

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

No. F.7 (37)/ DoIT&amp;C/ 2022/07579/2022

Dated: 03/11/2022

**Minutes of 94<sup>th</sup> meeting of SeMT dated 21-10-2022**

The 94<sup>th</sup> meeting of the State e-Governance Mission Team (SeMT) was held under the Chairmanship of Principal Secretary, IT&C on 21<sup>st</sup> October, 2022 in Committee Room No.1 (CR-1) of Main Building, Secretariat, Jaipur. List of participants is enclosed at **Annexure - "A"**

Agenda Item(s) discussed during 94<sup>th</sup> meeting of SeMT are indexed as follows:

SNo	Name of Project	Dept.	Estimated Cost	Page No.
1	State Level Agency (SLA) for providing technical support to Election Dept., Govt. of Rajasthan, in preparation of Electoral Rolls of all 200-Assembly Constituencies of the State (for 2 years)	Election Dept.	Rs. 60.00 Lakh	3
2	Development of New pension application S/w along with its hosting (for 5 years)	RVPNL/ Energy Dept.	Rs. 103.10 Lakh	4
3	Procurement of IT hardware i.e., Desktop Computers (All-in-One), Laptops, Printers, MFP, Color printers, UPS, Scanners etc. with 5 years support services.	RVPNL/ Energy Dept.	Rs. 360.00 Lakh	5
4	Procurement of 500 Laptops for 500 new Health & Wellness centers developed across the State under Ayushman Bharat Yojana of GoI	Directorate of Ayurved, Ajmer	Rs. 233.05 Lakh	5-6
5	Procurement of Computer Hardware & Allied Item for Water Resources Dept. (WRD)	WRD	Rs. 198.53 Lakh	6-7
6	<b>Hiring of Manpower for -</b> (a) PMU (Technical), (b) PMU (Management), (c) SAS Developer, <b>and</b> (d) Procurement of Computer H/w & Allied Items for HQ & District Offices of Social Justice & Empowerment Dept. (SJED)	SJED	Rs. 595.00 Lakh	7-10
7	Procurement of Computer Hardware	Law (Litigation) Dept.	Rs. 97.30 Lakh	10
8	Procurement of Computer Hardware & Allied Items (for 1 <sup>st</sup> phase)	Collectorate, Jaipur	Rs. 50.00 Lakh	11
9	Procurement of Computer Hardware & Allied Items and Hiring of Manpower for Implementation of Integrated IHMS	Dept. of IT&C/ RISL	Rs. 2231.66 Lakh	11-13
10	Abhay Command & Control Centre	DoIT&C/ RISL	Rs. 80674.00 Lakh	14-16
11	<b>RajNET project</b> for components as mentioned below at Point (a) to (f) for collective estimated cost of Rs. 83800.00 Lakh			16-20
a)	Rate Contract of Network Equipment & LAN Infra under RajNET Project (for 2 years)	Dept. of IT&C/ RISL	Rs. 4800.00 Lakh	16
b)	Rate Contract for Providing, Testing, Commissioning and Maintenance of connectivity to Government offices under RajNET across Rajasthan (for 3 years)	Dept. of IT&C/ RISL	Rs. 13500.00 Lakh	16



GOVERNMENT OF RAJASTHAN  
 Department of Information Technology & Communication

c)	Rate Contract for Supply, Installation and Maintenance of Integrated Video conferencing solution at different Government Offices across Rajasthan State (for 2 years)	Dept. of IT&C/ RISL	Rs. 1000.00 Lakh	17
d)	Procurement of Collaboration Environment Monitoring Tool and setup of VC Control Room (for 3 years)	Dept. of IT&C/ RISL	Rs. 1000.00 Lakh	18
e)	Rate Contract for Design, Laying, Testing, Commissioning and Maintenance of Optical Cable Network (RajNET Captive OFC) in State of Rajasthan.	Dept. of IT&C/ RISL	Rs. 27500.00 Lakh	18-19
f)	AMC & FMS of RajNET network with new network equipment for network upgrade & commissioning of connectivity at new offices (for 5 years)	Dept. of IT&C/ RISL	Rs. 36000.00 Lakh	19-20
12	AMC, FMS and procurement of equipment & services under the project of "Video Conference at Block Level" (for 5 yrs.)	Dept. of IT&C/ RISL	Rs. 9500.00 Lakh	20-21
13	Maintenance of the Raj eSign project (4 years duration from F.Y. 2022-23 to F.Y. 2025-26)	Dept. of IT&C/ RISL	Rs. 3104.30 Lakh	21-22
14	Online Ticket Booking System for Archeology Department	Dept. of IT&C/ RISL	Rs. 80.00 Lakh	23
15	Procurement of Computer Hardware & Allied Items	SI&PF Dept.	Rs. 140.65 Lakh	24
16	Extension of IT-PMU for Mukhyamantri Chiranjeevi Swasthya Bima Yojana (MMCSBY) by Rajasthan State Health Assurance Agency (RSHA)	RSHA/ MH&FW Dept.	Rs. 740.40 Lakh	24-25
17	Development & Implementation of Integrated Excise Management System (IEMS) 2.0 and Operations & Maintenance of IEMS 2.0 for 5 Years	Excise Dept.	Rs. 5117.68 Lakh	26
18	Establishment of Development Centre, Procurement of Infrastructure and Technical Core Group at SCRB for Rajasthan Police	SCRB	Rs. 1385.04 Lakh	27-30
19	Implementation of Billing solution (Revenue Management System-RMS) for Rajasthan DISCOMs (DISCOMs) on SAAS Basis	JVNL/ Energy Dept.	Rs. 35000.00 Lakh	30-32
20	Selection of System Integrator (ERPSI) for Supply, Installation, Commissioning, Implementation and Support for Enterprise Resource Planning (ERP) System at Rajasthan Discoms	JVNL/ Energy Dept.	Rs. 9000.00 Lakh	32-33
21	Customization, Implementation and Maintenance of IT System for Mahila Nidhi Credit Co-Operative Federation, Rajasthan [Rajasthan Grameen Aajeevika Vikas Parishad (RGAVP)]	RGAVP	Rs. 215.40 Lakh	33-34
22	eBazaar-2.0	Dept. of IT&C	Rs. 1146.00 Lakh	34-36

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

The followings were discussed in the meeting:

**1. Project : State Level Agency (SLA) for providing technical support to Election Dept., Govt. of Rajasthan, in preparation of Electoral Rolls of all 200-Assembly Constituencies of the State (for 2 years) (Election Dept.)**

The Committee was briefed about the project proposal. Election Dept., GoR intends to appoint REIL, Jaipur for two (2) Years duration as SLA for Election Department, GoR to provide technical support in preparation of Electoral Rolls of all 200-Assembly Constituencies of the State. REIL was appointed as SLA of the Dept. 1<sup>st</sup> time in the year 2012 for five (5) years duration with the prior approval of the Finance Dept. Later on, in the year 2017, REIL was further appointed as SLA of Election Dept. for next five (5) years duration with the prior approval of the Finance Dept. Now, the present contract of REIL has expired on 13-09-2022.

The work of "Summary Revision of Electoral Rolls-2023" has already been started in all 200-Assembly Constituencies of the State and the Draft Publication of Electoral Rolls-2023 shall be made on 09/11/2022 in all 200-Assembly Constituencies of the State. Pre-revision activities of SSR-2023 have already been started in all 200-assembly constituencies of the State. In the pre-revision activities, Integration of Draft Electoral Rolls-2022 with its all supplements shall be made by SLA for all 52,062 Polling stations of the State. New Integrated Draft Electoral Rolls-2023 shall be prepared according to the Rationalized Polling Station for Draft Publication of Electoral Rolls-2023 on 09-12-2022.

Negotiation was carried out with REIL and REIL have agreed to work at the rate of Rs. 30 Lacs per year which is even lesser than 2022 rates, that is Rs. 35.50 lacs per year and 2017 rates of Rs. 31,75,000 per year. Hence, Committee finds the price as reasonable **as it is 15.5% less than the 2022 rates above.**

In accordance to the notifications/ rules etc., the High-Power Committee headed by Chief Electoral Officer-cum-Principal Secretary, Election Dep. has already accorded approval to appoint REIL (a CPSU) as SLA for next two (2) year.

Agency selectin is to be done by Administrative Department in accordance with RTPP Act.

**Financial Implication:**

Estimated cost of the project proposal (*for 2 years duration*) is Rs. 60.00 Lakh.

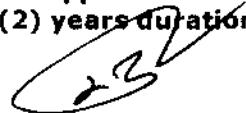
**Fund Management:**

Expenditure would be met from the funds available with Election Dept., GoR.

Committee advised that Election Department may think and plan for data exchange policy in context to share the data dump of Election Dept. with Dept. of IT&C for 'Jan Aadhaar' consumption to extend the government services.

*Keeping in view of the fact of urgency of work, technical approval has already been accorded on file by Principal Secretary, IT&C (Chairman, SeMT).*

**The Committee accords ex-post-facto technical approval on the proposal having estimated cost of Rs. 60.00 Lakh for two (2) years duration.**



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

**2. Project : Development of New pension application S/w along with its hosting (for 5 years) (RVPNL/ Energy Dept.)**

The Committee was informed about the project proposal. SAP-ERP system was implemented in RVPNL in 2016 and since then, all activities related to employees are being performed in SAP-ERP system. Before implementation of SAP-ERP, all ERP related activities were captured in IMIS application which was a dot-net based in-house application developed by M/s. HCL Technologies in the year 2005. Still, pension is being processed in Integrated Management Information System (IMIS) for RVPNL Pensioners.

IMIS reports do not fulfill the various requirement of management e.g. Pensioners can't submit Online Life Certificate and annual Pension Certificate cannot be generated, no approval process for pension case etc. and support for application updation is also not presently available. Further, Servers of IMIS are also very old (year-2005) and obsolete in technology and maintenance of those servers is not feasible.

IMIS was an integrated application and it is very difficult to extract only pension part from IMIS application. Therefore, a new application is required to be developed on new software technology and same is to be deployed on new servers at DoIT&C Data Center.

To address the requirement and limitations of IMIS Software, and Hardware, RVPNL decided to develop in-house application which will be user friendly pension application to provide all the facilities to the pensioners like online processing of pension cases, approval of case through online workflow, Pension slip, submission of life certificate online, C1, Annual Pension Certificate etc.

**Financial Implication:**

Tentative Cost estimation for development of pension application w.r.t. to software and hardware is as under –

(Rs. in Lakh)			
S.N.	Activities	Duration	Tentative Total (incl. GST)
<b>A</b>	<b>Software Part</b>		
(i)	Development of Application	One Time	35.40
(ii)	AMC of application	5 Years	17.70
<b>B</b>	<b>Hardware Part</b>		
(i)	Hosting of application	5 years	50.00
<b>Total</b>			<b>103.10</b>

**Fund Management:**

Expenditure would be met from the funds managed by Energy Dept./RVPNL.

Finance Dept., GoR is developing a Pension Application System under new project namely "IFMS-3.0" which has the larger scope for pension process; hence the proposed requirements of RVPNL of New Pension Application will be incorporated in IFMS-3.0.

**The Committee accords approval on the proposal having estimated cost of Rs. 103.10 Lakh.**



23

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

**3. Project : Procurement of IT hardware i.e., Desktop Computers (All-in-One), Laptops, Printers, MFP, Color printers, UPS, Scanners etc. with 5 years support services. (RVPN/ Energy Dept.)**

The Committee was briefed about the proposal as RVPN has got developed a customized ERP solution and implemented and it is necessary to equip all the offices of RVPN with latest version of hardware system. Therefore, a consolidated requirement of Desktop Computers (All in One), Laptops, Printers, Multi-Function Printers (MFP), Color Printers, UPS, Scanners etc. for various offices of RVPN have been worked out on the following grounds:

- a) The consolidated requirement of IT hardware worked out as per requirement received from field officers and in view of approved policy of IT hardware.
- b) To provide the IT hardware for newly created offices/ GSS in RVPN.
- c) Desktop Computers (All in one), Printers & Laptops which have completed their useful life as per policy of allotment of IT hardware have been considered for replacement.

**The tentative consolidated requirement and Financial Implication:**

(Amount in Rs.)

S.No.	Item Description	Estimated Qty.(No.)	Estimated Unit Rate including GST @ 18%	Total Estimated Cost including GST @ 18%
1.	Desktop Computer	300		
2.	Desktop Computer (All-In-One)	70	68,000	2,51,60,000
3.	Printer	217	18,000	39,06,000
4.	Laptop	34	78,000	26,52,000
5.	Multifunction Printer (MFP)	18	26,000	4,68,000
6.	Scanner	17	30,000	5,10,000
7.	Color Printer	4	32,000	1,28,000
8.	UPS	355	9,000	31,95,000
<b>Total Tentative estimated cost including GST@18%</b>				3,60,19,000
<b>Say Rs.</b>				<b>360.00 Lakh</b>

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

**Fund Management:**

Expenditure would be met from the funds managed by Energy Dept./RVPN.

**The Committee accords technical approval on the proposal having estimated cost of Rs. 360.00 Lakh.**

**4. Project : Procurement of 500 Laptops for 500 new Health & Wellness centers developed across the State under Ayushman Bharat Yojana of GoI (Aayurved Dept.)**

The Committee was briefed about the proposal submitted by Aayurved Dept. Last year under the "Ayushman Bharat Yojana" of GoI, 500 Ayush Aushdhalaya of the State were developed as Health & Wellness Centers and one (1) Laptop for each center (total 500 in the State) was purchased through open tender, which was approved in 86<sup>th</sup> meeting of State e-Governance Mission Team (SeMT) dated 09-07-2021.



सूचना प्रौद्योगिकी और संचार विभाग

## GOVERNMENT OF RAJASTHAN Department of Information Technology & Communication

Under the State Annual Action Plan for the year 2021-22, 500 No. Laptops are to be procured for 500 No. of new Health & Wellness Centers being developed in the State.

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

### **Financial Implication:**

Previous year (i.e. 2021) one laptop for each center was purchased through open tender for an amount of Rs. 46,611/- per Laptop; on the basis of the same 500 laptops are to be procured in the year 2021-22. Therefore, estimated cost of proposal is Rs. 233.05 Lakh.

### **Fund Management:**

Expenditure would be met from the funds allotted under "Ayushman Bharat Yojana" of GoI.

*Keeping in view of the fact of urgency of work, technical approval has already been accorded on file by Principal Secretary, IT&C (Chairman, SeMT).*

**The Committee accords ex-post-facto technical approval on the proposal having estimated cost of Rs. 233.05 Lakh.**

### **5. Project : Procurement of Computer Hardware & Allied Item for Water Resources Dept. (WRD)**

The Committee was briefed about the proposal. WRD established State Water Resources Informatics Centre (**SWRIC**) at Jaipur, and it is fully functional. Dept. has completed scanning and digitization of records, maps, and data etc. As, in-order to step ahead in the e-governance, WRD is in process for fully automation of dams and canal system; Finance Dept. has accorded approval for the procurement of 248 No. of computers & printers and 4 No. of laptops.

### **The tentative consolidated requirement and Financial Implication:**

(Amount in Rs.)

S.N.	Item Description	Qty. (Nos.)	Per Unit Rate	Total Amount
1	Desktop computers (with i7 processor, SSD drive and standard Configuration)	45	70,900	31,90,500
2	Desktop (with i5 processor, SSD drive and standard configuration)	203	57,750	1,17,23,250
3	Multifunction printer (Mono)	45	20,000	9,00,000
4	Ink tank printer (Mono)	203	15,000	30,45,000
5	Laptops (with i5 processor & SSD drive and standard configuration)	4	62,500	2,50,000
6	UPS (with 15 to 30 min. power back up facility)	248	3,000	7,44,000
<b>Total Cost</b>				<b>1,98,52,750</b>
<b>Say (Rs. in Lakh)</b>				<b>198.53</b>

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

GOVERNMENT OF RAJASTHAN  
Department of Information Technology & Communication

**Fund Management:**

Expenditure would be met from the funds managed by Water Resources Dept.

*Keeping in view of the fact of urgency of work, technical approval has already been accorded on file by Principal Secretary, IT&C (Chairman, SeMT).*

**The Committee accords ex-post-facto technical approval on the proposal having estimated cost of Rs. 198.53 Lakh.**

**6. Project : Hiring of Manpower for - (A) PMU (Technical), (B) PMU (Management), (C) SAS Developer, and (D) Procurement of Computer H/w & Allied Items for HQ & District Offices of Social Justice & Empowerment Dept. (SJED)**

The Committee was briefed about the project proposal of SJED. A Project Management Unit of Technology (PMU-Technical) team of 10 resources is deployed at SJED-HQ to provide technology solutions related to Information Technology to the Department.

Due to new IT Portals, various IT initiatives and documents' minimization & auto/ deemed approval's functionalities in various schemes of SJED; more technical resources are required.

**A. Scope of Work of PMU (Technology/ Information Technology) Team (PMU-T):**

**a) Technical Advisory Services -**

- Transition of existing e-Governance Solution, the Social Justice Management System (SJMS) Application
- Support the Existing Solution
- Business Continuity Support
- Requirement Gathering
- Enterprise Architecture Design
- Solution Framework Design
- Best Practice Adoption
- Document Preparation (SRS (Including FRS & BRD) and Enterprise Architecture Document)
- Test Plan, Test Cases and facilitating UAT
- Program Management Support services
- Change Requirement assessment for finalizing enhancement, new module development, on-boarding of other Stakeholders during support and development period
- Capacity Building and Training
- Use of emerging technologies like Artificial Intelligence/ Machine Learning to automate departmental process and to provide effective services.

**b) SAS-Developer for data analytics:**

- Determining Business Objective and Requirement gathering
- Identification of Business Use Cases/Key Performance Indicators (KPIs)
- Determining the data model for Analytics Data understanding/ Standardization
- Coordinate for data gathering from multiple departments Data Quality check/ Consolidation/ De-duplication/ Mart Creation



सूचना प्रौद्योगिकी और संचार विभाग

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

- Evaluation
- Analytics Dashboards/ Production reports maintenance and validation.
- Access planning for various department users

**Financial Implication & Deployment of Manpower for PMU-Technical:**

The PMU team for Technology and SAS developer may be engaged for a period of 24 months in project mode. The procurement related issues would have to be decided by Administrative Dept. in accordance with RTPP Act.

