

GOVERNMENT OF RAJASTHAN
Department of Information Technology & Communication

No.: F.5 (1322)/DoIT/Tech/2020/ML-1084

Dated: 01/10/2020

Minutes of 80th meeting of SeMT dated 10-09-2020

The Eighth (80th) meeting of the State e-Governance Mission Team (SeMT) was held under the Chairmanship of Principal Secretary, IT&C on 10th September, 2020 at 03:00PM through Video Conferencing. List of participants is enclosed at **Annexure –“A”**.

The following decisions were taken in the meeting:

- 1. Project : Revised project proposal of "Complete Consolidated Project for implementation of SAP-ERP in RVPN" [due to extending the existing contract with BSNL for availing data center services for six, (6) more months i.e. till 29th April, 2020] for hosting of SAP-ERP application at BSNL data centre, Faridabad (By RVPNL)**

The Committee was informed about the revised project proposal of "Complete Consolidated Project Report for Implementation of SAP ERP in RVPN"; by SeMT in its 63rd meeting held on 04-11-2016; in which, it was decided that RVPN will shift Infrastructure in RSDC after the completion of three (3) years of period of agreement with BSNL for Data Centre Services.

At present RVPN is availing IDC services from M/s BSNL for hosting SAP-ERP application as per purchase order dated 29-10-2015 for a period of 3 years which has been completed on 29th Oct 2018 and needs to be extended.

Contract with RVPN System Integrator M/s Yash Technologies was up to 31st January 2019. The responsibility of physical shifting of servers from Faridabad to BSDC and reconfiguring of the SAP-ERP application at BSDC was included in the tender for AMC of SAP but due to some unavoidable reason the tender could not be finalized and hence cancelled.

Again, while approving the revised complete consolidated project Report for Implementation of SAP ERP in RVPN, SeMT in its 77th meeting held on 09-04-2019 stated that, RVPN will shift Infrastructure in RSDC-P4, Jhalana campus before 29th October 2019.

The Committee was also informed about the current status as mentioned below:

At present, RVPN is availing IDC services from M/s BSNL Faridabad for hosting SAP-ERP application as per purchase order dated 09-08-2019 for a period of one (1) year which has been completed on 29th Oct 2019 and needs to be renewed for 6 more months (i.e. **29th April, 2020**) for uninterrupted IDC services from M/s BSNL on account of delay in appointment of System Integrator (SI), who has been entrusted the work of shifting physical servers from BSNL Faridabad.

A meeting was held on 23rd Oct 2019 at RSDC-P4 Jhalana campus Jaipur regarding the physical shifting of IDC Infrastructure of RVPN from IDC Faridabad to RSDC-P4 Jhalana Campus Jaipur. During the discussion it was advised by DOIT&C that in first phase all servers (2 HANA, 2 Application) located at DR site will be shifted from Ahmedabad to DR site Jodhpur. In second phase all servers (8 Application & 5 HANA) will be shifted from IDC Faridabad to RSDC-P4 Jaipur.

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As the migration activity (shifting of Physical servers and data and reconfiguration) may take about 6 months as per the SI estimate, therefore, it was decided to request for extending the existing contract with BSNL for availing Data Centre services for a period of 6 more months i.e. till 29th April 2020.

Financial Implication:

Existing contract with BSNL for availing Data Centre Services be extended on existing rates for 6 more months i.e. till 29th April 2020 however the PO to BSNL shall be issued for providing IDC services till 31st march 2020 and according cost of project be revised as under:-

(Rs. in Lakh)		
S.No.	Description	Amount
1.	Actual expenditure on existing project cost as approved by SeMT in its 77th meeting held on 9 th Apr. 2019	8193.00
2.	Charges to be paid for hosting of SAP-ERP application for 6 months	196.00
3.	Sub Total(1+2)	8389.00
4.	Contingency@2% on S. No. 2	4.00
5.	Revised complete consolidated project cost	8393.00

Fund Management:

Expenditure would be met from the funds available with RVPNL.

The view of the Committee on the aforesaid proposal is as follows:

- (a) RVPNL will submit revised plan with reasons for extending the services of BSNL.
- (b) A Committee consisting Commissioner & Special Secretary, IT&C; Director (Technical), RajCOMP Info Services Ltd., Technical Director, BSDC and team of concerned officers of RVPNL will prepare an action plan for RVPNL.
- (c) RVPNL will Re-submit the proposal accordingly for technical approval of SeMT/ Dept. O IT&C.

2. Project : IT-Strengthen the GIS Lab in Settlement Commissionerate (By Settlement Dept.)

The Committee was briefed about the project proposal and requirements as the GIS work in the Settlement Department is being carried out through the work station cell of the department. The GIS cell is at present not well equipped in terms of GIS infrastructure. With the availability of funds for the year 2019-20, the department intends to procure some hardware and software so that the existing infrastructure is strengthened.

H/w and S/w requirements and financial implication:

(Rs. in Lakh)				
S.No.	Subject	Unit Cost	Qty.	Total Cost
(A)	Hardware			
1	Dual-Processor (Servers-OS) 64GB RAM	3	1	3
2	NAS (Data storage, retrieval servers) 30 TB	4	1	4
3	WORKSTATION,INTEL XEON BRONZE,32GB RAM, 256GB TURBOSSD, 1TB, WITH 24" LED Monitor	2	10	20
4	Photogrammetric Hardware of 3 D Monitor	0.5	2	1.0



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	Suite	3 D Vision	0.4	1	0.4
		3 D Mouse	1.90	1	1.90
5	U.P.S. 5 KVA (online)		1.3	1	1.3
6	Multifunctional Plotter & Scanner		10	1	10
7	A4 B&W laser MFP		0.2	2	0.4
8	A3 Laser Colour		1	1	1
9	Laptop		0.75	4	3.0
10	Steel Almira		0.15	4	0.60
11	Revolving chair		0.05	10	0.5
12	Computer Table		0.06	10	0.6
Total Amount Of Hardware (A)					47.70
(B)	Software				
1	Photogrammetric Software		28	1	28
2	CAD Mapping Software		1	13	13
3	Antivirus		0.01	15	0.15
Total Amount Of Software (B)					41.15
Grand Total (A + B)					88.85

Technical specification suggested by Technical Committee (T.C.) of Dept. of IT&C along with observations of T.C. are attached as Annexure-"B".

Fund Management:

Expenditure would be met from the funds available with Settlement Commissionerate, Jaipur.

Keeping in view of the fact of urgency of work, technical approval has already been accorded by Principal Secretary, IT&C as being the chairman of SeMT.

The Committee accords ex-post-facto technical approval of the project with estimated project cost of Rs. 88.85 Lakh.

3. Project : Design, Development and Implementation of Multiple Apps for Department of Revenue under Digital India Land Record Modernization Programme (DILRMP) in Rajasthan (By Settlement Dept.)

The Committee was informed about the project proposal. Department of Revenue Rajasthan manages land records for Rural Rajasthan and is also responsible for revenue generation through various forms of collection. Record of Right (RoR) also called *Jamabandi* was largely paper based few decades ago. Now the RoR are made available online for the common man through apnakhata.raj.nic.in and the internal software developed by National Informatics Centre (NIC) for Department of Revenue is LRC 5.0 (and now e-Dharti) which is currently being used by Tehsil office for issuing and updating *Jamabandi*. Digitization, Geo Referencing of Maps and Re-survey is also underway as separate projects.

Though the RoR have been made online, but due to paper based system for request and approval - the process sees delays and it gets difficult to know where the delay is.

The primary objective of this project is to make life easier for the Rural Land-Owners and Department Officials for various interactions like RoR, Mutation (change in ownership), Loans, and Crop Records etc. This is to be achieved by:

- Allowing common man to view records and raise request for change in records through an Android and iOS based app.

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- Allowing land owners to file applications through E-Mitra and these applications will be time tracked.
- Making office of Patwari paperless.
- Giving a platform to banks to directly raise request for Mortgage.

Detailed Scope of Work (SoW):

The work will require integration between various software already in place for Land Record management. The SoW requires to develop the following:

1. iOS and Android app for common man.
 2. Interface for bank users for land mortgage.
 3. Integration with E-Mitra.
 4. App for Patwari, ILR and Tehsildar.
 5. Reporting Dashboard for senior officials.
 6. Also the scope requires integration with below (following) systems
 - a. Land records Database (Developed & Maintained by NIC)
 - b. E-Panjeeyan for seamless integration with Sub Registrar Office.
 - c. Aadhaar
 - Biometric based e-sign for login and approving transactions for all employees and E-Mitra kiosk operators.
 - OTP based signing for Aadhaar Self-updation by land owner.
 - d. Pehchaan
 - For validation of death certificate, birth certificate and adoption certificate.
 - e. Bhu-Naksha
 - For fetching, displaying & updating maps.
 - f. DGPS calculations
 - Scioe for integration might be required for some DGPS device for doing सीमाज्ञान and तरसीम in digitized maps.
 - g. E-Mitra
 - h. Enterprise Service Bus - for interacting with other systems via API.
 - i. Single Sign On for Dashboard users.
 - j. Bhamashah.
 7. Physical/ financial progress monitoring module for Survey-Resurvey.
 8. Develop a system for upload, storage, display & inter-linking of historical land record with present day land record- The land records system has now moved to online from paper based record management practice. But it is important to also store the paper based historical records in digital format. These documents are lying in record rooms and a digitized format would allow easy access for reference.
- **Process flow**
 - A barcode to be pasted on the document to be scanned
 - Scanning the barcode should generate a unique document id
 - For this document id scanned document will be uploaded
 - The uploaded document must have ability to specify metadata like Village, Khasra, Khata, Samvat (year), document type etc.
 - The uploaded documents should pass through an approval process (to be developed as part of the system)

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- As Jamabandi is created every 4 years - these documents should maintain all required linkages thus allowing tracing back to any revision/any samvat
 - User should be able to search these documents by typing in village/ khasra/ khata/ samvat
 - APIs should be provided for integration with other system like app and web
 - The present jamabandi records should be linked to the historical records for all the years
 - **Documents to be scanned**
 - Document Scanning is already being done by an existing vendor.
 - As the data storage requirements will be large, appropriate technology should be used for fast and efficient data storage, retrieval.
 - Security of the system needs to be ensured.
9. Develop system of encroachment removal under S.91 of LR Act.

