department

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Department of Information Technology
& Communication, Rajasthan

Fund Management

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

The Committee accords technical approval on the proposal having estimated cost of Rs. 484.25 Lakh.

17. Project : Integrated Watershed Management System (IWMS) (WD&SC)

Project Background

The PPR document is prepared after detailed discussion with nodal officer nominated by the department. The Directorate of Watershed Development & Soil Conservation (WDSC) of Rajasthan, as a part of their envisioned strategy to strengthen the various functions across the State, are keen to introduce e-Governance at their offices. The proposed IT solution will serve as an enabler for empowerment of the department to manage all watershed related activities under different schemes. This will help to improve the internal efficiency and effective scheme monitoring. The application shall serve as a single source of information from all locations, various processes of different schemes (i.e. RGJSY, IWMP etc.) Will be automated along with geotagging & GIS based monitoring of different work sites.

In this context, Directorate of Watershed Development department has requested DoIT&C/RISL to   Provide Manpower to Customize and maintain the existing IWMS application to cover all other schemes (i.e. RGJSY, IWMP etc.) related to Watershed activities.

The contracted workforce will be responsible for the ongoing maintenance of the current Integrated Watershed Management System (IWMS) platform. This includes ensuring the platform's reliability, performance, and security. The team will provide comprehensive FMS to support the operational needs of the Watershed Development Department.

Their duties will encompass system updates, troubleshooting, and resolving technical issues promptly to minimize downtime. Additionally, they will manage user support, conduct regular system audits, and recommend the implement improvements to optimize the platform's functionality. The team will also ensure compliance with relevant regulations and standards, contributing to the efficient management of facilities within the Watershed Development Department.

Implementing Agency:

Directorate of Watershed Development & Soil Conservation department, GoR being the nodal department shall take up the task for project formulation and the project will be implemented by RISL.
This PPR has been prepared for providing services to customize and maintain (FMS) the existing modules in IWMS application for 5 years.

About IWMS

Integrated watershed management is a vital process in Rajasthan, aimed at the comprehensive management of human activities and natural resources within the state's diverse watershed areas. This approach considers a range of factors, including social, economic, and environmental considerations, while also giving due attention to local

GOVERNMENT OF RAJASTHAN
Department of Information Technology & Communication

DOIT.C
Department of Information Technology
& Communication, Rajasthan

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community interests and addressing pressing issues such as the impacts of development and climate change.

To facilitate this, DOIT crate two different platforms as web and mobile applications and several modules have been created in the application for web and mobile platforms. The list of developed modules will be provided below.

This application was made by using following platforms and technology:

- Front End: Axpert platform by Agile labs
- Back End: Oracle Database

Project Stakeholders

The following stakeholders are involved in the project:

a) IWMS (Integrated watershed management system)
b) Citizens of Rajasthan
c) State Government
d) Government of India
e) DoIT&C/ RISL

Expected Benefits

- Addressing challenges and glitches faced by the department on a day-to-day basis □ Ensuring smooth functioning of the portal.
- Customizing existing modules as per the requirements for the department
- Maintaining and upgrading the portal and mobile application in line with the department's new schemes and functionalities.
- Effective monitoring of the project to ensure timely completion of any request from the Department.
- Ensuring maximum benefits of the application to the department and citizens

Project Description

The application is already in use by department, having following features:

Feature	Description
Web Interface	Manage and track announcements and related work efficiently.
MIS Report	Generate comprehensive MIS reports for informed decision-making.
User Management	Administer user roles and permissions to ensure secure access.
Dashboard	Access a centralized dashboard for quick overview and insights.
Red Flag Works Tracking	Monitor and manage high-priority works through a dedicated system.
Automated Email & SMS	Receive timely notifications via email and SMS for various events.
Mobile Interface	Capture geo-tagged images of work progress at different completion stages.

Scope of work for proposed services

- **Requirement Gathering and Module Development:** Conduct thorough requirement gathering sessions with the concerned departments to customize modules based on the specific requirements identified.
- **Application Maintenance Services:** Provide ongoing maintenance and support for the existing application to ensure smooth operation.

- **Functional and Technical Assistance:** Offer necessary functional and technical assistance to department throughout the project.
- **Government Notifications and Rule Changes:** Implement enhancements or customizations in response to any government notifications or rule changes affecting the application.
- **Project Oversight Tasks:** Undertake any additional requests from the Department or instructions from the OIC (Officer in Charge) related to the modules developed and deployed by the team.