The detailed break-up of the **PMU-Technical team** SJED, for a period of 24 month is mentioned below:

SNo	Resource Category	No. of Resources	Total Man-Months	MM Rate per Month	NICSI MM Rate including NICSI charges (7%) (6*1.07)	Total cost for 2 Years
1	2	3	4	6	7	8
1	Level - 13/ Sr. Technical Project Manager	1	24	2,74,436	2,93,647	70,47,516
2	Level - 9/ Sr. Developer	5	120	1,73,328	1,85,461	2,22,55,315
3	Level - 6/ Developer	2	48	1,15,552	1,23,641	59,34,751
Sub - Total		8	192			3,52,37,582
Add - GST @ 18%						63,42,765
<b>Total Cost including NICSI Charges and GST</b>					<b>4,15,80,347</b>	
					<b>Say Rs.</b>	<b>416.00 Lakh</b>

Estimated cost for SAS Developer is as mentioned below:

S. No	Service Type	Description of work	Quantity	Unit	Unit Cost	Total Amount (INR)
1	2	3	4	6	7	8
1	Retainer-ship	SAS Developer	24 (2*12)	Man Month	2,59,600.00	62,30,400.00
					Total	62,30,400.00
					RISL Service Charges	3,11,520.00
					CGST @9% on RISL Charges	28,036.80
					SGST @9% on RISL Charges	28,036.80
					<b>Grand total to be transferred to RISL</b>	<b>65,97,994.00</b>

**Total cost estimated for resources' are given below:**

Particulars	Total Amount (INR)
Resources for PMU (Technical)	Rs. 416.00 Lakh
Resource for SAS developer	Rs. 66.00 Lakh
<b>Total Cost</b>	<b>Rs. 482.00 Lakh</b>

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

**B. Procurement of Computer Hardware & Allied Items:**

In view of the increasing work of IT new desktop computers (94), laptops (5) & printers (94) are to be purchased for the Head office and district offices of department. Due to old networking & open switches and loose wiring several times departmental users have to face internet connectivity issue so work of new LAN cabling along with Switches, rack has to be done at head office.

**Detailed requirement of ICT items & its Financial Implication is as follows:**

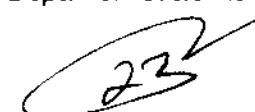
(Rs. in Lakh)

S. N.	Office	Item	Qty. in Nos.	Unit Cost	Total Estimated Cost
1	HQ (Pension section personnel, Director Office and Secretary Office)	Desktop Computer PC	20	0.75	15.00
2		Multi-Functional Printer	20	0.25	5.00
3	For other officers posted at HQ	Desktop Computer PC	40	0.75	30.00
4		Multi-Functional Printer	40	0.25	10.00
5	HQ (For the personnel of Pension section)	Laptop	5	0.80	4.00
6	LAN Cabling with Switches, rack at HQ	As per items' requirement	-	-	15.00
7	District Level Offices	Desktop Computer PC	34	0.75	25.50
8		Multi-Functional Printer	34	0.25	8.50
<b>Total (Rs. in Lakh)</b>				<b>113.00</b>	

**LAN Cabling with Switches, Rack at SWJD HQ:**

S. No.	Name of Item	Proposed Quantity	Total Price
1	Cisco 48 Giga Port Manageable Switch	3	
2	Cisco 48 Giga Port unmanageable Switch	2	
3	Cisco 24 Giga Port Switch	6	
4	D-Link Patch Panel 24 Port (Loaded)	8	
5	CAT-6 I/O (Face Plate & Wall Box)	250	
6	Network Rack 16U (including PDU, FAN, Cable manager)	3	
7	Network Rack 12U (including PDU, FAN, Cable manager)	4	
8	CAT-6 UTP Cable 3000 Meter (Approx)	1	
9	Patch Chord (0.5 Meter)	250	
10	Patch Chord (1 Meter)	100	
11	Patch Chord (3 Meter)	100	
12	Patch Chord (5 Meter)	50	
13	Installation Charges (Including I/O punching & Marking, CAT-6 UTP Cable from switch to port/switch, RJ 45 Connector, conduit, proper Switch & Rack fitting and Wi-Fi router configuration)	-	15,00,000

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





सूचना प्रौद्योगिकी और संचार विभाग

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

**Overall Financial Implication:**

		(Rs. in Lakh)
#	Project Name	Estimated Cost
A.	Hiring of Manpower for PMU – Technical	416.00
C.	Hiring of SAS Developer	66.00
D.	Procurement of Computer H/w & Allied Items	113.00
<b>Overall Total Estimated Project Cost</b>		<b>595.00</b>

**Fund Management:**

Expenditure would be met from funds managed by Social Justice & Empowerment Dept.

**The Committee accords technical approval on the proposal having estimated cost of Rs. 595.00 Lakh for the project components of PMU (Technical-including the requirement of SAAS Developer) and ICT Items.**

**7. Project : Procurement of Computer hardware (Law (Litigation) Dept.)**

The Committee was informed about the proposal and requirements of Law & Legal Affairs Dept. The new system of e-filing, online/ e-hearing etc. has been started in Hon'ble Supreme Court, New Delhi/ High Court, Rajasthan from 01-01-2022 and for the purpose of speedy disposal and after the experience of latest requirement of video conferencing in 'Work from Home' of the Corona era, there is every possibility of starting the system of e-filing, e-hearing and paperless proceedings in the subordinate courts soon in the coming years. Therefore, Dept. intends to procure Desktop Computers and Printers to be utilized in subordinate courts across the Rajasthan State.

**Detailed requirements of ICT items & its Financial Implication submitted by Law (Litigation) Dept. are as mentioned below:**

(Amount in Rs.)				
Item Name	Estimated Specification	Quantity in Nos.	Estimated per unit cost	Total estimated cost
Desktop Computer (All-In-One)	Intel Core i5/ i7 Processor, 8GB/ 16GB DDR4 RAM, 1TB Hard Disk, 256GB SSD, Integrated Graphics Card, Internal Speaker, Intel® WiFi6 with Bluetooth, USB Mouse & Keyboard, 19.5 inch Monitor with inbuilt HD Webcam	86	80,000	68,80,000
Printer (MFP)	Printing speed 20ppm or higher, monochrome (laser), Scan Type- flatbed with ADF, Scan Speed- 15ppm or higher	95	30,000	28,50,000
<b>Total</b>				<b>97,30,000</b>

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

**Fund Management:**

Expenditure would be met from the funds available with Law (Litigation) Dept., Jaipur

*Keeping in view of the fact of urgency of work, technical approval has already been accorded on file by Principal Secretary, IT&C (Chairman, SeMT).*

**The Committee accords ex-post-facto technical approval on the proposal having estimated cost of Rs. 97.30 Lakh.**

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

**8. Project : Procurement of Computer H/w & Allied items (for 1<sup>st</sup> phase) for Collectorate , Jaipur**

The Committee was informed that online e-file system is to be implemented in various branches of District Collectorate, Jaipur. In this regard, in the first phase 50 computers with UPS, 3 laptops, 25 MFP printers are to be purchased on priority, whose maximum cost is approximately Rs. 50.00 lakh.

**Detailed requirement of ICT items submitted by DC, Jaipur is as mentioned below:**

S.N.	Item Description	Qty. (Nos.)
1	Computer with UPS	50
2	Multi-Function Printer	25
3	Laptop	3

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

**Financial Implication:**

The Estimated cost of the procurement for first phase is around Rs. 50.00 Lakh.

**Fund Management:**

Expenditure would be met from the funds managed District e-Governance Society, Jaipur.

*Keeping in view of the fact of urgency of work, technical approval has already been accorded on file by Principal Secretary, IT&C (Chairman, SeMT).*

**The Committee accords ex-post-facto technical approval on the first phase of the proposal having estimated cost of Rs. 50.00 Lakh.**

**9. Project : Procurement of Computer Hardware & Allied Items and Hiring of Manpower for Implementation of Integrated IHMS**

The Committee was briefed about the project proposal of IHMS. The proposal is to go-live of IHMS application at SMS Hospital and also revamp part of IHMS application based on gap-analysis done at SMS Medical College/ Hospital with upgradation of the IHMS application across the State, by that it may cover basic level functionality of the application at all Hospital including basic integration with Chiranjeevi, RGHS etc.

RajCOMP Info Services Ltd. (RISL) is Technology Partner for IHMS pertaining to application development & customization with following-

- Technical support for the Application and Database
- Server Management Level at RSDC
- Provide support and Maintenance (FMS) for IHMS application
- Technical support for Hardware and other equipment's procurement pertaining to IHMS implementation, under approval of budget provisions.

There will be a common user interface and common masters for all medical related applications which would facilitate a health institution to access records/ documents through common interface and simultaneously update Electronic Health Record (HER). Patients shall be able to access their medical records electronically for the purpose further consultations or personal upkeep of record etc. Initially, all applications (Chiranjeevi, RGHS, e-Aushadhi) shall be integrated at the basic level for which 2<sup>nd</sup> October 2022 was decided as roll-out date.

Post implementation at SMS hospital, Jaipur, this application would be available to be rolled out at all medical colleges and attached hospital across the state.



## GOVERNMENT OF RAJASTHAN

### Department of Information Technology & Communication

#### **Scope of work:**

1. Basic Integration of IHMS with Chiranjeevi, RGHS and e-Aushadhi, to launch on 2<sup>nd</sup> October, 2022 – wherein any patient would be registered in IHMS application only and after getting the status through JANAADHAR, would be routed to Chiranjeevi/ RGHS as per requirement.
2. Development, design in application based of suggestions and functional requirement of SMS Hospital
3. Implementation of complete IHMS application at SMS Hospital
4. Lab Machine Integration in the application across the hospitals of SMS Medical College and support for other hospitals.
5. Development and incorporation of complete RGHS and Chiranjeevi applications in IHMS application.

**The major task to be taken up is roll out of application at SMS hospital along with basic integration with Chiranjeevi, RGHS and eAushadhi. For roll out of application at SMS Medical College, Jaipur, a team of 12 developers, in addition to the existing FMS team would be required for next one year. Also a team of 12 module champions (persons having thorough knowledge of the application and health domain – both technically and functionally) would be deployed at SMS hospital so that any issue can be taken up without any time lag and resolved at fast pace. Apart from the SI and team of Department of IT&C, 3 consultants of Management/ Technology & Health domain profile would also be required on urgent basis as to create PMU for IHMS. Post go live at SMS hospital, a provision of additional nine (9) subject experts specially of health & management side would also be required to address the issues and implementation of doctor's desk which is planned to be executed in Nov-Dec 2022 onward for next 6 months.**

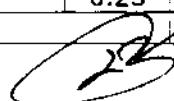
#### **Estimated Financial Implication for Hiring Manpower:**

(Rs. in Lakh)					
S.N.	Head	No.	Tenure (in month)	Rate	Amount
1	Development Team *	12	12	1.44	207.36
2	Module Champions *	12	12	1.44	207.36
3	PMU Consultancy Charges *	3	12	3.00	108.00
4	IHMS implementation experts/ subject matter experts	9	6	1.44	77.76
5	FMS Team (already in IHMS)	-	-	-	123.00
6	Lab Machine Integration *	-	-	-	50.00
7	Legacy Data Transfer	-	-	-	20.00
8	Training *	-	-	-	50.00
<b>Total</b>					<b>843.48</b>

Requirement of hardware, networking, Wi-Fi and manpower for SMS Medical College & Hospital is as mentioned below:

#### **Detailed requirement of ICT items for Medical Dept. is as follows:**

S.N.	Name of The Equipment	Total Qty.	Present Position of working H/w	New Required Qty.	(Rs. in Lakh)	
					Unit Cost	Total Cost
1	Desktop	627	262	365	0.55	200.75
2	Laptop	20	0	20	0.80	16.00
5	Laser Printer	322	217	105	0.18	18.90
6	Multi-Function Printer	117	37	80	0.25	20.00
<b>Sub-Total (Items available under RC)</b>						<b>255.65</b>



GOVERNMENT OF RAJASTHAN  
 Department of Information Technology & Communication

3	Tablet Device	870	0	870	0.20	174.00
4	DMP Printer	90	16	74	0.20	14.80
7	UPS Offline 800 VA	589	220	375	0.06	22.50
8	Barcode Reader	58	20	38	0.06	2.28
9	Barcode Printer	63	43	20	0.45	9.00
10	A3 Size Scanner	17	5	12	1.10	13.20
11	UTM Firewall (1500 User License With Five Year Warranty)			1	30.00	30.00
12	Layer 3 Core Switch (Chassis) & NMS (Network Management System for 5 Year License with Patches)			1	20.00	20.00
13	Layer 2 Networking Switch			15	0.80	12.00
14	Cat-6 LAN Work (Required Node Qty.)			300	0.02	6.00
15	<b>Network Equipment/Labour Work (Fibre laying/Rack and other Accessories with Labour Charges)</b>					7.00
16	<b>IT Management Team (FMS):</b> (Network Administrator, Hospital Admin (Master data management), Technical Support Engineer.					
17	<b>PAC's FTP Server with Storage:</b> (Used for Radio Diagnosis like X-Ray, MRI, Ct-Scan etc.)					
18	WiFi Access Point (AP) Hospital Campus					
<b>Sub-Total (Items NOT available under RC)</b>						<b>310.78</b>
<b>Total Expenditure</b>						<b>566.43</b>
SMS Medical College Labs and IT Cell Expenses						20.00
<b>Total</b>						<b>586.43</b>
<b>Say (Rs. in Lakh)</b>						<b>586.00</b>

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

Estimated expenditure on the procurement of ICT items is as follows:

(Rs. in Lakh)

S.No.	Head	Amount
1.	Hardware & Networking and Manpower (for Medical College & Hospital)	661.00
2.	WiFi Connectivity @ SMS Medical College & Hospital	270.67
3.	Infra structure at SDC: Servers -Solar, Redis, Mirth in HA Mode	100.00
4.	Backup Appliances	250.00
	<b>Total</b>	<b>1281.67</b>

**The overall total estimated cost of the project proposal:**

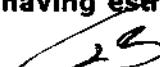
(Rs. in Lakh)

S.No.	Head	Amount
1.	For hiring of Manpower	843.48
2.	For procurement of computer h/w & allied items	931.67
3.	IT infrastructure for Data Center	350.00
	<b>Total</b>	<b>2125.15</b>
	Incidental Charges @ 5%	106.51
	<b>Grand Total</b>	<b>2231.66</b>

**Fund Management:**

Expenditure would be met from the funds available in "Backend & New Projects" Budget Head of DoIT&C.

**The Committee accords technical approval on the proposal having estimated cost of Rs. 2231.66 Lakh.**





सूचना प्रौद्योगिकी और संचार विभाग

## GOVERNMENT OF RAJASTHAN

### Department of Information Technology & Communication

#### 10. Project : Abhay Command & Control Centre

The Committee was briefed about the project proposal. **Abhay Command and Control Center (CCC)** in City Surveillance and Incident Response Project operates as the surveillance monitoring center, coordination office and alarm monitoring center all in one. The CCC includes Video Surveillance room, Dial 100 Control room, Forensic Investigation Room, ITMS room and Data center & FMS/ NOC Room. The CCC is the "nerve center"- a central administrative location from where overall assets and activities are monitored and managed.

City Surveillance system involves installation of high definition fixed and PTZ IP cameras, capable of providing optical zoom, to obtain quality video stream day in and day out for the Command & Control Center. A diversified IP based network infrastructure backbone deployed involving high speed fiber optics/ wireless technologies to carry video from cameras to the command and control center. The CCC equipped with huge video walls, workstations, video management servers and video data storage clusters of several hundred terabytes. Project will be implemented by RISL.

#### List of Components to be procured are as mentioned below:

(Rs. in Crores)

SN	Particulars	Qty. (Nos.)	F.Y. 2023-24	F.Y. 2024-25	Total
<b>A. Data Center Items</b>					
1	Blade Chassis	23	4.53	2.26	6.79
2	Blade Server with OS	250	11.80	5.90	17.70
3	Primary Storage (400 TB Usable NL-SAS disks and 5 TB usable SAS disks)	80	37.76	18.88	56.64
3	Server Cum Storage (300 TB Usable) Appliance for 26 Districts	52	16.36	8.18	24.54
4	SAN Switch	14	2.21	1.10	3.31
5	42 U Rack	44	1.38	0.69	2.07
6	Access Switch	39	0.48	0.09	0.57
<b>B. Edge Equipment's</b>					
7	Full HD IP PTZ Camera with IR	13000	26.43	13.22	39.65
8	Full HD IP Box	17000	17.39	8.69	26.08
9	Professional LED	100	1.96	0.98	2.94
10	Workstations	100	0.98	0.50	1.48
11	2X2 Video Controller	25	0.78	0.40	1.18
12	UPS 10 KVA HA Mode	50	2.36	1.18	3.54
13	Table	100	1.57	0.79	2.36
14	Chair	100	0.16	0.08	0.24
15	IP Phone	100	0.24	0.12	0.36
17	8 Meter Pole	6000	10.39	5.19	15.58
18	Access Switch (4 Port)	6500	8.69	4.35	13.04
19	Electrical cabling in KM	500	8.34	4.27	12.61
<b>C. OFC</b>					
20	Optical Fiber Cable in KM	3000	80.24	40.12	120.36
<b>D. Civil Infra</b>					
21	Civil Infra for new ACCCs	10	3.00	2.00	5.00
<b>Total Value</b>					
					356.04

#### Financial Implication:

Estimated/ tentative year wise procurement cost is as follows:

GOVERNMENT OF RAJASTHAN  
Department of Information Technology & Communication

(A) Estimated CAPEX:

SNo	Particulars	F.Y. 2023-24	F.Y. 2024-25	F.Y. 2025-26	F.Y. 2026-27	F.Y. 2027-28	(Rs. in Crores)
							Total
1.	Data Center Items (Server & Storage etc.)	74.50	37.24	-	-	-	111.74
2.	Edge Equipment (Camera, Poles & Switches, Electric Cabling etc.)	79.30	39.64	-	-	-	118.94
3.	Optical Fiber Cabling (OFC)	80.24	40.12	-	-	-	120.36
4.	Civil Infra for new ACCCs(10)	3.00	2.00	-	-	-	5.00
	<b>Total</b>	<b>237.04</b>	<b>119.00</b>	-	-	-	<b>356.04</b>

Estimated OPEX (for current proposal)

SNo	Particulars	F.Y. 2023-24	F.Y. 2024-25	F.Y. 2025-26	F.Y. 2026-27	F.Y. 2027-28	(Rs. in Crores)
							Total
1.	Maintenance of IT Equipment's (7 Data Centres & 33 ACCCs)	15.06	15.06	15.06	15.06	15.06	75.30
2.	Maintenance of Electrical & Non-IT Infra (7 Data Centres & 33 ACCCs)	4.26	4.26	4.26	4.26	4.26	21.30
3.	Maintenance for Edge Equipment	16.17	16.17	16.17	16.17	16.17	80.85
4.	ATS of Software(s)	20.32	20.32	20.32	20.32	20.32	101.60
5.	FMS (7 Data Centers & 33 ACCCs and Edge Equipment's)	21.33	21.33	21.33	21.33	21.33	106.65
6.	Third Party Auditor (TPA)	3.00	3.00	3.00	3.00	3.00	15.00
7.	Miscellaneous expenses (Diesel, Electricity bills, Telephone bills)	10.00	10.00	10.00	10.00	10.00	50.00
	<b>Total</b>	<b>90.14</b>	<b>90.14</b>	<b>90.14</b>	<b>90.14</b>	<b>90.14</b>	<b>450.70</b>

Summarized Financial Implication (for current proposal):

SN	Particulars	F.Y. 2023-24	F.Y. 2024-25	F.Y. 2025-26	F.Y. 2026-27	F.Y. 2027-28	(Rs. in Crores)
							Total
(A)	Estimated CAPEX	237.04	119.00				356.04
(B)	Estimated OPEX	90.14	90.14	90.14	90.14	90.14	450.70
	<b>Total</b>	<b>327.18</b>	<b>209.14</b>	<b>90.14</b>	<b>90.14</b>	<b>90.14</b>	<b>806.74</b>

23

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

**Fund Management:**

Expenditure would be met from the funds available under the budget head "Abhay Command and Control Centre", of DoIT&C. Funds of Rs. 120.36 crores from 806.74 crore will be used for OFC under RajNET budget head.

