

2016

Department of Information  
Technology & Communications  
(DoIT&C),  
Government of Rajasthan (GoR)

REQUEST FOR PROPOSAL FOR ESTABLISHMENT OF  
SCADA BASED SMART PANEL FOR BACKUP POWER  
SUPPLY AT ATAL SEVA KENDRA AT PANCHAYAT  
LEVEL IN RAJASTHAN



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**Request For Proposal (RFP) Document for Establishment Of SCADA based Smart Panel for Backup Power Supply at Atal Seva Kendra at Panchayat Level In Rajasthan**

[Reference No.: F11(309)/DoIT/Project/16/II/56381/2016

Dated.: 02-09-16 ]

<b>Mode of Bid Submission</b>	Online though e-Procurement/ e-Tendering system at <a href="http://eproc.rajasthan.gov.in">http://eproc.rajasthan.gov.in</a>
<b>Procuring Authority</b>	Secretary & Commissioner, DoIT&C, Second Floor, IT Building, Yojana Bhawan Campus, Tilak Marg, C-Scheme, Jaipur (Rajasthan)
<b>Last Date &amp; Time of Submission of Bid</b>	06 <sup>th</sup> October 2016 by 03.00 PM
<b>Date &amp; Time of Opening of Technical Bid</b>	06 <sup>th</sup> October 2016 by 04.00 PM

**Bidding Document Fees (non-refundable): Rs. 5,000 (Rupees Five Thousand only)**

<b>Name of the Bidding Company/ Firm:</b>			
<b>Contact Person (Authorised Bid Signatory):</b>			
<b>Correspondence Address:</b>			
<b>Mobile No.</b>		<b>Telephone &amp; Fax Nos.:</b>	
<b>Website &amp; E-Mail:</b>			

**Department of Information Technology & Communications (DoIT&C)**

2<sup>nd</sup> Floor, IT Building, Yojana Bhawan Campus, Tilak Marg, C-Scheme, Jaipur (Rajasthan)

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## **ABBREVIATIONS & DEFINITIONS**

<b>Act</b>	The Rajasthan Transparency in Public Procurement Act, 2012 (Act No. 21 of 2012) and Rules thereto
<b>Authorised Signatory</b>	The bidder's representative/ officer vested (explicitly, implicitly, or through conduct) with the powers to commit the authorizing organization to a binding agreement. Also called signing officer/ authority having the Power of Attorney (PoA) from the competent authority of the respective Bidding firm.
<b>BG</b>	Bank Guarantee
<b>Bid Security</b>	A security provided to the procuring entity by a bidder for securing the fulfilment of any obligation in terms of the provisions of the bidding documents.
<b>Bid/ eBid</b>	A formal offer made in pursuance of an invitation by a procuring entity and includes any tender, proposal or quotation in electronic format
<b>Bidder</b>	Any firm /consortium participating in the procurement/ bidding process with the procurement entity. In case of sole bidder, sole bidder should qualify all terms and conditions of RFP and in case of consortium, the consortium partners should jointly qualify all the terms and conditions of RFP.
<b>Bidder (SP)</b>	The bidder supplying necessary hardware, software and services
<b>Bidding Document</b>	Documents issued by the procuring entity, including any amendments thereto, that set out the terms and conditions of the given procurement and includes the invitation to bid
<b>BoM</b>	Bill of Material
<b>CINOC</b>	Centralized Integrated Network Operations Centre
<b>CMC</b>	Contract Monitoring Committee
<b>Competent Authority</b>	An authority or officer to whom the relevant administrative or financial powers have been delegated for taking decision in a matter relating to procurement. Secretary - DoIT&C, in this bidding document.
<b>Contract/ Procurement Contract</b>	A contract entered into between the procuring entity and a successful bidder concerning the subject matter of procurement