Financial estimates

S. No.	Description	Total Cost
A	Application Maintenance Services for "Integrated Watershed Management System" (IWMS) application (for 5 Years)	24643800
B	Contingency expenses (@ 2% of Project Cost) (2% of A)	492876
C	Total Base Cost (without GST) (A+B)	25136676
D	GST on total base cost @ 18% (18% of C)	4524601.68
E	Total Base Cost (with GST) (C+D)	29661277.68
F	RISL Service Charges	2226289.44
G	GST on RISL Service charges @ 18% (18% of F)	400732.10
H	**Total Project Cost (E+F+G)**	**32288299.22**
	Say Rs. (In Lakh)	322.88 Lakh

Assumptions:

Following assumptions have been taken into consideration to arrive at the cost estimates:

1. The application shall be hosted at the RSDC and the core infrastructure of RSDC shall be utilized for the same in case any licenses or hardware shall be required RISL shall procure and department shall pay as per the bills provided by the Rajasthan state data center. 2.Payment terms: 100% advance

Note:

1. The financial estimates mentioned above are tentative. RISL will charge actual price paid to the selected bidder/agency along with approved service changes, contingency changes and applicable taxes.
2. Departmental Nodal officer will work as watershed scheme expert for the FMS of IWMS project.
3. Any additional services, such as integrating RajDhara, Chatbot, etc., are not included in the project cost mentioned above and will be charged separately.

The Committee accords technical approval on the proposal having estimated cost of Rs. 322.88 Lakh.

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Department of Information Technology & Communication

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NEW DELHI 2024

18. Project :   Implementation of Nation e-Vidhan Application (NeVA) in RLA

Rajasthan Legislative Assembly (RLA) intends to procure Computers H/w and allied items to implement "National eVidhan Application (NeVA)", being run by the Ministry of Parliamentary Affairs, Government of India with the motive to make RLA paperless.

Detailed Project Report (DPR) amounting of Rs. 18,11,74,613/- for the project was approved in the meeting of State Legislature Project Management Unit (SPMU) held on 26-03-2024, under the chairmanship of Principal Secretary, RLA.

Further, estimated cost of the aforesaid project proposal has been revised from Rs. 18,11,74,613/- to Rs 12,61,60,250/- in the meeting of "House Committee for e-Governance & General Purpose Committee" dated 11.06.2024 held under the chairmanship of the Honorable Speaker, Rajasthan Legislative Assembly.

Out of total estimated cost (Rs. 12,61,60,250/-) , 60% (amount of Rs. 7,56,96,150/-) is to be borne by the Central Government and 40% (amount of Rs. 5,04,64,100/-) is to be borne by the State Government.

The project is scheduled to be implemented by the Public Works Department (both civil and electrical), Department of Information Technology and Communications (DoIT&C) (through RISL) and NIC in mutual coordination. It is necessary to implement this project in the RLA in the limited period between the budget session 2024 and the subsequent winter session.

Estimated financial implication for Rajasthan Legislative Assembly is as under: -

SN	Items	Quantity	Admissible Rates	Total Cost
1	Networking Equipment (Racks, Routers, Switches etc.) [Packaging]	1	1,20,00,000.00	1,20,00,000.00
2	iPad Devices including Mounting Kit & NetworkAdapter	240	90,000.00	2,16,00,000.00
3	No. of Personal Computers (PCs)	120	60,000.00	72,00,000.00
4	No. of Laptops	3	80,000.00	2,40,000.00
5	No. of Plastic ID Cards Printers	1	1,50,000.00	1,50,000.00
6	No. of Scanners	4	75,000.00	3,00,000.00
7	No. of UPS-20 KVA	1	7,07,500.00	7,07,500.00
8	No. of UPS-10 KVA	1	4,77,700.00	4,77,700.00
9	No. of UPS-5KVA	1	1,93,800.00	1,93,800.00
10	No. of LAN Nodes	350	2,000.00	7,00,000.00
11	No. of Wi-Fi Access Points	10	97,000.00	9,70,000.00
12	WAN (Leased Link)	-	65,00,000.00	65,00,000.00
13	No. of VC Studio	2	6,00,000.00	12,00,000.00
14	Communicating Board (Display Panel)	2	1,50,000.00	3,00,000.00
15	Digital Board	1	3,00,000.00	3,00,000.00
16	Digital Audio Recording units, associated instruments/ Components and all accessories	2	3,50,000.00	7,00,000.00
17	Video Streaming Setup	2	3,00,000.00	6,00,000.00