**The Committee accords technical approval on the proposal having estimated cost of Rs. 806.74 Crore (exclusive of RISL service charges and applicable taxes).**

**11. Project : RajNET project for components as mentioned below at Point (a) to (f)**

The Committee was briefed about the project proposal of RajNET for its' 6 components as mentioned below:

**(a) Rate Contract of Network Equipment & LAN Infra under RajNET Project.**

A new rate contract for network equipment & LAN infrastructure is required due to below mentioned urgent requirements:

1. DoIT&C is laying its own OFC infrastructure. Currently it requires to be connected 2783 offices. To provide the connectivity at these offices RISL shall require network equipment at these sites.
2. Earlier RISL issued the LOI to M/s Bharti Airtel Service Ltd. (L1 Bidder) with ref. no. F3.3(325)/RISL/Pur/2021/1842 dated 13.07.2021 against the Request for Proposal (RFP) for MPLS, P2P & ILL connectivity and Procurement of Network hardware & LAN Infra under RajNET Project through Rate Contract (RC) with NIB Ref. no. F3.3(325)/RISL/Pur/2021/15225 dated 26.03.2021. M/s Bharti Airtel Services Ltd. has accepted the LOI vide letter ref. no. 16/07/2021/ BASL/RAJ/1607/024 dated 16.07.2021. Even-after the 50% additional increase of BOM items, some of the BOM items have been exhausted or supposed to be exhaust sooner.
3. Currently 3529 offices are operational on RajSWAN network. AMC of UPS, for these offices need to be renewed.
4. Even though we may issue order for more than 700, L3 switches in RFP mentioned at point 2. But since currently RFP for connectivity is under progress. Where we need to connect some more offices which may have requirements of L3 switches. So we are placing 500 more L3 switches in this RFP.

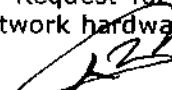
The estimated cost of the project is Rs 48.00 Crores and is proposed to be booked under RajNET project budget head. The expenditure will be incurred in time span of 2 years. The details are as below:

Project/ Connectivity/ Item	Estimated Quantity	(Rs. in Lakh) Estimated Expenditure
Network Equipment (Rack, Switch, UPS, Earthing, etc.) for New sites	3800	4800.00
<b>Total</b>		<b>4800.00</b>

**(b) Rate Contract for Providing, Testing, Commissioning and Maintenance of connectivity to Government offices under RajNET across Rajasthan.**

A new rate contract for network connectivity to government offices under RajNET is required due to below mentioned urgent requirements:

1. Earlier RISL issued the LOI to M/s Bharti Airtel Service Ltd. (L1 Bidder) with ref. no. F3.3(325)/RISL/Pur/2021/1842 dated 13.07.2021 against the Request for Proposal (RFP) for MPLS, P2P & ILL connectivity and Procurement of Network hardware & LAN



## GOVERNMENT OF RAJASTHAN

### Department of Information Technology & Communication

Infra under RajNET Project through Rate Contract (RC) with NIB Ref. no. F3.3(325)/RISL/Pur/2021/15225 dated 26.03.2021. M/s Bharti Airtel Services Ltd. has accepted the LOI vide letter ref. no. 16/07/2021/ BASL/RAJ/1607/024 dated 16.07.2021. Approval of "additional quantity to the extent of 50% original value of BOM items" has also taken PUC-4/C. Some of the BoM items have been exhausted or supposed to be exhaust sooner.

2. Currently 3529 offices are operational on RajSWAN network. Out of which approx. 1700 offices are operational on BSNL network. These offices are currently on 2mbps (copper Ethernet cable) and cannot be upgraded to higher bandwidth under this scheme. Hence the new rate contract is required to do so.
3. Connectivity also needs to be provided at 3000 locations including 2000 new GPs.
4. DoIT&C/RISL is continuously receiving connectivity requests from Government Departments/ offices/ Project OICs.

The estimated cost of the project is Rs 135 Cr and is proposed to be booked under RajNET project budget head. The expenditure will be incurred in time span of 3 years. The details are as below:

(Rs. in Lakh)		
Project/ Connectivity/ Item	Estimated Quantity of Links	Estimated Expenditure
Bandwidth (MPLS/P2P) & ILL (New / Renewal/ Upgradation)	8500	13500.00
<b>Total</b>		<b>13500.00</b>

#### **(c) Rate Contract for Supply, Installation and Maintenance of Integrated Video conferencing solution at different Govt. Offices across Rajasthan State**

A new rate contract for procurement of integrated video conferencing solution is required due to below mentioned urgent requirements:

1. There are number of VC session occurred across Rajasthan. From 1 April 2021 onwards, 5569 VC session have been conducted. Out of which 309 sessions have been conducted by HCM sir.
2. Currently senior officials' uses Video IP (Cisco 8665) phones to interact on VC sessions from Desk. These IP phones have lesser display and video quality. Other than this, if they want to share any content it may not possible for them to do so.
3. This WebEx desk solution comes up with better resolution, screen size and features. Some major differences are as per below:

Feature	Cisco 8865	Cisco WebEx Desk (WebEx DX-80)
Screen Size	5"	24"
Resolution	HD720p	HD1080p
Content Sharing	Receive Only	Transmit and Receive
Ability to interface a PC on HDMI Port	No	Yes
Camera Resolution	HD720p	HD1080p
Content Resolution	HD720p	HD1080p
Interoperability with Web Conferencing Clients like Zoom/ WebEx/ MS Teams/ ETC	No	Yes
Interoperability with standalone H.323 VC based Devices	No	Yes
Touch Screen	No	Yes

## GOVERNMENT OF RAJASTHAN

### Department of Information Technology & Communication

The estimated cost of the project is Rs. 10.00 Crores and is proposed to be booked under RajNET project budget head. The expenditure will be incurred in time span of 2 years. The details are as below:

Item	Estimated Quantity	Estimated Expenditure	(Rs. in Lakh)
Integrated VC solution	300	1000.00	
<b>Total</b>		<b>1000.00</b>	

**(d) Procurement of Collaboration Environment Monitoring Tool and setup of VC control room**

Initially VC Infrastructure was established in year 2015. The VC studios were created at each DHQ and BHQ. Over the course of next 3 years, the utilization of VC studios has been increased. To cater the increasing utilization of VC studios, additional VC studio at each DHQ has been established in year 2018. Also, immersive telepresence room at each divisional Headquarter have been established in year 2018. The major jump in VC session have been seen after Covid-19 pandemic from April, 2020 onwards. Due to increased requirement of VC studio, more than 150+ new VC setup has been installed across Rajasthan after Covid-19 outbreak only. Now, total VC studios are 600+ in Rajasthan.

The VC control room is established on 4<sup>th</sup> Floor, Library Building, Secretariat. All the systems and furniture (Cubicles, Chairs, Tables & Curtains) are more than 5-year-old. They need frequent maintenance/repairing. Also, there is adjacent room which is being utilized as multipurpose room. Although no furniture is available in multipurpose room for management of inventory/documents.

In reference to above, it is proposed that -

1. Establishment of VC control Room along with multipurpose room with proper furniture and system.
2. Procurement of Collaboration Environment Monitoring Tool

The estimated cost of the project is Rs 10.00 Cr and is proposed to be booked under RajNET project budget head. The expenditure will be incurred in time span of 3 years. The details are as below:

SNo	Item	Estimated Quantity	Estimated Expenditure	(Rs. in Lakh)
	Integrated VC solution	300	970.00	
1.	Setup of VC Control Room	1	30.00	
	<b>Total</b>		<b>1000.00</b>	

**(e) Rate Contract for Design, Laying, Testing, Commissioning and Maintenance of Optical Cable Network (RajNET Captive OFC) in State of Rajasthan.**

Govt. of Rajasthan (GoR) has connected various Camera Pole/RF locations and Government offices on OFC (Optical Fiber Cable) under RajNET Project (erstwhile Raj SWAN).

GoR has setup Command and Control Centers at all District Headquarters of Rajasthan State. It has observed that OFC network is required for connection of cameras (to be

## GOVERNMENT OF RAJASTHAN

### Department of Information Technology & Communication

installed at various locations in the respective District Headquarters) to respective Command and Control Centers.

In order to provide OFC connectivity to various Camera Pole/RF locations and Government offices and buildings, DoIT&C/RISL through this RFP, shall select Bidder(s), who shall be responsible for Design, Laying, Testing, Commissioning, Extension and Maintenance of Optical Cable Network (for period of 5 years) in State of Rajasthan. For establishing network support it is proposed to lay approx. 3000 K.M. of OFC across the State.

The estimated cost of the project is approx. Rs. 260.00 Crores for establishing complete end-to-end OFC network, including five-year maintenance charges. There will be additional expenditure of approx. Rs. 15.00 Crores for payment to local bodies towards road cutting/ restoration charges.

Hence, total estimated cost of the project is Rs 275.00 Crores. The project cost shall be funded from State budget of RajNET.

**(f) AMC & FMS of RajNET network with new network equipment for network upgrade and commissioning of connectivity at new offices.**

Govt. of Rajasthan has established a metropolitan area network (MAN) in 2005 covering around 48 various offices located in Jaipur city under SECLAN project. Thereafter, in 2013, the network has been extended to 33 District Collectortates, 240 Block Head Quarters and 3500 (approx.) offices located in these District/Block Headquarters under Rajasthan State Wide Area Network (RajSWAN) project. State Government has envisaged to establish network connectivity to Government Departments, and expand the network up to 9341 Gram Panchayats, 250+ municipal areas and some other offices in Rajasthan to cater voice, video and data services under various categories of G2G, G2B and G2C services.

RAJNET is envisaged as the platform to provide network connectivity through multimode (i.e. VSAT and TERRESTRIAL) of connectivity throughout Rajasthan state. It is also proposed to establish centralized integrated network operating center (CINOC) for monitoring of multimode connectivity in the state. Under RAJNET, expansion of connectivity is proposed through VSAT up to Gram Panchayats. Till now, 9341 GPs (1900+ on MPLS, 7400+ on VSAT) are connected through VSAT, MPLS and BharatNET OFC. The HP EMS tool is being used for monitoring of the network.

Currently, 9300+ GPs and 5000+ Offices are being catered under RajNET project (RajNET & RajSWAN). The contract to existing network is going to expire on 31.08.2022. To maintain the RajNET network (including RajSWAN):

- The FMS & AMC of RajNET (including earlier RajSWAN) is required to cater the connectivity maintenance to existing government offices for 5 years. The estimated expenditure of the work is Rs 260 Cr (Rs 190 Cr for FMS and 70 Cr for AMC).

The estimated cost of the aforementioned projects is approx. **Rs. 360.00 Crores** for aforementioned work for 5 years. The project cost shall be funded from State budget and expenditure shall be booked under RajNET. The detailed bifurcation is as below:

(Rs. in Crores)

SNo	Category	Estimated Expenditure
1	FMS of RajNET project for 5 years	190.00
2	AMC of RajNET project for 5 years	70.00
3	Upgradation of existing equipment	100.00
<b>Total</b>		<b>360.00</b>



सूचना प्रौद्योगिकी और संचार विभाग

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

Summary of components proposed under RajNET project are as under:

SNo	Details	(Rs. in Crores)
(a)	Project-1: Rate Contract of Network Equipment & LAN Infra under RajNET Project	48.00
(b)	Project 2: Rate Contract for Providing, Testing, Commissioning and Maintenance of connectivity to Government offices under RajNET across Rajasthan.	135.00
(c)	Project 3: Rate Contract for Supply, Installation and Maintenance of Integrated Video conferencing solution at different Government Offices across Rajasthan State	10.00
(d)	Project 4: Procurement of Collaboration Environment Monitoring Tool and setup of VC control room	10.00
(e)	Project 5: Rate Contract for Design, Laying, Testing, Commissioning and Maintenance of Optical Cable Network (RajNET Captive OFC) in State of Rajasthan.	275.00
(f)	Project 6: AMC & FMS of RajNET network with new network equipment for network upgrade and commissioning of connectivity at new offices.	360.00
<b>Total Estimated Cost</b>		<b>838.00</b>

**Fund Management:**

Expenditure would be met from the funds available with Budget Head "RajNET".

Committee also advised department to make a plan and strategy to cover various town hall(s) and stadium(s) into the fiber route in coordination with respective District Collector(s).

**The Committee accords technical approval on the proposal having estimated cost of Rs. 838.00 Crore.**

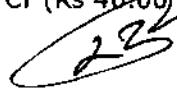
**12. Project : AMC, FMS and procurement of equipment & services under the project of "Video Conference at Block Level" (for 5 yrs.)**

The Committee was informed about the project proposal. RISL, on behalf of Govt. of Rajasthan, has setup hardware based VC solution at Department Headquarters, Department offices, District Headquarters (2 at each DHQ), SDM/Tehsil offices, Municipal towns and Block Headquarters. A DR site at Jodhpur is also created for the existing video conference infrastructure in order to support uninterrupted Video Conferencing experience for the user in case of fail over, across Rajasthan. The RajSWAN/RajNET network shall be used for deployment of additional video conference facility across Rajasthan.

In addition to the VC solution, GoR has also implemented Immersive Telepresence studio facility at Division Headquarter level in the state, Two at State Head Quarter Jaipur and six at rest of Division Headquarters in Rajasthan, i.e. Ajmer, Bharatpur, Bikaner, Jodhpur, Kota and Udaipur.

Currently, 610+ VC End Points and 8 Telepresence rooms are being operational. The AMC and FMS of the project will be ended on 30-04-2022.

- The AMC & FMS of RajVC collaboration infrastructure is required to cater the requirement of communication for e-governance for 5 years. The AMC also includes hardware refresh of the DC VC servers which are 8-year-old and have declared end-of-sale. The estimated expenditure cost of the work is Rs 50 Cr (Rs 40.00 Cr for AMC and Rs 10.00 Cr for FMS).



## GOVERNMENT OF RAJASTHAN

### Department of Information Technology & Communication

- Due to approx. 100% increase in utilization of existing VC setup, a collaboration monitoring solution is required to be setup at HQ for monitoring of all the parallel VCs across Rajasthan. Also, new hardware is required to setup across Rajasthan for new blocks, district administration over the course of 5 years. Also, services of cloud computing based solutions will be required to cater the increasing demand of VC facility on anytime anywhere basis.

**Financial Implication:**

The estimated cost of the project is approx. **Rs. 95.00 Crores** for aforementioned work for 5 years. The project cost shall be funded from State budget and expenditure shall be booked under "Video Conferencing at Block Level". The detailed bifurcation is as below:

(Rs. in Crores)		
SNo	Category	Estimated Expenditure
1	AMC of RajVC project for 5 years	35.00
2	FMS of RajVC project for 5 years	10.00
4	New collaboration hardware and Services	50.00
<b>Total Estimated Cost of proposal under "Video Conference at Block Level"</b>		<b>95.00</b>

**Fund Management:**

Expenditure would be met from the funds available with Budget Head "**Video Conference at Block Level**".

**The Committee accords technical approval on the proposal having estimated cost of Rs. 95.00 Crore.**

**13. Project : Maintenance of the Raj eSign project (4 years duration from F.Y. 2022-23 to F.Y. 2025-26)**

The Committee was briefed about the proposal. **Raj-eSign** (Electronic Signature) Service is an innovative initiative for allowing easy, efficient, and secure signing of electronic documents by authenticating signer using UIDAI e-KYC services. Applications can integrate this service to offer AADHAR holders a way to sign electronic forms and documents.

It is the single unified electronic signature system for all applications solutions and platforms to ensure implementation of true Good Governance in Rajasthan. It is envisaged that to ensure efficiency, reliability and transparency, and towards the mission of paperless service delivery, Raj eSign shall act as the secure electronic signature mechanism based on AADHAAR authentication, which shall not only ensure authenticity of documents, but also help towards paperless office and public services automation.

The Certifying Authority setup is implemented in-house and RajCOMP obtained the license from Controller of Certifying Authorities (CCA), Ministry of Electronics and Information Technology (MEITY), Govt. of India, to act as Certifying Authority (CA) on 19.09.2019, as per section 24 of the IT act. The eSign Data Centre is set up at Jodhpur and DR site is set up at library building, secretariat, Jaipur. With the implementation of the Certifying Authority solution there is no need to pay for a Digital Signature Certificate (DSC) or a per-sign cost to private vendors or Government of India.

**Present Scenario & proposed SqW:**

The project implementation started in October, 2017 and RISL obtained the license to act as certifying Authority to provide eSign and DSC services on 19.09.2019. Approximately 1





सूचना प्रौद्योगिकी और संचार विभाग

## GOVERNMENT OF RAJASTHAN

### Department of Information Technology & Communication

Large of eSign transactions are done on monthly basis through the CA eSign System set up by RajCOMP. The following applications are using the CA eSign system.

1. Pehchan Portal 2. CCTNS Portal
2. Parivahan Portal
3. Silicosis Portal
4. Document Verification portal
5. FRA (Forest Rights Act, Portal)

RISL had also procured and installed the Registration authority (RA) portal for issuance of the Digital Signature Certificate (DSCs) and also intended to provide the services of eSign and DSC to various government and private organizations on chargeable basis.

