

**GOVERNMENT OF RAJASTHAN**  
**Department of Information Technology & Communication**

No. F.7 (37)/ DoIT&amp;C/ 2022/ 05295/2022

Dated: 10/08/2022

**Minutes of 93<sup>rd</sup> meeting of SeMT dated 25-07-2022**

The 93<sup>rd</sup> meeting of the State e-Governance Mission Team (SeMT) was held under the Chairmanship of Principal Secretary, IT&C on 25<sup>th</sup> July, 2022 in Committee Room, CR-1 of Main Building, Secretariat, Jaipur. List of participants is enclosed at **Annexure -"A"**

Agenda Item(s) discussed during 93<sup>rd</sup> meeting of SeMT are indexed as follows:

S. No.	Name of Project	Dept.
1	Common QR Code Solution	Dept. of IT&C
2	Digitalization of Taxation Compilation System in Govt. of Rajasthan	Finance Dept.
3	Mukhyamantri Aashrit Sewa Yojana (MMASY)	Dept. of IT&C
4	Revised proposal of Raj eVault	Dept. of IT&C
5	Pilot project of Computerization of Primary Agriculture Credit Cooperative Societies (300 PACS)	Cooperative Dept.
6	e-Employment Exchange	Dept. of SEE/ Employment Dept.
7	Procurement of Digital Display System for Rajasthan High Court Bench, Jaipur	Law & Legal Affairs Dept.
8	Setting up of e-Sewa Kendra in 21 Court Campuses under 1 <sup>st</sup> Phase in Rajasthan	Law & Legal Affairs Dept.
9	Procurement of Computer Systems, Laptop and manpower for strengthening IT-enablement in Forest Dept.	Forest Dept.
10	Web-portal and Mobile App Development for Rajiv Gandhi Yuva Mitra Internship Program (RYMP)	Directorate of Economics & Statistics (DES)
11	Procurement of 2500 No. of Tablets under Rajiv Gandhi Yuva Mitra Internship Program (RYMP) for users of Web-portal and Mobile App of RYMP	Directorate of Economics & Statistics (DES)
12	Development of Unified NOC Portal for Agriculture, Veterinary, Nursing, Medical, Higher & Technical Education Depts.	College Education Dept.
13	Establishment of 118 "Smart Class Room" in 118 Govt. Industrial Training Institutes	Dept. of SEE/ DTE, Jodhpur
14	Geographical Information System (GIS) 2022-27	Dept. of IT&C
15	Mukhyamantri Digital Seva Yojana (MDSY)	DoIT&C/ RISL

The followings were discussed in the meeting:

**1. Project : Common QR Code Solution (Dept. of IT&C)**

The Committee was briefed about the project proposal. A QR code is a two-dimensional version of a normal barcode that can convey a wide variety of information almost instantly. While a barcode, holds information horizontally, a QR code holds information in both horizontal and vertical directions. The QR code are capable of encoding a large amount of characters such as, Name, text information, contact information and other data for many other uses.

QR code may be used in authentication/ falsification of various certificates and cards being issued by Government. QR code is being widely used in cards and certificates issued by Government of India such as PAN Card, Aadhaar ecard, Covid Vaccination Certificate etc. for security, authentication and falsification.

The standard common QR Code solution would be implemented as a basic building block of IT and the QR code shall be printed on ecards, certificates, policies to be printed/issued under various flagship schemes for security, authentication and falsification.

The signed QR code would be readable using QR code reader (Mobile application) and validation would be performed using digital signatures on real time. Therefore, any attempt of tempering/ fraud would be easily identified using QR code reader.

**The Key Features of Common QR Code Solution:**

- QR Code would have the capability of storing variable data of the citizen/family present in the document along with provision of scheme specific 1-2 parameters.
- QR Code would have the capability of storing Photograph Image.
- Information in the QR Code is secure and tamper-proof as it is digitally signed.
- To make the solution more secure, the Key Management system would be implemented using Hardware Security Module (HSM).
- The data (Photograph Image and Citizen Information) would be stored inside QR code in offline mode therefore QR Code would support offline Verification without need for going online.
- The application for reading and validating QR Code would be available for Android and IOS
- The solution would ensure data represented in the QR Code is tamperproof and Non repudiable
- The QR Codes generated may contain information getting printed on the scheme document/certificate/card/etc. The below detail is indicative in nature and may vary based on scheme specific document/certificate/card/etc.
  - Details of beneficiary getting printed on certificate/ policy/ card from Jan-Aadhaar (Jan-Aadhaar Number, Name, Father/Mother's Name, Gender, Date of Birth, Address) and Scheme specific detail like (Scheme name, identification number, Validity, etc.)
  - Colour Photograph of Citizen from Jan-Aadhaar.
- The QR Code pertains to the same individual/ family would be same, but in case of different document/instrument thematic data might be differently layered.

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**Financial Implication:**

#	<b>Description</b>	<b>Estimated Cost (Rs. in Lakh)</b>				<b>Total</b>
		1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	4 <sup>th</sup> Year	
1	Procurement of Product & it's Customization	178.00			-	178.00
3	Operation & Maintenance	-	44.00	44.00	44.00	132.00
4	Training, Stationery, Travel, Consultancy Services Misc. charges etc.	1.00	3.00	3.00	3.00	10.00
5	<b>Total</b>	179.00	47.00	47.00	47.00	320.00
6	GST	32.22	8.46	8.46	8.46	57.60
7	<b>Total Amount</b>	211.22	55.46	55.46	55.46	377.60
8	RISL Charges	12.67	3.33	3.33	3.33	22.66
9	GST on RISL Charges	2.28	0.60	0.60	0.60	4.08
10	<b>Grand Total</b>	<b>226.17</b>	<b>59.39</b>	<b>59.39</b>	<b>59.39</b>	<b>404.33</b>

**Fund Management:**

The Expenditure will be borne from budget available with RISL under e-Mitra project.

**The Committee accords technical approval on the proposal having estimated cost of Rs. 404.33 Lakh.**

**2. Project : Digitalization of Taxation Compilation System in Govt. of Rajasthan [Rajasthan Integrated Tax Compliance Management System (R-ITCMS) for Income Tax (TDS-IT)] (Finance Dept.)**

The Committee was informed about the project proposal. Currently State of Rajasthan is using IFMS 2.0 system for overall financial management of state and is in process to introduce IFMS 3.0. The system provides IT platform for preparation of bills related with employer/ pensioners/ vendors/ service providers etc. where tax deduction are necessary.

The vision is to take the e-governance initiative further by standardizing tax compliance methodology to eliminate manual errors, avoid unnecessary costs to the government, eliminate duplication of work, handling grievances by adopting an integrated tax management system as a seamless and flawless overall tax compliance management.

**Current Scenario:**

State Governments, Central Government, and other Governmental Bodies have various types of IT Platforms like IFMS (Integrated financial management system), PFMS (Public financial management system), CBS (Core Banking System), VPS (Vendor Payment Solution) etc. for the preparation and accounting of bills related to Employer, Pensioners, Vendors/Service Providers, etc. where Income tax deduction (TDS) is necessary. Presently tax calculation of various payments is handled manually by the various DDO's offices. Currently, these DDO offices take the services of multiple agencies or vendors for compliances of Income tax TDS related issues namely:

- Calculation of Income tax TDS on various payments
- Filing of TDS Returns
- Generation of Form 16/16A
- Handling of Grievances of various stakeholders etc.



**Challenges in Prevailing System:**

Various challenges in the prevailing system are mentioned below:

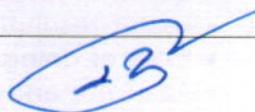
Current System	Challenges in Current System
Manual Calculation of Income Tax deducted at Source (TDS) on Salary	<ul style="list-style-type: none"> <li>• Manual Calculation of TDS many times leads to the wrong calculation of Income-tax.</li> <li>• Many cases of Short Income tax collection for the Government under TDS.</li> <li>• Issuance of various notices from the Income-tax department for short deduction of TDS.</li> <li>• Crucial Government Manpower deployed in non-core activities of calculation of TDS.</li> <li>• Frequent changes of Income-tax law are sometimes overlooked at the time of Tax deduction.</li> <li>• Manual deduction leads to numerous Employee Grievances</li> <li>• Improper tax collection as maximum employees prefer for last quarter deduction which is not allowed under the law.</li> </ul>
Separate Tax Return for Each DDO	<ul style="list-style-type: none"> <li>• Decentralized TDS Return filed for each DDO leads to multiple compliances.</li> <li>• Separate Taxation Compliances cost is incurred by every DDO which ranges from approx. Rs. 10,000/- to Rs. 2 lakhs per year</li> <li>• The absence of a standardized process of finalization of these consultants results in further errors and future costs to the government since most times consultants are hired out of reference and relations only and not on the basis of their required expertise.</li> <li>• Multiple Income tax notices are served to DDO's for late filing of returns and other matters</li> <li>• Multiple book entry Challan return (Form 24G) to be filed.</li> <li>• Governmental Filing Fees (NSDL) to be incurred for each DDO separately.</li> </ul>
Data Sharing and Security	<ul style="list-style-type: none"> <li>• No data safety as sensitive Employee PI Data gets shared with thousands of outside consultants for the preparation of Tax Return.</li> <li>• No Centralized System for handling and management of Tax Compliances at DDO level.</li> </ul>
Data Extraction and Updation	<ul style="list-style-type: none"> <li>• Data Extracted from in PDF Form is manually punched in excel sheets for calculation of Income-tax.</li> <li>• Tax calculated in Excel Sheets is again updated manually in the Software.</li> <li>• Above both processes are manual and all punching error leads to Income tax grievances, employee grievances, revised returns etc.</li> </ul>
Employee & Vendor Grievances	No Standard mechanism to handle employee grievances for wrong deductions. Also handling employee grievances results in a double productivity loss to the government.
Accountability	No Accountability whatsoever on either officer or consultant for mistakes and the Government is left to bear the huge cost and penalties, with manpower cost and loss of productivity.

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**How R-ITMS can handle such issues:**

R-ITMS (Integrated Tax Management System) application and R-ITMS Employee Interaction Mobile App will handle all the above-mentioned issues:

Issues in Current System	Proposed R-ITMS Solution
Manual Calculation of Income Tax deducted at Source (TDS) on Salary	<ul style="list-style-type: none"> <li>• A fully automated digitalized E-governance software application will be deployed for automatic Income tax calculation for each employee.</li> <li>• Employee interaction Mobile Application will be provided for the collection of manual deductions of employees.</li> <li>• Dedicated expert manpower will be deployed for the end-to-end execution of the Integrated Tax Management System which will ensure ZERO Income tax demands.</li> <li>• Regular training for DDO's/Employees regarding new amendments &amp; updates from time to time under Income Tax.</li> </ul>
Separate Tax Return for Each DDO	<ul style="list-style-type: none"> <li>• Centralization of Tax Returns of various DDO's by adopting R-ITMS at various Departmental levels.</li> <li>• R-ITMS will ensure maximum compliance of statutory provisions in a Tech-enabled environment.</li> <li>• Cost-saving in terms of Consultant Fees after R-ITMS is adopted.</li> <li>• Cost-saving in terms of NSDL Filing Fees after R-ITMS is adopted.</li> <li>• Multiple Book Entry challan will not be made after R-ITMS is adopted.</li> </ul>
Data Sharing and Security	<ul style="list-style-type: none"> <li>• Fully automated digitalized E-governance software application and Mobile Application will be deployed on a dedicated server hosted in Government Data Centre.</li> <li>• On-site deployment of trained Expert manpower at a Central location to handle the Data Security issues.</li> </ul>
Data Extraction and Updation	<ul style="list-style-type: none"> <li>• Designed API to extract data from Pay manager software and which will be integrated with Tax Compliance Management Application.</li> <li>• Reverse API for updation of Pay manager software with calculated Tax through automation.</li> </ul>
Employee & Vendor Grievances	<ul style="list-style-type: none"> <li>• Dedicated Rajasthan Government Employee &amp; Vendor Grievance help desk to handle &amp; clear all employee grievances digitally through tools, call logs etc.</li> </ul>
Accountability	<ul style="list-style-type: none"> <li>• Easy fixation of accountability due to system driven methodology</li> </ul>



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**How R-ITMS will be beneficial?**

With the implementation of the Integrated Tax Management System (R-ITMS) TDS-IT, the Government of Rajasthan will be benefited in the below-mentioned manner:

Financial Benefit	<ul style="list-style-type: none"> <li>• Saving in Income tax demand notices like late Filing Levy, Interest on late payment, short deduction cases.</li> <li>• Increase in Governmental Revenue by correct deduction of Income-tax and thereby correct overall Tax collection.</li> <li>• Substantial saving in Consultancy Fees for filing of TDS Returns.</li> <li>• Saving in NSDL Filing Fees.</li> <li>• Huge Saving in Crucial Government Manpower Cost</li> <li>• Huge Saving due to NIL loss of productivity with Zero Employee Grievances.</li> <li>• With R-ITMS automation features, accuracy in calculation of TDS and omission of short deduction cases will result in to substantial increase in TDS collection thereby overall increase in Income Tax collection from the State of Rajasthan with ultimate benefit to Government of Rajasthan by getting increased share from the Central Government.</li> </ul>
Operational Benefit	<ul style="list-style-type: none"> <li>• E-Governance in real terms through full automation in Tax compliance with Zero manual work.</li> <li>• Timely and accurate filing of TDS Returns.</li> <li>• Centralized Handling of employee grievances.</li> <li>• Essential service Government employees not to leave their crucial place of work.</li> <li>• 24x7 working, irrespective of office hours.</li> <li>• Centralized control over taxation of employees of all DDO's.</li> <li>• Substantial reduction in Book Entry Challan creation.</li> <li>• Manpower can give more time to core Governance activities.</li> <li>• Regular updates to employees regarding income tax amendments.</li> </ul>
e-Governance	<ul style="list-style-type: none"> <li>• Rajasthan Government Tax Compliance Re-Engineering using the latest IT systems for overall improvement under a Tech-enabled environment.</li> <li>• Online Application &amp; Tracking, Interface between departments.</li> <li>• Total Form Simplification, total removal of duplication of work.</li> <li>• Use of Online API for real-time verification of data.</li> <li>• Integration of services &amp; Platforms like Tax Compliance management, Pay Manager, Employee interaction app, Tax treasury management, Income Tax Portal etc.</li> <li>• Electronic Databases- All databases and information recordings are electronic and on a dedicated server hosted in the Government Data Centre.</li> <li>• Public Redressal-Using IT to automate, respond, analyse data to identify &amp; resolve the persistent problem. Largely Process improvements.</li> <li>• To be implemented across Rajasthan Government-Critical for transformation.</li> </ul>
Vendor of Government of Rajasthan	<ul style="list-style-type: none"> <li>• Communication with Vendor for providing Form 16A get easy</li> <li>• Faster resolution of grievances of vendor pertaining to tax deduction</li> <li>• Ease of doing business in state of Rajasthan on account of ITMS</li> <li>• Accurate and perfect calculation of income tax TDS</li> </ul>

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### **Scope of the Work – TDS (IT):**

Presently, DDO's offices are filing the Income-tax TDS returns Form 24Q (Salary)/ 26Q (non-Salary)/ 27EQ (Scarp/ Forest Product) against their respective TANs. TDS is affected mainly by salary, pensions, and vendor payments. Salary, Pension or Vendor Payments is processed centrally through various integrated system of State & Central Government like source IFMS (Integrated financial management system), PFMS (Public financial management system), CBS (Core Banking System), VPS (Vendor Payment Solution) and others. A comprehensive software solution is being proposed to perform the below functions mentioned under brief scope of work. Scope may include combination of activities along with indicative deliverables as mentioned under various sub-sections of this concept note –