<b>Contract/ Project Period</b>	The Contract/ Project Period shall commence from the date of signing of agreement till 5 years and 9 months. First 9 months would be for Installation, Integration and operationalization of solution and thereafter O&M period would be for remaining 5 years. .
<b>COTS</b>	Commercial Off The Shelf Software
<b>Day</b>	A calendar day as per IST.
<b>DeitY, GoI</b>	Department of Electronics and Information Technology, Government of India
<b>DoIT&amp;C</b>	Department of Information Technology and Communications, Government of Rajasthan.
<b>eGRAS</b>	Online Government Receipts Accounting System (e-GRAS) is an e-Governance Initiative of Government of Rajasthan under Mission Mode Project category and is part of Integrated Financial Management System (IFMS). e-GRAS facilitates collection of tax/ non-tax revenue in both the modes: online as well as manual. All types of government revenue may be deposited online using this website: <a href="https://egras.raj.nic.in/">https://egras.raj.nic.in/</a>
<b>FOR/ FOB</b>	Free on Board or Freight on Board
<b>GoI/ GoR</b>	Govt. of India/ Govt. of Rajasthan
<b>Goods</b>	All articles, material, commodities, electricity, livestock, furniture, fixtures, raw material, spares, instruments, software, machinery, equipment, industrial plant, vehicles, aircraft, ships, railway rolling stock and any other category of goods, whether in solid, liquid or gaseous form, purchased or otherwise acquired for the use of a procuring entity as well as services or works incidental to the supply of the goods if the value of services or works or both does not exceed that of the goods themselves
<b>ICT</b>	Information and Communication Technology.
<b>IFB</b>	Invitation for Bids (A document published by the procuring entity inviting Bids relating to the subject matter of procurement and any amendment thereto and includes notice inviting Bid and request for proposal)
<b>INR</b>	Indian Rupee
<b>ISI</b>	Indian Standards Institution

<b>ISO</b>	International Organisation for Standardisation
<b>IT</b>	Information Technology
<b>ITB</b>	Instruction to Bidders
<b>LD</b>	Liquidated Damages
<b>LoI</b>	Letter of Intent
<b>NCB</b>	A bidding process in which qualified bidders only from within India are allowed to participate
<b>NeGP</b>	National e-Governance Plan of Government of India, Department of Information Technology (DIT), Ministry of Communications and Information Technology (MCIT), New Delhi.
<b>NIB</b>	Notice Inviting Bid
<b>Notification</b>	A notification published in the Official Gazette
<b>OEM</b>	Original Equipment Manufacturer
<b>PAN</b>	Permanent Account Number
<b>PBG</b>	Performance Bank Guarantee
<b>PC</b>	Procurement/ Purchase Committee
<b>PQ</b>	Pre-Qualification
<b>Procurement Process</b>	The process of procurement extending from the issue of invitation to Bid till the award of the procurement contract or cancellation of the procurement process, as the case may be
<b>Procurement/ Public Procurement</b>	The acquisition by purchase, lease, license or otherwise of works, goods or services, including award of Public Private Partnership projects, by a procuring entity whether directly or through a bidder with which a contract for procurement services is entered into, but does not include any acquisition without consideration, and “procure” or “procured” shall be construed accordingly
<b>Project Site</b>	Wherever applicable, means the designated place or places.
<b>PSD/ SD</b>	Performance Security Deposit/ Security Deposit
<b>Purchaser/ Tendering Authority/ Procuring Entity</b>	Person or entity that is a recipient of a good or service provided by a seller (bidder) under a purchase order or contract of sale. Also called buyer. DOIT&C in this RFP document.



<b>RajNET</b>	An umbrella network covering RajSWAN, SecLAN, GRAMSAT, VSAT and any other network of Govt of Rajasthan.
<b>RajSWAN/ RSWAN</b>	Rajasthan State Wide Area Network
<b>REIL</b>	Rajasthan Electronics & Instruments Limited
<b>RISL</b>	RajCOMP Info Services Limited
<b>RSDC</b>	Rajasthan State Data Centre, New IT Building, Jaipur
<b>RVAT</b>	Rajasthan Value Added Tax
<b>SCADA</b>	Supervisory Control And Data Acquisition
<b>Services</b>	Any subject matter of procurement other than goods or works and includes physical, maintenance, professional, intellectual, consultancy and advisory services or any service classified or declared as such by a procuring entity and does not include appointment of any person made by any procuring entity
<b>SLA</b>	Service Level Agreement is a negotiated agreement between two parties wherein one is the customer and the other is the bidder. It is a service contract where the level of service is formally defined. In practice, the term SLA is sometimes used to refer to the contracted delivery time (of the service) or performance.
<b>State Government</b>	Government of Rajasthan (GoR)
<b>State Public Procurement Portal</b>	<a href="http://sppp.raj.nic.in">http://sppp.raj.nic.in</a>
<b>STQC</b>	Standardisation Testing and Quality Certification, Govt. of India
<b>Subject Matter of Procurement</b>	Any item of procurement whether in the form of goods, services or works
<b>TIN</b>	Tax Identification Number
<b>TPA</b>	Third Party Auditors
<b>UASL</b>	Unified Access Service Licence
<b>VAT/ CenVAT</b>	Value Added Tax/ Central VAT
<b>VSAT</b>	Very Small Aperture Terminal for satellite communication for data, voice and video services
<b>WO/ PO</b>	Work Order/ Purchase Order