The hardware and software were installed in the year 2017 -2018 at the inception of the project, and the installed hardware and software are to be upgraded /Annual Technical support is to be renewed. As per the revised guidelines of the Controller of Certifying Authorities (CCA), the Certifying authorities intended to issue the DSCs need to maintain the e-KYC account of the subscriber. Consequently, the additional hardware and storage is to be procured to maintain the e-KYC accounts of the subscribers.

#### **Financial Implication (for current proposal):**

##### **(A) Estimated CAPEX (for current proposal):**

Details of additional hardware/software licenses/ Network Security tools and its tentative cost is as follows:

(Rs. in Lacs)		
S.No	Particulars	Total
1	Hardware Security Module (HSM)	796.50
2	Hardware Cryptographic token	360.00
3	<b>Total</b>	<b>1,156.50</b>

##### **(B) Estimated OPEX (for current proposal):**

To maintain the business continuity of service, Annual technical Support (ATS) from OEM is required for maintaining and updating of eSign infra.

(Rs. in Lacs)		
S. No.	Particulars	Total
1	Software Licenses and ATS of Software	1795.9
2	FMS and Manpower	100.00
3	CCA Audit	23.60
4	CCA license renewal	11.80
6	Misc. Charge	16.50
7	<b>Total</b>	<b>1,947.80</b>

#### **Summarized Financial Implication (for current proposal):**

(Rs. in Lacs)						
S. No.	Particulars	F.Y. 2022-23	F.Y. 2023-24	F.Y. 2024-25	F.Y. 2025-26	Total
(A)	Estimated CAPEX	896.50	200.00	60.00	0.00	1,156.50
(B)	Estimated OPEX	1346.64	248.12	283.92	69.12	1,947.80
	<b>Total</b>	<b>2243.14</b>	<b>448.12</b>	<b>343.92</b>	<b>69.12</b>	<b>3,104.30</b>

#### **Fund Management:**

Expenditure would be met from the Budget Head of State Data Center.

**The Committee accords technical approval on the proposal having estimated cost of Rs. 3104.30 Lakh (exclusive of RISL service charges and applicable taxes).**

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

**14. Project : Online Ticket Booking System for Archeology Department**

The Committee was briefed about the proposal. Dept. of Archeology and Museums, Rajasthan is the premier organization for the archeological researched and protection of the cultural heritage of the state. The department is also concerned and making continuous efforts to discover, preserve, exhibit and interpret cultural legacy of art and architecture. The department have 21 museums, 2 art galleries, 342 protected monuments and 43 archeological sites.

Department intends to have online booking system for all archeological sites and museums and has requested DoIT&C/ RISL to take up the project.

**Scope of Work, Deliverables & Timelines:**

The archaeological department is keen to leverage power of technology to manage tourism at their establishment and has intended to have an Online Booking Management System (OBMS) in line with the state's intension mentioned in the budget speech made by the Hon'ble CM for the current financial year 2022-23 for tourism with the following objectives:

- Single integrated system for ticket booking facilities to enrich the tourist's experience
- Listing of all sites under the jurisdiction of Archaeology & Museums Department
- Availability of relevant information on real-time basis for the visitors
- Advance and walk-in bookings facility
- End to end process for enquiry, calendar, availability, payment and ticket generation

Accordingly, RajCOMP Info Services Ltd. (RISL) intends to upgrade the existing ticketing system of Forest Dept. which will cater all the requirements of online bookings management and will be available as a service for other departments/organizations. The application will be made available to departments/organizations on a separate instance as per their needs. Archeology and Museums Department will have to pay the cost of solutions to consume its services.

**Project Financial Implication:**

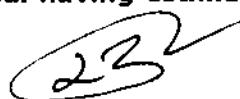
The estimated cost of deployment of the proposed resources in this document for one year is mentioned as below:

		(Rs. in Lakh)
<b>S.No.</b>	<b>Particulars</b>	<b>Total Price</b>
A.	Resource Deployment Cost	
1.	Cost of Resources	61.00
2.	GST @ 18 %	11.00
	Sub Total A	72.00
B	RISL Service Charges on Sub Total A	
1.	RISL Charges @ 10%	7.00
2.	GST @ 18 % on RISL Charges	1.00
	Sub Total B	8.00
	<b>Total Project Cost (A+B)</b>	<b>80.00</b>

**Fund Management:**

Expenditure for the project would be met from budget head "Service Charges from Implementation of Projects" of RISL.

**The Committee accords technical approval on the proposal having estimated cost of Rs. 80.00 Lakh.**





## GOVERNMENT OF RAJASTHAN

### Department of Information Technology & Communication

#### 15. Project : Procurement of Computer Hardware & Allied Items (SI&PF Dept.)

The Committee was informed that SI&PF Dept. intends to procure computer hardware and allied items due to campaign being conducted in the Dept. to update the old data of State Insurance and GPF on SI&PF portal.

**Detailed requirement of ICT items and its financial implication submitted by SI&PF Dept. is as mentioned below:**

(Rs. in Lakh)			
S. No.	Item	Quantity (Nos.)	Amount
1	Desktop	100	80.00
2	All-in-One Desktop	15	13.50
3	Printer (Monochrome Laser/InkTank)	71	17.75
4	Document Scanner	49	29.40
<b>Total</b>			<b>140.65</b>

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

**Financial Implication:**

Estimated project cost for the said procurement is around Rs. 140.65 Lakh.

**Fund Management:**

Expenditure would be met from funds available with SI&PF Dept.

**The Committee accords technical approval on the proposal having estimated cost of Rs. 140.65 Lakh.**

#### 16. Project : Extension of IT-PMU for Mukhyamantri Chiranjeevi Swasthya Bima Yojana (MMCSBY) by Rajasthan State Health Assurance Agency (RSHAA)

The Committee was informed about the project proposal. State is using existing software ecosystem to manage State's flagship scheme MMCSBY. As scheme has various component which include Beneficiary Registration, RTA, Registration of EHCP & manage further extension or change in EHCP services (HEM), Claim processing, Service Request, Payments etc. These aspects of scheme are divided in several module as HEM, BIS, Registration, RTA, TMS, Wallet Management, and Payments etc.

Agency is using Software system which was initially developed in 2015 and maintained till date, For change management agency have hired development & consultancy firm as per approval from FD vide id no 102005842 dated 31-12-2020 and SEMT dated 07-12-2020, order for 7 resources for first year & 6 resources for second year as well as 5 for first year and 4 resources for second year was placed to NICSI & RISL respectively.

Several new initiative were initiated by department which includes Jeevan Raksh Yojana , New Wallet management , Beneficiary authorization by DM , Registration of Chiranjeevi beneficiaries and various integration with central & state government agencies , As software initially build using older technologies based on monolithic architecture agency is facing difficulty in change management of modules .

In light of above revamp of exiting application is in progress, with following application level change.

GOVERNMENT OF RAJASTHAN  
 Department of Information Technology & Communication

- Architecture change - (1) Monolithic to Micro-services based architecture (2) Container based deployment of modules
- UI Layer Changes - (1) Separation of UI layer from main application (2) New design and aesthetics (3) Responsive design
- Technology Update - Updated versions of development technologies (Java 11, Angular 12, Hibernate 7.x, Spring Boot 2.x, Spring 5.x), OpenAPI - API standard.

To handle extend scope, RSHAA needs 14 resources for 1<sup>st</sup> year & 10 resources for 2<sup>st</sup> year in various categories, As mentioned in table below:

(Rs. in Lakh)

S. No.	Profile	Experience	Role	No. of Resources		Man Month Rate(as per NICSI RC 10(08)/2020-NICSI)	Effective Rate	
				1 <sup>st</sup> Year	2 <sup>nd</sup> Year		1 <sup>st</sup> Year	2 <sup>nd</sup> Year
1	Management / Functional Profile	Consultant with experience of 10-15 Yrs.	Project Manager cum BA	1	1	3.00	36.00	36.00
2	Technology Profile	Consultant with experience of 6-10 Yrs.	DB expert	1	1	2.75	33.00	33.00
3	Management / Functional Profile	Consultant with experience of 6-10 Yrs.	Business Analyst	1	1	2.75	33.00	33.00
4	Technology Profile	Consultant with experience of 6-10 Yrs.	Sr. Tech. Expert - Java	3	1	2.75	99.00	33.00
5	Technology Profile	Consultant with experience of 3-6 Yrs.	Tech. Expert - Java	5	3	2.35	141.00	84.60
6	Technology Profile	Consultant with experience of 3-6 Yrs.	Front End Expert	1	1	2.35	28.20	28.20
7	Technology Profile	Consultant with experience of 6-10 Yrs.	Quality Assurance	1	1	2.75	33.00	33.00
8	Technology Profile	Consultant with experience of 3-6 Yrs.	DevOps	1	1	2.35	28.20	28.20
<b>Total</b>				<b>14</b>	<b>10</b>		<b>431.40</b>	<b>309.00</b>
<b>Grand Total of the estimated financial implication</b>							<b>740.40</b>	

**Fund Management:**

Expenditure would be met from funds available with RSHAA/ Medical Health & Family Welfare Dept.

SeMT also advised department to make a plan and strategy to develop a single common insurance platform for both the schemes of RGHS and MMCSBY.

**The Committee is requested to accord technical approval on the proposal having estimated cost of Rs. 740.40 Lakh.**





मूलना श्रीयोगिकी और संचार विभाग

## GOVERNMENT OF RAJASTHAN Department of Information Technology & Communication

### 17. Project : Development & Implementation of Integrated Excise Management System (IEMS) 2.0 and Operations & Maintenance of IEMS 2.0 for 5 Years

The Committee was briefed about the proposal of IEMS-2.0 submitted by Excise Dept. The project is related with Excise Department, Rajasthan. Presently, Excise Department, State Beverages Corporation Limited (RSBCL) and Rajasthan State Ganganagar Sugar Mills Limited (RSGSM) are carrying out their day-to-day official activities online through an Integrated Software Application i.e. IEMS. All the offices of the three departments including depots of RSBCL & RSGSM, liquor manufacturing units of RSGSM, registered Retail Liquor Shops, Hotel, Restaurant & Club bars licensees, manufacturers and suppliers of Spirits & molasses, Liquors and Beer, users of spirits and molasses, are the stakeholders of the IEMS. The IMES is also integrated with various banks authorized by RSBCL & RSGSM and E-Gras.

The IEMS is a very old software application therefore Excise Department has decided to redevelop the IEMS as IEMS 2.0 with process reengineering and greater scope of work. The department has assigned the task of development and implementation of project to RISL.

The IEMS 2.0 shall include software applications for SCADA / IoT to be implemented in manufacturing units of Spirits, Liquors & Beer in the state of Rajasthan, Data Analytics and Artificial Intelligence, e-Auction, e-Lottery, Financial Accounting of RSBCL & RSGSM etc. along with various administrative and official activities of the three departments. Excise Dept. has envisaged for putting all the official activities of the three departments completely online.

The scope of work of the project includes (a) Development & Implementation of IEMS 2.0, and (b) Operations & Maintenance of IEMS 2.0 for 5 Years. RISL shall provide services of the project to Excise Dept. as Software as a Service (SaaS).

#### Financial Implication:

SN	Activity under the Project	(Amount in Rs.)	
		Cost Estimates	
1	Development & Implementation of IEMS 2.0 including SCADA / IoT, AI and Analytics System	9,77,54,800	
2	O & M of IEMS 2.0 including SCADA/ IoT, AI and Analytics System for 5 Years	31,52,94,508	
3	<b>Sub Total - A</b>	<b>41,30,49,308</b>	
4	Contingency Charges @ 5% of A	2,06,52,465	
5	<b>Sub Total - B</b>	<b>43,37,01,774</b>	
6	GST @ 18%	7,80,66,319	
7	<b>Total Project Cost</b>	<b>51,17,68,093</b>	

#### Fund Management:

Expenditure would be met from funds available with RISL.

Committee directed that IEMS-2.0 will be the product of RISL, and RISL will extend the product services to Excise Dept./ concerned Agencies/ Companies and they will only pay the cost for the services to RISL.

**The Committee accords technical approval on the proposal having estimated cost of Rs. 5117.68 Lakh.**

## GOVERNMENT OF RAJASTHAN

### Department of Information Technology & Communication

#### 18. Project : Establishment of Development Centre, Procurement of Infrastructure and Technical Core Group at SCRB for Rajasthan Police

The Committee was informed about the project proposal. Police Department(s) throughout the country are under the process of revamping their methods of operation and policing by leveraging the benefits of ICT (Information and Communication Technologies).

Some of the centrally sponsored schemes, such as CIPA (Common Integrated Police Application), CCTNS (Crime and Criminal Tracking Network & Systems), ICJS (Integrated Criminal Justice System), Police Portal are already working in the State while the process of customization of these applications and development of other systems is under way.

A "Technical Core Group" is envisaged to be formed to leverage latest technology and tools to cater exponential growth in day-to-day tasks and citizen services in the State. The Technical Core Group shall cater to the in-house capability of Rajasthan Police for development and operations of all the IT initiatives and e-governance projects in Rajasthan Police. The Technical Core Group comprises of:

- **Technical Support Services from Private Sector**- CDAC, as proposal received from CDAC for application maintenance and support services, and backend support will be provided by the offshore team.
- **DoIT&C Personnel** - Already 76 personnel sanctioned by Home Dept. through DoIT&C.
- **Police Personnel** - About 130 personnel are proposed to be taken from the Proposed Technical Services Cadre

#### **Project Objectives:**

The main objectives of the project can be summarized as follows:

- Establish Development Centre in SCRB for Rajasthan Police to maintenance, support and enhance the CCTNS, ICJS, Rajasthan Police Portal and other software of Rajasthan Police by engaging professional technical resources along with Police Personnel and DoIT&C.
  - Aligning with the e-Governance initiatives undertaken and leverage infrastructure setup by the state government to the maximum.
  - Developing interfaces of the application for various stake holders to facilitate seamless sharing of information for better administration and governance.
- IT Enablement of SCRB by providing high quality developer machines
  - SCRB has been working on a number of computer applications developed by various agencies like NIC, NCRB, State Government, etc., like ICJS, CCTNS, Talaash, MVCS (Motor Vehicle Coordination System), Vahan Samanvay, CPBS (Color Portrait Building System), etc.
  - Shortage of high quality developer level computers is going to be the main problem, which needs to be catered. The team of experts from CDAC shall also be provided with IT hardware by SCRB in addition to the selected police personnel who have joined SCRB for IT related works.
- Hiring Services of Private Technical Experts from CDAC
  - In addition to the DoIT&C and Police Personnel, private technical experts shall be the main core of the Technical Core Group in SCRB.
  - The role of technical core group shall not only be to take care of all IT related applications of police, but the provide handholding to the Police Personnel and DoIT&C so that they can significantly contribute to the IT enhancement in Rajasthan Police at some point time in future.



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

- They shall take over the responsibility of maintenance and enhancement of ICJS, CCTNS and other applications initially. The DoIT&C and police personnel shall take over from them gradually in the coming years when they are sufficiently trained.
- Capacity building and Training
  - The DoIT&C and Police Personnel require a great deal of training various skills, which have been already identified by SCRB.

**Expected Benefits:**

The potential benefits for various stakeholders are listed below:

Stakeholder	Benefits
State Crime Records Bureau	Dedicated team of professional man-power with various skill sets like solution architect, coders, testers, DB experts etc. The FMS center will provide continuous support and enhance the portal as per the present day's needs. SCRB will be benefitted by new IT infrastructure. Newer and faster machines will raise efficiency manifold.
Rajasthan Police	Rajasthan Police will have a professionally developed and managed web-portal for better flow of information from police stations to the higher police offices. New modules for better monitoring of policing functions will be developed and enhanced. Access to real time, accurate and consistent data/ information/ MIS reports through central repository. Better interface to understand and process data/ information. More effective mechanism to reach out to the appropriate stakeholder. Quicker decision making leading to better policing and social development, better reputation, credibility and overall progress of the state.
DoIT&C	The achievement of the objective of DoIT&C of fostering e-Governance in the State through IT enablement and development of other Depts.

**Scope of the Work:**

Resources will be deployed for establishing an in-house development center at SCRB for support, maintenance and enhancement of the Rajasthan Police applications. The deployed resources shall be responsible to follow industry standard software development methodology in conjunction with the guidelines issued by DoIT&C/ MeitY, prepare documents as per standard templates provided and undertake below mentioned activities:

- Undertake Requirement Gathering, preparation of Project Documents, Functional Requirement Study (FRS) Document
- Preparation of System Requirement Specification (SRS) and System Design Document (SDD)
- Development of the Application Software
- Testing of the Developed Application
- User Acceptance Testing (UAT)
- Assist in Security Audit / Safe to Host Certification of developed application
- Deployment and Configuration of Application
- Application Go-Live
- Training & Capacity Building
- Operation and Maintenance of the Application

**Project Requirements and Cost Estimates:**

A. **Hiring Services from CDAC for application maintenance & support services and providing support in development of in-house team:**

## GOVERNMENT OF RAJASTHAN

### Department of Information Technology & Communication

To sustain & manage the existing applications (CCTNS, ICJS, Rajasthan Police Portal and other software of Rajasthan Police), there is need to hire the services of technical agency for application maintenance & support, backend support, technical support, infrastructure maintenance, and upgrading system software etc, for this a proposal from CDAC has been received. CDAC will deploy sufficient manpower (at onsite and offshore) for successfully execution of services.

CDAC will charge Rs. 991.20 lacks (including GST) for the services.

**B. Training and Capacity Building:**

The personnel from Police and DoIT&C need rigorous training before inducting to work on CCTNS and other IT related modules. The personnel from Police and DoIT&C shall be so trained so that they acquire a certification in the skill set being trained. The broad skill sets but not limited to the following are identified:

S.No.	Course Name
1.	Business Analyst
2.	Technical writer
3.	Programming in Java/J2EE/.Net/ Python
4.	Web Designing
5.	Graphic Designing/ UI/UX Designing
6.	QA Manager (Bench marker, Product/Process Innovation, Quality Control & Release Management)
7.	Security Audit
8.	Quality Assurance (Functional Testing, Automated Testing, Performance and Load Testing)
9.	Database Administrator Oracle/MS SQL/ My SQL
10.	System/ Application Administrator/ Server Administrator/ Network Administrator
11.	Cloud/ System Architect
12.	SQL Developer
13.	Big Data/ Data Management/ Data Quality and Transformation
14.	Emerging Technology (AI & ML, AR/VR, Robotics)
15.	Image & Video Processing
16.	Mobile App Developer (Android/ IOS)
17.	Data Analytics on SAS/ Cognos/ R & Python/BI
18.	Project Management
19.	DevOps

A total of about 10 full time trainers having expertise in multiple technologies/ domains shall be required for trainings in various technologies/ domains for a period of 8 months. Out of the 10 trainers 4 trainers shall be experts in their respective field for training and 6 shall be providing for hands on training in CCTNS related applications development and other technologies for full day.