- a. Six months of design, development, customization, deployment & Go-live
- b. Two (2) years of FMS (upgradation, customization, testing, implementation & maintenance) including O&M
- c. 100 man months of Change Request

### **Technical Aspects of the Solution:**

- a. Web Application: Java 1.8 / Higher Version
- b. Application & Web Server: ORACLE WebLogic
- c. Database: ORACLE 19C

### **Estimated Financials:**

The total estimated financials are as under:

S No	Particulars	Estimated Cost		(Amount in Rs.) TOTAL PROJECT COST
		For 1 <sup>st</sup> Year	For 2 <sup>nd</sup> Year	
1	<p>Rajasthan Integrated Tax Management System (R-ITMS) for Income Tax (TDS-IT) –</p> <p><b>a. Software Application:</b> (Six months of design, development, customization, deployment &amp; Go-live): <b>Rs. 8.00 Cr.</b></p> <p><b>b. Expected 30,000 Units/ DDOs in Govt. of Rajasthan (as per scope of work):</b> Rs. 12,000/- per unit/ DDO per year: <b>Rs. 36.00 Cr</b></p> <ul style="list-style-type: none"> <li>• Legal consultancy for TDS related issues</li> <li>• Filing of Returns and Various Forms (24Q, 26Q, 27EQ, Form 16, Form 16A)</li> <li>• Unlimited Correction Return filing</li> <li>• Handling income tax notices and submission of reply for the same</li> <li>• Trouble shooting in all forms like technical, administrative, consultancy and deductor/ deductee related issues, etc.</li> <li>• <b>The system will ensure no-penalty, no-interest, no-defaults on account of</b></li> </ul>	62,28,00,000	54,28,00,000	116,56,00,000

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S No	Particulars	Estimated Cost		TOTAL PROJECT COST
		For 1 <sup>st</sup> Year	For 2 <sup>nd</sup> Year	
	<b>non-compliance</b> <b>c.</b> FMS (upgradation, customization, testing, implementation & maintenance) including O&M: <b>Rs. 17.28 Cr</b> <ul style="list-style-type: none"> <li>• Project Management Team (4 nos.): Rs. 2.88 Cr.</li> <li>• IT Support Team (30 nos.): Rs. 4.80 Cr.</li> <li>• TDS IT Experts (20 nos.): Rs. 4.80 Cr.</li> <li>• Help Desk (20 nos.): Rs. 4.80 Cr.</li> </ul> <b>d.</b> 100 man months of Change Request: <b>Rs. 1.00 Cr</b>			
2	GST on S.No. 1 @ 18%	11,21,04,000	9,77,04,000	20,98,08,000
3	<b>Sum (A) of S.No. 1 &amp; 2</b>	73,49,04,000	64,05,04,000	137,54,08,000
4	RISL Service Charges on Sum (A)	--	--	36,50,000
5	GST on RISL Service Charges S.No. 4 @ 18%	--	--	6,57,000
6	<b>Sum (B) of S.No. 4 &amp; 5</b>	--	--	43,07,000
7	<b>Grand Total Sum (A) + (B)</b>	--	--	<b>137,97,15,000</b>
		<b>Say (Rs. in Lakh)</b>		<b>13797.15</b>

**Fund Management:**

Expenditure for IT platform would be met from the funds made available by DTA/Finance Department (part-1a, c & d). Regarding part 1b (i.e. consultancy), option would be given to various departments and parastatal for hiring of services from their own budget.

**The Committee accords technical approval on the proposal having estimated cost of Rs. 13797.15 Lakh.**

**3. Project : Mukhyamantri Aashrit Sewa Yojana (MMASY) (Dept. of IT&C)**

The Committee was briefed about the project proposal. As per the budget announcement of Hon'ble Chief Minister, GoR regarding the launch of Mukhyamantri Aashrit Sewa Yojana, it has been envisaged to provide support and handhold the families which comprise of specially-abled or widows or old aged people. Verbatim of the Budget Announcement is mentioned as below:

79. "ऐसे परिवार जिनमें सिर्फ दिव्यांग, विधवा व बुजुर्ग सदस्य ही हैं, वे सरकार की कल्याणकारी योजनाओं का समुचित लाभ प्राप्त करने से वंचित नहीं रहें उनके लिए मैं, 'मुख्यमंत्री-हमारी जिम्मेदारी योजना' प्रारंभ किया जाना प्रस्तावित करता हूँ। इस योजना के अंतर्गत यदि ऐसा चिन्हित परिवार Toll Free CM Helpline-181 पर फोन मात्र कर देगा, तो हमारा 'सेवाप्रेरक' (Service Facilitator) घर जाकर राशन हत्तेजुम जुड़वाना, जाति, मूलनिवास प्रमाणपत्र, पेशन, पालनहार सहित विभिन्न योजनाओं का पात्रता होने पर लाभ स्वीकृत करवाया जाना सुनिश्चित करेगा।"

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**Key objectives of the scheme:**

- Facilitating the target beneficiaries (families having specially abled or widows or old age people only)
- Handholding and supporting the target beneficiaries
- Generating awareness on eligibility under various government schemes
- Ensuring benefits reach the beneficiary as per scheme entitlement
- Service delivery in the comfort of their homes
- Establishing one-to-one connect with the target beneficiaries
- Digital empowerment of the target beneficiaries

**Eligibility under scheme:**

Families that comprise of specially-abled or widow or old aged people only will be the target beneficiaries under the scheme.

**Stakeholder agencies:** Dept. of IT&C, RISL, and District Administration.

**Implementation platforms of the scheme:** Jan Aadhaar -Identification of target beneficiaries, Toll Free Helpline - For proactive calling of identified beneficiaries and vice versa, Service Facilitator Agency - Appointment of service facilitators to handhold the identified beneficiaries, e-Mitra - Service delivery platform.

As per data from Jan Aadhaar, the state has a total of approx. 16 lakh beneficiaries which require support and handholding under the scheme. Beneficiaries across these families are unique as well as common to the identified groups. Target beneficiaries have been taken into consideration from families as (1) Families which have widow with no male member between age group of 18-50 years (2) Single Member Family having old age or disability pensioner (3) Silicosis Patient Families etc.

**Major activities proposed to be taken up for implementation of Mukhyamantri Aashrit Sewa Yojana (MMASY):**

1. Development and maintenance of Web, Android and IOS Applications for operating/ handling Citizen Service calls/ requests
2. Engagement of service representatives
3. Management of service operations as well as integration of Web, Android and IOS Applications with departmental applications such as SSO, eMitra, Jan Aadhaar etc.

Departmental representative apprised the SeMT that to achieve the project cost the charges per service has been assumed @ Rs. 250/- and also the target beneficiaries for 9 months is approximately 10 lakhs.

**Financial Implication:**

The major items for Implementation of Mukhyamantri Aashrit Sewa Yojana (MMASY) along with financial implication is as mentioned below:

Sr. No.	Description	Per Month Cost	Cost for nine (9) months	Total
1	Service Charge inclusive GST (Monthly estimated 7% or 1 Lacs call from approximate 15.62 lakh beneficiaries) @ approximate ₹250/- service charge per call	250.00	2250.00	2250.00
2	State Call Center inclusive GST	72.00	648.00	648.00
3	Contingency	6.44	77.28	77.28
<b>4</b>	<b>Total</b>	<b>328.44</b>	<b>2975.28</b>	<b>2975.28</b>
5	RISL Charges	15.00	178.52	178.52
6	GST on RISL Charges	3.55	32.13	32.13
<b>Grand Total</b>		<b>346.99</b>	<b>3185.93</b>	<b>3185.93</b>

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**Fund Management:**

Expenditure would be met from the funds available under State Fund.

**The Committee accords technical approval on the proposal having nine (9) months' estimated cost of Rs. 3185.93 Lakh.**

**4. Project : Revised proposal of Raj eVault (Dept. of IT&C)**

The Committee was informed about the revised proposal. The project "Raj eVault" was started to provide a smart and dynamic solution for digital content repository to deal huge amount of digital content (documents/ licenses/ECM generated files) of citizens and integrate the application with various departments and 3rd party applications to provide the unified and secured access of content for various authorization purpose to achieve the vision of digitization for the State Government.

The project was earlier approved with financial estimate of Rs. 2040.9 Lacs (excl. GST) in the 87<sup>th</sup> SeMT meeting held on 09-09-2021. The Raj eVault application is working for more than 6 years and is in need of major enhancements for its smooth functioning in future. Also, comprehensive technological interventions are required to enhance the performance and handle the growing load on the Raj eVault application from Jan Aadhaar, Chiranjeevi Schemes etc. and new portal/schemes like **IFMS, e-Dharti** etc. which are to be integrated with Raj eVault.

In view of above, a new Raj eVault system 2.0 is to be designed and developed with following scope of work-

1. Creation of Repositories
2. DigiLocker Integration
3. Archival & Versioning of the documents
4. Disaster Recovery (DR) Setup
5. Procurement of IBM Case Foundation Software License
6. Other Enhancements/ functionalities in Raj eVault 2.0 System
7. Enhancement of Mobile App for citizens (iOS and Android)
8. Operation Support and Maintenance of Raj-eVault System
9. Over a period, option of having heterogeneous technologies including, structured and unstructured data bases under a single access mechanism would be developed and uploaded.

**Revised Financial Estimation:**

(Rs. in Lakh)

Description	2022-23	2023-24	2024-25
<b>CAPITAL</b>			
Application Development cost	433.00	93.00	93.00
Procurement of IBM Case Foundation Software License year wise (72,40,24 Core)	972.00	540.00	324.00
Computing Infrastructure (Servers)	40.00	20.00	10.00
Storage Infrastructure	200.00	50.00	50.00
<b>Sub Total</b>	<b>1645.00</b>	<b>703.00</b>	<b>477.00</b>
<b>REVENUE</b>			
<b>Operations &amp; Maintenance cost</b>			
Raj eVault Application Support	0.00	97.50	97.50
Sr. Consultant (Technology Profile)	36.00	36.00	36.00
Capacity Building and Other Misc. Expenses	25.00	5.00	5.00
<b>Sub Total</b>	<b>61.00</b>	<b>138.50</b>	<b>138.50</b>

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<b>Description</b>	<b>2022-23</b>	<b>2023-24</b>	<b>2024-25</b>
Total (Without GST)	1706.00	841.50	615.50
Total With GST @18%	2013.08	992.97	726.29
RISL Service Charges @ 10%	201.31	99.30	72.63
GST @ 18%	36.24	17.87	13.07
<b>Total Cost</b>	<b>2250.62</b>	<b>1110.14</b>	<b>811.99</b>
Contingency expenses (@5 %)		<b>208.64</b>	
Total Project Cost (3 Years)			<b>4381.39</b>

**Fund Management:**

Expenditure would be met from the funds available under "e-Office" Budget Head of Dept. of IT&C.

**The Committee accords revised technical approval on the proposal having revised estimated cost of Rs. 4381.39 Lakh.**

**5. Project : Computerization of Primary Agriculture Credit Cooperative Societies** (Cooperative Dept.)

The Committee was briefed about the proposal. As per the Budget Declaration No. 401 for year 2021-22 by Hon'ble Chief Minister, GoR regarding the computerization of PACS/ LAMPS of Cooperative Dept., Verbatim of the Budget Announcement is mentioned as below:

“पैक्स/लैम्प्स के कार्यों को सुगम व पारदर्शी बनाने हेतु चरणबद्ध रूप से इनका कम्प्यूटराइजेशन किया जायेगा। इसके लिये 10 करोड रुपये का प्रावधान किया जायेगा।”

**Scope of Work:**

The scope of project consists of Computerization of 300 Primary Agriculture Credit Cooperative Societies (PACS) of Hanumangarh & Sri Ganganagar districts of Rajasthan on Pilot basis. The brief scope of project is as under -

- System Integration to provide comprehensive system for Primary Agriculture Credit Societies
- Provide bi-lingual software solution to manage various operations performed by PACS.
- Provide robust solution for reports comprising of MIS, Operation reports, Regulatory reports etc.
- Capture & Manage Data requirements from various Government bodies
- Provide Interface/ Integrations with National Biometric Repository (Aadhaar Database), National Switches, Payment Switches, Government Portals and Core Banking Solution of DCCB & Apex Bank, Jan Aadhaar, SSO, ePDS and other software applications/ IT platforms of Government of Rajasthan and Government of India as per requirement.
- Also, to provide IT infrastructure i.e., Hardware, Network and associated Software to access and operate the Centralized PACS Solution System to PACS.
- Provide comprehensive training to the users to operate the PACS system
- Ensuring 24\*7 uptime for the software application.
- Handholding implementation support of Software application for 6 months for each PACS.



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**Financial Implication:**

Generic software solution would be opted / developed, which would be scalable to implement in any number of PACS. For the implementation, per PACS cost has been estimated for both the components i.e. Hardware and Software.

**A. Software Development and O&M Cost (One Time)**

		(Amount in Rs.)
SN	Description	Total Cost
1	PACS/LAMPS Software development cost	2,48,00,000
2	3 years Maintenance of PACS/ LAMPS Software	2,66,00,000
	<b>Sub-Total</b>	<b>5,14,00,000</b>
	Miscellaneous charges @ 2%	10,28,000
	RISL Service charge @ 10%	52,42,800
	GST on RISL Service charge @ 18%	9,43,704
	<b>Total Cost</b>	<b>5,86,14,504</b>

**B. Hardware Cost (Per PACS)**

		(Amount in Rs.)
SN	Description	Total Cost
1	Desktop (Intel i5, 4GB/ 1TB_HD/KYB/ Mouse/ Win10Pro/ 3 years Onsite warranty 18.5" TFT Monitor) or higher	60,000
2	Multi-Function Laser Printer with 3 years Onsite warranty	21,000
3	Networking (5 meter patch cord)	400
4	External HDD (1 TB)	5,000
5	1 KVA UPS with 3 years Onsite warranty	10,000
	<b>Total Cost</b>	<b>96,400</b>

Technical specifications for Hardware items are attached at "Annexure B."

**C. Implementation Cost (Per PACS)**

		(Amount in Rs.)
S. No.	Description	Total Cost
1	Implementation, Roll out of PACS/ LAMPS Software including training & handholding	1,00,000
2	Master Data Preparation, Data Cleaning, Data Digitization & Migration (one time, 1100 documents -limited to 2200 pages)	11,000
	<b>Total Cost</b>	<b>1,11,000</b>

**D. Per PACS Total Cost (excluding Software Development & O&M)**

		(Amount in Rs.)
S. No.	Description	Total Cost
1	Hardware Cost (Per PACS)	96,400
2	Implementation Cost (Per PACS)	1,11,000
	<b>Sub-Total</b>	<b>2,07,400</b>
	Miscellaneous charges @ 2%	4,148
	RISL Service charge @ 10%	21,155
	GST on RISL Service charge @ 18%	3,808
	<b>Total Cost per PACS (excluding SW dev. &amp; O&amp;M)</b>	<b>2,36,511</b>

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In Phase-I the software solution would be implemented for 300 PACS/LAMPS, in subsequent implementations only implementation cost (as per table C) would be implied only apart from hardware cost. For 300 PACS the total cost for Hardware and Implementation would be approx. **7.09 Cr** and one time Software Development and O&M Cost would be around **5.86 Cr**.