Note: - The Project work will be initially tested for one selected Tehsil, and after approval of that, it may be carried out to other parts of the State.

Financial Implication:

Estimated cost of the project proposal is Rs. 735.00 Lakh (Core GIS for development of software for Land Record GIS Application for Rajasthan).

Fund Management:

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

Keeping in view of the fact of urgency of work, technical approval has already been accorded by Principal Secretary, IT&C as being the chairman of SeMT.

The Committee accords ex-post-facto technical approval of the project with estimated project cost of Rs. 735.00 Lakh.

4. Project : Procurement of Computer Hardware and allied items for Revenue Board, Ajmer (By Revenue Dept.)

The Committee was briefed about proposal. The Revenue Court Management System (RCMS) is in operationalized in Revenue Courts spread all over across the State. Revenue Board, Ajmer intends to IT-Strengthen the system through the deployment of Desktop Computers, Printers, UPSs and Barcode Scanner etc.

Proposed procurement and its technical specification:

S.No.	Item	Quantity
1	Desktop Computer	600
2	Printer	600
3	UPS	600
4	Bar Code Scanner	600

Technical specification suggested by Technical Committee of Dept. of IT&C are attached as Annexure-"C".

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Proposed Deployment Plan:

It is proposed to provide computer hardware at each of the location (Office) to be used exclusively for RCMS as mentioned below:

S.No.	Level of Location	No. of Locations	Quantity (in Nos.)			
			Desktop Computer	Printer	UPS	Bar Code Scanner
1	Tahsildaar Court (Newly created Tehsils)	17	17	17	17	17
2	Nayab Tahsildaar Court	331	331	331	331	331
3	Nayab Tahsildaar Court (Sub-Tehsil)	183	183	183	183	183
4	Revenue Board Courts	69	69	69	69	69
	Total	600	600	600	600	600

Financial Implication:

For proposed procurement of said computer hardware; there is Budget provision of Rs. 450.00 Lacs made during FY 2019-20.

Fund Management:

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

Keeping in view of the fact of urgency of work, technical approval has already been accorded by Principal Secretary, IT&C as being the chairman of SeMT.

The Committee accords ex-post-facto technical approval of the project with estimated project cost of Rs. 450.00 Lakh.

5. Project : Hiring of GIS experts for districts & headquarter (through NICS) for the period of one (1) year from 01-04-2020 to 31-03-2021 (By Watershed Dev. & Soil Conservation Dept.)

The Committee members were briefed about proposal. Common Guidelines of GoI for watershed programs lay emphasis on use of technology inputs in planning, monitoring and evaluation of watershed projects using scientific inputs especially GIS-Remote Sensing techniques. For PMKSY-Watershed Component (erstwhile IWMP), it is mandatory to Geotag watershed interventions on Bhuvan portal of ISRO & under Rajiv Gandhi Jal Sanchayan Yojana (RGJSY) GIS-RS techniques is also in use, which is an important feature in planning, monitoring & checking the techno-economic feasibility of proposed structures. In accordance to aforesaid common guidelines and to attain the objective of watershed programs, WD&SC Dept. is obtaining services of GIS experts for districts and GIS lab through NICS since October 2015.

The earlier proposal was approved in 78th meeting of SeMT held on 15-10-2019 for the manpower as GIS experts being hired for six months from Sept., 2019 to March, 2020 through NICS (10 at Commissionerate level & 32 at district level). Services provided by these manpower as GIS experts found satisfactory by WD&SC Dept.



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As the approved current duration/ period for these services is being elapsed on 31-03-2020, PeMT of WD&SC Dept. recommended to hire the man-power as GIS experts for one year from April, 2020 to March, 2021 through NICS as mentioned below:

S. No.	Manpower/ Category	No. of Resource
1	Tech lead-GIS	1
2	Senior Image Processing expert	4
3	Image Processing Expert	25
4	GIS Developer/ Analyst	1

It was also informed that in previous years, Dept. was hiring man-power services for all the districts; but in current financial year (2019-20), Junior Engineers of 10 desert districts were trained for the purpose and now these 10 districts have not been included in the proposal.

Financial Implication:

The estimated cost of the proposal is Rs. 200.00 Lakh as mentioned below:

S. No.	Manpower/ Category	No. of Resource	Rate	Amount (in Rs.)
1	Tech lead-GIS	1	70390	8,44,680
2	Senior Image Processing expert	4	49900	23,95,200
3	Image Processing expert	25	37400	1,12,20,000
4	GIS Developer/ Analyst	1	51100	6,13,200
	Sub Total (A)			1,50,73,080
	Add: GST @ 18% on Sub Total (A)			27,13,155
	Grand Total			1,77,86,234
			Say Rs. (in lakh)	200.00 Lakh

Fund Management:

The administrative cost of this project is funded by Government of India (GoI) in the ratio of 60:40 funding pattern. Expenditure would be met from the fund managed by WD & SC Dept. at its own level.

Keeping in view of the fact of urgency of work, technical approval has already been accorded by Principal Secretary, IT&C as being the chairman of SeMT.

The Committee accords ex-post-facto technical approval of the project with estimated project cost of Rs. 200.00 Lakh.

6. Project : Development & Maintenance of Integrated Watershed Management System (IWMS) for managing all Watershed related activities under different schemes (i.e. IWMP, RGJSY, MJSA etc.) (By Watershed Dev. & Soil Conservation Dept.)

The Commissionerate of Watershed Development & Soil Conservation (WDSC) of Rajasthan, as a part of their envisioned strategy to strengthen the various functions across the State, are keen to introduce e-Governance at their offices. The proposed IT solution will serve as an enabler for empowerment of the department to manage all watershed related activities under different schemes. This will help to improve the internal efficiency and effective scheme monitoring. The application shall serve as a single source of information from all locations,

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various processes of different schemes (i.e. RGJSY, IWMP etc.) will be automated along with geotagging & GIS based monitoring of different work sites.

In this context, Commissionerate of WD&SC has requested Dept. of IT&C/ RajCOMP Info Services Ltd. (RISL) to develop IWMS application to cover all other schemes (i.e. RGJSY, IWMP etc.) related to Watershed activities.

The proposed system would be generic so that it can be used for any other watershed scheme to be initiated in future, that execute activities of similar nature which are covered under watershed programs.

Scope of the Project:

The proposed solution system will consist of below components:

1. Web Application
2. Web Portal
3. Mobile Application
4. GIS Based Application
 - Development of new generic modules on advance technologies. Maintenance & support for old MJSA components. Watershed activities project application and web portal
 - The broad modules/extensions in the proposed system would be as follows:
 - a) Generic Works Management system (Planning, Sanction and Contract Management, issuance of AS-TS -FS, GIS based Progress Monitoring).
 - b) Provision for IWMP, RGJSY, MJSA and provision to add new schemes in Mobile & Web Application.
 - c) The existing Web Portal will be modified to have different web pages for different schemes.
 - d) Web Portal should have online donation facility for RGJSY similar to MJSA.
 - e) Financial Management Module (Fund Management) – Online Disbursement and Collection Facility.
 - f) Dashboard & Reporting Module
 - g) Masters & user Management Module
 - h) Training, Meeting and campaign Management Module
 - i) Integration with Existing/Upcoming Application.
 - j) Master Data Migration
 - k) Application Maintenance & Support
 - l) Contribution in ICT Activities and Decision Support System
 - m) Phase Selection and Dynamic Integration of Phase
 - Overall administration, operations, monitoring, maintenance of the deployed Application.

Project Duration:

The timelines proposed for entire project shall be of two (2) years development, enhancement, implementation & maintenance for web application & mobile application and one (1) year for Watershed GIS portal.

Implementing Agency:

Commissionerate of WD&SC being the nodal department shall take up the task for project formulation and the project will be implemented by RISL.



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Financial Implication*:

S. No.	Service Type	Description of work	Qty.	Unit	Unit Cost (in Rs.) (Incl. all Taxes)	Total Amount (in Rs.)
1	Application Software	Sr. Software Developer	24	Man Month	78,500	18,84,000
2	Application Software	Software Developer	48	Man Month	50,000	24,00,000
3	FMS	Watershed GIS Portal	1	Year	17,50,000	17,50,000
4	Application Software	Watershed Mobile Application	1	Nos.	5,00,000	5,00,000
5	Consultancy	Project Consultancy Services	2	Man Month	1,77,721	3,55,442
Total (INR)						68,89,442
RISL Service Charges (INR)						6,43,264
CGST @9% on RISL Service Charges (INR)						57,893
SGST @9% on RISL Service Charges (INR)						57,893
Grand Total (INR) to be transferred to RISL (INR)						76,48,494
Rs. SEVENTY SIX LAKHS FORTY EIGHT THOUSAND FOUR HUNDRED NINETY FOUR ONLY						

** (RISL service Charge & GST etc.) shall be applicable as per prevailing rate.

** Total Project Cost does not include taxes.

** All taxes (GST) shall be applicable as per prevailing rate.

Fund Management:

Expenditure would be met from the funds managed by Watershed Development & Soil Conservation Dept.