The expected cost for training & capacity building for a period of 8 months will be Rs. 103.84 Lacks (including GST).

**C. IT Equipment (Hardware):**

The Application Development Team shall be working on all sorts of Development IDEs and the software used for the development of application requires a high compute to work on. Additionally, some the developers like to work on laptops and some desktops. Some Desktops are available in the SCRB at present and more are required for the team members in the Police Software Development Centre. Workstations for development environment are required for the developers as the large amount of





सूचना प्रौद्योगिकी और संचार विभाग

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

computing power is required for working on high end applications like CCTNS, Data Analytics on SAS/ Tableau, Database Management on MySQL etc. Mobile Phone, Tablets and iPAdS are also required for the development and testing of different Apps to be developed as per requirements of Police. Training Labs/ discussion Rooms shall also be setup as part of Police Software Development Centre for which Interactive Flat Panel Displays are required to be installed.

Requirement of the H/w is listed as under:

		(Rs. in Lakh)	
SN	Item/ Work	Quantity	Amount
1.	Laptop	75	106.00
2.	Workstations (Windows/Linux)	75	152.50
3.	Workstation (iOS)	4	6.00
4.	Heavy Duty Printers (Print, Scan, Copy)	2	2.00
5.	Mobile (Android) (For Android App Development and Testing)	1	0.50
6.	Mobile (iOS) (For iOS App Development and Testing)	1	0.70
7.	Android Tablets (For Android App Development and Testing)	1	0.60
8.	IPAD (For iOS App Development and Testing)	1	0.70
9.	Interactive Flat Panel Display (85") (For Training Labs/ Discussion Rooms)	4	14.00
10.	UPS (5 KVA)	4	5.00
11.	Networking		2.00
<b>Total (Including GST)</b>			<b>290.00</b>

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

**Overall Financial Implication for establishing the Development Center:**

		(Rs. in Lakh)	
SN	Item/ Work	Amount	
A.	Hiring Services from CDAC for application maintenance & support and providing support in development of in-house team for (One Year)	991.20	
B.	Capacity Building and Training (8 months)	103.84	
C.	IT Equipment (Hardware)	290.00	
<b>Grand Total (Including GST)</b>			<b>1385.04</b>

**Fund Management:**

Expenditure would be met from the funds managed by Home/ Police Dept.

**The Committee accords technical approval on the proposal having estimated cost of Rs. 1385.04 Lakh.**

**19. Project : Implementation of Billing Solution (Revenue Management System-RMS) for Rajasthan DISCOMs (DISCOMs) on SAAS Basis”**

The Committee was informed about the proposal. JdVVNL and AVVNL Discoms of Rajasthan are in emergent situation need in respect of replacing existing billing solutions developed under RAPDRP – Part A (IT) scheme. Further, the existing work order for JVVNL is also

## GOVERNMENT OF RAJASTHAN

### Department of Information Technology & Communication

completing in Dec-2022 and therefore all three Rajasthan Discoms are in urgent need to float NIT for Billing solution (Revenue Management System-RMS).

As per the RDSS Scheme approval, under IT/OT enablement, the work of implementation of RMS (Billing Solution) has been sanctioned for each Discom. Looking to the requirement in all three Discom, it has been decided to float Single NIT for all three Discoms of Rajasthan on SAAS basis for a contract period for 5 years so that Common/unified Billing solution is deployed across state.

The common specification Approval Committee in the Meeting held on 26th May 2022 has prepared/finalized major terms and conditions for the Revenue Management System tender on SAAS (System as a Service) to meetup future requirement of Common/unified Billing solution deployed across state & RDSS Scheme approval.

The proposed RMS solution shall have OPEX component for providing Billing solution and MDM Services (with Pre-paid functionalities) for Smart Metering as per the approved DPRs for JVVNL, AVVNL and JdVVNL with Estimated cost of 150 Cr. plus essential hardware component also on OPEX basis.

Major terms and conditions for single tender document for three Discoms as approved by the common specification Approval Committee for RMS Tender after incorporating recommendations of PeMT (meeting held on dated 06-06-2022) and further recommended by the PeMT are mentioned as hereunder: -

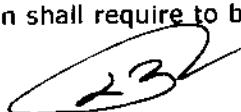
**Scope of Work:**

The scope of work shall generally be in line with ongoing Project of Jaipur Discom, however, necessary changes shall be made according to requirement of Rajasthan Discoms and shall be taken into consideration and incorporated in the RFP accordingly.

Proposed software modules are as mentioned below:

SN	Software Module
1	Core Billing System
2	Revenue Management System including MBC with New Connection & DC- RC
3	Feeder Information System
4	GIS Information System
5	Consumer Information and Service System with Consumer Mobile App. and Web-self services portal.
6	Mobile Apps Development, Deployment and Maintenance Field Services App (Spot Billing, Collection, Meter Installation, Meter Change, Disconnection, Reconnection, Geo-tagging & Single Line Diagram Creation, Officers Mobile App., Consumer Mobile APP, Vigilance Mobile App, Meter Testing/ JIR App.)
7	Energy Audit
8	Meter Data Management & related Information System
9	Management Information System Dashboards and Reports
10	Centralized Customer Care System including Helpdesk Module
11	System Support with Ticketing

The complete solution RMS and MDM shall be hosted at State Data Centre/ Disaster Recovery Centre Govt. of Rajasthan as Cloud. A tripartite agreement (if applicable) shall be entered between the SI, CSP and Discoms for ensuring the industry standard hosting services before data migration to cloud. Copy of order of GoR indicating Details of Hosting charges at State Data Centre (cloud services) is enclosed for ready reference. Necessary skill set for maintenance of offered software application shall require to be deployed by the successful Bidder as per need.



GOVERNMENT OF RAJASTHAN  
Department of Information Technology & Communication

**Contract Period:**

The contract period shall be 5 years from the date of award. However, contract period can be extended up to 2 years as per requirement of Discoms.

**Financial Implication:**

Estimated cost of Rs. 350 Cr. (150 Cr. under RDSS plus essential hardware component also on OPEX basis).

**Fund Management:**

Expenditure would met from the funds of Discoms/ Energy Dept.

**The Committee accords technical approval on the proposal having estimated cost of Rs. 350.00 Crores subject to incorporating the decisions taken in subsequent meetings held by JVVNL with DoIT&C for evaluation of JVVNL proposal.**

**20. Project : Selection of System Integrator (ERPSI) for Supply, Installation, Commissioning, Implementation and Support for Enterprise Resource Planning (ERP) System at Rajasthan Discoms**

The Committee was briefed about the proposal. The ERP system implemented by RISL is customization on existing Product and is based on regional practices with constraint functionalities, ERP System consists of four modules namely Finance and Accounting module, HRMS Module, MM Module and WPM Module. This existing ERP System does not comply with the complete requirement and objectives as envisaged and One Module and other Submodules functionalities could not be develop by RISL. The Closure of the ERP project under the IPDS Scheme has been submitted and approved by the PFC in March-22. Further, Closure of the Project with RISL, has also being taken up in all three Discom. RISL is further offering to implement complete ERP solution on revised rates under Phase-III.

As per the RDSS Scheme approval, under IT/OT enablement. The work of Upgradation of ERP versions Plus New Modules and Hardware & Services has been sanctioned for each Discom. Looking to the requirement in all three Discom, It has been decided to float Single NIT for all three Discoms of Rajasthan on turnkey basis with FMS period for 5 years (3+2) so that Common ERP is deployed across State.

PFC vide letter No. 77681 dated 05-07-2022, has released the Standard bidding document for ERP projects under RDSS to Discom and as per Section 6 Chapter-1 "Overview of the ERPSI Scope of Work" Clause No. 1.4 stipulates that-

"The ERP system should be designed such that all the required hardware, software, and firmware with upgrades satisfy the ERP system requirements and service level agreements as specified in this Contract while considering technical obsolescence over the operating life of the system and suitability for future scale up. The ERP platform shall be an available off the shelf product (COTS) capable of integrating the different business functions mentioned above. Entire responsibility of the fully functional ERP system shall rest with the ERPSI in order to meet the performance levels as given in the contract. The ERPSI shall ensure that the Solution complies with the Applicable Law, technical specifications, and other provisions of the Contract".

Therefore, in compliance to the order issued by Energy Dept., GoR vide dated 21-09-2010 and as recommended by PeMT of Energy Dept.; the Complete content of agenda note is hereby submitted before the members of the State e-governance Mission team (SeMT) for approval to close the existing ERP project as per provisions laid down in work order and to implement "Selection of System Integrator (ERPSI) for Supply, Installation, Commissioning, Implementation and Support for Enterprise Resource Planning (ERP)

## GOVERNMENT OF RAJASTHAN

### Department of Information Technology & Communication

System in Rajasthan Discoms" on COTS basis as per Standard Bidding Documents/ Guidelines of the RDSS.

**Financial Implication:**

Estimated cost of the proposal is Rs. 90.00 Crores.

**Fund Management:**

Expenditure would be met from the funds of Discoms/ Energy Dept.

**The Committee defers the proposal till next SeMT meeting.**

**21. Project : Customization, Implementation and Maintenance of IT System for Mahila Nidhi Credit Co-Operative Federation, Rajasthan [Rajasthan Grameen Aajeevika Vikas Parishad (RGAVP)]**

The Committee was briefed about the proposal as in compliance of the Budget Announcement, Rajasthan Mahila Nidhi Credit Co-operative Federation Ltd. (RMN) is established and inaugurated by Hon'ble Chief Minister, Rajasthan on 26-08-2022.

For this, Rajeevika has undergone an MoU with Telangana Stree Nidhi regarding establishment of Rajasthan Mahila Nidhi Credit Co-operative federation Ltd. As per MoU the TSP of Telangana Stree Nidhi i.e. TCS will develop and maintain the software and Core Banking System.

In order to customization, implementation and maintenance of IT System related Rajasthan Mahila Nidhi, Telangana Stree Nidhi has submitted the proposal of TCS. Following are the key modules for the proposed solution:

1. eFMS Mahila Nidhi Loan Processing
2. Loan Authentication Module
3. DCB & Accounting Module
4. Insurance and Claim Processing Module
5. Mana Mahila Nidhi Mobile Application
6. Attendance Android Application

Telangana Stree Nidhi would be administrative body for validating the invoices/deliverables etc. after UAT from the Rajasthan Mahila Nidhi. The solution should be integrated with the existing IT initiatives/ecosystem of the state of Rajasthan such as Jan Aadhar, eMitra, SSO, Raj Masters, e-vault etc. and other IT solutions related to Rajeevika.

**Financial Implication:**

(Amount in Rs.)

S.N.	Module	Role	No. of Resources	Cost Per Person Month Excl. of Taxes	Total Cost (Aug. 2022- July 2023) excl. of all applicable taxes
1	Project Manager	Manager	1	1,75,000	21,00,000
2	Mahila Nidhi IT Application, MIS & Loan Processing System, Bank File 2 Processing, Loan suraksha and Claim settlement Module	.Net Developer	2	1,35,000	32,40,000
		SQL Server Developer	1	1,35,000	16,20,000
3	Loan Authentication, Manager APP, Mana Mahila Nidhi Application, Android Attendance APP, E-sign	Android Developer	1	1,35,000	16,20,000
		.Net Developer	1	1,35,000	16,20,000

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

4	Mahila Nidhi Accounting Module, DCB System and Payment Integration Developer Modules	SQL Server Developer .Net Developer	2 1	1,35,000 1,35,000	32,40,000 16,20,000
5	Database Administrator	Database Administrator	1	1,35,000	16,20,000
6	Testing & Support	Tester	2	1,35,000	32,40,000
7	Infrastructure Support	Support	1	1,35,000	16,20,000
	<b>Total</b>		<b>13</b>		<b>2,15,40,000</b>

**Fund Management:**

Expenditure would be met from the fund managed by Rajasthan Grameen Aajeevika Vikas Parishad.

**The Committee accords technical approval on the proposal having estimated cost of Rs. 215.40 Lakh.**

**22. Project : eBazaar-2.0**

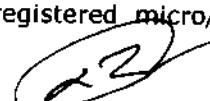
The Committee was informed about the proposal as in the financial year 2016-17, State Government initiated conceptualization and development of an online store as the aggregator store for the products being made by rural artisans under the ambit of Industries Department. Later-on, the store has been opened to register and sell products which are being manufactured/ sold by the various departments or the agencies of Government.

Accompanied by e-bazaar portal, the solution is expandable, customizable and Integrable to accommodate requirements/ processes of various departments. Also, the State used the concept of e-bazaar and developed e-bazaar Covid-19 mobile app to manage supply chain of essential items from suppliers to citizen during the lockdown period of COVID-19 pandemic. The app facilitated citizen, retailers, suppliers and administration to manage supply of the essential items.

Presently, 35 Depts./ Agencies and 9 registered startups in i-Start of Rajasthan State are associated with e-Bazaar with 776+ respective products and total orders processed till date is 66567+.

Year wise expenditure incurred in eBazaar Project (Rs. in Lakh)			
Financial Year	Manpower Services	Logistics Services	Total Expenditure
2016-17	0.00	2.74	2.74
2017-18	179.02	24.40	203.42
2018-19	100.85	21.80	122.65
2019-20	67.99	15.08	83.07
2020-21	23.32	2.75	26.07
2021-22	52.02	0.98	53.00
2022-23	11.65	0.39	12.04
	<b>₹ 434.85</b>	<b>₹ 68.14</b>	<b>₹ 502.99</b>

The State Govt. intended to expand e-bazaar platform with the strategic aim to support artisan/ weaver/ Self Help Groups/ Government Organizations/ registered micro/ small industries of the state to achieve following objectives:



## GOVERNMENT OF RAJASTHAN

### Department of Information Technology & Communication

1. Expand existing solutions in integrated manner with B2G & B2C exploration
2. Strengthen with technology and process driven industry standards
3. Provide access of Global Market for marketing and selling their products
4. Reduce start-up cost with integrated solution package
5. Meeting the livelihood needs and socio-economic development of state

The e-Bazaar platform has extensive scope for 360o expansion with new verticals such as G2G, G2C, G2B, and vice & versa. Consequently, the platform may be enhanced to cover end to end e-Commerce activities with integrated existing platforms/ software stack such as SIMS, Artisan/ MSME registration portal/ SSO etc., emerging technologies, partnering industries under various domains/ sectors by onboarding them as sellers/ service providers/ logistic partners with their respective high-quality products/ services and establishment of PMU/TSG having expertise in various e-commerce verticals.

**Furthermore, there is an announcement in the state's budget session of financial year 2021-22 for Dept. of Industries, GoR as follows:**

**उद्योग :**

**35.** राज्य में Self Help Groups, Rural Artisans तथा विभिन्न Handicrafts से जुड़े कारीगरी को तकनीकी प्रशिक्षण, Business Enterprise रो साब्धित Skills उपलब्ध कराने एवं Marketing Linkage/Resource Mobilisations में समुचित सहायता उपलब्ध कराने की दृष्टि से Rajasthan Centre of Crafts and Design Management राजस्थान कर्मा प्रशासनिक रोड़े पर स्थित 25 करोड़ रुपये का प्रावधान किया जाना प्रस्तावित है।

एसो लाइसेंस एवं राज्यालय की प्रोत्तराना देने के लिए इस प्रकार निर्मित उच्च गुणवत्ता वाले उत्पादों की विक्री e-बाजार Online Platform के माध्यम से करने की सुविधा उपलब्ध कारीगरी जारी रखी। इनके तथा राज्य में पंजीकृत MSME के उत्पादों की e-बाजार के माध्यम से राजकीय विभागों द्वारा 10 लाख रुपये तक की खारीद विना टेंडर प्रणाली के दिये जा सकेंगी।

**105.** युवाओं को प्रतिभा दिखाने व रवरोजगार प्राप्त करने का अवसर प्रदान करने के उद्देश्य से स्टार्टअप्स को बढ़ावा दिया जायेगा। राज्य में रजिस्टर्ड स्टार्टअप्स को, विभिन्न विभागों द्वारा, चयनित कार्यों हेतु 15 लाख रुपये तक के कार्यादेश विना टेंडर प्रणाली के दिये जा सकेंगे।

For the compliance of above mentioned budget announcement and to enhance and expand the eBazaar project it is proposed to hire a SI to develop new e-commerce platform (eBazaar 2.0) & manage respective e-commerce operations i.e. marketing, promotion, onboarding of sellers, logistics, grievance redressal, consumer related issues etc.

**Financial Implication:**

The estimated cost of the project for three years will be **INR 1146.00 Lakh**.

S.No.	Year	Particulars	Total cost/Year
1	2022-23	• Hiring/ Engagement of SI/ SA/ TPA/ PMC	INR 382.00 Lakh
2	2023-24	• Development of Portal & FMS	INR 382.00 Lakh
3	2024-25		INR 382.00 Lakh



सूचना प्रौद्योगिकी और संचार विभाग

## GOVERNMENT OF RAJASTHAN

### Department of Information Technology & Communication

#### **Fund Management:**

For Existing Project expenditure of INR 503 Lacs was borne by RISL being an in-house developed project. For the development & FMS of eBazaar 2.0 platform and respective e-commerce operations, fund of INR 1146 Lacs will be provided by Industries Department.