## **2. PROJECT PROFILE & BACKGROUND INFORMATION**

### **2.1. Introduction**

Government of Rajasthan has established network connectivity to Government Departments, and expand the network up to 9894 Gram Panchayats, 19 other offices at district & block level offices, 33 District Head Quarter and 1 State Head Quarter in Rajasthan to cater voice, video and data services under various categories of G2G, G2B and G2C services.

RajNET provided as the platform to provide network connectivity through multimode (i.e. VSAT and TERRESTRIAL) of connectivity throughout Rajasthan state. Centralized integrated network operating center (CINOC) for monitoring of multimode connectivity in the state is established. Under RajNET, expansion of connectivity is established through VSAT upto Gram Panchayats.

DOIT&C, on the behalf of GoR is planning to install the **smart panels** at every Atal Seva Kendra to monitor the status of protection and control devices, measure the energy consumption, control the changeover and generate notifications for undesired events, locally from individual location via inbuilt web pages and from a centralized SCADA.

At present the power supply to computer points is through Nigam supply (Electricity Board) installed by GVPR Department and through Solar UPS installed by REIL. But that depends on the users, which supply they want to use for powering up the Atal Seva Kendra.

### **2.2. Project Objectives**

Following things are desired from the integration of the smart panel into the electrical distribution network and the existing VSAT network of the site: -

- a) Installing an automatic changeover system between electricity board supply and solar supply, with a priority for the solar supply, so as to make use of green energy. Solar supply shall only be used to power up the computers as well as light and fan of emitra center. Lighting and other loads shall be supplied via electricity board supply.
- b) Monitoring the status of changeover and the incomer MCBs.
- c) Controlling the changeover state.
- d) Measuring the kWH consumption from the solar and electricity board supply.
- e) Measuring the battery charge status from the solar UPS through RS232 Port to RS485 converter and associated cable for which mapping will be given to the bidder.

- f) Monitoring, measurement and control for the parameters (as per defined specifications) shall be made available via in-built web pages, inside the smart panel architecture, for individual sites and at the NOC Jaipur via a SCADA.

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### 3. PRE-QUALIFICATION/ ELIGIBILITY CRITERIA

- 1) A bidder participating in the procurement process shall possess the following minimum pre-qualification/ eligibility criteria.

S. No.	Basic Requirement	Specific Requirements	Documents Required
1.	Legal Entity	<p>A) The bidder should be a Proprietorship firm duly registered either under the Rajasthan Shops &amp; Commercial Establishments Act, 1958 or any other Act of State/ Union, as applicable for dealing in the subject matter of procurement (Note: A self-certified declaration regarding the non-applicability of registration to any Act should be submitted by the bidder)</p> <p><b>OR</b></p> <p>B) A company registered under Indian Companies Act, 1956</p> <p><b>OR</b></p> <p>C) A partnership firm registered under Indian Partnership Act, 1932.</p> <p><b>OR</b></p> <p>D) Consortium upto <b>two</b> firms is allowed (System Integrator / OEM / SCADA service provider), subject to fulfilment of conditions laid down in RFP. The consortium shall not consist of more than two companies/ corporations and shall be formed under a duly stamped consortium agreement. (Attach Proof). In a consortium, one of the partners shall be designated as a "Lead Partner". However, every member of the consortium shall be equally responsible and jointly and severally liable for the successful completion of the entire project. In case of</p>	<p>- Copy of valid Registration Certificates</p> <p>- Copy of Certificates of incorporation</p> <p>- In case of a consortium, a Consortium Agreement (registered) must be submitted, duly signed by the consortium members. The Consortium Agreement (Annexure-24) must clearly</p>