The Committee accords technical approval on the proposal [as Watershed Web & Mobile Application Development for two (2) years and one (1) year for Watershed GIS Portal] of the project with estimated project cost of Rs. 76.49 Lakh.

7. Project : Management of Nutritious Food Distribution & Aanganwadi Infrastructure System (RajPoshan 2.0) (Women & Child Development (ICDS)) Dept.

The Committee members were briefed about the project proposal as RajPoshan application is a web based application designed and developed by NIC/ NISCI Rajasthan for Integrated Child Development Scheme (ICDS) at Department of Women & Child Development (WCD Dept.). It is hosted at State Data Centre, Rajasthan and is operational since May, 2015. Earlier, the application was developed on windows platform i.e. Dot.Net & MS SQL; and later-on, the same was migrated to open source i.e. PHP and PostgreSQL.

Now, to include Online Portal and Mobile App for Nutritious Food Distribution activities and managing infrastructure details at Aanganwadi(s) under RajPoshan, WCD Department intends to develop some new modules and five (5) years maintenance of all modules of RajPoshan system under the project. All activities are proposed to be carried out in association with NIC/ NISCI.

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Scope of Work (Sow):

Broad Scope of the Project includes:

- Design and development of Online Portal and Mobile App for management and monitoring of Nutritious Food distribution from Self Help Groups (SHGs) to Aanganwadi Centres (AWCs)
 - Demand and Supply management of Nutritious food
 - Information about distribution of Nutritious Food at AWCs
 - Information dissemination to the end user i.e. beneficiaries, SMS based complaint system for beneficiaries about lacuna in between distribution system and actual receivables
 - Aanganwadi Infrastructure Management System, CSR or Charity funding.
 - Maintenance of existing RajPoshan Project.
 - This new application will be developed under RajPoshan Project with the integration of PCTS (Pregnancy, Child Tracking & Health Services) application.
 - This also includes various reports with KPIs (Key Performance Indicators) as per user requirement subject to the technical feasibility.
- Details are covered under proposed online system.

Proposed modules of the Online Nutritious Food Distribution and Aanganwadi Infrastructure System:

- Nutritious Food Distribution from Self Help Groups (SHGs) to Aanganwadi Centres (AWCs)
- Integration with Pregnancy, Child Tracking & Health Services (PCTS) application
- Accountability of Nutritious Food and Beneficiaries at AWCs
- Information about distribution of Nutritious Food at AWCs
- Information dissemination system for Beneficiaries
- AWCs' Infrastructure Management System
- SMS based complaint System
- Reports with Key Performance Indicators (KPIs)
- Maintenance of existing RajPoshan

Project Duration:

The duration of the project is five (5) years.

Financial Implication:

Estimated cost of the proposed system is as mentioned below-

(Amount in Rs.)

S. No.	Particulars	Estimated Cost
1	Man-power for Application and Mobile App Development, consumables, Tour & Travel, Miscellaneous & Contingences including NICSI Charges (1 st year)	64,00,000
2	Rollout, Technical support & Implementation (2 nd & 3 rd Year)	1,47,84,000
3	Technical support & Software maintenance (4 th and 5 th Year)	1,78,88,640
	Total	3,90,72,640
	Say (Rs. in Lakh)	390.73 Lakh

Fund Management:

Expenditure would be met from the funds available with WCD (ICDS) Dept.

Keeping in view of the fact of urgency of work, technical approval has already been accorded by Principal Secretary, IT&C as being the chairman of SeMT.

The Committee accords ex-post-facto technical approval of the project with estimated project cost of Rs. 390.73 Lakh.



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8. Project : Revised project proposal of "Development of application software for the project of Employment Exchange Management System (EEMS)" (By Employment Dept.)

In perspective of EEMS, it was informed that the technical approval was accorded for the EEMS project in was originally approved in 29th SeMT meeting held on 21-05-2012. Administrative (AS) and Financial Approval (FS) of Rs. 939.00 Lakh for the entire project was granted by Apex Committee meeting dated 12-06-2012; and the order for AS for the same was issued on 27-06-2012; and FS was issued for a sum of Rs. 9.12 Lakh on 29-08-2012.

Original Scope of Work (SoW) and previous amendments in it are as under:

Initially hardware for RSDC, backend development for field offices, S/w development and OPEX for 2 years are part of complete project costing 939.00 Lakh including RISL service charge.

Further due to implementation of e-District and State Service Delivery Gateway (SSDG) Mission Mode Project (MMP); it was decided that hardware and software requirement and scope of software were reduced from the original SoW of the project.

Revision in Originally approved Project Cost:

Due to revision in the original SoW of the project, project cost was also reduced as Rs. 24.09 Lakh.

Therefore, Revised AS & FS was issued on 07-07-2015 for Rs. 24.09 Lakh, and Dept. of IT&C had transferred Rs. 9.12 Lakh on 29-08-2012, and Rs. 14.81 Lakh to RISL on 20-07-2015.

Recent revision in SoW:

Initially, RISL floated RFQ for "Onsite Operation and maintenance with Facility Management Services for Web Portal of Dept. of Skill, Employment and Entrepreneurship for Govt. of Rajasthan" and work-order was placed to M/s Zenith IT Solutions Pvt. Ltd., Jaipur on 27-Febray-2017 for one year i.e. from 27-Feb-2017 to 26-Feb-2018.

Further, above mentioned work-order was extended for one year i.e. from 26-Feb-2018 to 25-Feb-2019.

Currently, project is being executed through RISL rate contract - Hiring of specialized IT Manpower services from M/s In2IT Technologies Pvt. Ltd. for the period of one year i.e. from 01-Mar-2019 to 29-Feb-2020.

The User Dept. has also requested for many additional requirements/ enhancements in the EEMS which needs to be incorporated in the system and to provide the support for the same.

Financial Implication/ Recent re-revision in revised Project Cost:

Due to revision in the SoW, Project cost is being increased from Rs. 24.09 Lakh to 91.00 Lakh. Details of the same is as under:

- (a) Overall revised estimated cost of the project is Rs. 1,14,84,266/- or Say Rs. 115.00 Lakh as follows:

S.No.	Description	Amount (in Rs.)
1	Total funds to be transferred by DoIT&C to RISL	9075197
2	Funds already transferred by DoIT&C to RISL	2409069
3	Total Rs.	1,14,84,266
Overall Revised Project Cost is Rs.		115.00 Lakh

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(b) As the payment of Rs. 24,09,069/- has already released to RISL, rest of the amount of the project cost Rs. 91.00 Lakh is to be released to RISL as mentioned below:

S.No.	Description	Amount (in Rs.)
1.	Estimated Cost of the project till 2019-20	78,08,330
2.	Less-Fund Received from DoIT&C	(-) 24,09,069
3.	Balanced Amount required from DoIT&C up to financial year 2019-2020	53,99,261
4.	Funds required for financial year 2020-21	36,75,936
Rest of the amount of the project cost to be released		90,75,197
Say Rs.		91.00 Lakh

Fund Management:

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

Keeping in view of the fact of urgency of work, technical approval has already been accorded by Principal Secretary, IT&C as being the chairman of SeMT.

The Committee accords ex-post-facto technical approval of the project with estimated revised project cost of Rs. 115.00 Lakh.

9. Project : Availability of Internet Connection facility in 390 Tribal Hostels/ Residential Schools (By Tribal Area Development Dept.)

The Committee members were informed that for effective & efficient reporting and monitoring of hostel facilities by TAD Dept.; following projects have been implemented in past:

1. Hostel & Scheme Monitoring System (HSMS) is implemented for effective monitoring of hostels being managed by the department.
2. Mobile App "Collect" is implemented to ensure the continuous stay of wardens in the hostels.
3. Under the project Gyan Darpan, Tablets have been distributed to students for e-learning.
4. IT infrastructure is already strengthened by putting IT hardware including computer, printer and biometric machines.

For internet connectivity, earlier other options were also explored like connectivity through RAJSWAN and BSNL. RAJSWAN does not provide connectivity in proposed Tribal Hostel location and BSNL has only 6 % coverage in the proposed area. A proposal by RISL was submitted to provide internet connectivity through private Telecom Service Providers. Subsequently it has been decided to go for procurement of MPLS network through open tender process.

Requirements' of the Dept.:

To ensure the effective and seamless operation of all the above-mentioned IT initiatives, internet connectivity of minimum 2 MBPS is required. The proposed system network connectivity will facilitate effective implementation of IT initiatives/ projects at the ground.

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Project Scope:

The broad scope of the project includes but not limited to conduct the feasibility study, Design, Testing, and implement the MPLS network for 390 sites/ links/ nodes including two and half years operations & maintenance support services including the new links established during the contract period. Total project duration is 3 years (6 Months establishment of network + 2.5 Years O&M).

Financial Implication:

S. No.	Service Type	Description of Work	Qty. (Nos.)	Unit Cost (In Rs.)	Total Amount (In Rs.)
1	FMS	Internet Connectivity including MPLS bandwidth etc.	1170	46492.00	54395640.00
2	Hardware	Router	390	34351.11	13396932.90
3	Hardware	6 U Wall Mount Rack	390	5664.00	2208960.00
4	Total				70001532.90
5	Service Charges INR)				4340095.04
6	CGST @9% on Service Charges (INR)				390608.55
7	SGST @ 9 % on Services Charges (INR)				390608.55
8	Grand Total				75122845.05
				Say Rs.	751.23 Lakh

Fund Management:

Expenditure would be met from the funds available with Tribal Area Development (TAD) Dept.