Note – Connectivity (Dongle/ Broadband) for the PACS computerization shall be the responsibility of the PACS and shall be borne by them.

**Fund Management:**

NABARD has sanctioned a grant assistance of Rs. 5.00 crores under Cooperative Development Fund for the above computerization. Rs 5.00 crores will be provided by Cooperative department.

Additional requirement of fund for the project may be provided by Finance Department.

The server and infrastructure (at RSDC) would be provided by DoIT&C i.e. no cost would be claimed from department for this.

**The Committee accords technical approval on the proposal having estimated cost of Rs. 586.00 Lakhs for Software and its O&M for 3 year and Rs. 2.36 Lakhs per PACS for implementation and hardware.**

**6. Project : e-Employment Exchange (Dept. of SE&E/ Employment Dept.)**

The Committee was informed about the project proposal. In the Budget Announcement 2021-22; point number 32 announced the establishment of skill testing and counseling centers in all the districts. In order to make employment offices more useful and job oriented in the changing environment, in the first phase, division level employment exchanges in **4 districts of the State, Jaipur, Jodhpur, Kota and Udaipur** will be developed as smart employment exchanges. In which active support of all the stakeholders related to the field of employment, self-employment, training such as job seekers, employers, career counselors and I.T. experts (stakeholders) will be taken from P.P.P.

The Dept. 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 scheme called "e-Employment Exchange". 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.

1. DoE, GoR plans to implement "e-Employment Exchange" as a centralized web based application to be accessed by all the users (Citizens, Business community and Government) across the state. Internal users can access portal and application modules of EEMS through an enterprise wide secured interface/ portal. However, job

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seekers, business community and other registered public user can access portal through internet.

2. These exchanges will be supported by Web and Mobile applications so that stakeholders will be able 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.

#### **Key features of e-Employment Exchange:**

As per the new labour laws, all employers shall have to assign a unique identity number to each vacancy/ job created in their organization. For this purpose, employment exchange portal can be used for generating the unique number for the vacancy by the respective employers.

1. Job Seekers Module
2. Employers Module
3. Recruitment, Training and Assessment
4. Placement agency module
5. Mukhyamantri Yuva Sambal Yojana Scheme Module
6. Job Fair Module
7. Module to Generate unique vacancy notification number
8. AI based ChatBot Service
9. Development of Mobile Application
10. Social Media integration
11. Dashboards
12. Integration of e-Employment Exchange with RSLDC application
13. Integration with external applications of other Departments
14. Integration with Standard IT platforms of GoR like Single Sign-On, Jan Aadhaar, Rajasthan Sampark, E-Sign, E-vault, E-Mitra, SMS/ Email gateway, Rajasthan Payment Platform etc.
15. Use of emerging technologies in facilitating employment like machine learning and artificial intelligence, robotics and autonomous transport, cloud computing and the IoT, among others, is expected to transform the future of work. Production processes, business models, service delivery mechanisms along with employment relationships and social protection frameworks are likely to be reconfigured in terms of Blockchain technology, Artificial intelligence (AI) and Machine learning like Robotics Process Automation (RPA) for document scrutiny, Automation of hiring process, and ChatBot for Applicants.

#### **Operational staff for e-Employment Exchange**

The physical e-Employment Exchanges shall be staffed by trained and competent personnel, enabled with necessary tools and infrastructure for providing various career related services to the youth visiting these centers. The DoE, GoR shall ensure that adequate and competent staff is made available at physical e-Employment Exchanges proposed to be established at various locations across the State. An indicative list of such personnel to be deployed at the centers is as follows:

- a) Exchange/ Centre Manager
- b) Career Counsellor
- c) Service & Reception desk
- d) Placement & accreditation expert
- e) Implementation support staff
- f) Housekeeping support staff

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**Project Stakeholders:**

- a) Department of Planning (Manpower)
- b) Dept. of IT&C/ RISL
- c) Employment department
- d) Labour & BoCW
- e) RSLDC
- f) Technical Education
- g) RKCL
- h) Placement Agencies
- i) Training and Accreditation agencies
- j) National Career Service (NCS) portal
- k) Skilled/ Semi skilled manpower
- l) Industries/ Start-ups

Department will execute an EOI (Expression of Interest) for hiring of services from professional agencies engaged in the similar operations. The EoI would be on non-exclusive basis, the agency will integrate their services with proposed IT solution of the department via API's. Professional agency may provide 2 (two) kind of service subscription's/package's, one consisting of free services and another consisting of paid services.

**Financial Implication:**

**A. e-Employment Exchange:**

S. N.	Description	(Amount in Rs.) Total Cost (incl. GST @ 18%)
1	Total Cost for e-Employment Exchange application development	14683920
2	Application Maintenance Services for e-Employment Exchange application (for 3 Years)	21877200
3	Training to Trainers / Officers / Employees	177000
4	Change Request services	1876200
5	Contingency expenses (@ 2% of Project Cost)	772286
6	Sub Total	39386606
7	RISL Service Charges @ 10%	3938661
8	GST on RISL Service charges @ 18%	708959
	<b>Total</b>	<b>4,40,34,226</b>

**B. Cost of operational staff to be deployed at physical e-Employment Exchanges proposed to be established at four locations Jaipur, Jodhpur, Udaipur, Kota:**

S.N.	Description	(Amount in Rs.)	
		Cost of operational staff for 1 e-Employment Exchange for 1 year No. of Resources	Total cost (incl. GST)
1	Exchange/ Centre Manager	1	0
2	Career Counsellor	1	1982400
3	Service & Reception Desk	1	1982400
4	Placement & Accreditation Expert	1	2124000
5	Implementation Support Staff	1	354000
6	Housekeeping Support Staff	1	283200
	<b>Total</b>		<b>6726000</b>
	Cost of operational staff for 4 e-Employment Exchange for 1 year	6726000*4=	26904000

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C. Site Preparation/ Infrastructure/ IT Equipment:

(Amount in Rs.)

S.N.	Expense Descriptions	Total Amount
1	Site Preparation/ Infrastructure/ IT Equipment	2000000
	Total	2000000x4=8000000

D. Total cost for four centers Jaipur, Jodhpur, Udaipur, Kota for one (1) year is as mentioned below:

(Amount in Rs.)

S.N.	Work	Expenditure
1	Software Development	4,40,34,226
2	Staffing	2,69,04,000
3	Site Preparation/ Infrastructure/ IT Equipment	80,00,000
	<b>Total</b>	<b>7,17,38,226</b>

**Note-**

- Employment offices of Jaipur and Kota are in Government premises.
- Udaipur and Jodhpur does not have their own premise therefore operation of employment exchange will be done from I.T.I premises.
- District Employment Officer will work as Office Superintendent and Center Manager of concerned district employment office and will time to time do the inspection and verification of service providing agency.

**Fund Management:**

Expenditure would be met from the funds managed by Skill, Employment and Entrepreneurship (SEE) Dept.

**The Committee accords technical approval on the proposal.**

**7. Project : Procurement of Digital Display System for Rajasthan High Court Bench, Jaipur (Law & Legal Affairs Dept.)**

The Committee was briefed about the proposal. Law & Legal Affairs Dept., GoR/ Rajasthan High Court, Jodhpur intends to replace the existing Digital Display System of Rajasthan High Court, Jaipur Bench, Jaipur. The Display Systems presently installed in the Rajasthan High Court, Jaipur Bench have been declared obsolete and in place of them, new Digital Display Systems are to be installed. For this, the details of estimated expenditure were obtained from Rajasthan State Road Development and Construction Corporation Limited, Jaipur and according to the details, the estimated expenses for establishment of new Digital Display System is Rs.116.99 lakh.

**Requirement of ICT items and their Financial Implication submitted by Law & Legal Affairs Dept. are as mentioned below:**

(Amount in Rs.)

S.N.	Component	Qty.	Unit Rate
1.	SITC of Digital Display Board System (Digital Signage) with 35 Nos. 55" Professional LED Display, 50 Nos. 32" Professional LED Display, 85 Nos. Client access License & Enterprise PC Player license, 1 Nos. Server, 9 Nos. 1 KVA Online UPS, 9 Nos. Managed Layer-2 24 Port Intelligent	1	10470856.00

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<b>S.N.</b>	<b>Component</b>	<b>Qty.</b>	<b>Unit Rate</b>
	Giga Ethernet Switch including LAN Networking Wiring, Conducting, Wall Mounted Rack, Patch Panel, Casing etc. as required at site.		
	<b>Total</b>		<b>10470856.00</b>
	Contingencies charges 1.5%		157062.84
	Quality Control Charges 1%		104708.56
	<b>Sub Total</b>		<b>10732627.40</b>
	Proreta Charges 9%		965936.47
	<b>Grand Total</b>		<b>11698563.87</b>
		<b>Say (Rs. in Lakh)</b>	<b>116.99</b>

Minimum Technical Specifications suggested by Technical Committee (T.C.) of Dept. of IT&C is attached as **Annexure-C**.

**Fund Management:**

Expenditure would be met from the funds managed with Law & Legal Affairs Dept.

**The Committee accords technical approval on the proposal having estimated cost of Rs. 116.99 Lakh.**

**8. Project : Setting up of e-Sewa Kendra in 21 Court Campuses under 1st Phase in Rajasthan (Law & Legal Affairs Dept.)**

The Committee was informed about the proposal. Law & Legal Affairs Dept., GoR/ Rajasthan High Court, Jodhpur intends to setting-up the eSewa Kendra(s) in accordance to the directions of The Project of establishment of eSewa Kendra(s) at District Courts and High Courts was conceived and conceptualized by the eCommittee of Supreme Court of India; with an objective of leveraging the accessibility of services provided by the eCommittee of Supreme Court under its eCourts related Project and is aimed at strengthening 'Access to Justice for all'.

**Concept of eSewa Kendra:**

1. eCommittee under its flagship of eCourts Project created dedicated interfaces for Judicial Officers, Court Staff and Lawyers under CIS 3.2 for District Courts and CIS 1.0 for High Courts. Arrangements were made for accessing the Case Information System by way of floating Judicial Service Centre (JSC) and Central Filing Centre (CFC). Our current Facilitation Centre in the District Court and High Court are being utilized by lawyers, their court clerk and a section of litigants were fully conversant with the Court Processes. Predominantly the Facilitation Centers are located deep inside the Court Complex and are primarily functioning at filing counters.
2. The eSewa Kendra, as the name suggest, are dedicated to and are supposed to serve the common litigant as a one stop center for all his/her Court related needs. In order to make it more visible, it is envisaged that it shall be strategically located right at the public entry gate accessed by litigants and shall provide every possible assistance to a litigant walking in.

**Facilities to be provided in eSewa Kendra:**

eSewa Kendra shall initially roll out following services for Litigants and needy Lawyers-

1. Handling inquiries about case status, next date of hearing and other details.
2. Facilitate online Applications for certificate copies and other such filing

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3. Facilitate eFiling of petitions right from scanning of hardcopy petitions, appending eSignatures, uploading them into CIS and generation of filing number.
4. To assist in online purchase of eStamp papers/ ePayments.
5. To help in apply and obtain Aadhaar based digital signature.
6. Publicize and assist in downloading the Mobile App of eCourts for Android and IOS.
7. Facilitate in booking of eMulakat appointment for meeting relatives-locked in Jail.
8. Handling queries about Judges on leave.
9. Handling queries about location of the particular Court, its cause-list and whether the case is taken up for hearing or not.
10. Guide people on how to avail free legal services from District Legal Service Authority, High Court Legal Service Committee and Supreme Court Legal Service Committee.
11. Facilitate disposal of traffic challan in virtual Courts as also online compounding of traffic challans and other petty offences.
12. All other queries and assistance in respect of facilities which are digitally available under eCourts Project.
13. Explain method of arranging and holding a video conference court hearing.
14. Provide soft copy of judicial orders/judgments via email, WhatsApp or any other available mode.
15. These services may be added to subsequently to make the eSewa Kendra Litigant Friendly.

The above services may be modified in eSewa Kendra as per local needs and inputs from users.

**Physical Infrastructure of eSewa Kendra:**

Minimum 10 x 15 sq. ft. space in existing building.

**IT Infrastructure of eSewa Kendra:**

1. All-In-One computers commensurate to number of inquiry counters i.e. 2 to 5;
2. One scanner; and
3. LAN connectivity to CIS with internet facility.

**eSewa Kendra Manpower Needs:**

1. One Judicial Assistant from Court Establishment with knowledge of handling Computer devices.
2. PLV Contractual staff for manning counters depending upon No. of Counters.

**Cost Estimation of establishing Sewa Kendra:**

Erection of porta cabin- Rs 1.75 to Rs. 2.25 Lakh (*Cost to be incurred only if no permanent structure available near gate*)

**I.T. Infrastructure-**

S.No.	Item	Cost (in Rs.)
1	Desktop Computer	40,000/ each
2	Scanner	40,000/ each
3	LAN and Internet (Installation Rs. 10,000 & recurring Rs. 2,000 per month)	12,000

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**Manpower -**

S.No.	Item	Cost (in Rs.)
1	Court Employee	-
2	Outsourced manpower	15,000/each per month (actual unit cost to be decided by Finance Dept.)

**Total One Time Cost & Recurring Cost of eSewa Kendra-**

(in Rs.)

S.No.	Per eSewa Kendra Unit Cost	Estimated Expenditure	Total No. of eSewa Kendra	36 Months (for 3 years)	Total Cost
1	One Time Cost	1,00,000	21	-	21,00,000
2	Recurring Cost for two (2) No. of Staff	17,000 (15,000+2,000) per month	21	6,12,000 X 36 months	1,28,52,000
Total Cost					1,49,52,000
Say (Rs. in Lakh)					<b>150.00</b>

**Funds for Establishment of eSewa Kendra:**

The expenditure would be met from the funds available with the High Court Computerization.

**The Committee accords technical approval of Rs. 150.00 Lakh on the proposal.**

**9. Project : Procurement of Computer Systems, Laptop and manpower for strengthening IT- enablement in Forest Dept.**

The Committee was briefed about the proposal as Forest Department intends to IT-strengthen its various Field offices & HQ wings spread- over across the State. For smooth operationalization for IFMS-WAM online operations, Forest Management & Decision Support System (FMDSS) and other online applications with day to day office work during the C.F.Y. 2022-23 as mentioned below:

**A. Procurement of Computer Hardware and allied items:**

For IT-enablement of field offices and HQ wings, Forest Department intends to procure computer systems and laptops as follows:

S. N.	Items	For HQ office wings	For Circles/ Divisions Offices	For Range Offices	Total Qty. required
1	Desktop Computer	20	100	60	180
2	Laptop -windows (For officers)	-	-	-	43
3	Laptop - MAC	2	-	-	2
4	Deskjet Printer/ MFP	20	100	60	180
5	UPS 1KVA	20	100	60	180

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**Financial Implication of ICT items (A):**

S. No.	Name of Item	Total estimated Qty.	Total Estimated Cost (Rs. in lakhs)
1	Personal Computer	180	104.00
2	Laptop -windows	43	43.00
3	Laptop - MAC	2	7.00
4	Deskjet Printer/ MFP	180	31.20
5	UPS 1KVA	180	7.80
<b>Total</b>			<b>193.00</b>

*Minimum Technical Specifications suggested by Technical Committee (T.C.) of Dept. of IT&C is attached as Annexure-“D”.*

**B. Hiring of Highly skilled Manpower for HQ/Circle/division/range offices through service provider.**

The IFMS-WAM Portal has been made operational in last financial year (2021-22) as per directions of finance department for all works departments. Presently all field offices are using the online IFMS-WAM portal for financial processing of development works. Since the system needs to data operations till range level, hence there is need of skilled manpower support.