18	Office Suite (No. of PC + No. of Laptops = 120+3 = 123)	123	15,000.00	18,45,000.00
19	e-Sign/DSC Cost	225	1,450.00	3,26,250.00
20	Electrical work		30,00,000.00	30,00,000.00
21	Civil Work		1,20,00,000.00	1,20,00,000.00
22	Digital Archives		50,00,000.00	50,00,000.00
23	Manpower cost for 36 months [< 100 Members- 3,10,00,000/ >100 Members- 4,59,00,000 for three years]		3,50,00,000.00	3,50,00,000.00
24	Laptop & Printers [for use of each MLA towards constituency management]	200	64,700.00	1,29,40,000.00
25	Publicity	-	-	10,00,000.00
26	M.F. Printers	26	35,000.00	9,10,000.00
27	M.F. Color Printer			
29	Sub Total			12,61,60,250.00
31	Grand Total			12,61,60,250.00

Note: - Above mentioned prices are inclusive of GST.

The Committee accords technical approval on the project proposal having estimated cost of Rs. 1261.60 Lakh.

Meeting ended with a vote of thanks to the chair.

This bears the approval from competent authority.

(Inderjeet Singh)
Commissioner & Special Secretary

Copy to the following for kind information and necessary action please to:

1. PS to Principal Secretary, Rajasthan Legislative Assembly, Jaipur
2. PS to Addl. Chief Secretary, Medical & Health Dept., Rajasthan, Jaipur
3. PS to Addl. Chief Secretary, Finance Dept., Rajasthan, Jaipur
4. PS to Principal Secretary, Agriculture and Horticulture Dept., Rajasthan, Jaipur
5. PS to Secretary, Finance (Budget), Dept., Rajasthan, Jaipur
6. PS to Principal Secretary, Planning Dept., Rajasthan, Jaipur
7. PS to Secretary, Rural Development Dept., Rajasthan, Jaipur
8. PS to Secretary, Skill, Employment and Entrepreneurship Dept., Jaipur
9. PS to Secretary, Dept. of IT&C, Rajasthan, Jaipur
10. PS to Commissioner, Skill, Employment and Entrepreneurship Dept., Jaipur
11. PS to Director & Ex-Officio special Secretary, Rural Dev. & Panchayati Raj Dept., Jaipur
12. PS to Director & Ex-Officio Special Secretary, WD&SC Department, Rajasthan, Jaipur
13. PS to Special Secretary & Mission Director, National Health Mission (NHM), Jaipur
14. PS to Commissioner & Special Secretary, Dept. of IT&C, Rajasthan, Jaipur
15. PS to Settlement Commissioner & Spl. Secretary, Revenue Dept., Rajasthan, Jaipur
16. PS to Additional Commissioner, Settlement Department, Rajasthan, Jaipur
17. PS to Commissioner, Medical Education Dept., Rajasthan, Jaipur
18. PS to Additional Mission Director, National Health Mission, Rajasthan, Jaipur
19. PA to Joint Secretary and Director (Treasury and Accounts), Rajasthan, Jaipur
20. PA to Joint Secretary, Finance (Expenditure-III) Dept., Raj., Jaipur
21. PA to Director (Technical), RajCOMP Info Services Limited, Jaipur
22. PA to Director, LNMIIT, Jaipur
23. PA to Director, Skills, Employment & Entrepreneurship Dept., Rajasthan, Jaipur

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GOVERNMENT OF RAJASTHAN
Department of Information Technology & Communication