The view of the Committee on the aforesaid proposal is as follows:

- Departmental Team of T.A.D. Dept. may review the Project proposal with Commissioner, Dept. of IT&C and Director (Technical), RajCOMP Info Services Ltd., Principal Secretary, Settlement Dept., and
- Department will Re-submit the proposal accordingly for technical approval of SeMT/ Dept. O IT&C.

10. Project : MIS for Implementation of PESA & FRA Act (By Tribal Area Development Dept.)

The Committee was briefed about the proposal. With the strategic objective to make Tribal Area Department (TAD) department's operations & processes more efficient by making best use of state of art technologies, it is proposed to develop Forest Rights Act (FRA) solution which is a Single Integrated Web Based Management and Monitoring System. It will provide ease of accessing all the forest rights act applications of TAD department and also to provide an online interface to citizens for exchange of information and online services.

Scope of Work (SoW):

The broad scope of the project includes but not limited to Study, Design, Development, Testing, Integration and implementation services under PESA Act and Forest Rights Act (FRA) for six months and thereafter Operations & Maintenance Services for a period of three years which is divided in two phases as follows:

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A. Study, Design and Development Phase:

- (a) Study of existing business processes [AS-IS], Prepare future state of business processes [To-BE] Requirements
- (b) Development and Testing of PESA and FRA implementation modules
- (c) Integration with other applications/ module
- (d) Implementation and Support
- (e) Training and Capacity Building as and when required

B. Operations & Maintenance and Support Phase

Three (3) years operations & maintenance support services will be provided for the developed application and requirement of new development/ enhancement will also be catered during the period.

Financial Implication:

Cost Estimation for Study, Design, Development, Testing, Integration and Implementation of PESA and Forest Rights Act) with O&M period of three (3) years (excluding RISL service charges and GST etc.) is mentioned as below:

S. No.	Phases	All prices in INR					Total
		Year-1		Year-2	Year-3	Year-4	
		Quarter 1 & 2	Quarter 3 & 4	Quarter 5 to 8	Quarter 9 to 12	Quarter 13 & 14	
1	Study, Design & Development	4200000	-	-	-	-	4200000
2	Cloud Services Charges	486000	486000	972000	972000	486000	3402000
3	O & M	-	2850000	5700000	5700000	2850000	17100000
	Total	4686000	3336000	6672000	6672000	3336000	24702000
	Say Rs. (in Lakh) excluding RISL service charges and GST etc.						247.02

Fund Management:

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

Keeping in view of the fact of urgency of work, technical approval has already been accorded by Principal Secretary, IT&C as being the chairman of SeMT.

The Committee accords ex-post-facto technical approval of the project with estimated project cost of Rs. 247.02 Lakh.

- 11. Project :** Procurement of equipment (Computer h/w & allied items) for Augmentation of Capacity of the Harish Chandra Mathur Rajasthan State Institute of Public Administration [HCM-RIPA (OTS)], Jaipur and Regional Centres

The Committee members were informed about the proposal. HCM-RILS (OTS), Jaipur has submitted a proposal to Dept. of Personnel and Training (DoPT), Govt. of India (GoI) for the procurement of computer systems and peripherals along with Integrated Digital Podium for all the class rooms at HCM-RIPA's Regional Centres and three class rooms at Jaipur. DoPT, GoI approved the proposal.

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Scope of Work (SoW):

Proposal submitted to DoPT, GoI was as under:

S.No.	Item Description	Qty.
1	Desktop Computer core i5/ i7 for Jaipur	30
2	Desktop Computer core i5/ i7 for Regional Centres (including Regional Centres)	55
3	Laser Printer (Jaipur – 30, Bikaner – 6, Kota – 6, Jodhpur – 8, Udaipur-10)	60
4	Scanners (Jaipur and Regional Centres)	5
5	MS Office 2019 License (Academic License)	85
6	Integrated Digital Podium (Jaipur – 5, 4 at each Regional Centres) consisting of Podium computer, Projector, Screen, Audio System (Podium Mike, Cord less Mike, Lapel Mike and Speakers)	21

Technical specification suggested by Technical Committee of Dept. of IT&C are attached as Annexure-“D”.

Financial Implication:

(Amount in Rs.)

S. No.	Item Description	Qty.	Estimated Unit Cost	Total Estimated Cost
1	Desktop Computer core i5/i7 for Jaipur	30	50,000	15,00,000
2	Desktop Computer core i5/i7 for Regional Centres (including Regional Centres)	55	50,000	27,50,000
3	Laser Printer (Jaipur – 30, Bikaner – 8, Kota – 6, Jodhpur – 8, Udaipur-10)	60	10,000	6,00,000
4	Scanners (Jaipur and Regional Centres)	5	4,500	22,500
5	MS Office 2019 License (Academic License)	85	4,500	3,82,500
6	Integrated Digital Podium (Jaipur – 5, 4 at each Regional Centres) consisting of Podium computer, Projector, Screen, Audio System (Podium Mike, Cord less Mike, Lapel Mike and Speakers)	21	2,50,000	52,50,000
Total				1,05,05,000

Fund Management:

Expenditure would be met in the ratio of 90:10 by DoPT, GoI and Centre for Management studies, HCM RIPA (Autonomous body in HCM RIPA).

Keeping in view of the fact of urgency of work, technical approval has already been accorded by Principal Secretary, IT&C as being the chairman of SeMT.

The Committee accords ex-post-facto technical approval of the project with estimated project cost of Rs. 105.05 Lakh.

12. Project : Procurement of Hiring Technical Experts' services for 2 years to work on Analytics Stack (By Dept. of IT&C)

The Committee was informed that Dept. of IT&C is equipped with state of the art SAS analytical stack. It has developed and deployed numerous analytical reports across the various state government departments like Commercial Taxation, Transport, Excise, Mining, Registration & Stamps, Police etc. for evidence based decision making and increased tax compliances. Hiring of technical experts' services is intended to work on the existing SAS



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analytical stack on man-month basis to carry out the activities/ work as per the requirements arise time to time.

Scope of Work (SoW):

The major areas, where team would be working on as part of the assignment, are as follows:

1. Operation and Maintenance of data lake on Hadoop cluster
2. Data modelling, designing, coding, testing and deployment of analytical reports for different projects
3. Administration of SAS stack at RSDC.

Current Status:

Currently, a team of 3 experts is deployed to work on SAS analytics stack. Tenure of existing team is going to complete on 18-11-2020.

Project Duration:

Two (2) years from the date of deployment of resources.

Financial Implication:

Indicative cost (incl. of taxes) for a duration of two years is as following:

S. No.	Resource Category	No. of Resource(s)	Estimated Man month Rate	Approx. Cost (INR)
1	Senior Developer	3	3,00,000	216,00,000
2	Developer	4	2,75,000	264,00,000
3	SAS Administrator	1	3,00,000	72,00,000
4	Total Base Cost(1+2+3)			552,00,000
5	GST (@18%) of 4			99,36,000
6	Total Cost (Incl. of Tax) (4+5)			651,36,000
7	RISL Service Charges (as per the RISL order number F1.9 (15)/ RISL/ Misc./11/1408 dated 21.12.2011, Retainer ship category) (@5%)			32,56,800
8	Contingency Fund (@3% of 6)			19,54,080
9	Grand Total (6+7+8)			703,46,880

Out of the cost estimates of Rs. 703.47 Lakhs (approx.) mentioned in the table above, an amount of Rs. 147 Lakhs (approx.) needs to be provisioned in current financial year (i.e. F.Y. 2020-21) and the remaining amount needs can be provisioned in the subsequent year.

Fund Management:

Expenditure would be met from the funds available with Software Development Centre (SwDC) budget head of Dept. of IT&C.

Keeping in view of the fact of urgency of work, technical approval has already been accorded by Principal Secretary, IT&C as being the chairman of SeMT.

The Committee accords ex-post-facto technical approval of the project with estimated project cost of Rs. 703.47 Lakh.



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13. Project : Procurement of Hiring of Technical Experts' services and Annual technical Support (ATS) for 2 years to work on Big Data (By Dept. of IT&C)

The Committee was briefed that Big Data project had been implemented in compliance of the budget speech 2015-16 by Hon'ble Chief Minister of Rajasthan. As per the para 179 of the budget speech, an analytic system using state of the art "Big Data" technique has been developed to increase the efficiency of government department.

In the today's information era, the size of information/data is growing exponentially. Apart from the size of the data sets, the variety of the data which is being generated today from various sources like web, social media, surveillance video logs etc. is quite heterogeneous. The volume and variety of stored data poses the problem of quick retrieval of the desired data from the database. Traditional database management systems often have difficulties in handling the big data.

The environment built using big data technology provides a framework to store the varieties of data which includes text data, image data, and video data to name a few. The stored datasets which are diverse, complex and massive are to be retrieved and processed in tolerable elapsed time. This enables the state government in:

- Collecting and storing the data coming from various projects and various depts.
- Creating a scalable architecture to cater the constantly increasing data traffic.
- Creating a data hub/lake for all kind of data types.
- Processing the diversified data on near real time basis.
- Serving as an in feed for the various already deployed analytics tools like SAS, Qlik sense etc.

Scope of Work (SoW):

The big data system leverages the advanced analytics solutions already available like SAS, Qlik sense etc. The major activities covered under this project are as mentioned below:

- i) Deployment of Hadoop ecosystem & inherent functionalities provided by ecosystem.
- ii) Data management routines/web services to load data from the sources (like relational databases, archived data etc.)
- iii) Crawling of websites and social media sites to obtain relevant information.
- iv) Extraction, transformation and loading process for the data being generated.
- v) Seamlessly integration of data in Hadoop with popular databases like Oracle, MySQL, Microsoft SQL Server, PostgreSQL etc.
- vi) Building a web interface to search data using metadata in Hadoop for end users.