**The Committee accords technical approval on the proposal having estimated cost of Rs. 1146.00 Lakh for eBazaar-2.0, and post-facto approval of Rs. 503.00 Lakh for existing eBazaar project.**

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. PS to Addl. Chief Secretary, Home Dept., Rajasthan, Jaipur
2. PS to Principal Secretary, Finance Dept., Rajasthan, Jaipur
3. PS to Principal Secretary, Water Resources Dept., Rajasthan, Jaipur
4. PS to Principal Secretary, Election Dept., Rajasthan, Jaipur
5. PS to Principal Secretary, Energy Dept., Rajasthan, Jaipur
6. PS to C.M.D., Rajasthan State Vidhyut Prasaran Nigam Ltd. (RVPNL), Jaipur
7. PS to Principal Secretary, Law & Legal Affair Dept., Rajasthan, Jaipur
8. PS to Secretary, Planning Dept., Rajasthan, Jaipur
9. PS to Secretary, Finance (Revenue), Rajasthan, Jaipur
10. PS to Secretary, Medical & Health Dept., Jaipur
11. PS to Addl. Chief Electoral Officer, Election Dept., Secretariat, Jaipur
12. PS to Secretary, Social Justice & Empowerment Dept., Rajasthan, Jaipur
13. PS to CEO, State Health Assurance Agency, Rajasthan, Jaipur
14. PS to Secretary, Ayurved & Indian Medicine Dept., Rajasthan, Jaipur
15. PS to Excise Commissioner, Rajasthan, Jaipur
16. PS to Collector & District Magistrate, Collectorate, Jaipur
17. PS to Director, Social Justice & Empowerment Dept., Rajasthan, Jaipur
18. PS to Commissioner & Joint Secretary, Dept. of IT&C, Rajasthan, Jaipur
19. PS to Director, State Insurance & Provident Fund Dept., Rajasthan, Jaipur
20. PS to Joint CEO, RSHAA, Rajasthan, Jaipur
21. PS to Inspector General of Police, SCRB, Rajasthan Police Dept., Jaipur
22. PS to Secretary, Law Department, Rajasthan, Jaipur
23. PA to Joint Secretary, Finance (Expenditure-III) Dept., Raj., Jaipur
24. PA to Director, Directorate of Ayurveda, Rajasthan, Ajmer
25. PA to Director (Technical), RajCOMP Info Services Limited, Jaipur
26. PS to DDG & SIO, NIC, Rajasthan, Jaipur
27. PA to Chief Engineer, QC & Vigilance, WRD, Sinchay Bhawan, JLN Marg, Jaipur
28. Shri Anil K. Singh, Group General Manager (T), RISL, Jaipur
29. Shri M.M. Tiwari, Joint Chief Electoral Officer (IT), Election Dept., Secretariat, Jaipur



राजस्थान शैक्षणिकी और संचार विभाग

## GOVERNMENT OF RAJASTHAN

### Department of Information Technology & Communication

30. Shri Akhilesh Mittal, Technical Director, Dept. of IT&C, Jaipur
31. Shri Sushil Parihar, Technical Director, Dept. of IT&C, Jaipur
32. Shri Rajesh Kumar, Technical Director, Dept. of IT&C, Jaipur
33. Shri Dhanlal Sherawat, Sr. Addl. Director, SI&PF Dept., Jaipur
34. Shri C.P. Singh, General Manager (Technical), RISL, Jaipur
35. Shri Sanjay Singhal, Addl. Director, SCRB, Jaipur
36. Shri Hari Mohan Gupta, Addl. Director, Collectorate, Jaipur
37. Shri Shailendra Krishnatri, Addl. Director, Dept. of IT&C, Jaipur
38. Addl. Chief Engineer (IT), Raj. State Vidyut Prasaran Nigam Ltd. (RVPNL), Jaipur
39. Shri Sanjay Agarwal, Suptdg. Engineer (MIS, SPMU-NHP & RSWIC), WRD, Jaipur
40. Smt. Poonam Choudhary, Chief Accounts Officer, Dept. of IT&C, Jaipur
41. Ms. Sonia Chaturvedi, Addl. Director, Dept. of IT&C, Jaipur
42. Shri Jitendra Sharma, SA (JD), RBCL, Jaipur
43. Shri Ashish Kumar Gupta, SA (JD), Dept. of IT&C, Jaipur
44. Shri Praveen Kumar, ACP (Dy. Dir.), Social Justice & Empowerment Dept., Jaipur
45. Shri Rajendra Kumar Nayak, ACP (Dy. Dir.), SI&PF Dept., Jaipur
46. Shri Kamlesh Yogeshwar, Deputy Director, SI&PF Dept., Jaipur
47. Shri Dinesh Gurjar, ACP (Dy. Dir.), Dept. of IT&C, Jaipur
48. Shri Deepak Kumar, ACP (Dy. Dir.), Dept. of IT&C, Jaipur
49. Shri Amit Sharma, Manager (Technical), RISL, Jaipur
50. Shri Anshu Jain, Assistant Engineer, O/o the SE (MIS & IT), RVPN, Jaipur
51. Shri Kamlesh Singhal, Programmer, Directorate of Ayurveda, Raj., Ajmer
52. Shri Pankaj Kumar Sharma, Programmer, RSHAA, Jaipur
53. Ms. Priyanaka Yadav, Programmer, Law & Legal Affairs Dept., Rajasthan, Jaipur
54. Director, LNMIIT, Jaipur
55. Guard File.



(Sushil Parihar)  
Technical Director

GOVERNMENT OF RAJASTHAN  
Department of Information Technology & Communication

**Annexure-A**

**94<sup>th</sup> Meeting of SeMT held on 21-10-2022 - List of Attendees**

S. No.	Name of officer	Designation
1.	Shri Akhil Arora	Principal Secretary, Finance Dept./ Dept. of IT&C
2.	Smt. Kalpana Agrawal	Director, State Insurance & Provident Fund Dept.
3.	Shri Ashish Gupta	Commissioner & Joint Secretary, IT&C
4.	Ms. Anupama Rajeev Bijlani	Secretary, Law Department, Rajasthan
5.	Shri H.K. Juneja	Joint Secretary (Exp. -III), Finance Dept.
6.	Shri D.R. Meena	Chief Engineer, QC & Vigilance, WRD
7.	Shri M.M. Tiwari	Joint Chief Electoral Officer (IT), Election Dept.
8.	Shri Akhilesh Mittal	Technical Director, DoIT&C
9.	Shri Sushil Parihar	Technical Director, DoIT&C
10.	Shri R. Vardarajan	Technical Director, DoIT&C
11.	Shri Rajesh Kumar	Technical Director, DoIT&C
12.	Shri C.P. Singh	General Manager (Technical), RISL
13.	Shri Shailendra Krishnatri	Addl. Director, Dept. of IT&C
14.	Ms. Sonia Chaturvedi	Addl. Director, Dept. of IT&C
15.	Shri Rajesh Gupta	Addl. Director, Dept. of IT&C
16.	Shri G D PAMNANI	Addl. Chief Engineer (IT), RVPN
17.	Shri Sanjay Agarwal	Suptdg. Engineer (MIS, SPMU-NHP & RSWIC), WRD
18.	Smt. Poonam Choudhary	Chief Accounts Officer, Dept. of IT&C
19.	Shri Praveen Kumar	ACP (Dy. Dir.), SJ&E Dept.
20.	Shri Deepak Kumar	ACP, DoIT&C
21.	Shri Dinesh Gurjar	ACP, DoIT&C
22.	Shri Rajkumar Singh	ACP, Dept. of IT&C, Jaipur
23.	Shri Anil Sharma	ACP, SCRB
24.	Shri Rohit Soti	ACP, Medical & Health Dept.
25.	Shri Natwar Singh	ACP, Dept. of IT&C, Jaipur
26.	Shri Hardeep Puri	Project Director, Rajeevika, RGAVP, Jaipur
27.	Shri Sharad Kaviraj	Inspector General of Police, SCRB, Rajasthan Police
28.	Shri Sanjay Singh	Addl. Director, SCRB
29.	Shri Amrit Sharma	Manager (Technical), RISL
30.	Shri Anshu Jain	Assistant Engineer, O/o the SE (MIS & IT), RVPN
31.	Ms. Priyanaka Yadav	Programmer, Law & Legal Affairs Dept.
32.	Dr. Vijay Prakash Gautam	Project Director, National Ayush Mission
33.	Shri Suresh Chandra	OSD, Election Dept.
34.	Shri Naresh Gupta	Additional SIO, NIC
35.	Shri Dinesh Sharma	ADM-1 <sup>st</sup> , Collectorate, Jaipur
36.	Shri Sunil Bhati	ED, RSBCL
37.	Shri Jitendra Sharma	DGM (MIS) & SA (JD), RSBCL, Jaipur
38.	Shri Pankaj Kumar Sharma	PRG, RSHAA
39.	Shri Naraian Paliwal	OSD, Planning Dept.
40.	Shri A.K. Joshi	CCOA, Jaipur, DISCOM
41.	Ms. Garima Sharma	AEN (MIS&IT), RVPN, Jaipur
42.	Shri R.N. Bishnoi	SE (IT), JOVVNL, Jodhpur
43.	Shri Nikhil Meena	Assistant Programmer, Dept. of IT&C, Jaipur
44.	Shri Kamlesh Yogeshver	Dy. Director, GAD, SI&PF Dept.

GOVERNMENT OF RAJASTHAN  
 Department of Information Technology & Communication

## Annexure-“B”

Observation/ view/ minimum technical specification suggested by Technical Committee (T.C.) of Dept. of IT&C for “**Procurement of IT hardware i.e., Desktop Computers (All-in-One), Laptops, Printers, MFP, Color printers, UPS, Scanners etc. with 5 years support services**” by RVPNL are as mentioned below:

## 1. Desktop Computer (All in One PC):

Item	Minimum Technical Specification
Processor	Intel i5 (12 <sup>th</sup> Generation or higher) 6 Core or higher, with minimum 2.5 GHz or higher (Base Frequency), 18 MB Cache or higher
Chipset	Compatible Intel Chipset
Motherboard	OEM Motherboard
Operating System	Pre-installed Genuine OEM Microsoft Windows 11 or higher Professional (64 bit) with OEM recovery partition/ recovery DVD
Graphics	Integrated Graphics Card
Memory (RAM)	8 GB DDR4 with minimum 2 DIMM Slots, Expandable up to 64 GB
Storage	512 GB SSD
Optical drive	DVD R/W
Ports	Minimum 5 USB ports with at least 2 USB 3.0 ports, HDMI, 1 DP port audio jack for headphone & microphone, type C port
Display	Minimum 21" inch or higher, Resolution 1920x1080 or higher Display, TCO Certified
Keyboard & Mouse	OEM USB Keyboard & OEM USB two button optical Mouse With mouse Pad
Certification	RoHS Compliance, BIS, ISO for OEM
Camera (Built in):	Full HD IR Camera
Speaker And Microphone	Integrated audio controller with internal speakers; Integrated Dual Array Microphone
Network Interface	Integrated 10/100/1000 GB Ethernet
Antivirus	Preloaded (Latest Version) Internet Security of Trend Micro/ Quick Heal/ Symantec/ Sophos/ Kaspersky
Accessories	All necessary cables (Power & data cables) , 3 Mtr CAT 6 patch cord

## 2. Laptop:

Item	Minimum Technical Specification
Processor	Intel Core i5 (12 <sup>th</sup> Generation or higher) with minimum 4 core, 8 MB cache or higher
Operating System	Pre-installed Genuine OEM Microsoft Windows 11 or higher Professional (64 bit) with OEM recovery partition/ recovery DVD
Display	14" or higher diagonal +/-5%, FHD Display
Memory (RAM)	8 GB DDR4 or higher, expandable up to 32 GB
Hard Drive	1 TB SATA/ 512 GB SSD
Speaker & Microphone	Inbuilt speakers and integrated digital microphone
Connection Type	Minimum 2 USB 3.0 or higher, 1 HDMI 2.0, Headphone/ microphone combo/ separate, 1 USB type C port
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 6 Hrs.
Power Adapter	Standard OEM power adapter
Antivirus	Preloaded Internet Security of Trend Micro/ Symantec/ Sophos/ Quick Heal/ Kaspersky
Keyboard	OEM standard keyboard
Certification	RoHS Compliance, BIS, OEM certification for preloaded operating system
Accessories	Carry Bag

23



मूलना प्रौद्योगिकी और संचार विभाग

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

**3. Ink Tank Printers (Black):**

Item	Minimum Technical Specifications
Type	Ink Tank, Monochrome
Print Speed	25 PPM
Functions	Print
Duty Cycle (Monthly)	10000 Pages
Print Resolution	600 x 600 dpi
Duplex Printing	Auto
Port	USB, Ethernet, WiFi
Pre-installed ink bottle with yield	1 Black ink bottle with minimum 5000 pages yield
Tray	Input Tray : Min 100 sheets Output Tray: Min 100 Sheets
Certification	BIS, ISO for OEM
Processor	500 MHz or higher
Memory	256 MB or higher
Operating System	Windows and Linux

**4. Multi-Function Printers (Monochrome):**

Item	Minimum Technical Specification
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, 11 and Linux- Ubuntu
Cables/ Accessories	All the required cables, accessories
Software Media	Driver & Utility software CD/ DVD
Certifications	BIS, ROHS

**5. Scanners:**

Item	Minimum Technical Specification
Type	Flat bed with ADF
Scan Resolution, optical	600 dpi or more
Scan file format	PDF, JPEG, TIFF, BMP etc.
Media size supported	At least A4, A5 & Legal through ADF
Features	Single Pass Duplex scanning
Automatic document feeder speed	25 ppm or more (Black & White, Grey Scale and color)
Duty Cycle	Minimum 500 per day

GOVERNMENT OF RAJASTHAN  
 Department of Information Technology & Communication

Item	Minimum Technical Specification
Automatic document feeder capacity	50 or more
Compatible operating systems	Windows 7, 8, 10 & 11 or higher
Connectivity	USB
Software media	Driver & Utility software CD/DVD
Certifications	BIS, ISO

## 6. Color Printers -A4:

Item	Minimum Technical Specifications
Printing Technology	Ink Tank
Printing function	Print, Copy, Scan
Type of printing	Colour
Auto Duplex Print	Yes
Paper Size	A4, Legal
Print Speed (A4)- Mono	20 ppm or higher
Print Speed (A4)- Color	20 ppm or higher
Print Resolution (dpi)	600x600 dpi or higher
Scan Resolution	600x600 dpi or higher
Scan file format	PDF, JPEG, TIFF, BMP etc.
Memory (MB)	256 MB or higher
Network connectivity	USB, Ethernet, Wi-Fi
Ink Bottles / Cartridges	Black & Colour Ink Bottle pre install
Page Yield	Minimum 8000 pages from pre-installed ink bottle set/ cartridge
Paper tray capacity (A4)	150 pages or higher
Duty cycle/ Month (No. of prints)	10000 pages or higher
Software media	Driver & utility software CD/DVD
Compatible operating systems	Windows 7, 8, 10 & 11 (32 bit/64 bit), Linux, Mac OS.
Cables and accessories	All the required cables, accessories
Certification	BIS, ISO

## 7. Color Printer - A3:

Item	Minimum Technical Specifications
Printing Technology	Ink Tank (Black & Color Both)
Printing function	Print, Copy, Scan
Type of printing	Color
Auto Duplex Print	Yes
Media Size Support	Up to A3
Print Speed	20 ppm or higher on A4 and 10 ppm or higher on A3
Print Resolution (dpi)	600x600 dpi or higher
Scan/Copy Resolution	600x600 dpi or higher
Scan type/technology	Flatbed with ADF
Auto Duplex Scanning through ADF	Yes
Scan speed through ADF	20 PPM Simplex
ADF paper capacity	50 pages or higher
Scan file format	PDF, JPEG, TIFF, BMP etc.
Memory (MB)	256 MB or higher
Network connectivity	USB, Ethernet, Wi-Fi
Ink Bottles / Cartridges	Black & Colour Ink Bottle pre install
Page Yield	Minimum 5000 pages from pre-installed ink bottle set / cartridge
Paper Input tray	2 Nos



सूचना प्रौद्योगिकी और संचार विभाग

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

<b>Item</b>	<b>Minimum Technical Specifications</b>
Paper Input tray capacity	250 pages each tray
Rear feed paper capacity	50 pages or higher
Paper Output tray capacity	100 pages or higher
Duty cycle/ Month (No. of Prints)	10000 pages or higher
Software Media	Driver & utility software CD/DVD
Compatible operating systems	Windows 7, 8, 10 & 11 (32 bit/64 bit), Linux, Mac OS.
Cables and accessories	All the required cables, accessories
Certification	BIS, ISO

**8. UPS 1KVA:**

<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)

23

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

**Annexure - "C"**

Observation/ view/ minimum technical specification suggested by Technical Committee (T.C.) of Dept. of IT&C for "Procurement of 500 Laptops for 500 new Health & Wellness centers developed across the State under Ayushman Bharat Yojana of GoI" submitted by Directorate of Ayurved Dept. are as mentioned below:

**Laptop i3 Configuration-**

<b>Item</b>	<b>Minimum Technical Specification</b>
Processor	Intel Core i3 (12 <sup>th</sup> Generation or higher), Minimum 6 Core, 10 MB Cache or higher
Operating System	Pre-installed Genuine OEM Microsoft Windows 11 or higher Professional/ Home (64 bit) with OEM recovery partition/ recovery DVD
Display	14" or higher diagonal +/- 5%, FHD Display
Memory (RAM)	8 GB DDR4 or higher, expandable up to 32 GB
Hard Drive	1TB SATA
Speaker & Microphone	Inbuilt speakers and integrated digital microphone
Connection Type	Minimum 2 USB 3.0 or higher, 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 6 Hrs.
Power Adapter	Standard OEM power adapter
Antivirus	Preloaded Internet Security of Trend Micro/ Symantec/ Sophos/ Quick Heal/ Kaspersky
Keyboard	OEM standard keyboard
Certification	RoHS Compliance, BIS, OEM certification for preloaded operating system
Accessories	Carry Bag
Weight	Not more than 1.6 KG





सूखना प्रौद्योगिकी और संचरण विभाग

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

**Annexure - "D"**

Observation/ view/ minimum technical specification suggested by Technical Committee (T.C.) of Dept. of IT&C for "**Procurement of Computer Hardware & Allied Item for Water Resources Dept. (WRD)**" submitted by **Water Resource Dept.** are as follows:

**1. Desktop Computer (i7):**

<b>Item</b>	<b>Minimum Technical Specification</b>
Processor	Intel i7 (12 <sup>th</sup> Generation <b>or higher</b> ), minimum 8 Core, with minimum 2.1 GHz or higher (Base Frequency), 25 MB Cache or higher
Chipset	Compatible Chipset
Motherboard	OEM Motherboard
Operating System	Pre-installed Genuine OEM Microsoft Windows 11 or higher Professional/ Home (64 bit) with OEM recovery partition/ recovery DVD
Graphics	Integrated Graphics
Memory (RAM)	16 GB DDR4 with min. 2 DIMM Slots, Expandable up to 64 GB
Storage	512 GB SSD/ 1 TB SSD
Optical drive	DVD R/W
Ports	Minimum 6 USB ports with at least 2 USB 3.0 ports, 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
Keyboard & Mouse	OEM USB Keyboard & OEM USB 2 button optical mouse with mouse pad
Network Interface	Integrated 10/100/1000 GB Ethernet
Certification	RoHS Compliance, OEM certification for preloaded Operating System
Accessories	All necessary cables (Power & data cables), 3 Mtr CAT 6 patch cord