It is worthy to mention that in previous financial year (2021-22) the finance department has specially provided Rs. 114.50 lakhs for the period of 5 months in to support the department for the same. Considering this sanction for current financial year, 370 Range offices needs such manpower to operate the systems.

The major resources is required to Ranges Offices and remaining resources is for those offices where IAs are not available to IT support. There are about 70 field divisions (out of 100 DDOs), 17 circles and 20 HQ wings (offices), out of which only 40 IAs in division, 7 in Circles and 9 are posted at HQ at present. So the HQ wings, circles and division dealing with the IFMS-WAM process or FMDSS monitoring needs IT support manpower.

**Financial Implication of Skilled Manpower only for one year (B):**

(Rs. in Lakh)

S. No.	Resource name	No. of Resources	Office/Place	Estimated Cost (@ Rs. 1.16 Lakh INR) per year
1	Skilled Manpower	370	Range Offices	429.20
2	Skilled Manpower	41	HQ/ Circle/ division	47.56
<b>Total</b>		<b>411</b>		<b>476.76</b>

*(The total amount includes the minimum wages about INR 7,200/- per month and additional charges of ESI 3.25%, EPF 13.0%, GST 18% & service charges.)*

The skilled manpower would be only for one year (12 months) subsequently departmental manpower will take over after due training.

**C. Consultancy services from NICSI/GEM/RISL/Other as per RTPP Act (for E-governance and GIS activities PMU at HQ)**

Under this provision hiring of technical man power and consultancy services for running, maintenance & development of different applications is required at head office.

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Expertise of technical man power required for various online applications operations for different purposes which are related to GoR/ GoI portals, departmental FMDSS systems and related data preparation activities. Forest Department desires to hire the services of Technical skilled manpower and GIS experts for 12 months in FY 2022-23.

**E-governance Activities:** For development/ support and implementation of various mobile APPs and modules developed or under development in FMDSS, monitoring of GoI E-Greenwatch and PARIVESH portals, user mapping and monitoring of development works on IFMS-WAM portal, procurements the support of technical manpower is needed. Besides these, other Departmental e-governance online portals & applications are also operated by Forest Department regularly. All these activities needed user management, user mapping, report downloads separately, hence technical manpower is essential for managing and implementing all these applications on regular basis.

**GIS Activities:** Similarly, Forest Department is engaged to prepare digital forest boundaries of forest and wildlife areas to various purposes. This GIS Data needs high level technical expertise in terms of qualification and experience. Such data is used for planning and also to fulfil the demand of various organization (both GoR & GOI level).

At present the department has time bound working plan preparation tasks in 25 districts along with other routine activities such as preparation of thematic maps (Tiger Reserves/corridors), Fire plan & Maps preparation, digitization accuracy improvement, monitoring and corrections of E-Greenwatch kml files, GIS layers preparation for FMDSS modules, (plantation layer, Asset layer, forest land parcels, nurseries etc.) recent PM Gati Shakti tasks related GIS data, updation of boundaries for Forest Survey of India biannual reports (ISFR) and many other activities support for different wings. All these activities require GIS data preparation, data conversion and map compositions, map printing. Some other tasks related to field office requirement such as Eco Sensitive Zone mapping, delineation of development activities over maps, map mosaicking are also done at HQ level. Other than these, GIS analytical tasks requires the support technical manpower.

Since the forest organization deals with forest land resource for conservation and planning using GIS technology, hence as a decision making tools the qualified manpower becomes an integral part.

**Financial Implication for the requirement of GIS Manpower (C):**

Category	S. No.	Manpower details	No. of Resource(s) for 12 Month (in Rs.)	Estimated Cost (Rs. in Lakh per year)
GIS Cell At Aranaya Bhawan	1	Consultant	<b>1</b> (@1,25000/-)	15.00
	2	Consultant/Senior Developer (3-5 year experience)	<b>1</b> (@60,000/-)	7.20
	3	System & Database operation engineer (6 years and above)	<b>2</b> (@51,000/-)	12.24
e-Governance cell At Aranaya Bhawan	4	Consultant	<b>1</b> (@1,25000 /-)	15.00
	5	Project Management Support Engineer(2-4 year experience)	<b>1</b> (@39,000/-)	4.68
	6	General management support Engineer (0-2 Year of experience)	<b>3</b> (@36,000/-)	12.96
<b>Total</b>				<b>67.08</b>

\*GST and Other Charges Extra

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**Overall Financial Implication (A+B+C):**

Collectively total estimated cost of the project(s) is Rs. 736.84 Lakh.

**Fund Management:**

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

**The Committee accords technical approval on the proposal having estimated cost of Rs. 736.84 Lakh; with directions of SeMT mentioned above.**

**10. Project : Web-portal and Mobile App Development for Rajiv Gandhi Yuva Mitra Internship Program (RYMP) (Planning Dept./ Directorate of Economics & Statistics)**

The Committee was informed about the proposal. As per the Budget Announcement of 2021-2022, Govt. of Rajasthan implemented Rajiv Gandhi Yuva Mitra Internship Program with following vision. State Government envisage that all public welfare schemes of this sensitive and transparent government should reach to real beneficiary and also to take the problems of the people to the government for timely disposal.

For this State Government envisioned Rajiv Gandhi Yuva Mitra Internship Program (RYMP). Hon'ble Chief Minister, GoR had announced this scheme on the birth anniversary of former Prime Minister Shri Rajiv Gandhi. This scheme will commence start across the state on Children's Day on November 14. Under RYMP, 2500 Rajiv Gandhi Yuva Mitras will be selected, trained and posted in district/blocks/GP all over the State. Apart from this, about 50 thousand Rajiv Gandhi Yuva Volunteers will also be made in all the villages of Rajasthan who will work as a bridge between government and citizen of the state to solve their day-to-day real problems.

Rajiv Gandhi Youth Core team will be constituted from the state level for the implementation of this program (RYMP), whose structure will be as follows-

- RYMC will work from State/District helpdesk center. They are approx. 200 in number. Major tasks include calling beneficiary, monitoring of RYM etc.
- RYM will be allotted district/block based on population and work at district/block helpdesk center. They are approx. 2300 in number. They will work 3 days in field and remaining 3 days in helpdesk/ call centers at district/ block.
- RYV are approx. 50000 in number and work at GP level. Their work includes communication with local residents.

A technical platform for the implementation of Rajiv Gandhi Yuva Mitra Internship Program (RYMP) is being proposed as follows-

1. On boarding of Implementation Agency authorized by DoIT&C for web/mobile application development.
2. Application/product customization and Integration with government systems of Rajasthan like SSO, AMS, beneficiary database etc.

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3. Application/product will be designed in the manner that it can be made useable for other Department(s) for similar type of requirements.
4. RYMP Mobile app.
5. Analytical dashboards for Field coverage as per Government schemes, Monitoring systems for RYC Mitras to monitor performance of RYC volunteers, Configuration of Geo Tagging mechanism for various activities, Dashboards for monitoring Field Level Family Meet up coverage across all districts
6. Uploading of all beneficiary data and Government Scheme related information including eligibility benefit matrix, uploading of family data etc.
7. A setup for Connecting 1000 persons at a time at least, Interactive Chat box, Bulk Messaging facilities via text and WhatsApp etc.

**Scope of Work and its' Estimated Financial Implication:**

(Amount in Rs.)				
#	Description	Development Phase	O&M - 1 Year	Total
1	Application & Mobile app Development	6,240,000	-	62,40,000
2	O&M Support and Enhancement for 12 Months	-	36,00,000	36,00,000
3	Training, Stationery, Travel, Miscellaneous charges, WhatsApp Services, etc.	-	5,00,000	5,00,000
<b>Total</b>		<b>62,40,000</b>	<b>41,00,000</b>	<b>1,03,40,000</b>
4	GST	11,23,200	7,38,000	18,61,200
<b>Total Amount</b>		<b>73,63,200</b>	<b>48,38,000</b>	<b>12,201,200</b>
5	RISL Charges	4,41,792	2,90,280	7,32,072
6	GST on RISL Charges	79,522	52,250	1,31,772
<b>Grand Total</b>		<b>78,84,514</b>	<b>51,80,530</b>	<b>1,30,65,045</b>
			<b>Say Rs.</b>	<b>130.65 Lakh</b>

**Fund Management:**

Expenditure would be met from funds available with Directorate of Economics & Statistics (DES).

**The Committee accords technical approval on the proposal having estimated cost of Rs. 130.65 Lakh.**

**11. Project : Procurement of 2500 No. of Tablets under Rajiv Gandhi Yuva Mitra Internship Program (RYMP) for users of Web-portal and Mobile App of RYMP (Directorate of Economics & Statistics (DES))**

The Committee was briefed about the proposal. In accordance to the Budget Announcement of 2021-2022, Govt. of Rajasthan implemented Rajiv Gandhi Yuva Mitra Internship Program with following vision. State Government envisage that all public welfare schemes of this sensitive and transparent government should reach to real beneficiary and also to take the problems of the people to the government for timely disposal.

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For this State Government envisioned Rajiv Gandhi Yuva Mitra Internship Program (RYMP). Hon'ble Chief Minister, GoR had announced this scheme on the birth anniversary of former Prime Minister Shri Rajiv Gandhi. This scheme will commence start across the state on Children's Day on November 14. Under RYMP, 2500 Rajiv Gandhi Yuva Mitras will be selected, trained and posted in district/blocks/GP all over the State. Apart from this, about 50 thousand Rajiv Gandhi Yuva Volunteers will also be made in all the villages of Rajasthan who will work as a bridge between government and citizen of the state to solve their day-to-day real problems.

Rajiv Gandhi Youth Core team will be constituted from the state level for the implementation of this program (RYMP).

As, Directorate of Economics & Statistics (DES) is in process to develop Web Portal & Mobile Application for operationalization and execution of Rajiv Gandhi Yuva Mitra Internship Program (RYMP); DES intends to procure 2500 No. of Tablets for Rajiv Gandhi Yuva Mitras.

*Minimum Technical Specifications for **Tablet** are as follows:*

<b>Item Description</b>	<b>Technical Specification</b>
Display Size (Minimum) (Inch)	10.1" or higher
Display Resolution (Pixels)	1920x1200 or higher
Display Type	LCD/ TFT
Brightness (Minimum) (Nits)	30p Or higher
Operating System Details	Android 11.0 or higher
Technology	GSM Or higher
Connectivity Type	Wifi + Cellular
Cellular Data Support	4G / LTE,
GPS	Yes
AGPS	Yes
Number of GSM SIM Available	1
Cellular Voice Calling	Yes
Wi-Fi Connectivity Type	802.11 a/b/g/n
Bluetooth Connectivity (Min. ver.)	5 or higher
Processor Speed (Min.) (GHz)	2.0 GHz or higher
Processor Core (Number)	8 Or higher
Processor Architecture	64 Bit
Processor Make	Spreadtrum/ Exynos/ Unisoc
RAM Type	LPDDR3
RAM Size (GB)	3 GB
Internal Storage Capacity (GB)	32 GB
Micro SD Card Support	Yes
Storage upgradable up to (Through Micro SD Card) (GB)	128 GB or higher
Rear Camera (Mega Pixel)	8
Front Camera (Mega Pixel)	5
Video Recording Resolution	1080p
Video Recording Frame Rate (fps)	30
Battery Capacity (min.) (mAh)	7000 mAh or higher
Weight incl. Battery (max) (Grams)	500 Grams
Google Mobile Service Certification for Android OS	Yes
Other Certifications Available	CE, FCC, RoHS BIS
OTG Cable	Yes
USB Ports	Type C

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<b>Item Description</b>	<b>Technical Specification</b>
Audio Port	3.5 mm Jack
If Yes, Type of Inbuilt Speaker	Stereo
OEM Warranty including Battery	1 Year
Public Procurement - Restrictions under Rule 144 (Xi) of the General Financial Rules(GFR)	Bidder should have proper documentation for FNo. 6/18/2019-PPD, Ministry of Finance, Department of Expenditure - Public Procurement Division. Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority.
Service Support	At least one authorized service center in each of the district of Raj. State.

**Financial Implication:**

Estimated project cost for the said procurement is around Rs. 400.00 Lakh.

**Fund Management:**

Expenditure would be met from funds available with Directorate of Economics & Statistics, GoR.

**The Committee accords technical approval on the proposal having estimated cost of Rs. 400.00 Lakh.**

**12. Project : Development of Unified NOC Portal for Agriculture, Veterinary, Nursing, Medical, Higher & Technical Education Depts. (College Education Dept.)**

In compliance to the budget announcement Point No. 36 made by Hon'ble Chief Minister in the budget speech 2022-23, Government of Rajasthan intends to establish a Centralized Online Platform which provides the facility for issuance of NOC/ Affiliation to institutes from Agriculture, Veterinary, Nursing, Medical, Higher and Technical Education departments etc. through online process.

To meet the objective of the budget announcement for online process of **NOC/ Affiliation** application, an online portal has to be developed to ensure timely disposal of pending applications of educational institutions at the different level. Primarily as per announcement made the portal will cover the activities of NOC/Affiliation of institutes from **Agriculture, Veterinary, Nursing, Medical, Higher & Technical Education Depts.** etc.

Here it is to mention that, DOIT/RISL has already developed an online portal for No Objection Certificate (NOC) issuance. The module is already being successfully implemented by DOIT/ RISL in the Directorate of Technical Education (DTE) and College Education under the Higher and Technical Education (HTE) Project.

In this case, when Government is planning to issue all NOC/Affiliations of various department through online mode DoIT&C and Higher & Technical Education Department, who is the nodal department for implementation of this budget

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announcement planning to develop a unified NOC portal which will act as a single window system for the issuance of NOC to educational institutes of state

The Centralized Application/ Platform to function, needs to be very flexible in design where administration of business rules can be done at various levels in the application/ platform.

**Present Status of the project:**

- In compliance to the budget announcement, meeting was held, nominated officers of the departments had briefed the guideline / process implemented for NOC in their department for development of online Unified NOC/ Affiliation Management System and during subsequent discussions with the designated DOIT team.
- It was decided that the departments shall share their detailed approved process and policy document with the DOIT designated team for study and development for Unified NOC management system.
- Also to development of online application, tender process is in progress from RISL

**Stakeholders (tentative):**

S.No.	Name of Dept.	Type of institutions/ College
1	College Education	B.Ed., Graduation & Post graduation
2	Technical Education	Polytechnic Institutions
3	Animal Husbandry Dept.	Veterinary College, AHDP (Animal Husbandry Diploma program)
4	Agriculture Dept.	(UG & PG) Agriculture College
5	Medical Education Group I	Medical (MBBS, Dental), Pharmacy College
6	Medical Education Group III	Nursing college
7	Paramedical	Paramedical College
8	ITI	ITI institute

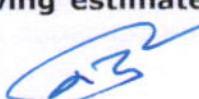
**Estimated Financial Implication:**

S.No.	Project Phases	Total (In Rs.)
1	Study Design & Development Phase	10158384
2	Operations & Maintenance Phase	14981280
3	Total	25139664
4	RISL Charges as per rules	2211173
5	GST on RISL Charges @ 18%	398011
6	Total RISL Charges (S No 4+5)	27748848
7	Cloud Service Charges of RSDC	3350405
8	Total Project Cost (S No 3+6+7)	<b>31099253</b>
	Say (Rs. in Lakh)	<b>311.00 Lakh</b>

**Fund Management:**

Expenditure would be met from the funds deposited with Finance Department by the stake holder departments who will avail services through this portal.