ITU WTSA
NEW DELHI 2024

24. Shri Arun Chauhan, Technical Director, Dept. of IT&C, Jaipur
25. Shri R. Vardarajan, Technical Director, Dept. of IT&C, Jaipur
26. Smt. Jyoti Luhadiya, Technical Director, Dept. of IT&C, Jaipur
27. Shri Rajesh Kumar, Technical Director, Dept. of IT&C, Jaipur
28. Shri Shailendra Krishnatri, Additional Director, Dept. of IT&C, Jaipur
29. PS to DDG & SIO, NIC, Rajasthan, Jaipur
30. Smt. Amita Sharma, Addl. Director (IFMS), Finance (T&A) Dept., Jaipur
31. Sh. R.S. Jodha, CEO, Rajasthan Mahila Nidhi, Jaipur
32. Smt. Rajshree Sankhla, S.A. (Joint Director), Planning Department, Jaipur
33. Smt. Poonam Choudhary, Chief Accounts Officer, Dept. of IT&C, Jaipur
34. Shri Sudarshan Singh Deora, S.A. (Joint Director), Dept. of IT&C, Jaipur
35. Shri Umesh Chand Joshi, S.A. (Joint Director), Dept. of IT&C, Jaipur
36. Shri Indra Prakash Jha, S.A. (Joint Director), Dept. of IT&C, Jaipur
37. Shri Devendra Sharma, S.A. (Joint Director), Dept. of IT&C, Jaipur
38. Shri Ratan Lal, S.A. (Joint Director), Dept. of IT&C, Jaipur
39. Smt. Ritika Pandya, S.A. (Joint Director), Medical Education Dept., Jaipur
40. Shri Ashutosh Gautam, A.C.P. (Dy. Director), Employment Dept., Jaipur
41. Shri Deepak Dev Haritwal, A.C.P. (Dy. Director), Dept. of IT&C, Jaipur
42. Shri Vishnu Kant Jalendra, A.C.P. (Dy. Director), NHM, Jaipur
43. Shri Mahendra Doon, A.C.P. (Dy. Director), agriculture Dept., Jaipur
44. Shri Shailesh Chaturvedi, A.C.P. (Dy. Director), Settlement Dept., Jaipur
45. Shri Vikas Agarwal, A.C.P. (Dy. Director), Dept. of IT&C, Jaipur
46. Shri Yogendra Kumar Agarwal, A. En. (GIS), WD&SC Dept., Jaipur
47. OIC-Website, Dept. of IT&C, Jaipur to upload the MoM on Departmental Website.

(Akhilesh Mittal)
Technical Director

100th Meeting of SeMT held on 12-08-2024 - List of Attendees

S. No.	Name of officer	Designation
1.	Ms. Arti Dogra	Secretary, Dept. of IT&C/ Chairperson, SeMT
2.	Shri Inderjeet Singh	Commissioner & Special Secretary, Dept. of IT&C
3.	Shri Arun Garg	Additional Mission Director, National Health Mission
4.	Shri Hemant Swaroop Mathur	Additional Commissioner, Settlement Cum Principal, Settlement Training School, Jaipur
5.	Shri Aijaz Nabi Khan	Joint Secretary, Finance (Expenditure-III) Dept.
6.	Shri Anil Singh	Director (T) & Executive Director, RISL
7.	Shri Arun Chauhan	Technical Director, Dept. of IT&C
8.	Shri Akhilesh Mittal	Technical Director, Dept. of IT&C
9.	Shri Rajesh Kumar	Technical Director, Dept. of IT&C
10.	Shri Jitendra Kumar Verma	SIO, NIC, Rajasthan
11.	Shri R.S. Jodha	CEO, Rajasthan Mahila Nidhi
12.	Smt. Amita Sharma	Additional Director & Project Director, IFMS, DTA
13.	Shri Shailendra Krishnatri	Additional Director, Dept. of IT&C
14.	Smt. Poonam Choudhary	CAO, Dept. of IT&C
15.	Smt. Rajshree Sankhla	Joint Director (IT), DES
16.	Shri Sudarshan Singh Deora	S.A. (Joint Director), Dept. of IT&C
17.	Shri O.P. Jatawat	S.A. (Joint Director), Dept. of IT&C
18.	Shri Indra Prakash Jha	S.A. (Joint Director), Dept. of IT&C
19.	Shri Devendra Sharma	S.A. (Joint Director), Dept. of IT&C
20.	Shri Ratan Lal	S.A. (Joint Director), Dept. of IT&C
21.	Smt. Sushila Yadav	Joint Director, WD&SC Dept.
22.	Shri Danveer Verma	Joint Director, Horticulture Dept.
23.	Shri Ashutosh Gautam	A.C.P. (Dy. Director), Employment Dept.
24.	Shri Shyam Lal	Deputy Director, Employment Dept.
25.	Shri Mahendra Doon	A.C.P. (Dy. Director), Agriculture Dept., Jaipur
26.	Shri Vishnu Kant Jalendra	SNO-IT/ ACP, NHM
27.	Shri Akash Agarwal	Additional State Information Officer, NHM
28.	Shri Vivek Bansal	Deputy director, IFMS, DTA
29.	Shri Yogendra Kumar Agarwal	AEN (GIS), WD&SC Dept., Jaipur
30.	Smt. Preeti Surolia	General Manager (T), RISL
31.	Shri Zeeshan Siddiqui	I.A., Horticulture Dept.