Financials Implication:

Indicative cost for a duration of 2 (Two) years, with breakup, is as follows:

S. No.	Details	Approx. Cost (Rs in Lakh)
1	Technical Experts' Services (Admin, Architect, Developer) – 4 Nos (For 2 Years)	320.00
2	ATS (For 2 Years)	800.00
3	Total Base Cost(1+2)	1120.00
4	GST (@18%) of 3	201.60
5	Total Cost (Incl. of Tax) (4+5)	1321.60
6	RISL Service Charges (as per the RISL order number F1.9 (15)/	91.30

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	RISL/ Misc./ 11/ 1408 dated 21-12-2011, Retainer ship category) (@5%)	
7	Contingency Fund (@2% of 5)	26.43
8	Grand Total (5+6+7)	1439.33

Fund Management:

Expenditure would be met from the funds available with State Data Centre (SDC) budget head of Dept. of IT&C.

Keeping in view of the fact of urgency of work, technical approval has already been accorded by Principal Secretary, IT&C as being the chairman of SeMT.

The Committee accords ex-post-facto technical approval of the project with estimated project cost of Rs. 1439.33 Lakh.

14. Project : Extension of the Project of "Rajasthan Sampark (CM Helpline)" (By Dept. of IT&C)

The Committee members were briefed about the proposal. Rajasthan Sampark (CM Helpline) is a centralized platform for redressal of public grievances implemented in compliance of Budget announcement (Para 190, FY 2014-15) by the Hon'ble Chief Minister. The project paves the way for a common man to reach the departments of the State Government for their queries and concerns, with the help of telecommunication tools and web portal. It also enables the departments to disseminate the information about various schemes and programs being run for the benefit of the citizens.

Rajasthan Sampark (CM Helpline) is strengthened with State level Call Centre which acts as a single point of contact for addressing and redressing various citizen centric queries and grievances related to government services. Citizens can lodge their grievances against any government department/office through multiple modes which include web portal, Rajasthan Sampark (CM Helpline) Call Centre, eMitra Kiosks, Rajasthan Sampark IT Kendras etc.

Rajasthan Sampark (CM Helpline) intends to help the government to achieve important aspects of good governance viz. Robust Delivery System, Transparency, Communication, Grievance Redressal and Sensitivity towards citizens.

Brief Background and Recent Developments:

The Project was approved in 53rd Meeting of SeMT held on 17-10-2014 for the duration 2014-2017. Rajasthan Sampark (CM Helpline) Call Centre has been revamped and grievance redressal mechanism has undergone a major operational changes. A new toll free number 181 was launched by Hon'ble Chief Minister on 15th August 2017 and was subsequently approved in 71st SeMT Meeting held on 20-11-2017 for the next two years till 2019.

Project Duration:

The project duration was initially for 2 years. After completion of two years, further extendable up to next three years i.e. up to 15th August 2022.



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Project Financials:

Indicative cost, with breakup, is as follows:

S.No.	Details	Approx. Cost (Rs. in Lakh)
CAPEX (for 3 years)		
1	Hardware a. Application Server b. Database Server	150.00
2	Software a. Application Development b. Licenses	225.00
	Total CAPEX	375.00
OPEX (for 3 years)		
3	OPEX for Rajasthan Sampark (CM Helpline) Call Centre	6000.00
4	Total Cost of Facilities Management Services: Application software/ Change request	300.00
5	Operational expenses (Like Capacity building & Trainings Logistic arrangements, Communication Charges, IEC and other miscellaneous expenditure)	1600.00
6	Contingency Fund	100.00
	Total OPEX	8000.00
	Project Cost for 3 years (CAPEX + OPEX)	8375.00

Fund Management:

Efforts of managing funds required under different components of CAPEX and OPEX may also be made out from the other projects' head having similar nature/ scope of work like RSDC and other e-Governance projects.

The fund requirement for the CFY (2020-21) is Rs 2800.00 Lakhs. The fund required for execution of Rajasthan Sampark (CM Helpline) project is proposed to be availed from State IT plan.

The Committee accords ex-post-facto technical approval of the project [for the year 2019-20 and subsequent technical approval for next two years (2020-21 & 2021-22)] with estimated project cost of Rs. 8375.00 Lakhs.

15. Project : Mass Media Network Platform Management (RajConnect) Project (By Dept. of IT&C)

The Committee members were briefed about the intension of Government of Rajasthan as to draw advantages from the Digital Mass Media Network Platforms which are technology driven and popular among the masses to communicate instantly and directly with the people of the State in a highly effective and transparent manner.

These platforms help in making networking and engagement with the public simple and powerful. It also helps in making faster research, providing mechanisms for understanding sentiments, quick communications at the times of crisis and measurement of public sentiment to help in forming the public policy.

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Scope of Work:

A. Presence on various Platforms and Digital Response Management:

To disseminate information of the government functioning, schemes, projects of the various departments, it is pertinent to create continuous, effective and engaging digital contents and to establish a-connect with different segments of people through multiple accounts and handles.

B. Professional promotional Video Creation and Production:

Professional promotional Videos would have to be created on the theme/ scheme etc as decided by the Department. The scope of work includes pre-production, post-production, concept, research, script writing, casting(non-celebrity), cinematography/ shooting, editing, hiring/ purchase of camera/ lights/ props/ costumes/ other equipment, hiring of the crew/ production assistants, travel/ boarding/ lodging etc. of manpower, etc. animations, music & voice over, etc. for producing and delivering the requisite Promotional Videos.

C. Software (Annual Subscriptions) :

To ensure updates, media tracking, Industry-Standard Social Media Management Tool(s), Listening/ Monitoring/ Analytical tools like Meltwater, Hoot Suite, Sprinkler etc., and subscriptions/ licenses of Image libraries like Shutter stock etc.

D. Miscellaneous Charges (Training, Admin, Rent etc.):

To provide training to respective stockholders/ Departments on Digital Outreach Program and to ensure smooth coverage of the events across the state, equipment's on rent, logistic arrangements, trainings, workshops would have to be made at the event locations.

E. Media Listening and Public Outreach to the last minute:

To maximize the outreach, strategy and planning has to be made to ensure the maximum outreach to the target audience. Each activity involves different strategy/ target audience.

It involves handling and managing accounts, including – creating content such as articles, graphics or videos and posting. Thematic Campaigns would be organized.

F. Capital Expenditure on IT infrastructure, furniture & civil works:

The team deployed would have to be equipped with the latest specification Laptop(s)/ Desktop(s), High end computing machines, mobiles, tablets necessary peripherals, printer, scanner, printing material, cameras, video cameras, iPad, Mobile streaming equipment's, mobile and fixed internet facility, etc. for efficient conduction of the tasks.

G. Financial Implication:

Summary of the estimated project cost is as follows:

S. No.	Subject	Annual Amount	Total Amount for three (3) years
A	Account Handling & Management, Software Subscriptions etc.	100000000	300000000
B	Video creation and production	32000000	96000000
C	Miscellaneous Charges (Training, Admin, Rent etc.)	17000000	51000000
D	Capital Expenditure on IT infrastructure, furniture and civil works	5000000	5000000
	TOTAL	154000000	452000000

For

H. Fund Management:

Expenditure would be met from the funds available under the Budget Head of "Social Media (Raj-connect)" of Dept. of IT&C.

The Committee accords technical approval of the project with estimated project cost of Rs. 4520.00 Lakh.

16. Project : Jan Aadhaar Project (By Planning Dept.)

The Committee was briefed about the project proposal. It has been formulated in compliance to the Budget Announcement made by Hon'ble CM's Modified Budget Announcement No. 141 for the financial year 2019-20. Verbatim of the same is as follows:

141- विभिन्न योजनाओं के लाभ सरलता, सुगमता एवं पारदर्शी रूप से आमजन तक पहुंचाने के उद्देश्य से 'एक नम्बर, एक कार्ड, एक पहचान' की विचारधारा के प्रभावी क्रियान्वयन के लिए मैं 'राजस्थान जन-आधार योजना' लाये जाने की घोषणा करता हूँ। इस योजना के क्रियान्वयन के लिए एक स्वतंत्र प्राधिकरण का गठन किया जायेगा। ई-मित्र परियोजना को भी इस प्राधिकरण के अधीन लाया जायेगा।

Scope of Work:

As per the modified budget announcement of 2019-20 Government of Rajasthan (GoR) wishes to implement Rajasthan Jan Aadhaar Yojana in the State Government with following vision: The Rajasthan Jan Aadhaar Yojana has been brought to actualize the concept of "One Number, One Card, One Identity" for providing benefits of various schemes to citizen with Simplicity, Ease and Transparent manner. The Government entitlements of family welfare schemes would be disbursed to the citizens through the Rajasthan Jan Aadhaar Card. Rajasthan Jan Aadhaar Yojana also aims to women empowerment and financial inclusion.

Rajasthan Government envisaged to build an independent authority for the effective implementation of the Rajasthan Jan Aadhaar Yojana and eMitra project will also be brought under the authority.

Every resident family of the State, through its head or through any eldest or adult member of family may enrolled under Rajasthan Jan Aadhaar Yojana, by submitting identity information and photograph of all its members. After verification of the information a unique Jan Aadhaar Number will be assigned to the family.

Jan Aadhaar Card will be distributed to the family after successful generation of Jan Aadhaar Number. Jan Aadhaar e-card with QR code will also be created for the families along with the Jan Aadhaar Card. A database of all the Jan-Aadhaar card holders will be created and maintained as the Jan-Aadhaar Resident Data Repository.