S. No.	Basic Requirement	Specific Requirements	Documents Required
		any issues, Lead Partner shall be responsible for overall execution of the project and all the penalties. In case of consortium, both members shall meet either of A/B/C mentioned above.	specify the stake of each member and their roles and responsibilities.
2.	Financial Turnover from IT Electrical / Electrical/ SCADA Services	Average Annual Turnover from IT Electrical / Electrical/ SCADA services during each of the last three financial years, i.e., from 2012-13 to 2014-15 (as per the last published audited balance sheets) of the bidder, should be average Rs. 200 crores. In case of consortium, the consortium partners should combindely meet this requirement.	CA Certificate with CA's Registration Number & Seal <b>AND</b> As per Annexure-12
3.	Financial: Net Worth	The net worth of the Bidder should be 'Positive' on 31th March, 2016.	CA Certificate with CA's Registration Number & Seal
4.	Technical Capability	A. The Bidder must have successfully completed similar nature of work during the last five financial years from 2011-12 to 2015-16.  *Similar nature means: 1. Bidder should have executed single project of IT Electrical / Electrical/ SCADA amounting Rupees 80 Cr. during the last five financial years from 2011-12 to 2015-16. <b>OR</b> 2. Bidder should have executed two projects of IT Electrical / Electrical/ SCADA amounting Rupees 50 Cr. during the last	As per Annexure-20 <b>AND</b> Work Completion Certificates from the client; <b>OR</b> Work Order + Self Certificate of Completion + CA Certificate with CA's Registration Number and Seal;

S. No.	Basic Requirement	Specific Requirements	Documents Required
		five financial years from 2011-12 to 2015-16.	
5.	Tax registration and clearance	<p>The Sole bidder/Consortium Partners should have a registered number of:</p> <ul style="list-style-type: none"> <li>i. VAT/ CST where his business is located</li> <li>ii. Service Tax</li> <li>iii. Income Tax / PAN number.</li> </ul> <p>The bidder should have cleared his VAT/ CST dues up to 31<sup>st</sup> March 2016 to the Government.</p> <p>Note: The benefits of price preferences to the extent of amount equivalent to RVAT in the bid evaluation shall be provided as per the clause 5(16) of RFP. RVAT benefit shall be provided to only those bidders who are registered for RVAT at the time of submission of bid else the bid shall be considered with CST component only.</p>	<p>Copies of relevant certificates of registration</p> <p>VAT/ CST clearance certificate from the Commercial Taxes Officer of the Circle concerned</p>
6.	Mandatory Undertaking	<p>Bidder should: -</p> <ul style="list-style-type: none"> <li>a) not be insolvent, in receivership, bankrupt or being wound up, not have its affairs administered by a court or a judicial officer, not have its business activities suspended and must not be the subject of legal proceedings for any of the foregoing reasons;</li> <li>b) not have, and their directors and officers not have, been convicted of any criminal offence related to their professional conduct or the making of false</li> </ul>	<p>A Self Certified letter as per Annexure-14: Self-Declaration</p>

S. No.	Basic Requirement	Specific Requirements	Documents Required
		<p>statements or misrepresentations as to their qualifications to enter into a procurement contract within a period of three years preceding the commencement of the procurement process, or not have been otherwise disqualified pursuant to debarment proceedings;</p> <p>c) Not have a conflict of interest in the procurement in question as specified in the bidding document.</p> <p>d) Comply with the code of integrity as specified in the bidding document.</p>	
8.	Mandatory Requisites	<p>The Bidder should have Manufacturers' authorization and a direct back-to-back support agreement with the OEM for the equipment's included in the proposed solution.</p> <p>OR</p> <p>The Bidder must be a manufacturer, distributor, Contractor or bona-fide dealer of equipment's included in the proposed solution and furnish necessary proof for the same in the specified format.</p>	<p>The Bidder must attach Authorization Certificates for all the quoted products as per Annexure-18.</p> <p>Where applicable, proof of authorization by the manufacturer or country distributor in India, shall be enclosed as per Annexure-14: MAF</p>

- 2) In addition to the provisions regarding the qualifications of the bidders as set out in (1) above: -

- a. The procuring entity shall disqualify a bidder as per the provisions under “Clause: Exclusion/ Disqualification of bids in Chapter-5: ITB”; and
- b. The procuring entity may require a bidder, who was pre-qualified, to demonstrate its qualifications again in accordance with the same criteria used to pre-qualify such bidder. The procuring entity shall disqualify any bidder that fails to demonstrate its qualifications again, if requested to do so. The procuring entity shall promptly notify each bidder requested to demonstrate its qualifications again as to whether or not the bidder has done so to the satisfaction of the procuring entity.

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#### **4. SCOPE OF WORK, DELIVERABLES & TIMELINES**

The bidder shall be required to supply, install and integrate the solution as per the scope of work detailed below. O&M of the proposed solution shall be provided for a period of 5 years from date of Commission.