Annexure- "B"

Minimum Technical Specification and the view/ opinion of T.C. of Dept. of IT&C for the project proposal of "Development of Tele ICU" by NHM are as follows:

1. IOT Gateway (Bedside Hardware)

Parameter	Minimum Technical Specifications
Connectivity	Wi-Fi (802.11ac), Bluetooth 5.2, Gigabit Ethernet, USB 2.0 / 3.0
Supported Protocols	HL7 FHIR, DICOM, MQTT
Power	PoE (Power over Ethernet)
Form Factor	Wall-mounted, bedside table mountable, or portable
Interfaces for connecting medical devices	Should provide physical interfaces for - RJ-45 RS232 Serial Ports - RJ-45 Ethernet Port
Total SSD Capacity	1 TB or more
Operating System (Factory preloaded)	Windows 10 professional or more
Display Size	14 inches
Graphic Type	Integrated
Network connectivity	Gigabit Ethernet
Onsite OEM warranty	1/3/5 or more (as per budget)

2. Camera with Movable Stand Specifications

Parameter	Minimum Technical Specifications
Field of View	It should have Far-end controlled 180° panning radius; -30° to 90° tilting radius.
Image Quality	It should have Output up to 1080p resolution at 60fps. High-definition capture with 4x optical zoom capability.
Connectivity	It should have a 3m HDCI digital cable included.
Camera Controls	Should have Far-end camera control over direct or internet connection.
Privacy	It should be equipped with an image shutter that can close when the camera is not in use.
Auto tracking	Should automatically track speaker's voice so the camera follows whoever's speaking, keeping them in frame and focus.
Automatic adjustments	Should have automatic white adjustments to deal with varying light conditions.
Size	Should come in compact dimensions of 3.4"x4.8"x4.6" (W x H x D) and is lightweight.
Power	It operates an auto-sensing power cube supplying 100-240V AC at 50-60Hz.

3. **Laptop Specification, 4. Printer Specification & 5. Large Screen Display Specification**
Department may take desired specification from generic technical specification notified on the website of DoIT&C/ Finance Department are per requirement.

6. **Triple Screen System (Comprehensive monitoring Solution for Tele ICU)**

Parameter	Minimum Technical Specifications
Monitors:	
Size	Three identical monitors for consistency in resolution and appearance

Resolution	Full HD (1920 x 1080 pixels) or higher for sharp and clear visuals.
Panel Type	IPS (In-Plane Switching) panels for wide viewing angles and accurate color reproduction.
Refresh Rate	60Hz is sufficient for video conferencing, but higher refresh rates can provide smoother motion.
Connectivity	1 x DP 1.4 (HDCP 2.2) • 1 x HDMI 2.0 (HDCP 2.2) • 1 x USB Type-C (USB 3.2 Gen 2 upstream port) • 1 x USB Type-C (Alternate mode with DisplayPort 1.4/1.2, USB 3.2 Gen2 upstream port, Power Delivery up to 90W) • 1 x USB Type-C downstream (15 W), USB 3.2 Gen2 (10Gbps) • 1 x DP (Out) with MST • 4 x super speed USB 10Gbps (USB 3.2 Gen2) • 1 x super speed USB 10Gbps (USB 3.2 Gen2) with BC 1.2 charging capability at 2 A (max) • 1 x 3.5 mm headphone jack • 1 x RJ45 Height adjustable (150)
Viewing angle	178° vertical / 178° horizontal
Aspect Ratio	16:9
Display Screen Coating	Anti-glare treatment of the front polarizer (3H) hard coating
Brightness	400 cd/m2 (typical)
Temperature Range	Operating: 0°C to 40°C (32°F to 104°F) Non-operating: -20°C to 60°C (-4°F to 140°F)
Humidity Range	Operating: 10% to 80% (non-condensing) non-Operating: 5% to 90% (non-condensing) - Storage and Shipping
Mounting Hardware:	
Monitor Arms:	Triple monitor desk mount or articulating monitor arms to securely hold the monitors in place and allow flexible positioning
Compatibility	Ensure the mounting hardware is compatible with the size and weight of your monitors and your desk setup.
Adjustability	The mount should allow for tilt, swivel, and height adjustment options for ergonomic positioning.
Video Conferencing Software:	
Compatibility	Choose video conferencing software that supports multiple monitors, allowing you to customize layouts and display different content on each screen.
Features:	Look for features like screen sharing, virtual backgrounds, and participant management to enhance your video conferencing experience.
Webcam	Consider using an external webcam for better image quality and positioning flexibility.
Microphone:	Invest in a high-quality microphone or headset with a built-in microphone for clear audio during video calls
Keyboard and Mouse	Wireless or wired keyboard and mouse for controlling your computer while on video calls.