Following major activities will be covered under the Rajasthan Jan Aadhaar Yojana:-

1. Enrolment of Citizens
2. Card Printing and Distribution
3. Creation & Maintenance of Jan Aadhaar Resident Data Repository
4. Integration of DBT Schemes with Jan Aadhaar Platform
5. DBT Engine
6. Social Audit

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7. Analytics
8. Mobile App (Android/iOS)

The enrolment under Rajasthan Jan Aadhaar Yojana would be done at the administered rates duly approved by the Government.

Financial Implication:

Following are the major items under Rajasthan Jan Aadhaar Yojana along with financial implication for the next five years as mentioned below:

(Rs. in Lakh)

Particular	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Total
Jan Aadhaar Application Web Portal & Jan Aadhaar Resident Data Repository		1000	250	250	250	250	2000
Enrolment Under Rajasthan Jan Aadhaar Yojana	390	663	663	663	661	660	3700
Jan Aadhaar Card Printing & Distribution	3480	304	304	304	304	304	5000
Maintenance of Jan Aadhaar Resident Data Repository, hardware, system software, licences etc.		500	1400	900	600	600	4000
Training/ Stationery/ Vehicle/ Consultancy Services/ Audit etc.		100	100	100	100	100	500
Contingency				200			200
Sub Total							15400
RISL Service Charge							1104.48
Total							16505.00

Fund Management:

Expenditure would be met from the fund provided under "Rajasthan Jan Aadhaar Yojana" by Planning Department.

The Committee accords technical approval for the project for having total estimated of Rs. 16,505.00 Lakh.

17. Project : Extension of Unified Communication Gateway (e-Sanchar 2.0) project (By Dept. of IT&C)

The Committee was briefed about the project proposal and its extension for next one (1) years. e-Sanchar (previous version) was initiated in year 2009-10 during the "100 Days"



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program of the then Government. The objective of this project was to send a voice message over mobile phone for the pension dissemination of old age, widow and physically handicapped social pensioners. A pilot project was implemented in Shahpura sub-treasury of Jaipur district. After successful pilot phase, it rolled out to the all sub-treasuries of Jaipur district.

In year 2012, an enhanced version of this project was built with name **"e-Sanchar & i-Facts"** with addition to an extra module: i-Facts. This i-Facts module was meant for conducting surveys for various citizen centric services using the IVRS technology. Cost of this project was 49.00 lacs approved by SeMT.

In the year 2016, the new version of the project **"e-Sanchar & i-Facts"** was envisaged with a broader scope and capacity with additional set of communication channels. The new project was named as **"Unified Communication Gateway (e-Sanchar 2.0)"**.

In the sixty-first meeting of SeMT which was held under the chairmanship of Secretary, IT&C on 14th July 2016 at 11:30 AM in IT Building, Yojana Bhawan, Jaipur, an approval for the project Unified Communication Gateway (e-Sanchar 2.0) was granted with an estimated cost of Rs. 4,122.63 lacs. The expenditure was planned from State IT Plan.

The scope of the project was included with a solution development and a FMS of 24-month post go-live of the solution.

The work order was issued to firm M/s Servion T Global Solutions Ltd. on 17.09.2017 after a least cost based open tender process.

A partial sign-off was awarded to the project for the hardware and software licenses and contact centre module. Operation and maintenance phase was considered as started for these components w.e.f. 01.08.2018.

For rest of the items, the sign-off and go-live was issued later and support for them was considered to be started w.e.f. 20.09.2019.

The 2-year period of Operation & Maintenance phase is going to be completed on 31.07.2020.

Project Objectives:

The project Unified Communication Gateway (e-Sanchar 2.0) is aimed to provide a centralized communication platform for all e-Governance applications with a number of communication channels and modes to communicate and interact with the citizens.

It is an enhanced version of the previous project e-Sanchar which was implemented and executed by RISL. The old e-Sanchar project was intended to provide a voice call based messaging service and an IVRS based survey tool to the e-Governance applications. The voice call feature was used to make a call to the citizen and pronounce the desired message in a user friendly language over the call. The feature was useful for the rural and old aged citizens who are not comfortable with the messages conveyed via SMS in English language.

The Survey feature was used to get the feedbacks directly from the citizens about any government service/scheme through an easy to use IVRS based survey.

The new enhanced version of old e-Sanchar is more advanced than the previous version in terms of communication channel sets and the capacity. Following are the modules/components of the e-Sanchar project:



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1. **PUSH SMS Module:** allows the applications to send SMSs to the citizens and service consumers. It provides the APIs for integration to the applications to consume the service.
2. **PULL SMS Module:** allows to receive an SMS from the citizens and submits it to the respective application for further action/process.
3. **Outbound Voice Call:** Allows to send a voice call message to the citizen with both the Text to Speech from a text message and recorded voice file.
4. **Outbound IVRS System:** Allows to define a hierarchical questionnaire based survey and schedule the survey calls to a number of contacts. Contacts can also be imported from Bhamashah. It allows to citizens to answer in both the ways: by pressing corresponding digit key on phone keypad or by verbal input based upon the survey configuration. After gathering the inputs from citizens, it provides the feedback report in various formats.
5. **Incoming IVRS System:** Allows to define an IVRS menu to be bind to an incoming calling channel to provide a self-help menu for various services to the citizens.
6. **Voice Transcription:** Allows to convert the recorded voice files into corresponding text data. Presently being used to transcribe the Contact Centre recordings.
7. **Contact Centre Module:** Provides the base software infrastructure to the Citizen Contact Centre at toll free number 1800-180-6127

Project Duration:

The project duration was included a 2 years of operation & maintenance phase after the implementation. As per the project RFP, the support period can be extended further for 2 more years on the quoted rates by the selected SI for the same.

Financials Implications:

The indicative cost for the project execution for next one year, with breakup, is as follows:

S. No.	Details	Approx. Cost (Rs. in Lakh)
1.	Operation Support and Maintenance along with ATS of the products and AMC for the specific hardware provisioned by the Bidder for one (1) year	490.00
2.	Transaction cost for SMS service	500.00
3.	Transaction cost for outbound dialling through ISDN PRI Lines	50.00
4.	Total	1040.00
5.	RISL Service Charges on S. No. 5	62.40
6.	GST on RISL Service Charges	11.23
7.	Total	1,113.63

Fund Management:

The expenditure would be met from the funds available under State IT Plan.

The Committee accords technical approval of the project (for next one year 2020-21) with estimated project cost of Rs. 1,113.63 Lakh.

Meeting ended with a vote of thanks to the chair.

This bears the approval of competent level.


(B.S. Nathawat)

Tech. Director & Jt. Secretary, IT&C

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Copy for information and necessary action to:

1. P.S. to Addl. Chief Secretary, Tribal Area Development (TAD) Dept., Raj., Jaipur
2. P.S. to Addl. Chief Secretary, Finance Department, Rajasthan, Jaipur
3. P.S. to Addl. Chief Secretary, Rural Development & Panchayati Raj, Rajasthan, Jaipur
4. P.S. to Chairman, Board of Revenue, Raj., Ajmer
5. P.S. to Secretary, Planning Department, Rajasthan, Jaipur
6. P.S. to Principal Secretary, Dept. of IT&C, Rajasthan, Jaipur
7. P.S. to Director General, HCM-RIPA (OTS), Jaipur
8. P.S. to Principal Secretary, Revenue Dept., Rajasthan, Jaipur
9. P.S. to Principal Secretary, Energy Department, Rajasthan, Jaipur
10. P.S. to Chairman & Managing Director, Raj. State Vidyut Prasaran Nigam Ltd., Jaipur
11. P.S. to Secretary, Women & Child Development (WCD) Dept., Raj., Jaipur
12. P.S. to Secretary, Employment, Skill & Entrepreneurship Dept., Raj., Jaipur
13. P.S. to Commissioner & Special Secretary, Dept. of IT&C, Rajasthan, Jaipur
14. P.A. to Joint Secretary (Expenditure-III), Finance Department, Raj., Jaipur
15. P.S. to Commissioner, Tribal Area Development (TAD) Dept., Udaipur
16. P.A. to Director, Integrated Child Development Services (I.C.D.S.), Raj., Jaipur
17. P.S. to Commissioner, Settlement Commissionerate, Raj., Jaipur
18. A.P.S. to Director (Technical), RajCOMP Info Services Ltd. (RISL), Jaipur
19. P.S. to Commissioner, Watershed Development & Soil Conservation, Jaipur
20. P.S. to Director, Skill, Employment & Entrepreneurship, Rajasthan, Jaipur
21. Financial Advisor, Dept. of IT&C, Jaipur
22. Shri Arun Chauhan, Technical Director, Dept. of IT&C, Jaipur
23. Shri Ramesh Chand Sharma, Additional Director, Dept. of IT&C, Jaipur
24. DDG & SIO, NIC, Rajasthan, Jaipur
25. Shri R.K. Jain, Chief Engineer (IT), RVPNL, Jaipur
26. Superintending Engineer (MIS&IT), RVPNL, Jaipur
27. Shri Manish Athaiya, Executive Engineer (MIS&IT), RVPNL, Jaipur
28. Smt. Sushila Yadav, Joint Director (PFC&GIS), Watershed Development & Soil Conservation Dept., Rajasthan, Jaipur.
29. Shri G.K. Sharma, GM (Technical), RajCOMP Info Services Ltd. (RISL), Jaipur
30. Shri Giriraj Kumar Katheeria, S.A. (Joint Director), DoIT&C-District Office, Chittorgarh
31. Shri Rohitashwa Kumar Meena, S.A. (Joint Director), Transport Dept., Raj., Jaipur
32. Shri Pawan Kumar Jangid, A.C.P. (Dy. Director), Dept. of IT&C-HQ, Jaipur
33. Shri Dheeraj Gaur, A.C.P. (Dy. Director), Dept. of IT&C-HQ, Jaipur
34. Shri Pradeep Kumar Sharma, A.C.P. (Dy. Director), Dept. of IT&C-HQ, Jaipur
35. Shri Mukesh Kumar Sharma, A.C.P. (Dy. Director), Dept. of IT&C-HQ, Jaipur
36. Shri Umesh Chand Joshi, A.C.P. (Dy. Director), Dept. of IT&C-HQ, Jaipur
37. Shri Kamlesh Kumar Sharma, A.C.P. (Dy. Dir.), HCM-RIPA (OTS), Jaipur
38. Shri Ratan Lal, A.C.P. (Dy. Director), Dept. of IT&C-HQ, Jaipur
39. Shri Sourabh Bamnia, A.C.P. (Dy. Dir.), Board of Revenue, Rajasthan, Ajmer
40. Shri Manoj Maheshwari, A.C.P. (Dy. Dir.), Women & Child Development Dept., Jaipur
41. Shri Shashi Jain, Asst. Settlement Officer, Settlement Dept., Rajasthan, Jaipur
42. Director, LNMIIT, Jaipur
43. Guard File.