**The Committee accords technical approval on the proposal having estimated cost of Rs. 311.00 Lakh.**



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**13. Project : Setting up of Smart Class Room with Digital Connectivity in 118 Industrial Training Institutes (ITIs) of Rajasthan State (Dept. of Skill, Employment & Entrepreneurship (DoSEE))**

The Committee was informed about the project Proposal. Earlier, in the 88<sup>th</sup> meeting of SeMT, the project proposal of **Setting up of Smart Class Room and Digital Connectivity under Skill Strengthening for Industrial Value Enhancement (STRIVE) Project of GoI in for 26 No. of Industrial Training Institutes (ITIs) of Rajasthan State** was approved.

Dept. of SoEE intends to repeat the same type of concept for setting up of Smart Class Room in another 118 No. of Government ITIs across the State.

The items required for setting-up of one Smart Class Room and Inter Connectivity among them are as mentioned below:

Sr. No.	Item Description	Quantity per classroom
1	USB PTZ Camera for Instructor	1
2	USB PTZ Camera for Class	1
3	Interactive Flat Panel Display 75"	1
4	LCD Writing Panel	1
5	i5 based Desktop	1
6	USB Video Mixer	1
7	Video Graphic Processor	1
8	Gooseneck Microphone for Podium	1
9	Lapel Microphone	1
10	Handheld Microphone	1
11	DSP with Audio Mixer	1
12	Power Amplifier	1
13	Wall Speakers	4/6
14	HDMI Distribution Switcher for Local Class Input	1
15	Customized Podium having Controller and 10 inch or higher touch control	1
16	L3 Switch	1
17	3 KVA Online UPS	1
18	LED Monitor 55"	1
19	HDMI Cable	1
20	Accessories	As required

*Minimum Technical Specifications are attached at Annexure- "E".*

**Financial Implication:**

Estimated cost of the project proposal is Rs. 2006.00 Lakh.

**Fund Management:**

Expenditure would be met from funds available with Department.

**The Committee accords technical approval on the proposal having estimated cost of Rs. 2006.00 Lakh.**



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Department of Information Technology & Communication****14. Project : Geographical Information System (GIS) 2022- 27 (Dept. of IT&C)**

The Committee was briefed about the project proposal. The project "Rajasthan State Geo-Spatial Data Infrastructure (RSSDI)" and "Unified GIS Portal" was conceived in compliance of Budget Announcement for the Financial Year 2014-15 and with an objective to provide a unified GIS platform and decision support system RGDSS to acquire, process, store, distribute and improve the utilization of geospatial data which would be a single gateway of spatial data being generated by various Departments/agencies of Govt. of Rajasthan.

**Work Status of the Project:**

As a result of the project, unified GIS based platform namely "RajDharaa" was established wherein following platforms were established -

1. Esri's ArcGIS platform for GIS data and applications for 2D data hosting, viewing and analysis
2. Autodesk Platform for creation and hosting 3D Model data as well as engineering design.
3. Intergraph's Platform for satellite imagery processing including mosaicking, geo-referencing, ortho-rectification, change detection etc.
4. GeoCortex platform for GIS based workflow Management System
5. HERE Smart Navigation Platform
6. AutoDCR & BIMDCR for Online Building Plan Approval System
7. 3D City Platform Solution for Jaipur City

Activities undertaken in accordance with the SeMT & Apex approvals of the project in GIS (Phase -I and Phase-II) project as mentioned below -

1. Creation and maintenance of unified platform for development of State Wide GIS Enabled Decision Support System (RGDSS) wherein 40+ GIS based applications have been developed so far whereas several others are in pipeline. This implementation has received 'Special Achievement in GIS' award in ESRI's international conference in 2016 in US and also award in "Making the Difference" category in 16th User Conference in New Delhi in 2015.
2. Data Services: Creation / updation of GIS Layers: State wide GIS survey has been undertaken to identify and create GIS layers for Government Assets as well as important layers of private points of interest.
3. Creation of 3D Models for selected heritage monuments for virtual preservation and tourism promotion including Albert Hall in Jaipur, City Palace Museum in Jaipur and Udaipur, Jantar Mantar, Hawa Mahal and Walled City of Jaipur. This has been appreciated not only in State / National level but also internationally and is prominently showcased by Autodesk in its national and international events.
4. In compliance of budget announcement of Hon'ble Chief Minister for the FY 2015-16, Work of 3D Modelling of Amer & Kumbhalgarh forts has already been completed. 3D Modelling of Badi Chaupar has also completed
5. GIS based workflow management system (GWMS) is being implemented by DoIT&C / RISL for effective planning, management and monitoring of progress of works projects. The developed solution is configurable / customizable application to cater the common requirements of all works department. It includes all stages of project life cycle starting from conceptualization of project till project completion, including administrative approval, technical approval, financial approval, works management and its tracking. This solution has been

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implemented in different Depts. like – PWD, Mines Department, Minority Affairs, MJSA (Watershed & Soil Conservation Dept.), Barabandi, etc.

6. Unified Smart Mapping and Navigation platform by HERE Map has been established in RSDC and tourism mobile app is developed on same. Further, some other applications are also in pipeline as Citizen App (Website & Mobile App), Fleet Vehicle Tracking (Website & Mobile app), Data Collection & Management (Website & Mobile app).
7. The Online Building Plan Approval System (BPAS) was conceptualized in compliance to the Budget Announcement for the year 2017-18 for implementation of Online Building Plan Approval system; Budget Announcement for the year 2018-19 for implementation of 3D BIM based building plan approval system and Budget Announcement for the year 2020-21 regarding the implementation of BPAS in municipal bodies of Rajasthan.
8. 2D/ 3D Drawing and 3D BIM based online building plan approval system has been implemented for all Development Authority, all Urban Improvement Trust and all Urban Local Bodies / Municipal Corporation of the state. Currently, the project is in O&M phase.
9. In compliance of budget announcement of Hon'ble Chief Minister for the FY 2015-16, Work of Development and Implementation of 3D City Solution for Jaipur City is also completed as per details mentioned below -
  - i) Unified GIS based enterprise 3D Platform hosted in Rajasthan State Data Centre for line department users.
  - ii) Ground Control Network (280+ GCN points) using DGPS Survey of entire project area completed with referred GCP (Ground Control Point) and BM (Benchmark) in line with Survey of India.
  - iii) Mobile LiDAR Survey (Street Survey using Vehicle/ bag-pack based LiDAR equipment) covering 10,000 KM road is completed, processed and hosted on 3D City Platform.
  - iv) Aerial Survey for the entire 3000 Sq.Km. (as per JDA's MDP-2025) of 10 cm resolution, has been completed, processed and various products hosted on 3D City Platform -
    - a. Digital Terrain Model – DTM/ Digital Elevation Model – DEM (40 cm resolution), Digital Surface Model – DSM (40 cm resolution), Contour (50 cm interval)
    - b. True Ortho Imagery Mosaic (10 cm resolution)
    - c. 3D Base Map and 3D Land-use-Land-cover (LULC)
    - d. 3D Mesh Model
    - e. 3D Model of Building and other city infrastructure/ street furniture up to LoD 2.5 (LoD 0, 1, 2, 2.5) hosted on 3D City Platform
  - v) Development of various department centric use-case like Urban Planning, Disaster Management, Utilities Mapping, Planning & Simulation of Law & order, Traffic Planning & Management, etc.
  - vi) Department specific Dataset Integration -
    - a. JDA's Master Development Plan-2025, Zonal Development Plan, Nahargarh Eco-Sensitive Zones maps, Administrative Zone JDA
    - b. Ward & Zone Boundary of Jaipur Nagar Nigam (Greater & Heritage both)
    - c. CCZM map
    - d. Revenue Village map, Khasra map and DLC Maps for Jaipur

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- e. Forest Boundary
- f. Police Thana Boundary
- g. Departmental training and on boarding to be started for 3D City Project.

10. Satellite Imagery and processing -

- a. Procurement of 0.5 M resolution Pen Sharpened Mono archive Satellite Imagery for entire state (More than 6500 strips of total size more than 38 Tera Byte)
- b. Image processing including Mosaicking, Geo-referencing and orthorectification for preparing base imagery for the State.

11. Interactive Digital Amusement Gallery established at Bhamashah Techno Hub (BTH), Jhalana and showcasing of Interactive Digital Amusement Gallery during various state level events in 2018-2019.

**Components of proposed GIS Project (2022-27):**

To cater continuously increasing needs of GIS based application & data and in continuation of previous project as approved in the various meeting(s) of SeMT (56<sup>th</sup>, 68<sup>th</sup>, 72<sup>nd</sup> and 73<sup>rd</sup>), the proposed GIS project has been envisaged consisting of following major components -

**I. Revision in the existing component of the project -**

- 1. Setting up of Computing Infrastructure at SDC and for development activities: Setting up specialized hardware, both at data center and user level, for 3D Modelling, proposed 3D City & Building Information Modelling for Building Plan Approval System.
- 2. Maintenance, support and enhancement/ upgradation of unified GIS platforms for GIS maps/ applications/ analysis (ESRI ArcGIS), 3D Modelling & Engineering design (Autodesk) and Image Processing & Analysis (ERDAS), GIS based Workflow Management (Geo Cortex), Building Plan Approval system (AutoDCR/ BIM DCR)
- 3. Data Services: Creation/ updation of GIS Layers 2D/ 3D for various departments, mobile apps and departmental inputs and other surveys as per requirements time to time.
- 4. Development, updation, enhancement, maintenance and monitoring of GIS applications by procuring solutions/ hiring expert services.
- 5. Creation of 3D Models and other related products for selected heritage monuments for virtual preservation and tourism promotion as decided by the authorities time to time.
- 6. HERE Smart Navigation Platform-Use of map data and development of applications as per requirements.
- 7. Development, Support & Maintenance services for 3D City platform, department specific GIS data set integration and use case development
  - a. Hiring of expert manpower services for development of use cases as per requirement of departments taken up for implementation of Jaipur 3D city, services for QA/ QC of data submitted by technology partner.
  - b. Procurement/ upgradation of storage, servers and high end workstations for establishment of training cum 3D experience center.
  - c. Aerial re-survey and additional street survey for 10K line KM.
  - d. Committed liabilities.



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8. Operation & Maintenance services for Digital Amusement Gallery at Bhamashah Techno Hub and Setting up of Digital Amusement Gallery in various events of Govt. of Rajasthan.
9. Hiring of consultancy and expert manpower services.

**II. New components:**

1. Development and implementation of GIS application as per requirement of the various Depts.
2. Development and implementation of GIS based Workflow Management System in various Depts.
3. Procurement of High Resolution Satellite Imagery (HRSI), Processing of HRSI and preparation/ updation of base map and other use cases as per requirements received time to time
4. Procurement of New Platforms as decided time to time
5. Procurement/ upgradation of Storage, Servers, High-end workstations and other items as per requirements
6. Development & Implementation of 3D City Solution for other cities in addition to Jaipur 3D City
7. Procurement/ upgradation of Interactive Digital Amusement Gallery Products

**Duration of the project**

Period of the project is proposed to be for five (5) financial years 2022-2027.

**Budgetary Estimates/ Financial Implication:**

Sr	Components Description	New/ Committed	Budget Estimates						(Amount in Lakh)
			2022-23	2023-24	2024-25	2025-26	2026-27	Likely Exp. in next 5 years	
1	Computing Infrastructure	New	25	500	50	50	50	<b>675</b>	
		Committed	-	-	-	-	-	-	
2	RajDharaa -ArcGIS platform and Data Services	New	200	500	500	2,000	1,600	<b>4,800</b>	
		Committed	300	1,100	1,100	-	-	<b>2,500</b>	
3	Hiring of Services for GIS Application Software Development/ Consultancy Services/ expert manpower services	New	350	850	900	900	900	<b>3,900</b>	
		Committed	360	-	-	-	-	<b>360</b>	
4	Services for creation 3D Modelling of important buildings including 3D Laser/ LiDAR Scanning of selected monuments	New	100	700	700	700	700	<b>2,900</b>	
		Committed	-	-	-	-	-	-	
5	Purchase of Imagery and Image Analysis Platform (License/ ATS/ Upgrade) and Image Processing services	New	2,850	3,400	2,900	2,900	2,900	<b>14,950</b>	
		Committed	-	-	-	-	-	-	

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Sr	Components Description	New/ Committed	Budget Estimates						Likely Exp. in next 5 years	
			2022-23	2023-24	2024-25	2025-26	2026-27			
6	GIS based Workflow Mgt. System	New	430	485	485	485	485	2,370		
		Committed	290	-	-	-	-	290		
7	Upgradation/ Scale-up and O&M Services of BPAS Solution	New	-	270	150	150	150	720		
		Committed	50	-	-	-	-	50		
8	3D City-Jaipur	New	2,000	1,500	-	-	-	3,500		
		Committed	3,500	3,000	1,700	1,700	1,700	11,600		
9	Development & Implementation of 3D City in additional cities	New	-	12,000	10,000	4,000	4,000	30,000		
		Committed	-	-	-	-	-	-		
10	Interactive Digital Amusement Gallery	New	1,500	1,500	1,000	1,000	1,000	6,000		
		Committed	-	-	-	-	-	-		
11	Here Smart Mapping and Navigation Platform	New	-	-	-	-	-	-		
		Committed	2,400	600	600	600	600	4,800		
12	New Platform / Services	New	500	500	500	500	500	2,500		
		Committed	-	-	-	-	-	-		
13	Misc. Expenditure (Workshops/ Training/ Meeting/Transportation / Communication/ Advertisements etc.	New	25	40	50	50	50	215		
		Committed	-	-	-	-	-	-		
		New	8,480	21,745	17,735	17,735	12,335	72,530		
		Committed	6,900	4,700	3,400	2,300	2,300	19,600		
		<b>Total (New + Committed)</b>	<b>15,380</b>	<b>26,445</b>	<b>20,635</b>	<b>15,035</b>	<b>14,635</b>	<b>92,130</b>		

**Revenue Model:**

For additional cities to be taken up under 3D city project may be conceived/ worked out to be executed on PPP revenue generating mode along-with State funds shares.

**Revenue based Model for City Development may consist –**

- UD/ Property Tax
- Charges towards the built-up falling in Set-Back area in addition to Layout Plan/ Site Plan/ Construction Permit issued by authority
- Charges towards the survey activities for DPR/ PPR of city infrastructure development
- Chargeable based road digging application by mapping Under Ground Utility Mapping (initially for Electricity, PHED, Sewerage etc.)
- Any other revenue source i.e. Labour Cess Collection etc.

**Fund Management:**

Expenditure (the committed liability) would be met from funds available under "GIS" Budget Head of Dept. of IT&C and for new work of 3D city project, the expenditure would be met from above mentioned revenue model.