7. Desktop to be used as server for Hub

Parameter	Minimum Technical Specifications
Processor	Intel i7, Minimum 8 core or higher, 18 MB Cache or higher 13 or higher generation and to be certified by OEM
Operating System	Preinstalled genuine microsoft windows 11 professional (64 Bit) or higher Recovery Partition
Memory (RAM)	16 GB DDR or higher expandable upto 32 GB
Hard Drive	2 TB SSD Hard drive or higher
Monitor	21 inch monitor; As per above mentioned point No. 6
Speaker and Microphone	Inbuild Speaker and integrated digital microphone

Connection Type	Minimum 2 USB 3.0 or higher , HDMI 2.0, Headphone, Microphone combo, /Separate , 1-USB Type C
Network Card	Integrated 10/100/1000 GB Ethernet
Wireless Connectivity	Bluetooth 4.0 or above , and integrated Wifi 802.11 b/g/n or higher
Web Cam	Integrated HD Web Camera
Power Adaptor	Standard Power Adaptor
Antivirus	Latest Antivirus & Internet Security with minimum 3 years subscription
Certification	BIS
Compliance	RoHS
Warranty	3 years Comprehensive OEM warranty
Integrated Intel Graphics Card	Yes
Graphics card	WHQL certified NVIDIA Graphics card with 8 GB onboard video memory (non shared), graphics card shall be chosen such that each workstation supports 3 monitors simultaneously with no degradation in video quality considering HD video quality and 25 fps
Network interface	1000BaseT, Gigabit Ethernet (10/100/1G auto sensing)
Audio	Line/Mic IN, Line-out/Spr Out (3.5 mm)
Keyboard	104 keys minimum OEM keyboard
Mouse	2 button optical scroll mouse (USB)

8. Desktop to be used as Server for Spokes

Parameter	Minimum Technical Specifications
Processor	Intel i7, Minimum 8 core or higher, 18 MB Cache or higher 13 or higher generation and to be certified by OEM
Operating System	1. Preinstalled genuine microsoft windows 11 professional (64 Bit) or higher 2. Recovery Partition
Memory (RAM)	16 GB DDR or higher expandable upto 32 GB
Hard Drive	1 TB SSD Hard drive or higher
Monitor	21 inch monitor
Speaker and Microphone	Inbuilt Speaker and integrated digital microphone
Connection Type	Minimum 2 USB 3.0 or higher , HDMI 2.0, Headphone, Microphone combo, /Separate , 1-USB Type C
Network Card	Integrated 10/100/1000 GB Ethernet
Wireless Connectivity	Bluetooth 4.0 or above , and integrated Wifi 802.11 b/g/n or higher
Web Cam	Integrated HD Web Camera
Power Adaptor	Standard Power Adaptor
Antivirus	Latest Antivirus & Internet Security with minimum 3 years subscription
Certification	BIS
Compliance	RoHS
Warranty	3 years Comprehensive OEM warranty
Integrated Intel Graphics Card	Yes
Network interface	1000BaseT, Gigabit Ethernet (10/100/1G auto sensing)
Audio	Line/Mic IN, Line-out/Spr Out (3.5 mm)
Keyboard	104 keys minimum OEM keyboard
Mouse	2 button optical scroll mouse (USB)

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