(B.S. Nathawat)

Tech. Director & Jt. Secretary, IT&C

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Annexure-"A"

80th Meeting of SeMT held through Video Conferencing – List of Attendees

1.	Shri Abhay Kumar	Principal Secretary, IT&C, Rajasthan, Jaipur
2.	Shri Krishna Kant Pathak	Secretary, Women & Child Development Dept., Jaipur
3.	Shri Virendra Singh	Comm. & Spl. Secretary, Dept. of IT&C, Jaipur
4.	Smt. Pratibha Singh	Director, ICDS, Jaipur
5.	Shri Vishwa Mohan Sharma	Commissioner, Settlement Dept., Jaipur
6.	Shri Abhimanyu Kumar	Director (Technical), RajCOMP Info Service Ltd., Jaipur
7.	Shri Sanwar Mal	Finance Advisor, Dept. of IT&C, Jaipur
8.	Shri B.S. Nathawat	Tech. Director & Joint Secretary, Dept. of IT&C, Jaipur
9.	Shri Tarun Toshniwal	DDG & SIO, NIC-Rajasthan, Jaipur
10.	Shri Vinesh Singhvi	OSD (Plan), Planning Dept., Jaipur
11.	Shri Arun Chouhan	Technical Director, Dept. of IT&C, Jaipur
12.	Shri R. Vardharajan	Additional Director, Board of Revenue, Ajmer
13.	Shri Rakesh Singhal	HCM-RIPA, OTS, Jaipur
14.	Shri Sushil Parihar	Additional Director, Dept. of IT&C, Jaipur
15.	Shri Ramesh Chand Sharma	Additional Director, Dept. of IT&C, Jaipur
16.	Shri R.K. Jain	Chief Engineer (IT), RVPNL, Jaipur
17.	Shri A.K. Gupta	Superintending Engineer (MIS&IT), RVPNL, Jaipur
18.	Shri Manish Athaiya	Executive Engineer (MIS&IT), RVPNL, Jaipur
19.	Shri G.K. Sharma	General Manager (T), RISL, Jaipur
20.	Shri Girraj Kr. Kateria	S.A. (Jt. Dir.), Tribal Area Development Dept., Udaipur
21.	Shri Dheeraj Gaur	A.C.P. (Dy. Director), Department of IT&C, Jaipur
22.	Shri Pradeep Kr. Sharma	A.C.P. (Dy. Director), Department of IT&C, Jaipur
23.	Shri Mukesh Kr. Sharma	A.C.P. (Dy. Director), Department of IT&C, Jaipur
24.	Shri Umesh Chand Joshi	A.C.P. (Dy. Director), Department of IT&C, Jaipur
25.	Shri Rohitashwa Kr. Meena	System Analyst (Joint Director), Transport Dept., Jaipur
26.	Shri Rajkumar Singh	A.C.P. (Dy. Director), Department of IT&C, Jaipur
27.	Prof. Rahul Banerjee	Special Invitee: Director, LNMIIT, Jaipur
28.	Dr. Shashi Jain	Assistant Settlement Officer, Settlement Dept., Jaipur
29.	Shri Anil Kumar Goyal	Programmer, Tribal Area Development Dept. Jaipur
30.	Shri Nikhil Meena	Asst. Programmer, DoIT&C, Jaipur
31.	Ms. Garima Yadav	Informatics Assistant, DoIT&C, Jaipur

For

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Annexure-"B"

Technical specification suggested by Technical Committee of Dept. of IT&C for IT- Strengthen the GIS Lab in Settlement Commissionerate

S.No.	Description	Unit cost	Qty.	Configuration	Specification
1	HARDWARE Dual-Processor (Servers-OS) 64GB RAM	3.00	1	Operating System	Server 2019 Windows
				Processor	Xeon Processor i7 or better
				RAM	64 GB or Better
				Hard Drive	2*2 TB SATA Hot swap
				SMPS	500 W *2
				USB Ports	8 USB 3.0 or better
				External Ports	1 Audio-in; 1 Audio-out; USB keyboard port; 1 USB mouse port; 1 serial; 2 RJ-45(1 GbE);6USB 3.1 Gen 1
				Warranty	3 year Comprehensive warranty
2	NAS (Data storage, retrieval servers) 30 TB	4.00	1		6 bay with 5*10 raid HDD with 12 GBPS data transfer speed. 3 year Comprehensive warranty
3	WORKSTATION, INTEL XEON BRONZE, 32GB RAM, 256GB TURBOSSD, 1TB, WITH 24" LED Monitor	2.00	10	Operating System	Windows 10 pro 64 With MS Office 2019 Pro plus
				Processor	Core i7(Xeon Bronze)
				RAM	32 GB DDR4 or Better
				Hard Drive	256 GB SSD; 1 TB 7200 rpm SATA
				External Drive Bays	Two 5.25"
				Internal Drive Bays	Two 6.35 cm(2.5) or 8.89 cm(3.5)
				Graphics Card	6 GB
				USB Ports	6 USB 3.1 and 2 USB 2.0
4	Photogrammetric Hardware of Suite	0.5	2	3D Monitor	
				Screen Size	27 Inches or more
				Display Resolution	1920 x 1080 (Full HD) or more
				Item Weight	4-6 kg
		0.4	1	3D Vision	
5.	U.P.S. 5 KVA (online)	1.3	1	3D Mouse	
				Rating and Technology	5. 0 KVA and Inbuilt Isolation transformer
				Input power	Single Phase
				Output power	Single Phase
				Minimum VAH	5000
				Back up	30 minutes or more
				UPS warranty	24 months
				Battery warranty	12 months
				Cable for input and output	minimum 5 Mtr.
				Battery Rack	with Rack
				Warranty	24 Months
				Installation and Commissioning	Yes

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6	Multi-functional Plotter & Scanner	10	1	Type	Multifunction Wide format Printer
				Printing Technology	Inkjet
				Type of Printing	Color
				Size	44" or Better
				Printing Speed (Prints Per Minute)	1A0
				Printing Resolution (Dpi)	2400 x 1200 or Better
				Memory (MB)	4096 or Better
				Hard Disk (GB)	500 or Better
				Scan Speed @minimum 200ppi (mm/ sec)	152 Color & 330 B/W or Better
				Scanning Resolution (Dpi)	1200 or Better
				On site OEM Warranty (Year)	1 Comprehensive
7	A4 B&W laser MFP	0.2	2	Cartridge Technology	Separate toner and drum
				Printing Technology	Laser
				Type of Printing	Mono
				Paper Size	A4
				Print Speed per minute	Mono34 or Better
				Duplexing Feature	Yes
				Number of Main Paper Trays	1
				Bypass Tray Facility	Yes
				On site OEM warranty (Year)	1 Comprehensive
8	A3 Laser Color	1	1	Cartridge Technology	Separate toner and drum
				Printing Technology	Laser
				Type of Printing	Color
				Paper Size	A3
				Print Speed per minute	30 or Better
				Duplexing Feature	Yes
				Wireless Connectivity	No
				Number of Main Paper Trays	2
				Bypass Tray Facility	Yes
				On site OEM warranty (Year)	1 Comprehensive
9	Laptop	0.75	4	Operating System	Winnows 10 pro 64 With MS Office 2019 Pro plus
				Processor	Core i7
				RAM	16 GB Or Better
				Hard Drive	256 GB SSD; 1 TB 5400 rpm SATA or Better
				Internal Drive Bays	One
				Graphics Card	4 GB
				USB Ports	4 USB 3.0 and 2.0
				Warranty	3 year Comprehensive warranty

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10	Steel Almira	0.15	4	No. of Shelves	4
				Locker Provided	Yes
				Locking system with the locker	Yes
				No. of doors	2
				Lock	6 lever
				Material	M S Sheet
				Finish	Powder Coated
				Thickness of sheet	minimum 0.8 mm
11	Revolving chair	0.05	10	Pedestal Base	Chrome finish with 5 wheels
				Arm Material	Propylene
				Seat material	PU foam covered with mesh fabric
				Material of Fabric Back Cover/ Material for Backrest	Mesh fabric
				Material of Fabric of Seat Cover	Mesh Fabrics
				Chair Type	360 degree swivel with synchro adjustment
				Height Adjustment ± 5 (mm)	up to 90 mm
				Type of backrest support	backrest symmetrical lumber support
				Arm Type	Fixed
12	Computer Table	0.06	10	Material of table top, keyboard and drawer	Wood
				Gable end and Modesty panel material	Teak wood
				Leg	Yes
				Length of table in mm (± 15 mm)	1220 millimetre
				Depth of table in mm (± 10 mm)	610 millimetre Or Better
				Height of table in mm (± 10 mm)	900 millimetre Or Better
				Type of keyboard tray	MDF board keyboard tray
				footrest	Yes
				(B) Software	
1	Photogrammetric Software	28	1	Photogrammetry	
				Type of platform	Desktop based
				Geocoding capability	Yes
				Image Exporting capability	Yes
				Image Management Capability	Yes
				Interoperability capability/ OGC	Yes
				Spatial Analysis capability	Yes
				No. of Training days	5 days