**The Committee accords technical approval on the proposal having estimated cost of Rs. 92130.00 Lakh.**

**15. Project : Project: Mukhyamantri Digital Seva Yojana (MDSY)**

The Committee was informed about the proposal. Govt. of Rajasthan has recently announced the launch of the "Mukhyamantri Digital Seva Yojana (MDSY)" in its State Budget of year 2022. As per budget announcement, women heads of 1 core 35 lakh Chiranjeevi families would receive free smart phone with the three years of internet access under this scheme.

This scheme is a pioneering step in the arena of women empowerment where women are provided free internet connection along with the smart phone to look for the new horizon across the world with the power of connectivity, explore new possibilities for the self-employment and greater connectivity with various social welfare scheme of the state government. Attaching this scheme with Chiranjeevi Yojana where women is entitled as head of the family and with the gift of modern gazette under this scheme provides a better sense of recognition in the society along with the enhanced prospect to become self-sufficient and more power to express themselves to live their dreams.

**The salient benefits of the scheme are as below:**

- Under MDSY, internet access and a free smart phone will be distributed with data plan for three years.
- Women will be able to access information about government programs online while sitting at home.
- Along with this, information on the government's favorable programs for women will be provided so they can take advantage of them.
- Women of the state can get connected with the world to explore new possibilities of entrepreneurial ideas.
- Smart phone with internet provides a sense of security among women they can connect with the local authorities quickly in the wake of any mishappening.

**Technical Specifications of the Smart Phone:**

**Smart Phone Specification:** Providing 3 Year internet services (data) along with smart phones, the detailed specs of the handset and internet plan are as mentioned below:

Processor	Min. Octa Core with 1.6 GHz (Min. 4 core on 1.6 GHz)
RAM	Min 2GB
Operating System	Min. Android 11 Go
Chipset	Qualcomm/ Mediatek/ Snapdragon/ Spreadtrum/ UNISOC chipset.
Internal Storage	Min. 32 GB build in and expandable upto min. 256 GB
Battery	Min 4000mAH
SIM Slot	Dual SIM
SIM Type	Nano
Memory Card Slot	Yes
Screen Size	Min. 5.8" Multi touch
Screen Resolution	1440 x 720 or higher
Rear Camera	Min 8 MP
Front Camera	Min 5 MP
WIFI	802.11 b/g/n
Bluetooth	4.2
USB	Micro USB
Audio Jack	Standard 3.5 MM
Warranty	1 Year OEM warranty on handset and battery & 6 months on

	accessories.
Certifications	SAR, BIS & RoHS
Accessories	Charger with USB data transfer cable and Plastic transparent mobile back cover

Data Plan		
Data	Plan Validity	Talk time and SMS
Min. 20 GB	1 Month	Talk time unlimited within India with min 50 SMS per month (outgoing)

**Estimated Financial Implication:**

The original budget was Rs. 7500 crores for providing three years of internet access along with smart phone for women heads of 1 core 35 lakh Chiranjeevi families. The revised estimated cost of the project is now approx. Rs. **12000** Crores. The budget was revised considering the cost of Rs. 6000/- (approx.) per smart phone and Rs. 80/- (approx.) per month per beneficiary for 20 GB data for 3 years (36 months).

**Fund Management:**

The fund will be provided from State Budget Head.

**The Committee accords technical approval on the proposal.**

Meeting ended with a vote of thanks to the chair.

This bears the approval from competent authority.

**(Ashish Gupta)**  
 Commissioner &  
 Joint Secretary, IT&C

**Copy for information and necessary action to:**

1. P.S. to Principal Secretary, Finance Dept., Rajasthan, Jaipur
2. P.S. to Principal Secretary, Dept. of IT&C, Rajasthan, Jaipur
3. P.S. to Principal Secretary, Forest Dept., Rajasthan, Jaipur
4. P.S. to Principal Secretary, Cooperative Dept. Rajasthan, Jaipur
5. P.S. to Principal Secretary, Planning Dept., Rajasthan, Jaipur
6. P.S. to Principal Secretary, Law & Legal Affairs Dept., Rajasthan, Jaipur
7. P.S. to Secretary, Dept. of Skill, Employment & Entrepreneurship, Raj., Jaipur
8. P.S. to Commissioner, College Education Dept., Jaipur
9. P.S. to Registrar, Cooperative Dept., Rajasthan, Jaipur
10. P.S. to Commissioner & Joint Secretary, Dept. of IT&C, Rajasthan, Jaipur
11. P.S. to Director & Joint Secy., Directorate of Economics & Statistics, Jaipur
12. P.S. to Principal Chief Conservator of Forest (HOFF), Forest Dept., Raj., Jaipur
13. P.A. to Joint Secretary, Finance (Treasuries & Accounts) Dept., Raj., Jaipur
14. P.A. to Joint Secretary, Finance (Expenditure-III) Dept., Raj., Jaipur
15. P.A. to Addl. Principal Chief Conservator of Forest (IT), Forest Dept., Raj., Jaipur
16. P.A. to Registrar, Rajasthan High Court, Jodhpur
17. P.A. to Director, Directorate of Employment, Rajasthan, Jaipur
18. P.A. to Director (Technical), RajCOMP Info Services Limited, Jaipur
19. P.A. to Director (Training), Directorate of Technical Education, Jodhpur
20. Smt. Poonam Choudhary, Chief Accounts Officer, Dept. of IT&C, Jaipur

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21. P.S. to DDG & SIO, NIC, Rajasthan, Jaipur
22. Shri Y.K. Jain, Technical Director, Dept. of IT&C, Jaipur
23. Shri Sushil Parihar, Technical Director, Dept. of IT&C, Jaipur
24. Shri R.K. Sharma, Technical Director, Dept. of IT&C, Jaipur
25. Smt. Jyoti Luhadiya, Addl. Director, Dept. of IT&C, Jaipur
26. Shri C.P. Singh, General Manager (T), RISL, Jaipur
27. Shri Tapan Kumar, System Analyst (Joint Director), Dept. of IT&C, Jaipur
28. Shri Pradeep Kr. Sharma, System Analyst (Joint Director), Dept. of IT&C, Jaipur
29. Shri Mukesh Kr. Sharma, System Analyst (Joint Director), Dept. of IT&C, Jaipur
30. Shri Umesh Chand Joshi, System Analyst (Joint Director), Dept. of IT&C, Jaipur
31. Sh. Krishna Nand Sharma, Joint Registrar, RISL, Jaipur
32. Shri Ashok Kumar Jain, DCF (IT), Forest Dept., Rajasthan, Jaipur
33. Shri Ashutosh Gautam, ACP (Dy. Director), Employment Dept., Jaipur
34. Shri Rajesh Vashistha, ACP (DD), Forest Dept., Rajasthan, Jaipur
35. Shri Banphool Agarwal, ACP (DD), College Education Dept., Jaipur
36. Shri Vijay Kumar Kanugo, Deputy Manager (T), RISL, Jaipur
37. Shri Pankaj Mathur, Nodal Officer (NOC), College Education Dept., Jaipur
38. Shri Sunder Chetiwal, Assistant Director, RSLDC (DoT), DoSEE, Jaipur
39. Director, LNMIIT, Jaipur
40. OIC- Website, Dept. of IT&C, Jaipur to upload the MoM on Departmental website.
41. Guard File.



**(Sushil Parihar)**  
Technical Director

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**Annexure-A**

**93<sup>rd</sup> Meeting of SeMT held on 25-07-2022 - List of Attendees**

<b>S. No.</b>	<b>Name of officer</b>	<b>Designation</b>
1.	Shri Akhil Arora	Principal Secretary, Finance Dept./ Dept. of IT&C
2.	Shri Muktanand Agarwal	Registrar, Cooperative Dept.
3.	Shri Ashish Gupta	Commissioner & Joint Secretary, IT&C
4.	Dr. Om Prakash Bairwa	Director & JS, Directorate of Economics & Statistics
5.	Shri H.K. Juneja	Joint Secretary (Exp. -III), Finance Dept.
6.	Shri Bhupesh Mathur	Director, Finance (T&A) Dept.
7.	Shri Arijit Banerjee	Addl. Principal Chief Conservator of Forests (IT)
8.	Shri B.K. Goyal	Registrar-Cum-CPC, Rajasthan High Court, Jaipur
9.	Shri Sanjay Sharma	Technical Direction (NIC), RHC, Jaipur Bench
10.	Shri Arun Chauhan	Director (Technical), RISL
11.	Shri A. K. Anand	Director, Directorate of Tech. Education, Jodhpur
12.	Ms. Amita Sharma	Addl. Director (IFMS), Directorate of T&A, Jaipur
13.	Shri Naresh Gupta	ASIO, NIC, Rajasthan, Jaipur
14.	Shri Praveen Mathur	Assistant Director, Directorate of Employment
15.	Shri Y.K. Jain	Technical Director, DoIT&C
16.	Shri Sushil Parihar	Technical Director, DoIT&C
17.	Shri R.K. Sharma	Technical Director, DoIT&C
18.	Smt. Poonam Choudhary	Chief Accounts Officer, Dept. of IT&C
19.	Smt. Jyoti Luhadiya	Addl. Director, DoIT&C
20.	Shri C.P. Singh	General Manager (Technical), RISL, Jaipur
21.	Shri Tapan Kumar	S.A. (Joint Director), DoIT&C
22.	Shri Pradeep Kumar Sharma	S.A. (Joint Director), DoIT&C
23.	Shri Mukesh Kumar Sharma	S.A. (Joint Director), DoIT&C
24.	Shri Umesh Chand Joshi	S.A. (Joint Director), DoIT&C
25.	Shri Vivek Verma	Manager (T), RISL, Jaipur
26.	Shri Sitaram Swaroop	Joint Director, DES
27.	Shri Krishna Nand Sharma	Joint Registrar, RISL
28.	Shri Om Prakash	Additional Registrar, Cooperative Dept.
29.	Shri Ashok Kumar Jain	DCF (IT), Forest Dept.
30.	Shri Pradeep Kumar	DCF, Forest Dept., Jaipur
31.	Shri Ashutosh Gautam	ACP (Dy. Director), Employment Dept.
32.	Shri Rajkumar Singh	ACP (Dy. Director), Dept. of IT&C, Jaipur
33.	Shri Rajeev Bhatnagar	ACP (Dy. Dir.), DTA, Jaipur
34.	Shri Rajesh Vashistha	ACP (Dy. Director), Forest Dept.
35.	Shri Banphool Agarwal	ACP (Dy. Dir.), College Education Dept., Raj.
36.	Er. Pawan Kumar Chhabra	Dy. Dir., Directorate of Tech. Education, Jodhpur
37.	Dr. Pankaj Mathur	Nodal Officer (NOC), College Education Dept.
38.	Shri Pramod Kumar	Superintendent, DTE, Jodhpur
39.	Shri Sunder Chetiwal	Assistant Director, RSLDC (DoT), DoSEE, Jaipur
40.	Shri Bhagat Ram	Programmer, Dept. of IT&C, Jaipur
41.	Shri Vincent Justin	Asst. Prg., Directorate of Tech. Educ., Jodhpur
42.	Shri Nikhil Meena	Asst. Prg., Dept. of IT&C, Jaipur



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**Annexure-“B”**

Minimum technical specification suggested by Technical Committee (T.C.) of Dept. of IT&C for “**Pilot project of Computerization of Primary Agriculture Credit Cooperative Societies (300 PACS) of Hanumangarh & Sri Ganganagar districts of Rajasthan**” submitted by **Cooperative Dept., Rajasthan, Jaipur** are as mentioned below:

**1. Desktop Computer:**

<b>Item</b>	<b>Minimum Technical Specification</b>
Processor	Intel i5 (11 <sup>th</sup> Generation <b>or higher</b> ) or AMD Ryzen™ 5, minimum 6 Core or higher, with minimum 2.70 GHz or higher (Base Frequency), 12 MB Cache or higher
Chipset	Compatible Chipset
Motherboard	OEM Motherboard
Operating System	Pre-installed Genuine OEM Microsoft Windows 10 <b>or higher</b> Professional (64 bit) with OEM recovery partition/ recovery DVD
Graphics	Integrated Graphics
Memory (RAM)	8 GB DDR4 with minimum 2 DIMM Slots, Expandable upto 32 GB
Storage	512 GB SSD
Optical drive	DVD R/W
Ports	Minimum 6 USB ports with at least 2 USB 3.0 or higher ports, 1-VGA, HDMI, audio jack for headphone & microphone
Display	Minimum 21.5" inch or higher, Resolution 1920x1080 or higher Display, TCO Certified
Antivirus	Preloaded (Latest Version) Internet Security of Trend Micro/ Quick Heal/ Symantec/ Sophos/ Kaspersky
Power efficiency	90% or higher
Keyboard & Mouse	OEM USB Keyboard & OEM USB two button optical Mouse With mouse Pad
Network Interface	Integrated 10/100/1000 GB Ethernet
Certification	RoHS Compliance, ISO for OEM
Accessories	All necessary cables (Power & data cables), 3 Mtr CAT 6 patch cord

**2. Multifunction Laser Printer:**

<b>Item</b>	<b>Minimum Technical Specification</b>
Functions	Print, Scan, Copy
Printing Method	Monochrome laser
Print Speed (Minimum)	20 PPM (Mono)
Print Resolution	600 x 600 dpi or higher
Auto Duplex	Yes
Memory	64 MB or higher
Display	Monochrome LCD Touch Screen Display
Connectivity	USB, Ethernet/ Wi-Fi
Duty Cycle (Monthly)	10000 pages or higher
Copy Speed	10 PPM or higher
Copy Resolution	600 x 600 dpi or higher
Scan File Format	PDF, JPEG, TIFF BMP etc.
Scan Resolution	600 x 600 dpi or higher
Scan Type/ Technology	FLATBED and ADF
Input paper tray capacity	100 pages or higher

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<b>Item</b>	<b>Minimum Technical Specification</b>
Toner Cartridges	Composite Cartridges
Additional Toner Cartridge	OEM should supply 1 company packed additional Cartridge along with printer
Compatible operating Systems	Windows 7 , 8 , 10 and Linux- Ubuntu
Cables/ Accessories	All the required cables, accessories
Software Media	Driver & Utility software CD/DVD
Certifications	BIS, ROHS
Warranty	3 Years comprehensive onsite OEM warranty

**3. UPS 1 KVA:**

<b>Item</b>	<b>Minimum Technical Specifications</b>
UPS Capacity	1 KVA
Protection	Full Protection
voltage	230V +-10%
Range	160V - 280V
Power factor	0.7 or higher
Back up time	168 VAH for 30 Minutes backup on 1 PC (Inbuilt Batteries)
Indicator	Mains On/ On Battery/ Low Battery/ Fault/ Overload
Plug and cable	Input cable of 1.5 Mtr with 3 pin Indian plug and output have 4 nos. of 5 pin Indian socket
Battery Type	Sealed Lead Acid Valve Regulated
Alarm	ON Battery/ Fault Over Load, Low Battery
Certifications	BIS, ISO, ROHS
Test report	OEM should submit test report for the quoted model issued by state/ central laboratory (not old from last 5 Years)
Warranty	3 years comprehensive on site OEM warranty



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Annexure-“C”

Minimum technical specification suggested by Technical Committee (T.C.) of Dept. of IT&C for **“Procurement of Digital Display System for Rajasthan High Court Bench, Jaipur”** submitted by **Law & Legal Affairs Dept., GoR/ Rajasthan High Court, Jodhpur** are as mentioned below:

S.N.	Item Name	Item Specification	
1	32" Professional LED Display	Commodity	Professional Grade Digital Signage Monitor
		Display	LED Back-lit Digital Display
		<b>Size</b>	<b>32" Diagonal</b>
		Panel Technology	IPS or similar
		Native Resolution	FHD 1920x1080 or Higher
		Brightness	400nit or Higher
		Contrast Ration (Native)	1100:1 or better
		Viewing Angle	178x178
		Refresh Rate	60Hz
		Operation Hours (Hrs./Day)	16/7 or Higher
		Connectivity/ Ports	3xHDMI; 2xUSB; Audio Out; RS-232C in/out; RJ45, DVID
		Internet Processor	Quad Core SoC Processor with Signage OS
		Built in Speaker	10 watt
		Key Features	Built in Wi Fi, USB plug & play, Screen share via URL
2	55" Professional LED Display	Commodity	Professional Grade Digital Signage Monitor
		Display	LED Back-lit Digital Display
		<b>Size</b>	<b>55" Diagonal</b>
		Panel Technology	IPS or similar
		Native Resolution	UHD 3840x2160 or Higher
		Brightness	400nit or Higher
		Contrast Ration (Native)	1100:1 or better
		Viewing Angle	178x178
		Refresh Rate	60Hz
		Operation Hours (Hrs./Day)	16/7 or Higher
		Connectivity/ Ports	3xHDMI; 2xUSB; Audio Out; RS-232C in/out; RJ45, DVID
		Internet Processor	Quad Core SoC Processor with Signage OS
		Built in Speaker	10 watt
		Key Features	Built in Wi Fi, USB plug & play, Screen share via URL
3	Server	Commodity	Server PC
		Processor	Xeon E-2224 or higher
		No. of Cores	Minimum 4 Cores in Single Processor
		No. of Threads	1 Threads per Core
		Frequency	3.4 GHz or higher

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S.N.	Item Name	Item Specification
		Memory 16 GB or higher, DDR4 SDRAM or latest Operating System MS Windows Server 2019 LAN/ Ethernet Onboard/ on slot Gigabit Ethernet (RJ45) Hard Disk Drive 2x ITBSATA HDD, 7.2K, LFF Accessories 18" Monitor, Keyboard & Mouse
4	Client License Software	<p>SITC of Courtroom Information Display Software to enable Advocates, Litigants and Court staff to be always be updated about the summery information of all the cases running in all the courts rooms through Local Display, NIC Web-site &amp; NIC Mobile Application; The WebRTC based software solution must provide with separate login for each Court-master at the same time provide the flexibility to manage single/multiple courtroom through the existing PC over the display Unit inside court room and the display units/Video Wall in corridors and common areas to display case number, item number, court room number, party names etc. through Integration with the NIC software to publish the case information on the NIC Website &amp; the Mobile App through daily real-time auto data synchronization via APIs. The Court-master must be able to transfer court cases from one courtroom to another courtroom, manage &amp; display bulk case hearings, sharing of instant messages to all screens from any courtroom, to call an Item Number skip it or recall it, and to display the various notices and other important information Court want to display. The software to be compatible and integrated with the existing Court Room Information display software at the Rajasthan High Court Complex, Jaipur.</p> <p>Should Support Dual Channel, Support Interactive integration, Support Windows Streaming Video or live video inputs, 24 x 7 play back &amp; Stable, reliable to withstanding the load without any compromise in the performance. Should support Real time data integration feed without communicating Content management software; Capability of capturing live TV feed &amp; Playback with inbuilt software module; Compatible with the Digital Display system at Jaipur High Court as approved by Client Department.</p>

**Server & Client License Software-**

Item Name	Item	Specification
Server	Commodity	Server PC
	Processor	Xeon E-2224 or higher
	No. of Cores	Minimum 4 Cores in Single Processor
	No. of Threads	1 Threads per Core
	Frequency	3.4 GHz or higher
	Memory	16 GB or higher, DDR4 SDRAM or latest
	Operating System	MS Windows Server 2019
	LAN/ Ethernet	Onboard/ on slot Gigabit Ethernet (RJ45)
	Hard Disk Drive	2x ITBSATA HDD, 7.2K, LFF
	Accessories	18" Monitor, Keyboard & Mouse
Client License Software	SITC of Courtroom Information Display Software to enable Advocates,	

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	<p>Litigants and Court staff to be always be updated about the summary information of all the cases running in all the courts rooms through Local Display, NIC Web-site &amp; NIC Mobile Application; The WebRTC based software solution must provide with separate login for each Court-master at the same time provide the flexibility to manage single/multiple courtroom through the existing PC over the display Unit inside court room and the display units/Video Wall in corridors and common areas to display case number, item number, court room number, party names etc. through Integration with the NIC software to publish the case information on the NIC Website &amp; the Mobile App through daily real-time auto data synchronization via APIs. The Court-master must be able to transfer court cases from one courtroom to another courtroom, manage &amp; display bulk case hearings, sharing of instant messages to all screens from any courtroom, to call an Item Number skip it or recall it, and to display the various notices and other important information Court want to display. The software to be compatible and integrated with the existing Court Room Information display software at the Rajasthan High Court Complex, Jaipur.</p>
	<p>Should Support Dual Channel, Support Interactive integration, Support Windows Streaming Video or live video inputs, 24 x 7 play back &amp; Stable, reliable to withstanding the load without any compromise in the performance. Should support Real time data integration feed without communicating Content management software; Capability of capturing live TV feed &amp; Playback with inbuilt software module; Compatible with the Digital Display system at Jaipur High Court as approved by Client Department.</p>



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**Annexure "D"**

Minimum technical specification suggested by Technical Committee (T.C.) of Dept. of IT&C for "**Procurement of Computer Systems, Laptop and manpower for strengthening IT- enablement in Forest Dept.**" submitted by **Forest Dept.** are as mentioned below:

**1. Desktop Computer:**

<b>Item</b>	<b>Minimum Technical Specifications</b>
Processor	Intel i5 (11 <sup>th</sup> Generation or higher) or AMD Ryzen™ 5, minimum 6 Core or higher, with minimum 2.70 GHz or higher (Base Frequency), 12 MB Cache or higher
Chipset	Compatible Chipset
Motherboard	OEM Motherboard
Operating System	Pre-installed Genuine OEM Microsoft Windows 10 or higher Professional (64 bit) with OEM recovery partition/ recovery DVD
Graphics	Integrated Graphics
Memory (RAM)	8GB DDR4 with minimum 2 DIMM Slots, Expandable upto 32 GB
Storage	1 TB 7200 RPM SATA
Optical drive	DVD R/W
Ports	Minimum 6 USB ports with at least 2 USB 3.0 or higher ports, 1- VGA, HDMI, audio jack for headphone & microphone
Display	Minimum 19" inch or higher, Resolution 1600x900 or higher Display, TCO Certified
Antivirus	Preloaded (Latest Version) Internet Security of Trend Micro/ Quick Heal/ Symantec/ Sophos/ Kaspersky
Power efficiency	90% or higher
Keyboard & Mouse	OEM USB Keyboard & OEM USB two button optical Mouse With mouse Pad
Network Interface	Integrated 10/100/1000 GB Ethernet
Certification	RoHS Compliance, ISO for OEM
Accessories	All necessary cables (Power & data cables), 3 Mtr CAT 6 patch cord

**2. Laptop:**

<b>Item</b>	<b>Minimum Technical Specifications</b>
Processor	Intel Core i7 (11th Generation or higher) or AMD Ryzen™ 7 Minimum 4 core, cache 12 MB or higher
Operating System	Pre-installed Genuine OEM Microsoft Windows 10 or higher Professional (64 bit) with OEM recovery partition/ recovery DVD
Display	14" or higher diagonal +/-5%, FHD Display
Memory (RAM)	16 GB DDR4 2666 MHz or higher, expandable upto 32 GB
Hard Drive	256 GB SSD/1 TB SATA
Speaker & Microphone	Inbuilt speakers and integrated digital microphone
Connection Type	Minimum 2 USB 3.0 or higher, 1 USB type C, 1 HDMI, Headphone/ microphone combo/ separate
Network Card	Integrated 10/100/1000 GB Ethernet LAN
Wireless Connectivity	Bluetooth 4.0 or higher & integrated Wi-Fi 802.11 b/g/n
Graphics	Integrated HD Graphics
Web Cam	HD Web Camera (Front facing)
Battery	Minimum 3 Cell 40 Whr with minimum back up of 8/10 Hrs.
Power Adapter	Standard OEM power adapter
Antivirus	Preloaded Internet Security of Trend Micro/ Symantec/ Sophos/ Quick Heal/ Kaspersky
Keyboard	OEM standard keyboard

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Item	Minimum Technical Specifications
Certification	RoHS Compliance, BIS, ISO for OEM
Accessories	Carry Bag
Weight	Not more than 1.7 kg

## 3. MacBook Laptop:

Item	Minimum Technical Specifications
Chip(Microprocessor)	Apple M1 Max chip or higher , 10-core CPU ,32-core GPU, 16-core Neural Engine
Display Screen Size	16.2- inch(41.05 cm) Liquid Retina XDR display
Resolution	3456x2234
Charging and Expansion	Three Thunderbolt 4 ports, HDMI port, SDXC card slot, MagSafe 3 port
Battery and Power	Up to 21 hours battery life , 140W USB-C Power Adapter
Memory, standard	32 GB unified memory
Storage	1TB SSD storage or higher
Keyboard and Trackpad	Backlit Magic Keyboard with Touch ID – US English , Force touch trackpad
Connectivity	802.11ax Wi-Fi 6 wireless networking Bluetooth 5.0 wireless technology
Webcam	1080p FaceTime HD camera
Other	Standard Warranty and Carry Bag

## 4. Printer:

Item	Minimum Technical Specifications
Type	Ink Tank, Monochrome
Print Speed	20 PPM
Functions	Print
Duty Cycle (Monthly)	10000 Pages
Print Resolution	600 x 600 dpi
Duplex Printing	Auto
Port	USB, Ethernet
Tray	Input Tray : Min 100 sheets Output Tray: Min 100 Sheets
Certification	BIS, ISO for OEM
Processor	500 MHz or higher
Memory	64 MB or higher
Operating System	Windows and Linux
Warranty	3 years comprehensive on-site OEM warranty

## 5. 1 KVA UPS:

Item	Minimum Technical Specifications
UPS Capacity	1 KVA
Protection	Full Protection
User Display	Display for input & output voltage and battery charging
voltage	230V +-10%
Range	160V - 280V
Power factor	0.6 or higher
Back up time	30 Minutes backup on 1 PC (Inbuilt Batteries)
Indicator	Mains On/ On Battery/ Low Battery/ Fault/ Overload
Plug and cable	Input cable of 1.5 Mtr with 3 pin Indian plug and output have 4 nos. of 5 pin Indian socket
Battery Type	Sealed Lead Acid Valve Regulated
Alarm	ON Battery/ Fault, Over Load, Low Battery

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<b>Item</b>	<b>Minimum Technical Specifications</b>
Certifications	BIS, ISO for OEM, ROHS Compliance
Test report	OEM should submit test report for the quoted model issued by state/central laboratory (not old from last 5 Years)
Warranty	3 years comprehensive on site OEM warranty

**6. Multifunction Laser Printer:**

<b>Item</b>	<b>Minimum Technical Specification</b>
Functions	Print, Scan, Copy
Printing Method	Monochrome laser
Print Speed (Minimum)	20 PPM (Mono)
Print Resolution	600 x 600 dpi or higher
Auto Duplex	Yes
Memory	64 MB or higher
Display	Monochrome LCD Touch Screen Display
Connectivity	USB, Ethernet/ Wi-Fi
Duty Cycle (Monthly)	10000 pages or higher
Copy Speed	10 PPM or higher
Copy Resolution	600 x 600 dpi or higher
Scan File Format	PDF, JPEG, TIFF BMP etc.
Scan Resolution	600 x 600 dpi or higher
Scan Type/ Technology	FLATBED and ADF
Input paper tray capacity	100 pages or higher
Toner Cartridges	Composite Cartridges
Additional Toner Cartridge	OEM should supply 1 company packed additional Cartridge along with printer
Compatible operating Systems	Windows 7 , 8 , 10 and Linux- Ubuntu
Cables/ Accessories	All the required cables, accessories
Software Media	Driver & Utility software CD/DVD
Certifications	BIS, ROHS
Warranty	3 Years comprehensive onsite OEM warranty



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**Annexure-“E”**

Minimum technical specification of suggested for "**Setting up of Smart Class Room with Digital Connectivity in 118 Industrial Training Institutes (ITIs) of Rajasthan State**" submitted by Dept. of Skill, Employment & Entrepreneurship (DoSEE) -

**1. USB PTZ Camera for Instructor**

<b>Parameter</b>	<b>Minimum Technical Specification</b>
White Balance	The camera should have an Option of Auto or Manual White Balance
Gain Control	The camera should have an auto Gain Control
Picture controls	The camera should have picture control for brightness, color, saturation, contrast and sharpness
S/N ratio	The camera should have a S/N Ratio of >50db
Focus	The camera Lens should have an Auto Focus
Sensor	The camera should have 1/2.8" HD CMOS
Optical Zoom	The camera should have a 10X or more Optical Zoom
Video Output	The camera should have a standard video output though HDMI
Signal Support	The camera should support signals: 1080P@30, 1080P@25, 1080i@60, 1080i@50, 720P@60, 720P@50, 720P@30, 720P@25
Communication	The camera should have an RS 232, LAN / RJ45 port for Communication
Pre-sets	The camera should have Upto 16 Position Pre-sets and accessible from IR remote
Viewing Angle	The camera should have 8° (telephoto), 80° (wide-angle) or higher
Pan Range	The camera should have Pan movement range of -170 degrees to +170 degrees or better
Tilt Range	The camera should have Tilt movement range of -30 degrees to +90 degrees or better
Remote Control	The camera should be supplied with IR remote control (ID managed) as an included accessory, Min. 10 pre-set should be available & should support VISCA/ Pelco-D/ Pelco-P camera control protocols
Certification	BIS, CE/ FCC/ RoHS/ UL
Accessories	All required accessories for installation of camera to be provided like camera bracket, connector kit screws etc.
Shutter Speed	1/1 to 1/10000 sec or better

**2. USB PTZ Camera for Class:**

<b>Parameter</b>	<b>Min. Specifications</b>
White Balance	The camera should have an Option of Auto or Manual White Balance.
Gain Control	The camera should have an auto Gain Control
Picture controls	The camera should have picture control for brightness, color, saturation, contrast, sharpness
S/N ratio	The camera should have a S/N Ratio of >50db.
Focus	The camera Lens should have an Auto Focus.
Sensor	The camera should have 1/2.8" HD CMOS
Optical Zoom	The camera should have a 20 X or more Optical Zoom.
Video Output	The camera should have a standard video output though HDMI
Signal Support	The camera should support signals: 1080P@30, 1080P@25, 1080i@60, 1080i@50, 720P@60, 720P@50, 720P@30, 720P@25
Communication	The camera should have an RS 232, LAN / RJ45 port for communication
Pre-sets	The camera should have Up to 10 Position Pre-sets and accessible from IR remote.
Viewing Angle	The camera should have 8° (telephoto), 80° (wide-angle) or better
Pan Range	The camera should have Pan movement range of - 170 degrees to +