The successful deployment of project requires the bidder to provide quality & timely services to DoIT&C, on the behalf of GoR. The bidder is strongly advised to carefully read the complete RFP, understand the RajNET/ RSDC/ SecLAN / RajSWAN network and carry-out the site visits of proposed locations where multi-mode connectivity and IT infrastructure is to be installed, implemented and commissioned.

For successful implementation of the project, the Bidder shall depute one State Coordinator at DoIT&C, Jaipur from the date of signing of agreement as single point of contact (SPOC) for DoIT&C Jaipur. Bidder shall provide the contact numbers, e-mail id and other relevant details of the SPOC to DoIT&C.

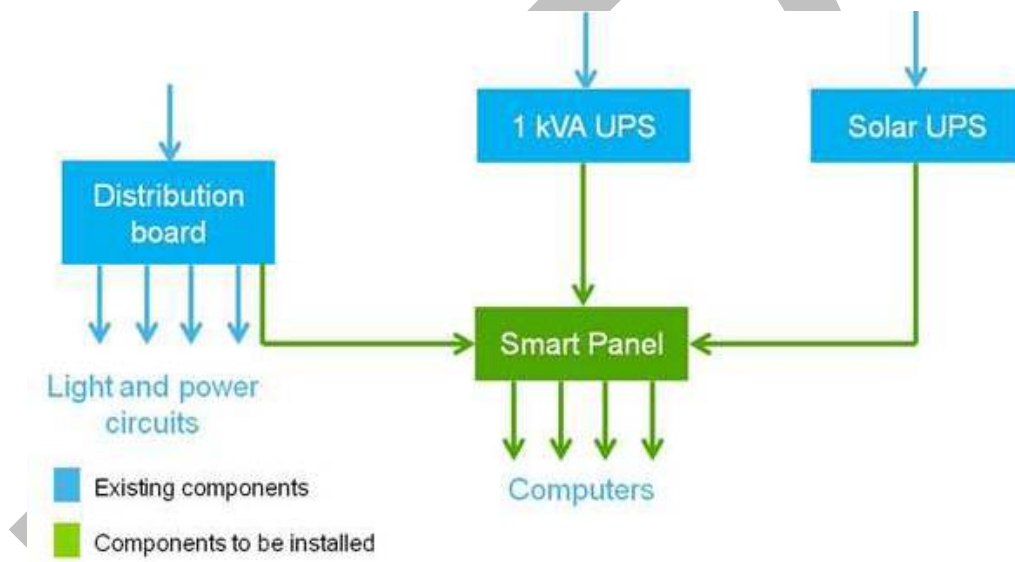
##### **4.1 Detailed Scope of work (SoW)**

The bidder is required to undertake following activities under this RFP. The detailed scope of work for each activity is explained in subsequent paragraphs of this RFP–

- a) The scope of work involves Supply, Installation, Testing and Commissioning of smart panel at Atal Seva Kendra.
- b) Necessary electrical and LAN wiring, Communication cables from RS 232 port to RS 232 / 485 Converter in a box to Smart Panel, Switch Sockets, MCBs associated with smart panel.
- c) Supply, Installation, Testing and Commissioning of SCADA Software Solution to monitor, measure and control the smart panel installed at Atal Seva Kendras from NOC situated at RSDC, DoIT&C Jaipur.
- d) O&M of all items mention for 5 Years and Manpower deployment from date of commission.
- e) Development and deployment of a Web Based Portal for monitoring the progress of implementation if the project.
- f) SCADA Solution and Server Requirement for SCADA.