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				No. of warranty/ support available from OEM years	1
			1	Terrain Editor	
				Type of platform	Desktop based
				Geocoding capability	Yes
				Image Exporting capability	Yes
				Image Management Capability	Yes
				Interoperability capability/OGC	Yes
				Spatial Analysis capability	Yes
2	CAD Mapping Software	1	13	Software Domain/ Type	Architectural, electrical, mechanical, Perpetual
				2D Drawing	Yes
				3D Modelling	Yes
				Fastening Systems	Yes
				Large Assembly Design	Yes
				No of warranty/ support available from OEM years	1
3	Antivirus	0.01	15	Sub-Category	Stand alone
				Intrusion Detection System (IDS)/ Intrusion Prevention System (IPS)	Yes
				Data Protection	Yes
				Cloud Protection	Yes
				Network Threat Protection	Yes
				Free Secure Cloud backup space	Yes
				Installation and Demonstration	Yes

Observations of the Technical Committee, Dept. of IT&C:

1. State-wide unified GIS Infrastructure has already been placed in RSDC and the same may be utilized for hosting all GIS Data and application of the State. This will also comply the circular issued earlier on 24-11-2014 by Chief Secretary, Rajasthan.
2. In accordance with circular, all GIS data like Khasra, Village, Panchayat Samiti, Block, District boundaries etc. being created by Settlement department should be hosted on RajDhara platform.
3. All such GIS layers hosted on RajDhara platform should be updated regularly by Settlement Dept. as well as GIS Base should also be got updated using such layers.
4. DoIT&C would publish the data for consumption of the same in various GIS applications of the State as per prevailing policies/ practices. Settlement Department will provide approvals to Dept. of IT&C for sharing data policy for the data provided by them to share with other departments.

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5. Settlement dept. shall utilize services/ APIs from RajDhara for viewing/ updating GIS data through GIS based web/ mobile app.
6. Dept. should coordinate with respective agencies for integration of GIS data with available land records.

Views/ Suggestions of the Technical Committee, Dept. of IT&C:

1. Item No. 1 and 3 should preferably be Xeon (Bronze) based workstation with at-least 256 GB RAM and 64 GB RAM respectively instead of Intel i7.
2. The expected nature of work in proposal, GIS Cell of Dept. of IT&C is more pertaining to data file management not related to DBMS like activities which attract block read/ write. Therefore, NAS is more appropriate storage equipment for GIS Cell of Dept. of IT&C. Settlement Dept. is required to do accordingly.
3. While option NAS, there seems to be no need to separate file server. NAS may be procured having integrated file server functionalities.
4. Since, satellite imagery may need medium/ high computing infrastructure, Settlement Dept. may take two work stations with 256 GB RAM and with appropriate Graphic Card.
5. The Department has proposed two (2) 3D Monitors which could be attached to two (2) workstations. Therefore, appropriate number of monitors should only be proposed with remaining workstations.
6. For the purpose of data creation/ checking/ monitoring of the work, Settlement Dept. may establish GIS Lab in their premises in view of the observations and suggestions recommended by Technical Committee of Dept. of IT&C.
7. The Committee possess the view to advise the execution of the proposal through RISL considering the nature of work and its compatibility with RajDhara Platform.



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Annexure-"C"

Technical specification suggested by Technical Committee of Dept. of IT&C for **Procurement of Computer Hardware and allied items for Revenue Board, Ajmer**

1. Desktop Computer

Item	Technical Specifications
Processor	Intel i5/ AMD Ryzen-5 (9th Generation/equivalent AMD) 6 core, with minimum 2.9 GHZ or higher (Base Frequency), 9 MB Cache or higher
Chipset	Compatible Intel/AMD chipset
Operating System	Windows 10 Professional 64 bit preloaded with OEM recovery partition/ Recovery DVD
Graphics	Integrated/Discrete Graphic card
Memory	8GB DDR4 2666MHz or higher
Storage	1 TB 7200 RPM SATA Drive
Ports	Minimum 6 USB ports out of which Min 2 USB 3.0 OR higher, 1-Display Port/ HDMI, audio jack for headphone & mic
Display	Minimum 19.0" inch or higher HD plus (Resolution 1600x900) or higher Display, TCO Certified
Warranty	3 years comprehensive on site OEM warranty from date of installation
Antivirus	Preloaded (Latest version) Internet Security of Trend Micro/ Symantec/ Sophos/ Kaspersky with 3 years Subscription
Certification	ROHS Compliance, BEE/ Energy Star certified, EPEAT Registered in India
Keyboard & Mouse	OEM USB Keyboard & OEM USB Mouse with pad
Network interface	Integrated 10/100/1000
Office	Open office updated version (freeware)
Accessories	All necessary cables (Power & data cables) to be included

2. Mono Laser Printer

Item	Technical Specification
Printer Type	Laser
Print Speed	20 ppm or higher
Print Resolution	600*600 dpi
Input tray	200 or higher
Memory	Min 64 MB
Connectivity	USB, Ethernet
Duplex	Auto

3. UPS (1.0 KVA)

Item	Technical Specification
UPS Capacity	1 KVA
Warranty	3 years comprehensive on site OEM warranty from date of installation excluding Battery
Protection	Full protection
Certifications	BIS certification for the quoted model
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	Minimum 30 Minutes with Minimum 9 AH or higher 12 V battery (SMF) time to meet backup time
Test report	OEM should submit test report for the quoted model issued by State/ Central Laboratory (not old from last 5 years)

4. Bar Code Scanner

Item	Technical Specification
Bar Code Scanner	Hand held Type with trigger to switch on light source 610-640 nm visible red LED with focus light bar, scan 300 read sec or above, Working distance 12" beep and LED indicator, connectivity using USB interface power.

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Annexure-"D"

Technical specification suggested by Technical Committee of Dept. of IT&C for **Procurement of equipment (Computer h/w & allied items) for Augmentation of Capacity of the HCM-RIPA (OTS), Jaipur and Regional Centers**

1. Desktop Computer:

Item	Minimum Technical Specifications
Processor	Intel i5/ AMD Ryzen-5 (9th Generation/equivalent AMD) 6 core, with minimum 2.9 GHZ or higher (Base Frequency), 9 MB Cache or higher
Chipset	Compatible Intel/AMD chipset
Operating System	Windows 10 Professional 64 bit preloaded with OEM recovery partition/Recovery DVD
Graphics	Integrated/Discrete Graphic card
Memory	8GB DDR4 2666MHz or higher
Storage	1 TB 7200 RPM SATA Drive
Ports	Minimum 6 USB ports out of which Min 2 USB 3.0 OR higher, 1-Display Port/ HDMI, audio jack for headphone & mic
Display	HD plus (Resolution 1600x900) or higher Display, TCO Certified
Warranty	3 years comprehensive on site OEM warranty from date of installation
Antivirus	Preloaded (Latest version) Internet Security of Trend Micro/ Quick Heal/ Symantec/ Sophos/ Kaspersky with 3 years Subscription
Certification	ROHS Compliance, BEE/ Energy Star certified, EPEAT Registered in India
Keyboard & Mouse	OEM USB Keyboard & OEM USB Mouse with pad
Network interface	Integrated 10/100/1000
Office	Open office updated version (freeware)
Accessories	All necessary cables (Power & data cables) to be included

2. Laser Jet Printer:

Item	Minimum Technical Specifications
Print Technology	Monochrome laser
Print speed	18 ppm or more
Print quality black	Up to 600 x 600 dpi
Duty cycle (monthly, A4)	8000 pages or higher
Port	1 USB
Duplex Printing	Yes
Print Language	Host based Printing
Voltage Rating	220 to 240V AC(+/- 10%), 50 Hz (+/- 2 Hz)
Compatible operating systems	Windows 7, 8, 10 (32 bit/64 bit), Linux, Mac OS.
Software media	Driver & utility software CD/DVD
Warranty	3 years comprehensive on-site OEM warranty from date of installation

3. Scanner:

Item	Recommendation of Technical Specifications by Technical Committee, Dept. of IT&C
Type	Flat bed with ADF
Scan Resolution, optical	600 dpi or more
Scan file format	PDF, JPEG, TIFF, BMP etc.

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Item	Recommendation of Technical Specifications by Technical
Media size supported	At least A4, A5, Legal through ADF
Features	Single Pass Duplex scanning
Automatic document feeder speed	20 ppm or more (Black & White, Grayscale and Colour)
Duty Cycle	Minimum 500 per day
Automatic document feeder capacity	50 or more
Compatible operating systems	Windows 7, 8, 10 or higher
Connectivity, standard	USB
Software media	Driver & Utility software CD/DVD
Warranty	5 years comprehensive on site OEM warranty from date of installation

4. Microsoft Office Professional License:

Item	Specifications proposed by HCM-RIPA	Minimum Tech Specs suggested by T.C.
Microsoft Office Professional License	Academic Version (Office 365/ Office 2019 or latest)	Academic Version (Office 365/ Office 2019 or latest)

5. Integrated Digital Podium

Technical Committee is of the view that Integrated Digital Podium is an AV Equipment; its technical specification can be tailor-made as per the requirements and usability of HCM-RIPA, therefore, these may be finalized by HCM-RIPA at its own level.

End of Document