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Parameter	Min. Specifications
	170 degrees or higher
Tilt Range	The camera should have Tilt movement range of - 30 degrees to + 90 degrees or better
Remote Control	The camera should be supplied with IR remote control (ID managed) as an included accessory, Min. 10 pre-set should be available & should support VISCA/ Pelco-D/ Pelco-P camera control protocols
Accessories	All required accessories for installation of camera to be provided like camera bracket, connector kit screws etc.
Certification	CE/ BIS, FCC, UL, FCC and RoHS
Shutter Speed	1/1 to 1/10000 sec or better

**3. Interactive Flat Panel Display:**

Parameters	Min. Specifications
Size (Diagonal)	75"
Panel Technology	IPS
Resolution (Minimum)	4 K (3840 x 2160)
Brightness	350 nits or better
Contrast Ration (Typical)	1100:01 or higher
Viewing Angle (HxV)	178*178
Response Time	8 ms or less
RAM	3 GB or higher
Onboard Memory	32GB or higher
Input (Minimum)	2 x HDMI, 4 x USB (Out of which min 2xUSB3.0), 1 x Audio, 1 x OPS slot
Output (Minimum)	1 x Audio
Panel Life (Minimum)	30000 Hrs
Wi-Fi Supports	Wi-Fi (802.11 a/b/g/n/ac) Support
External Control	R5232C (1), RJ45 (1)
Speaker	Built-in Speaker (10W + 10W) or higher
Platform	Android 8.0 or higher
Detection Method	IR/IPV
Pen (Stylus)	2 nos. (Dual Pen Dual Color) without chargeable
Operating System Support	Windows/ Linux/ Mac / Android
Multi Touch Point	Minimum 10 Points with +/- 2.0 mm or better
Surface Hardness	Minimum 4 MM Toughened Glass with level 7 MOHS Standard
Software/ Interactivity Features	Smart Writing of different colors & annotation
Panel Features	Interactive flat panel with Light Sensor, Connectivity via wireless Screen Cast, Wireless Screen Sharing from Mobile, Tablet, Laptop/PC
Certifications/ Compliance for the quoted Item/ Model	BIS, ROHS, UL, FCC, ISO9001, ISO14001
User Convenience Features (optional)	Multi-Screen with PBP/PIP, Screen recording, min 2 split view, Intelligent hand writing recognition, etc.
Accessory	Remote Control(WB), Power Cable (I5), VGA Cable (1.5 M), HDMI Cable (3 M), User Manual, Wall Mount kit with 8 no. Fasteners

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Software feature	White Board & Standard Interactive features : Writing Pen; Palm Eraser; Screen Capture; Tool Bar; Collaboration supports connecting up to 30 students for Online test/ Quiz etc.; USB Block feature for safety; Dual Pen support; Bluetooth Connectivity.
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**4. LCD Writing Panel with Stylus:**

Parameter	Min. Specifications
Size	Size should be 21 inch or higher
LED	The monitor should be LED
Resolution	The monitor should have a native resolution of 1920 x 1080 or better
Port	Should come with a HDMI, DP, VGA, USB port for control signals.
Luminosity	The monitor should have a Luminosity of 230 cd/m <sup>2</sup> or more.
Connectivity	Should have a 15 Pin HD Input ports or DVI port.
OS Support	Should support Win 7 or higher, Adobe Reader
Sensor	Should have an Electromagnetic Sensor Method.
Pen/ Stylus	Battery free Stylus/V Pen
Screen	Anti-Scratch Anti-Glare, Anti-Fingerprint

**5. Desktop Computer System:**

Item	Medium End
Processor	Intel i5 (11 <sup>th</sup> Generation <b>or higher</b> ) or AMD Ryzen™ 5, minimum 6 Core or higher, with minimum 2.70 GHz or higher (Base Frequency), 12 MB Cache or higher
Chipset	Compatible Chipset
Motherboard	OEM Motherboard
Operating System	Pre-installed Genuine OEM Microsoft Windows 10 <b>or higher</b> Professional (64 bit) with OEM recovery partition/ recovery DVD
Graphics	Integrated Graphics
Memory (RAM)	8 GB DDR4 with minimum 2 DIMM Slots, Expandable up to 32 GB
Storage	512 GB SSD
Optical drive	DVD R/W
Ports	Minimum 6 USB ports with at least 2 USB 3.0 or higher ports, 1- VGA, HDMI, audio jack for headphone & microphone
Antivirus	Preloaded (Latest Version) Internet Security of Trend Micro/ Quick Heal/ Symantec/ Sophos/ Kaspersky
Power efficiency	90% or higher
Keyboard & Mouse	OEM USB Keyboard & OEM USB two button optical Mouse With mouse Pad
Network Interface	Integrated 10/100/1000 GB Ethernet
Certification	RoHS Compliance, ISO for OEM
Accessories	All necessary cables (Power & data cables), 3 Mtr CAT 6 patch cord

**6. USB Video Mixer:**

Parameter	Min. Specifications
Output	Min 1. USB Out
Input	Min. 4 HDMI In based on the output of the cameras quoted
Control	1 RS 232/ Ethernet Port/ Contact closure/ Any other option for control through controller
Integration	Should be able to integrate the output of the multiple USB PTZ Cameras to the Desktop



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**7. Video Graphic Processor:**

Parameter	Min. Specifications
HDMI Out	Support 4 HDMI Out
Integration	Integrate with the desktop
Output	Video will be transferred with this graphic processor to any chosen display output from existing video conferencing solution.
H.264	Should support H.264 Video compression algorithm
DSP	DSP hardware compression
Resolution	4CIF/DCIF/2CIF/CIF/QCIF/ Realtime
Sync	Video and Audio Synchronization

**8. Gooseneck Microphone for Podium:**

Parameter	Min. Specifications
Frequency	The microphone should have a frequency response of 50 Hz to 17000 Hz or better
Pattern	The Microphone should have a Cardioid polar Pattern.
Connector	The Microphone should come up with standard 3 PIN XLR Connector.
Length	15" or higher
Led Indicator	Yes
Cartridge/ Transducer Type	Should be a Fixed-charge back plate, permanently polarized condenser
Normal Impedance	Less then – 200 $\Omega$
Maximum SPL	124 DB (SPL@1%THD )
Dynamic Range	100 dB (1 kHz at 1 Pa)
Power	Phantom power 9-52V DC, 2 mA
Accessories	Should be supplied with windscreen and Anti-Shock Mount

**9. Lapel Microphone:**

Parameter	Min. Specifications
Channels	The microphone should have at least 10 numbers of Channels
Control method/ Transducer Type	The microphone should have Cardioid True Diversity Receive Mode
Frequency Response	100 – 15000 Hz.
Total Harmonic Distortion	<1.0% (at 1 kHz, $\pm 20$ kHz deviation)
Operating range	100M
RF Power Output	High: 10 mW, Low: 1 mW (switchable)
Dynamic Range	> 110dB
switch function	Mute/unmute & On/OFF
Accessories	Detachable Antennas, Rack mount kit

**10. Handheld Microphone:**

Parameter	Min. Specifications
Channels	The microphone should have at least 10 numbers of Channels
Control method/ Transducer Type	The microphone should have Cardioid True Diversity Receive Mode
Frequency Response	50 – 15000 Hz.
Total Harmonic Distortion	<0.7% (at 1 kHz, $\pm 20$ kHz deviation)
RF Power Output	High: 30 mW, Low: 10 mW (switchable)
Dynamic Range	>110dB
switch function	Mute/unmute & On/OFF
Accessories Included	Detachable Antennas, Rack mount kit



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**11. DSP with Audio Mixer:**

Parameter	Min. Specifications
Audio Ports	Digital Signal Processor with at least 8 Audio Ports IN and minimum 6 Out) is required including Audio Input for <ul style="list-style-type: none"> <li>• 1 No Gooseneck Mic</li> <li>• 2 No Handheld MIC</li> <li>• 1 No Lapel Mic</li> <li>• 1 inbuilt or external USB Audio port to allow digital connection between DSP and the PC</li> <li>• 1 Laptop in (preferably USB)</li> </ul>
Echo cancellation	Digital Signal Processor with an Acoustic Echo Cancellation of up to 60 dB would be required or better
Noise cancellation	The Digital Signal processor should perform Noise Cancellation of up to 20dB for the Podium Microphone, Wireless lapel microphone and handheld Microphone.
Environment Noise	The Digital Signal processor should Suppress residual Echo to the Environment Noise Level to Prevent Artificial Ducking of Signal
Equalization	The Digital Signal processor should have Power Level Equalization.
Convergence	Convergence during full duplex
Control	Should have RS 232/ Ethernet for control through third party control system
Frequency response	20 Hz to 20 kHz
Dynamic range	> 105 dB or better

**12. Power Amplifier:**

Parameter	Min. Specifications
Watts	The System should consist of 150 Watts per channel X 2 Channel Amp.
Channels	The system should have at least two numbers of Channels.
Other	Amplifier: RMS Output – Minimum 150 watts x 2 at 4 Ohms. Input Channel – Balance Mic or Line Input Stereo Channel In – Stereo Line Input Frequency Response – 50~20000 Hz ± 3dB SN Ratio > 70- dB or better T.H.D - 0.05% @ 20Hz – 20kHz. Class: D

**13. Wall Speakers:**

Parameter	Min. Specifications
Loud speaker	Two-way high power cabinet loud speaker with minimum of 15 Watts
Impedance	Impedance to be 8 ohms
Frequency	The Speaker should have a frequency response of 100 Hz to 19000Hz or better
Nominal Sensitivity	Nominal Sensitivity : 87 dB SPL or better
Woofer	Woofer size to be 5" or more HD Type
Dom"	0.75"- 1.1" HD Silk dome on varithroat horn
Accessories	Speakers should be supplied with ceiling mounting structure for proper installation
Certification	CE, FCC, BIS

**14. 4x4 HDMI Matrix Switcher with audio de-embedding:**

Parameter	Min. Specifications
Output	Min. 4 HDMI matrix output
Input	Min. 4 HDMI Input
Compliant	HDCP, EDID Compliant
Support	4K/UHD capability @60Hz

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CEC	CEC display control
Audio De-embedding	Built-in HDMI audio de-embedding
Color Depth	8bit, 10bit
Bit Rate	Up to 24-bit
Audio	Multi-channel audio compliant
Control	TCP/IP, RS232 & IR Control
Certification	CE, FCC

**15. Customized Podium having Controller and 10 inch or higher touch control:**

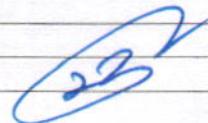
Parameter	Minimum Specifications
IR	The System should support IR Learning.
LAN	The system should come with min two LAN Ports.
RS232 Control	The System should have 2 numbers RS 232, 2 No Screen Control Ports, 1 No IR receiver, 1 number Program input Control, 1 no RS 232C. Ports less than this would not be accepted.
Touch Control	10 inch touch control interface needs to be supplied and fixed inside the Podium/dais. Resolution: 2160x1620 View Area: 10 Inch Power : 12V / 1A Memory: 512 MB or more
Podium	Good Quality Wood with good quality metal body with cooling fans
Storage	Podium should have rack storage inside the podium to keep all the below mentioned items <ul style="list-style-type: none"> <li>• Writing Panel/ Tablet</li> <li>• Desktop</li> <li>• USB/ HDMI Video Mixer</li> <li>• DSP</li> <li>• Amplifier</li> <li>• Switch and Wi-Fi Modem</li> </ul>
Ports on Podium	The body of the stand should have the following Ports: AC Socket, RGB, MIC, USB, Video, Audio

**16. L 3 Switch:**

Parameter	Min. Specifications
Interfaces	8 auto sensing 10/100/1000 Ethernet ports
Features	Store and forward; Full and Half duplex auto negotiation
Switching Capacity	16 Gbps
Forwarding Capacity	11 Mpbs or higher

**17.3 KVA Online UPS:**

Type	Item	Technical Specification
Generic	Rating in KVA (KVA)	3.0 KVA
	Technology	IGBT-PWM with inbuilt isolation transformer
	Input Power	single phase 160V - 260V sinewave, 50Hz
	Output power	Single phase 230V +/-5% sinewave 50Hz
	Backup time (Minutes)	30
	Minimum VAH (VAH)	2500
	Cabling 5 meters for input and out put	With
	Paralleling kit for Synchronizing	Without
	Installation and Commissioning	Yes



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Type	Item	Technical Specification
Constructional	Type of Battery	SMF-VRLA
Functional	Maximum overshoot and Under shoot of output rated voltage	4
	Overall Efficiency (%)	>/=90%
	Total Harmonic Distortion (THD) (%) for 100% leaner load	Maximum 3%
Protection	Protection for under voltage at battery terminal at 10.5V per 12 V battery.	Yes
	Protection of Over voltage, Short Circuit & over load at UPS output terminal	Yes
Metering & Indications	Digital Metering in UPS for AC Input Voltage, Output AC Voltage, Current, Frequency, Battery Voltage and Current	Yes
	Indicators for mains presence, Battery charging and discharging, Output Over Load, Low Battery Voltage	Yes
Reports & Certification	Damp Heat : in accordance with IS:9000(part 5/sec.2)1981 at Temperature of 40 degree C, two cycles of (12+12) hours each 2007)	Yes
	Dry Heat Test: in accordance with IS: 9000 (part 3/sec.5)1977 (reaffirmed 2007) at 55 degree C for 16 hrs.	Yes
	Cold Test: in accordance with IS: 9000 (Part 2/Sec.4)1977 (Reaffirmed 2007) at -10 degree C for 4 hrs.	Yes
	Availability of the Type Test Report from Central Govt./ NABL/ ILAC Accredited lab covering all technical requirements.	Yes
Preferred make of Battery	Luminous, Excide, Amaron, Yamaha, V-Guard	

## 18. LED Monitor 55"

Parameter	Minimum Specification
Size	55"
Display	LED Back-lit Digital Display
Panel Technology	IPS or Similar
Native Resolution	UHD 3840 x 2160 or Higher
Brightness	400 nits or Higher
Contrast Ratio (Native)	1100:1 or better
Viewing Angle	178 * 178
Audio	20W (10W x 2)
Refresh Rate	60Hz
Operation Hours (Hours/Day)	16/7 or Higher



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Connectivity/Ports	HDMI x 3, USB 2.0, RS232C, RJ45/LAN, RF-1(DVB-T2/C) or More
Internal Processor	Quad Core SoC Processor with Signage OS
HDR Support	HDR Pro/10/Plus
Certificate	BIS, UL/CB, EMC/FCC

**19. HDMI Cable:**

<b>Item</b>	<b>Min. Specifications</b>
HDMI Cable	Standard HDMI cables and should have some locking capability for holding the cable in its position and should be molded/ crimped cables at both ends Shall support 1080p up to 60 feet/ 20 Meters
Certification	UL Listed

**20. Accessories:**

<b>Item</b>	<b>Min. Specifications</b>
USB Cable	SITC Work of USB Male to Female Cable with, Compatible for Data Transfer Usage
Audio Cable	Supplying and Laying of 2 core Shielded Cable for connecting Microphone/ Speaker with related conduit/ fitting/ transmission etc.
Casting/ Conduits	Supplying and Laying PVC Conduit/ Casing size 50x100MM
Mount Kit	SITC Work of Ceiling Mount Kit for interactive Flat Panel Display/ LED Monitor
LAN Cable	SITC Work of LAN Cable as per site requirement & approved by designated Project-in-charge

It is suggested that DoIT&C has developed a generic LMS system, hence DoSEE may avail services of LMS from DoIT&C/ RISL and regarding hosting purpose DoSEE may avail services of State Data Centre (SDC).

##### End of Document #####