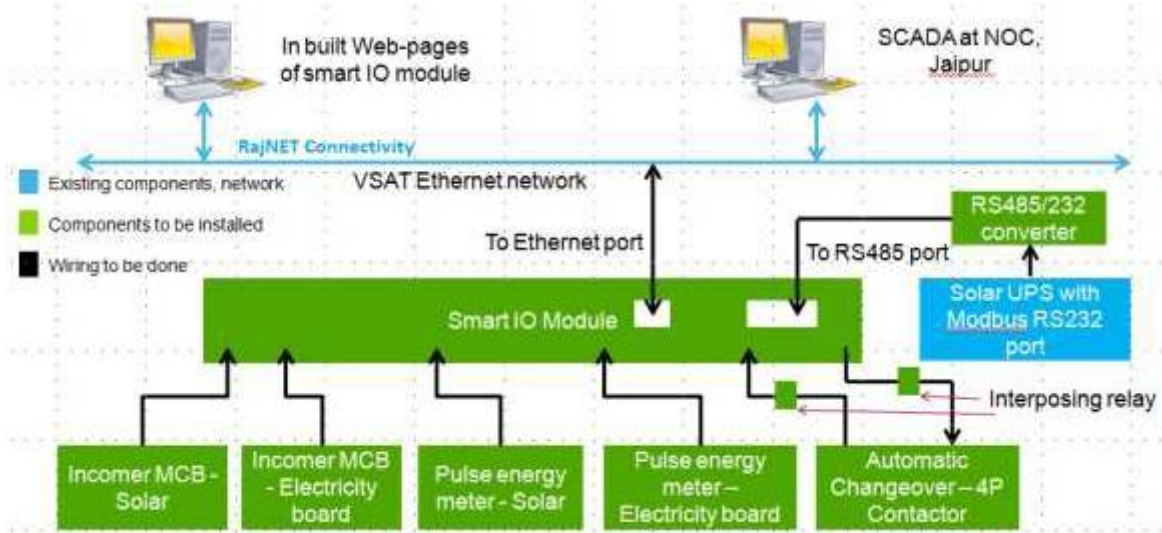
The bidder is required to propose additional required hardware, OS, databases and any third party software/hardware required to run the proposed SCADA solutions other than specification asked for. It shall be the sole responsibility of bidder to propose the adequate additional hardware resources so as to fulfil the performance levels and scalability considerations of the proposed tools. However, proposed solution should integrate with existing NMS and EMS solution using RajNET. It should have requirement of minimum 4 numbers of physical servers with following specification of Control Room Equipment. All the servers proposed should be Rackmount servers. If additional servers are required, the bidder should propose it in pre-bid meeting and with technical bid.