**2. Desktop Computer (i5):**

<b>Item</b>	<b>Minimum Technical Specification</b>
Processor	Intel i5 (12 <sup>th</sup> Generation <b>or higher</b> ) with minimum 2.50 GHz or higher (Base Frequency), 18 MB Cache or higher
Chipset	Compatible Chipset
Motherboard	OEM Motherboard
Operating System	Pre-installed Genuine OEM Microsoft Windows 11 <b>or higher</b> Professional/ Home (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, 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
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, OEM certification for preloaded Operating System
Accessories	All necessary cables (Power & data cables), 3 Mtr CAT 6 patch cord

GOVERNMENT OF RAJASTHAN  
 Department of Information Technology & Communication

## 3. MFP:

Item	Minimum Technical Specification
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

## 4. Ink Tank Printer (Black):

Item	Minimum Technical Specifications
Type	Ink Tank, Monochrome
Print Speed	25 PPM
Functions	Print
Duty Cycle (Monthly)	10000 Pages
Print Resolution	600 x 600 dpi
Duplex Printing	Auto
Port	USB, Ethernet, WiFi
Pre-installed ink bottle with yield	1 Black ink bottle with minimum 5000 pages yield
Tray	Input Tray : Min 100 sheets Output Tray: Min 100 Sheets
Certification	BIS, ISO for OEM
Processor	500 MHz or higher
Memory	256 MB or higher
Operating System	Windows and Linux

## 5. Laptop:

Item	Minimum Technical Specification
Processor	Intel Core i5 ( <b>12<sup>th</sup> Generation or higher</b> ) with minimum 4 core, 8 MB cache or higher
Operating System	Pre-installed Genuine OEM Microsoft Windows 11 <b>or higher</b> Professional/ Home (64 bit) with OEM recovery partition/ recovery DVD
Display	14" or higher diagonal +/-5%, FHD Display
Memory (RAM)	8 GB DDR4 or higher, expandable up to 32 GB
Hard Drive	1 TB SATA/ 512 GB SSD
Speaker & Microphone	Inbuilt speakers and integrated digital microphone
Connection Type	Minimum 2 USB 3.0 or higher, 1 HDMI 2.0, Headphone/ microphone combo/ separate, 1 USB type C port



सूचना प्रौद्योगिकी और संचार विभाग

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

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 6 Hrs.
Power Adapter	Standard OEM power adapter
Antivirus	Preloaded Internet Security of Trend Micro/ Symantec/ Sophos/ Quick Heal/ Kaspersky
Keyboard	OEM standard keyboard
Certification	RoHS Compliance, BIS, OEM certification for preloaded Operating System
Accessories	Carry Bag

**6. UPS 1KVA:**

Item	Minimum Technical Specifications
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)



सूचना प्रौद्योगिकी और संचार विभाग

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

**Annexure - "E"**

Observation/ view/ minimum technical specification suggested by Technical Committee (T.C.) of Dept. of IT&C for "**Procurement of Computer H/w & Allied Items for HQ & District Offices of SJED**" submitted by **Social Justice & Empowerment Dept.** are as mentioned below:

**1. Desktop Computer (i7):**

<b>Item</b>	<b>Minimum Technical Specification</b>
Processor	Intel i7 (12 <sup>th</sup> Generation <b>or higher</b> ), minimum 8 Core, with minimum 2.1 GHz or higher (Base Frequency), 25 MB Cache or higher
Chipset	Compatible Chipset
Motherboard	OEM Motherboard
Operating System	Pre-installed Genuine OEM Microsoft Windows 11 or higher Professional/ Home (64 bit) with OEM recovery partition/ recovery DVD
Graphics	Integrated Graphics
Memory (RAM)	16 GB DDR4 with min. 2 DIMM Slots, Expandable up to 64 GB
Storage	512 GB SSD/ 1 TB SSD
Optical drive	DVD R/W
Ports	Minimum 6 USB ports with at least 2 USB 3.0 ports, 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
Keyboard & Mouse	OEM USB Keyboard & OEM USB 2 button optical mouse with mouse pad
Network Interface	Integrated 10/100/1000 GB Ethernet
Certification	RoHS Compliance, OEM certification for preloaded Operating System
Accessories	All necessary cables (Power & data cables), 3 Mtr CAT 6 patch cord

**2. Desktop Computer (i5):**

<b>Item</b>	<b>Minimum Technical Specification</b>
Processor	Intel i5 (12 <sup>th</sup> Generation <b>or higher</b> ) with minimum 2.50 GHz or higher (Base Frequency), 18 MB Cache or higher
Chipset	Compatible Chipset
Motherboard	OEM Motherboard
Operating System	Pre-installed Genuine OEM Microsoft Windows 11 <b>or higher</b> Professional/ Home (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, 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
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, OEM certification for preloaded Operating System
Accessories	All necessary cables (Power & data cables), 3 Mtr CAT 6 patch cord



सूचना प्रौद्योगिकी और संचार विभाग

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

**3. Laptop:**

<b>Item</b>	<b>Minimum Technical Specification</b>
Processor	Intel Core i7 (12 <sup>th</sup> Generation or higher) with minimum 4 core, 12 MB cache or higher
Operating System	Pre-installed Genuine OEM Microsoft Windows 11 or higher Professional/ Home (64 bit) with OEM recovery partition/ recovery DVD
Display	14" or higher diagonal +/-5%, FHD Display
Memory (RAM)	8 GB DDR4 or higher, expandable up to 32 GB
Hard Drive	1 TB SATA/ 512 GB SSD
Speaker & Microphone	Inbuilt speakers and integrated digital microphone
Connection Type	Minimum 2 USB 3.0 or higher, 1 HDMI 2.0, Headphone/ microphone combo/ separate, 1 USB type C port
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 6 Hrs.
Power Adapter	Standard OEM power adapter
Antivirus	Preloaded Internet Security of Trend Micro/ Symantec/ Sophos/ Quick Heal/ Kaspersky
Keyboard	OEM standard keyboard
Certification	RoHS Compliance, BIS, OEM certification for preloaded Operating System
Accessories	Carry Bag

**4. MFP:**

<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



सूचना प्रौद्योगिकी और संचार विभाग

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

**5. Ink Tank Printer (Mono):**

<b>Item</b>	<b>Minimum Technical Specifications</b>
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



सूचना प्रौद्योगिकी और संचार विभाग

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

**Annexure-“F”**

Observation/ view/ minimum technical specification suggested by Technical Committee (T.C.) of Dept. of IT&C for “**Procurement of Computer hardware**” submitted by **Law (Litigation) Dept., GoR** are as mentioned below:

**1. All-In-One Desktop Computer –**

<b>Item</b>	<b>Minimum Technical Specification</b>
Processor	Intel i5 (11 <sup>th</sup> Generation <b>or higher</b> ) 4 Core or higher, with minimum 2.7 GHz or higher (Base Frequency), 12 MB Cache or higher
Chipset	Compatible Intel 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 Card
Memory (RAM)	8 GB DDR4 with minimum 2 DIMM Slots, Expandable upto 64 GB
Storage	512 GB SSD
Optical drive	DVD R/W
Ports	Minimum 5 USB ports with at least 2 USB 3.0 ports, 1- VGA, HDMI, audio jack for headphone & microphone
Display	Minimum 21" inch or higher, Resolution 1920x1080 or higher Display, TCO Certified
Keyboard & Mouse	OEM USB Keyboard & OEM USB two button optical Mouse With mouse Pad
Certification	RoHS Compliance, BIS, ISO for OEM
Camera (Built in):	5.0 MP IR Camera
Speaker And Microphone	Integrated audio controller with internal speakers; Integrated Dual Array Microphone
Network Interface	Integrated 10/100/1000 GB Ethernet
Antivirus	Preloaded (Latest Version) Internet Security of Trend Micro/ Quick Heal/ Symantec/ Sophos/ Kaspersky
Accessories	All necessary cables (Power & data cables), 3 Mtr CAT 6 patch cord

**2. Multi-Function Printer (Mono)-**

<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 addl. 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

GOVERNMENT OF RAJASTHAN  
 Department of Information Technology & Communication

## Annexure - "G"

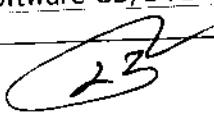
Observation/ view/ minimum technical specification suggested by Technical Committee (T.C.) of Dept. of IT&C for "Procurement of Computer H/w & Allied items (for 1<sup>st</sup> phase)" submitted by District Collectorate, Jaipur are as mentioned below:

## 1. Desktop Computer (i5):

Item	Minimum Technical Specification
Processor	Intel i5 (12 <sup>th</sup> Generation or higher) with minimum 2.50 GHz or higher (Base Frequency), 18 MB Cache or higher
Chipset	Compatible Chipset
Motherboard	OEM Motherboard
Operating System	Pre-installed Genuine OEM Microsoft Windows 11 or higher 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, 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
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, OEM certification for preloaded Operating System
Accessories	All necessary cables (Power & data cables), 3 Mtr CAT 6 patch cord

## 2. MFP:

Item	Minimum Technical Specification
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





राजस्थान ग्रीष्मोमिती और संचार विभाग

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

**3. Laptop:**

<b>Item</b>	<b>Minimum Technical Specification</b>
Processor	Intel Core i5 ( <b>12<sup>th</sup> Generation or higher</b> ) with minimum 4 core, 8 MB cache or higher
Operating System	Pre-installed Genuine OEM Microsoft Windows 11 <b>or higher</b> Professional (64 bit) with OEM recovery partition/ recovery DVD
Display	<b>14"</b> or higher diagonal +/-5%, FHD Display
Memory (RAM)	8 GB DDR4 or higher, expandable up to 32 GB
Hard Drive	512 GB SSD
Speaker & Microphone	Inbuilt speakers and integrated digital microphone
Connection Type	Minimum 2 USB 3.0 or higher, 1 HDMI 2.0, Headphone/ microphone combo/ separate, 1 USB type C port
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 6 Hrs.
Power Adapter	Standard OEM power adapter
Antivirus	Preloaded Internet Security of Trend Micro/ Symantec/ Sophos/ Quick Heal/ Kaspersky
Keyboard	OEM standard keyboard
Certification	RoHS Compliance, BIS, OEM certification for preloaded Operating System
Accessories	Carry Bag

**4. UPS 1KVA:**

<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)

23



राजस्थान विद्युतीकी और संचार विभाग

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

**Annexure-H**

Observation/ view/ minimum technical specification suggested by Technical Committee (T.C.) of Dept. of IT&C for "Procurement of Computer Hardware & Allied Items and Hiring of Manpower for Implementation of Integrated IHMS" are as follows:

**1. Desktop:**

<b>Item</b>	<b>Minimum Technical Specification</b>
Processor	Intel i3 (12 <sup>th</sup> Generation <b>or higher</b> ) with minimum 2.70 GHz or higher (Base Frequency), 4 Core or higher, 12 MB Cache or higher
Chipset	Compatible Chipset
Motherboard	OEM Motherboard
Operating System	Pre-installed Genuine OEM Microsoft Windows 11 <b>or higher</b> Professional/ Home (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	1 TB SATA/ 512 SSD
Optical drive	DVD R/W
Ports	Minimum 6 USB ports with at least 2 USB 3.0 or higher ports, 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
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, OEM certification for preloaded Operating System
Accessories	All necessary cables (Power & data cables), 3 Mtr CAT 6 patch cord

**2. Laptop:**

<b>Item</b>	<b>Minimum Technical Specification</b>
Processor	Intel Core i5 (12 <sup>th</sup> Generation <b>or higher</b> ) with minimum 4 core, 8 MB cache or higher
Operating System	Pre-installed Genuine OEM Microsoft Windows 11 <b>or higher</b> Professional/ Home (64 bit) with OEM recovery partition/ recovery DVD
Display	14" or higher diagonal +/-5%, FHD Display
Memory (RAM)	8 GB DDR4 or higher, expandable up to 32 GB
Hard Drive	1 TB SATA/ 512 GB SSD
Speaker & Microphone	Inbuilt speakers and integrated digital microphone
Connection Type	Minimum 2 USB 3.0 or higher, 1 HDMI 2.0, Headphone/ microphone combo/ separate, 1 USB type C port
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 6 Hrs.
Power Adapter	Standard OEM power adapter
Antivirus	Preloaded Internet Security of Trend Micro/ Symantec/ Sophos/ Quick Heal/ Kaspersky
Keyboard	OEM standard keyboard
Certification	RoHS Compliance, BIS, OEM certification for preloaded Operating System
Accessories	Carry Bag



सूचना प्रौद्योगिकी और संचार विभाग

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

**3. Laser Printer:**

<b>Parameters</b>	<b>Minimum Technical Specification</b>
Type	Monochrome Laser
Print Speed	18 PPM
Functions	Print
Duty Cycle (Monthly)	10000 Pages
Paper Size	A4, Legal
Print Resolution	600x600 Dpi
Port	USB/ Ethernet
Tray	Input Tray : Min 100 sheets
Yield of Cartridge	Composite, Yield minimum 1500 pages
Certification	RoHS Compliance, BIS
Processor	400 MHz or higher
Memory	64 MB or higher
Operating System	Windows and Linux
Accessories	All necessary cables (Power & Communication)

**4. Multi-Function 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
Compatible OS	Windows 7 , 8 , 10 or higher and Linux- Ubuntu
Cables/ Accessories	All the required cables, accessories
Software Media	Driver & Utility software CD/DVD
Certifications	BIS, ROHS

**5. Tablet Device:**

<b>Item</b>	<b>Minimum Technical Specifications</b>
Display Size (Min.) (Inch)	10 Inch or higher
Display Resolution (Pixels)	1920*1200 or higher
Display Type	IPS/ TFT LCD or equivalent
Brightness (Nits)	350 or higher
Operating System	Android 11.0 or Higher
Connectivity Type	Wi-Fi
Wi-Fi Connectivity Type	802.11 b/g/n or higher
Bluetooth Connectivity	4.0 or higher
Processor	Quad Core, 1.8 GHz or Higher
RAM Size and type	3 GB LPDDR3 or higher
Internal Storage	32 GB or higher
Addl. Storage with Tablet	Compatible Micro SD Card- 32 GB or higher with Class 10 Standard

GOVERNMENT OF RAJASTHAN  
 Department of Information Technology & Communication

Storage upgradable up to (Through Micro SD Card)	256 GB or higher
Rear Camera	8 MP or higher
Front Camera	5 MP or higher
Battery Capacity (Min.)	7500 mAh or higher
Google Mobile Service Certification for Android OS	Required (Yes)
Certification	RoHS Compliance, BIS
Additional Accessories	USB Cable & Charger
Headphone	Branded compatible ear phone, ISI marked
Tablet Cover	Compatible Smart cover for TAB, cover should have stand to hold the TAB
Features	OEM MDM features- <ul style="list-style-type: none"> <li>• Device asset monitoring</li> <li>• Boot logo animation during device turn on</li> <li>• Disable/ Enable hard buttons to protect factory reset</li> <li>• Device tracking</li> </ul>

## 6. Dot Matrix Printer (DMP):

Item	Minimum Technical Specifications
Pin	2 x 9 Pin
Columns	80 Column
High Speed Draft	600 CP Sat High Speed, Draft, 12 CPI or higher
Draft	300 CP Sat Draft, 10 CPI
Copies	1+4
Interface	Parallel and USB (Both USB and parallel cables along with accessories to be provided)
Input Buffer	100 KB or higher
Drivers	Windows XP, Windows7, Windows8, Windows 10 Driver CD
Print Head Life	Min. 400 million strokes per wire
MTBF (hrs. at 25% of duty cycle)	20000 POH
Ribbon (Million Characters)	Min. 7.5
MTBF (POH) @ 25% duty cycle	Min. 15,000
Accessories	All Accessories cables (Power and Data Cable) to be included

## 7. UPS 1KVA:

Item	Minimum Technical Specifications
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)

22



सूचना प्रौद्योगिकी और संचार विभाग

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

**8. Barcode Scanner:**

Item	Minimum Technical Specification
Colour	Black
Compatible Devices	Laptops and PC
Connectivity Technology	USB
Scan Speed	100 scan/ Sec. or higher
Light source	LED/Infrared light/Visible light/laser
Scanner Type	Portable
Certifications	BIS, RoHS, ISO 9001 & 45001 for OEM
Test report	OEM should submit test report for the quoted model issued by state/ central laboratory/NABL accredited labs (not old from last 5 Years)

**9. Barcode Printer:**

Item	Minimum Technical Specification
Printing Technology	Thermal Transfer
Print Speed	2 IPS
Print Width	105mm (4.09")
Print Length	991mm (39.33")
Ribbon Length	Minimum 300 Mtr.
Ribbon	Automatic Ribbon Control & Positioning System
Label Sensor Type	Fully Adjustable Sensor with Label gap, card notch & reflective black mark
Label Roll Capacity	Internal- 125 mm OD External-200 mm OD
Memory	Flash -2MB, DRAM-6 MB
Interface	RS-232/ Centronics Parallel Port, USB
Bar Code	1D Barcodes: Min.12 standard barcodes 22D Barcodes: Min. PDF-417, Maxi code, Data matrix
Media Type	Roll-fed, Fan fold, Continuous, Die cut, black mark, ticket, tag
Media Width	1" to 4.1"
Cables & Interfaces	All necessary cables & interfaces for connectivity to Mains & Computer.
Others	Should come with drivers (on CD/DVD) for Windows
Integration	Easy integration with HIS application
Accessories	All Accessories cables (Power and Data Cable) to be included

**10. A3 Size Scanner:**

Parameters	Minimum Technical Specifications
ADF Capacity	50 Sheets
Scanning	Simplex/ Duplex
Scanning Resolution	Up to 2400*2400 dpi
Scan Speed	20 PPM or higher
Interface	USB 2.0
Sensor	Contact Image
Scan Format	PDF, PDF/ A
Light Source	LED
Operating System Support	Windows/ Linux
Bundled Software Solutions	Industry standard interfaces for connecting software e.g. Windows ISIS/ TWAIN and Mac TWAIN drivers
Accessories	USB Cable , AC adaptor , Power Cable, Setup guide document, Installation software (Driver CD)
Certification	Energy Star, BIS and ISO

GOVERNMENT OF RAJASTHAN  
 Department of Information Technology & Communication

## Annexure-“I”

Observation/ view/ minimum technical specification suggested by Dept. of IT&C for “Procurement of Computer Hardware & Allied Items” submitted by **SI&PF Dept.** are as mentioned below:

## 1. Desktop Computer (i5):

Item	Minimum Technical Specification
Processor	Intel i5 (12 <sup>th</sup> Generation or higher) with minimum 2.50 GHz or higher (Base Frequency), 18 MB Cache or higher
Chipset	Compatible Chipset
Motherboard	OEM Motherboard
Operating System	Pre-installed Genuine OEM Microsoft Windows 11 or higher Professional/ Home (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, 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
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, OEM certification for preloaded Operating System
Accessories	All necessary cables (Power & data cables), 3 Mtr CAT 6 patch cord

## 2. Desktop Computer (All in One PC):

Item	Minimum Technical Specification
Processor	Intel i5 (12 <sup>th</sup> Generation or higher) 6 Core or higher, with minimum 2.5 GHz or higher (Base Frequency), 18 MB Cache or higher
Chipset	Compatible Intel Chipset
Motherboard	OEM Motherboard
Operating System	Pre-installed Genuine OEM Microsoft Windows 11 or higher Professional (64 bit) with OEM recovery partition/ recovery DVD
Graphics	Integrated Graphics Card
Memory (RAM)	8 GB DDR4 with minimum 2 DIMM Slots, Expandable up to 64 GB
Storage	512 GB SSD
Optical drive	DVD R/W
Ports	Minimum 5 USB ports with at least 2 USB 3.0 ports, HDMI, 1 DP port audio jack for headphone & microphone, type C port
Display	Minimum 21" inch or higher, Resolution 1920x1080 or higher Display, TCO Certified
Keyboard & Mouse	OEM USB Keyboard & OEM USB two button optical Mouse With mouse Pad
Certification	RoHS Compliance, BIS, ISO for OEM
Camera (Built in):	Full HD IR Camera
Speaker And Microphone	Integrated audio controller with internal speakers; Integrated Dual Array Microphone
Network Interface	Integrated 10/100/1000 GB Ethernet
Antivirus	Preloaded (Latest Version) Internet Security of Trend Micro/ Quick Heal/ Symantec/ Sophos/ Kaspersky
Accessories	All necessary cables (Power & data cables), 3 Mtr CAT 6 patch cord



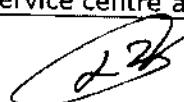
**GOVERNMENT OF RAJASTHAN**  
**Department of Information Technology & Communication**

**3. Ink Tank Printers (Black):**

<b>Item</b>	<b>Minimum Technical Specifications</b>
Type	Ink Tank, Monochrome
Print Speed	25 PPM
Functions	Print
Duty Cycle (Monthly)	10000 Pages
Print Resolution	600 x 600 dpi
Duplex Printing	Auto
Port	USB, Ethernet, WiFi
Pre-installed ink bottle with yield	1 Black ink bottle with minimum 5000 pages yield
Tray	Input Tray : Min 100 sheets Output Tray: Min 100 Sheets
Certification	BIS, ISO for OEM
Processor	500 MHz or higher
Memory	256 MB or higher
Operating System	Windows and Linux

**4. Document Scanner**

<b>Item</b>	<b>Technical Specifications</b>
Pick up device	1/2.7" CMOS Sensor
Effective Pixels	1920 x 1080 , 2 megapixel
Output	SVGA to WXGA, HDMI and Higher
White Balance	Auto
Exposure	Adjustable
Brightness	Adjustable
Maximum Capture Area	11.7" x 20.7" at 1080 p
Zoom	16x digital zoom
Camera Head Rotation	90 degree (vertical and horizontal)
Interface	HDMI, Computer In (VGA), Display Out (VGA) USB-B (for connection to PC/Mac) SD Card Slot1
OS Compatible	Windows® 7, Windows 8, Windows 10, Windows Vista® Mac OS X® 10.7.x, 10.8.x, 10.9.x, 10.10.x, 10.11.x Driver TWAIN (for Windows) Dimensions (W x D x H)
Saving Format	Still Image: JPG, BMP, PNG Video (Windows): AVI Video (Mac): MOV Other: PDF, EIT
Functions	Rotation, Zoom (+, -, selectable, x1), Auto Focus, Freeze, Record, Time-lapse, Picture Control (Brightness, Contrast, White Balance, Auto White Balance)
Warranty	3 Years onsite OEM warranty (Same has to be mentioned in OEM MAF)
BIS	Yes
Service Centres	OEM should have minimum 20 service centre across Rajasthan



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

**Annexure-“J”**

Observation/ view/ minimum technical specification suggested by Dept. of IT&C for “Establishment of Development Centre, Procurement of Infrastructure and Technical Core Group at SCRB for Rajasthan Police” submitted by SCRB are as mentioned below:

**1. Developer Laptop (High End):**

<b>Item</b>	<b>Minimum Technical Specification</b>
Processor	12 Gen Intel® Core™ i9-12900H, vPro® (24 MB cache, 14 cores, 20 threads, 2.50 GHz to 5.00 GHz Turbo
Chipset	Compatible chipset
Memory	32 GB, 2 x 16 GB, DDR5, 4800 MHz
Hard Disk Drive	1 TB, M.2 2280, Gen 4 PCIe x4 NVMe, SSD
Graphic Card	Intel® UMA Graphics
I/O Ports	<ul style="list-style-type: none"> <li>1. SD card reader</li> <li>2. Universal audio jack</li> <li>3. (2) USB 3.2 Gen 1 Type A (1x power enabled)</li> <li>4. HDMI 2.05. RJ45</li> <li>6. Wedge lock slot</li> <li>7. (2) Thunderbolt 4 USB-C ports with power-in</li> <li>8. Smart Card (optional)</li> </ul>
OS Certification	Yes Windows
Networking	Intel AX211, 2x2 MIMO, 2400 Mbps, 2.4/5/6 GHz, Wi-Fi 6/6E (WiFi 802.11ax), Bluetooth 5.2
Audio	inbuilt speaker
Power Supply	4 Cell, 64 Wh
OS	Windows 10 Pro (Windows 11 Pro license included), English (Dell Technologies recommends Windows 11 Pro for business)
Anti-Virus	36-month subscription of Total Security
Keyboard	Single Pointing Backlit US International Keyboard with numeric keypad
Warranty	5 Years Onsite Comprehensive Warranty
Camera	HD Camera, Temporal Noise Reduction, Camera Shutter, Mic

**2. Developer Laptop:**

<b>Item</b>	<b>Minimum Technical Specification</b>
Processor	12 Gen Intel® Core™ i5-12600H, vPro® (18 MB cache, 12 cores, 16 threads, 2.70 GHz to 4.50 GHz Turbo
Chipset	Compatible chipset
Memory	16 GB, 1 x 16 GB, DDR5, 4800 MHz
Hard Disk Drive	1 TB, M.2 2280, Gen 4 PCIe x4 NVMe, SSD
Graphic Card	Intel® UMA Graphics
I/O Ports	<ul style="list-style-type: none"> <li>1. SD card reader</li> <li>2. Universal audio jack</li> <li>3. (2) USB 3.2 Gen 1 Type A (1x power enabled)</li> <li>4. HDMI 2.05. RJ45</li> <li>6. Wedge lock slot</li> <li>7. (2) Thunderbolt 4 USB-C ports with power-in</li> <li>8. Smart Card (optional)</li> </ul>
OS Certification	Yes Windows
Networking	Intel AX211, 2x2 MIMO, 2400 Mbps, 2.4/5/6 GHz, Wi-Fi 6/6E (WiFi 802.11ax), Bluetooth 5.2
Audio	inbuilt speaker
Power Supply	4 Cell, 64 Wh
OS	Windows 10 Pro (Windows 11 Pro license included), English (Dell Technologies recommends Windows 11 Pro for business)



सूचना प्रौद्योगिकी और संचार विभाग

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

Anti-Virus	36-month subscription of Total Security
Keyboard	Single Pointing Backlit US International Keyboard with numeric keypad
Warranty	5 Years Onsite Comprehensive Warranty
Camera	HD Camera, Temporal Noise Reduction, Camera Shutter, Mic

**3. Developer Workstation (High End):**

Item	Minimum Technical Specification
Processor	12 Gen Intel® Core™ i9-12900 (30 MB cache, 16 cores, 24 threads, 2.40 GHz to 5.10 GHz Turbo, 65 W)
Chipset	Intel W680 chipset or higher
Memory	128 GB, 4 x 32 GB, DDR5, 3600 MHz
Hard Disk Drive	1TB PCIe NVMe Gen 4 Class 40 SED Solid State Drive
Expansion Slots	One Full-height Gen5 PCIe x16 slot One Full-height Gen3 PCIe x4 slot One Full-height Gen 4 PCIe x4 slot; Min 5 SATA slots for 2.5/3.5" HDD/ODD; Min 3 M.2 slots for NVMe SSD and 1 for Wifi & BT
Graphic Card	NVIDIA® T400, 4 GB GDDR6, 3 mDP
I/O Ports	Min 4x USB TypeA 3.2 Min 4x USB TypeC 3.2 Min 2x USB TypeA 2.0 1 – Universal Audio Jack
OS Certification	Workstation should support following OS: Windows 10 Professional for Workstation, 64bit or higher, Ubuntu Linux 20.04 or higher
Networking	1x Intel Ethernet Connection 10/100/1000 or better, 1x Intel Wi-Fi 6E (6GHz) AX211 2x2 Bluetooth 5.2 Wireless Card or better
Audio	Intelligent HD Audio delivers audio and mic enhancements and reduces background noise with internal speaker of higher
Power Supply	500W or higher internal Power Supply, Platinum PSU or better
OS	Windows 10 Pro or higher
Anti-Virus	36-month subscription
Keyboard & Mouse	Same OEM make wired Keyboard & Mouse
Monitor	Same OEM make 23.8" and above VA/IPS Antiglare display supporting 1920X 1080
Warranty	5 Years Onsite Comprehensive Warranty

**4. Developer Workstation (Category B):**

Item	Minimum Technical Specification
Processor	12 Gen Intel® Core™ i7-12700 (25 MB cache, 12 cores, 20 threads, 2.10 GHz to 4.90 GHz Turbo, 65 W)
Chipset	Intel W680 chipset or higher
Memory	32 GB, 2 x 16 GB, DDR5, 4400 MHz
Hard Disk Drive	1TB PCIe NVMe Gen 4 Class 40 SED Solid State Drive
Expansion Slots	One Full-height Gen5 PCIe x16 slot One Full-height Gen3 PCIe x4 slot One Full-height Gen 4 PCIe x4 slot; Min 5 SATA slots for 2.5/3.5" HDD/ODD; Min 3 M.2 slots for NVMe SSD and 1 for Wifi & BT
Graphic Card	NVIDIA® T400, 4 GB GDDR6, 3 mDP
I/O Ports	Min 4x USB TypeA 3.2 Min 4x USB TypeC 3.2 Min 2x USB TypeA 2.0 1 – Universal Audio Jack

23



राजस्थान विद्यालयी और संसार विद्यालय

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

OS Certification	Workstation should support following OS: Windows 10 Professional for Workstation, 64bit or higher, Ubuntu Linux 20.04 or higher
Networking	1x Intel Ethernet Connection 10/100/1000 or better, 1x Intel Wi-Fi 6E (6GHz) AX211 2x2 Bluetooth 5.2 Wireless Card or better
Audio	Intelligent HD Audio delivers audio and mic enhancements and reduces background noise with internal speaker of higher
Power Supply	500W or higher internal Power Supply, Platinum PSU or better
OS	Windows 10 Pro or higher
Anti-Virus	36-month subscription
Keyboard & Mouse	Same OEM make wired Keyboard & Mouse
Monitor	Same OEM make 23.8" and above VA/IPS Antiglare display supporting 1920X 1080
Warranty	5 Years Onsite Comprehensive Warranty

**5. Developer Workstation (Category C):**

Item	Minimum Technical Specification
Processor	12 Gen Intel® Core™ i5-12600 (18 MB cache, 6 cores, 12 threads, 3.30 GHz to 4.80 GHz Turbo, 65 W)
Chipset	Intel W680 chipset or higher
Memory	16 GB, 2 x 8 GB, DDR5, 4400 MHz
Hard Disk Drive	256 GB, PCIe NVMe, SSD, Class 35 1 TB, 7200 RPM, 3.5-inch, SATA, HDD
Expansion Slots	One Full-height Gen5 PCIe x16 slot One Full-height Gen3 PCIe x4 slot One Full-height Gen 4 PCIe x4 slot; Min 5 SATA slots for 2.5/3.5" HDD/ODD; Min 3 M.2 slots for NVMe SSD and 1 for Wifi & BT
Graphic Card	NVIDIA® T400, 4 GB GDDR6, 3 mDP
I/O Ports	Min 4x USB TypeA 3.2 Min 4x USB TypeC 3.2 Min 2x USB TypeA 2.0 1 – Universal Audio Jack
OS Certification	Workstation should support following OS: Windows 10 Professional for Workstation, 64bit or higher, Ubuntu Linux 20.04 or higher
Networking	1x Intel Ethernet Connection 10/100/1000 or better, 1x Intel Wi-Fi 6E (6GHz) AX211 2x2 Bluetooth 5.2 Wireless Card or better
Audio	Intelligent HD Audio delivers audio and mic enhancements and reduces background noise with internal speaker of higher
Power Supply	500W or higher internal Power Supply, Platinum PSU or better
OS	Windows 10 Pro or higher
Anti-Virus	36-month subscription
Keyboard & Mouse	Same OEM make wired Keyboard & Mouse
Monitor	Same OEM make 23.8" and above VA/IPS Antiglare display supporting 1920X 1080
Warranty	5 Years Onsite Comprehensive Warranty



तकना प्रौद्योगिकी और संचार विभाग

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

**6. Developer Desktops (iOS):**

<b>Item</b>	<b>Minimum Technical Specifications</b>
Processor	Apple M1 chip 8-core CPU with 4 performance cores and 4 efficiency cores 16-core Neural Engine 8-core GPU
Operating System	macOS
Memory (RAM)	8GB unified memory Configurable to 16GB unified memory
Storage	256GB SSD or 512GB SSD Configurable to 1TB or 2TB
Camera	1080p FaceTime HD camera
Audio	High-fidelity six-speaker system with force-cancelling woofers Studio-quality three-mic array with high signal-to-noise ratio and directional beamforming Support for spatial audio when playing music or video with Dolby Atmos Wide stereo sound
Wi-Fi	Wi-Fi 802.11ax Wi-Fi 6 wireless networking IEEE 802.11a/b/g/n/ac compatible
Bluetooth	Bluetooth 5.0 wireless technology
Ports	Two USB 3 ports 3.5 mm headphone jack Two Thunderbolt / USB 4 ports which should support: DisplayPort Thunderbolt 3 (up to 40 Gbps) 2 USB 4 (up to 40 Gbps) USB 3.1 Gen 2 (up to 10 Gbps)
Display	60.96 cm (24-inch) 4.5K Retina display 4480x2520 resolution
Certification	Energy star
Keyboard & Mouse	Magic Keyboard with Touch ID Magic Mouse Configurable with:  Magic Keyboard with Touch ID and Numeric Keypad Magic Trackpad
Network Interface	Gigabit Ethernet
Accessories	Cords for Thunderbolt 2, HDMI, DVI and VGA supported with adapters

**7. Heavy Duty Printers (Print, Scan, Copy):**

<b>Item</b>	<b>Minimum Technical Specification</b>
Printing Technology	Laser
Type of Printing	Colour
Paper Size	A3
Print Speed per minute	Colour: minimum 15 or Better B & W: minimum 30 or better
Duplexing Feature	Yes
Wireless Connectivity	No
No. of Main Paper Trays	2
Bypass Tray Facility	Yes
Certification	RoHS Compliance/ BIS/ ISO for OEM
On site OEM warranty (Yrs.)	3 Comprehensive



सूचना प्रौद्योगिकी और संचार विभाग

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

**8. Mobile (Android) (For Android App Development and Testing)**

Item	Minimum Technical Specification
Processor	Minimum Octa Core 2.4 GHZ
RAM	Minimum 8GB or higher
Operating System	Android 10 or higher
Internal Storage	128 GB build in and expandable up to 512 GB
Battery	Inbuilt Min 4500 mAH or higher
SIM Slot	Dual SIM
SIM Type	Nano
Network Service	5G enabled
Screen Size	Minimum 6.1" or higher Multi touch
Screen Resolution	2400 X 1080 or higher
Rear Camera	Minimum Dual camera or higher with primary camera Minimum 12 MP or higher
Front Camera	Minimum 8 MP
WIFI	Yes
Bluetooth	Yes
USB	C Type
Audio Jack	Standard 3.5 MM
Warranty	1 Year OEM warranty
Certifications	BIS & RoHS

**9. Mobile (iOS) (For iOS App Development and Testing)**

As the required item is a proprietary product, Dept. may take appropriate decision at its own level.

**10. Android Tablets (For Android App Development and Testing)**

Item	Minimum Technical Specification
Processor	Min. Octa Core 2.4 GHZ
RAM	Min 8GB or higher
Operating System	Android 10 or higher
Internal Storage	128 GB build in and expandable upto 512 GB
Battery	Inbuilt Min 9500 mAH or higher
SIM Slot	Min 1 SIM
SIM Type	Nano
Network Service	4G cellular
Screen Size	Min. 11" or higher Multi touch
Screen Resolution	2560 x 1600 or higher
Rear Camera	Min 8 MP or higher
Front Camera	Min 5 MP or higher
WIFI	Yes
Bluetooth	Yes
Audio Jack	Standard 3.5 MM
Warranty	1 Year OEM warranty
Certifications	BIS & RoHS

**11. iPAD (For iOS App Development and Testing):**

As the required item is a proprietary product, Dept. may take appropriate decision at its own level.

**12. Interactive Flat Panel Display (85") (For Training Labs/ Discussion Rooms):**

Item	Minimum Technical Specification
Size	85"
Panel Technology	IPS
Resolution (Minimum)	4 K (3840 x 2160)
Brightness	350 nits or better



सूचना प्रौद्योगिकी और संचार विभाग

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

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 (15), VGA Cable (1.5 M), HDMI Cable (3 M), User Manual, Wall Mount kit with 8 no. Fasteners
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.

**13. UPS (5 KVA):**

Item	Minimum Technical Specification
Rating and Technology	5.0 KVA and Inbuilt Isolation transformer
Input power	Single Phase
Output power	Single Phase
Minimum VAH	8000
Back up	45 minutes or more
UPS warranty	36 months
Battery warranty	24 months
Cable for input and output	minimum 5 Mtr.
Battery Rack	with Rack
Installation & Commissioning	Yes
Certification	RoHS Compliance/ BIS/ ISO for OEM

**14. Networking:**

Considering the actual requirement based on the location etc., Dept. may take appropriate decision at its own level.

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