**The tentative block diagram of the desired electrical architecture is as below**

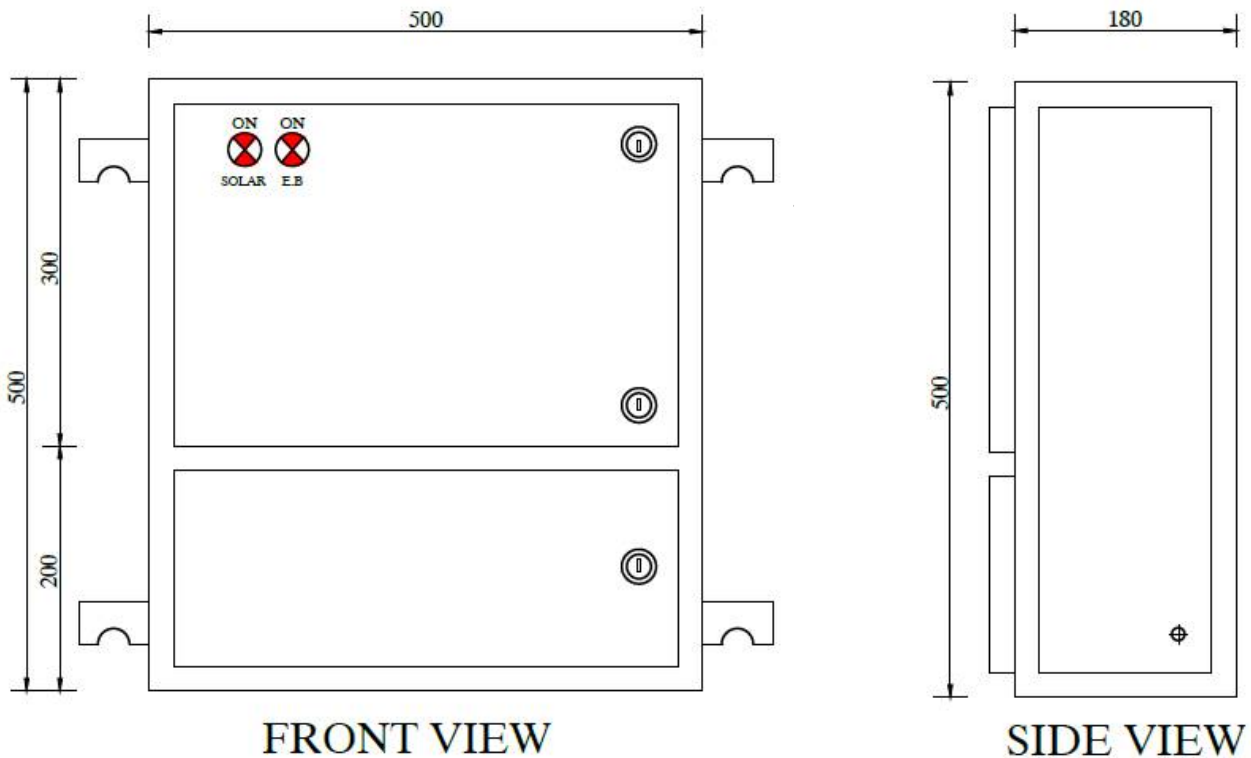


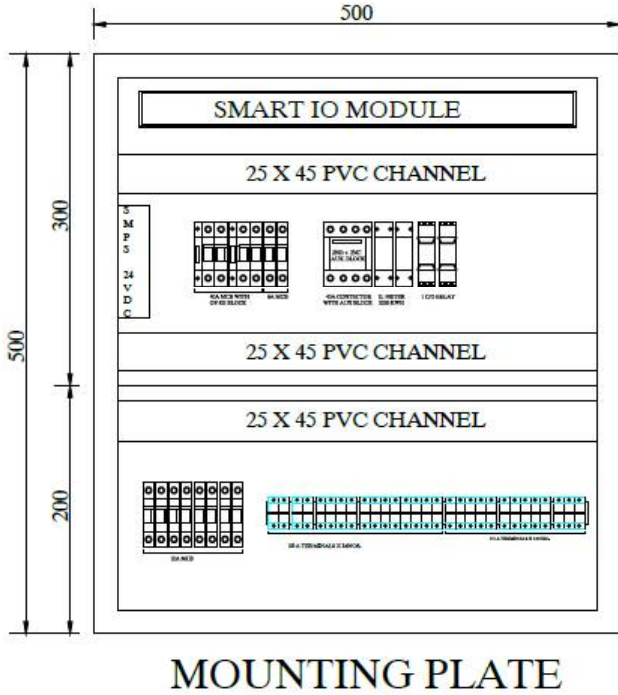
**Note:** Output of 1 KVA UPS will be given to smart panel for operation. The input power to 1 KVA UPS will be given from either Solar / DISCOM supply whichever is available.

The tentative block diagram for the desired communication architecture at site level is as below



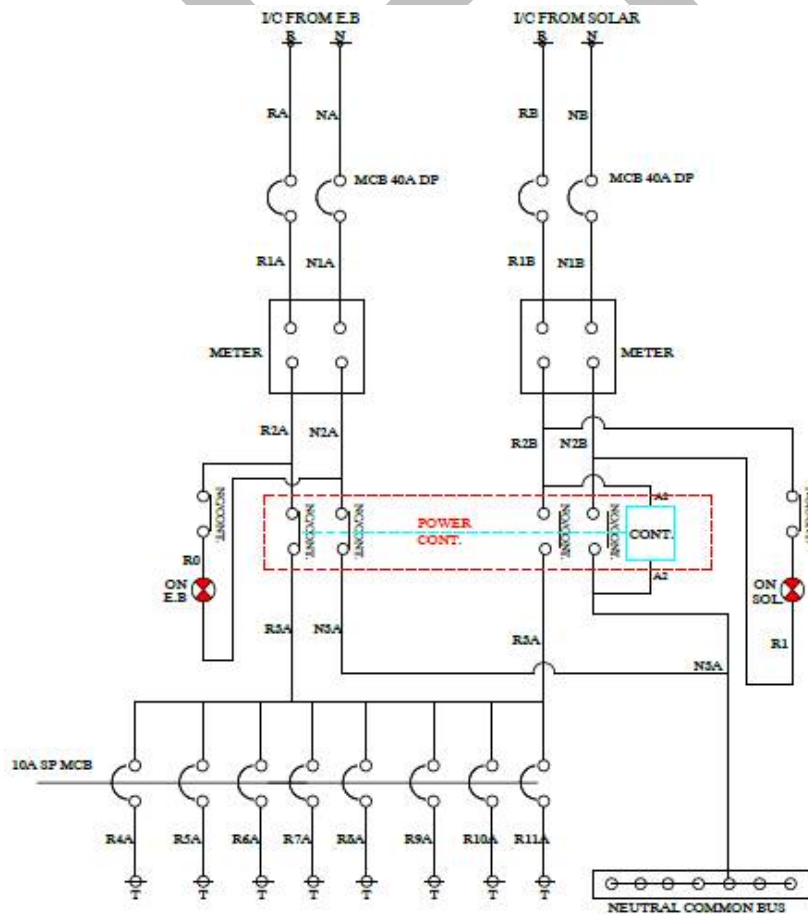
Smart panel tentative general arrangement (To be validated by smart IO module manufacturer for optimum performance of the module, considering the temperature and recommended IP degree of protection) (Size: 500(H) x 500(W) x 180(D)mm +/- 25 %





- a) Cable entry from bottom
- b) All dimensions are in mm
- c) Fabrication structure :  
1.6mm CRCA, IP-54
- d) The panel shall be suitable for 1Ph,  
2KW/5KW, 220V, 50Hz supply
- e) Door shall be earthed through 2.5sq.  
mm conductor
- f) Smart IO Module is basically Smart  
Controller cum Gateway for all referees, it  
will be called SMART IO Module.

Tentative Smart panel power wiring diagram



#### 4.1.2 Infrastructure Deployment

During the implementation period, bidder shall provide, on a weekly basis, the implementation progress report to DoIT&C designated officials. The state coordinator is required to attend regular review meetings with DoIT&C preferably on fortnight basis.

#### 4.1.3 Others

1. As the solution will be declared from date of commission in phased manner, there shall be time-gap between initially commissioned components (Smart Panel and SCADA Solution) and last commissioned components / sites. The period of O&M and warranty of components / sites commissioned before last phase may get completed before that of the last commissioned components / sites. Thus to keep all the O&M and warranty of commissioned components / sites up and running, the DoIT&C shall reserve the right to extend the O&M and Warranty of such components / sites to map with the last commissioned components / sites on mutual agree rates, terms and conditions.
2. Any other activity (which is integral to the scope of work) to keep the solution/ set-up functional to its full capacity shall be the responsibility of bidder.
3. It is pertinent to mention that installation and commissioning of some equipment may happen much earlier than the date of commission. Therefore, agencies are advised to take warranty from OEMs for the entire contract period, including the period taken for installation and commissioning before date of commission.
4. Deployment of required manpower as defined in for various activities like Project Management, O&M and support services etc.
5. Equipment offered should carry on-site comprehensive warranty, support and maintenance for five years from OEM covering parts, labor and on-site repair, and undertaking to the same effect from the OEM should be furnished by the bidder at the time of bid submission.
6. Make and Model of each item has to be furnished along with the bid.
7. Bidders to attach OEM certified clause by clause compliance with cross reference with respect to the technical specifications.
8. Any deviation on the technical specifications will result in the bid being non-responsive and the bid will be summary rejected.
9. Before quoting the prices for said work, it is advice to visit and check the actual site of installation and understand the requirement and scope of work.

10. Bidder shall submit a duly signed Manufacturer's Authorization Form for the tender confirming installation, commissioning, training and support for all critical systems and sub-systems directly by the OEM.
11. If required by DoIT&C, Bidder should organize a site visit for the technical committee having similar technology implementation in India.
12. The bidder should submit all necessary documentary evidence to establish that the Bidder meets the above qualifying requirements, failing which the bid will be treated as non-responsive and will be summarily rejected.

#### 4.1.4 Inspection:

- a) The Purchase Officer or his duly authorized representative shall at all reasonable time have access to the bidder/ OEM premises and shall have the power at all reasonable time to inspect and examine the materials and workmanship of the goods/ equipment/ machineries during manufacturing process or afterwards as may be decided. Inspection may be made at installation site.
- b) The bidder shall furnish complete address of the premises of his office, go-down and workshop where inspection can be made together with name and address of the person who is to be contacted for the purpose. In case of those dealers who have newly entered in business, a letter of introduction from their bankers will be necessary.
- c) In case of Test. Samples shall be drawn in two sets by giving the serial numbers on random basis of the sets supplied, properly sealed in the presence of the bidders representatives.

#### 4.1.5 Rejection:

- a) Articles not meeting the specifications laid down in RFP during inspection or testing or otherwise shall be rejected and will have to be replaced by the bidder at his own cost within the time fixed by the Purchase Officer.
- b) If, however, due to exigencies of Government work, such replacement either in whole or in part, is not considered feasible, the Purchase Officer after giving an opportunity to the bidder of being heard shall for reasons to be recorded, deduct a suitable amount from the approved rates. The deduction so made shall be final.
- c) The rejected articles shall be removed by the bidder within 7 days of intimation of rejection, after which Purchase Officer shall not be responsible for any loss, shortage or damage and shall have the right to dispose of such articles as he thinks fit, at the bidder's risk and on his account.

- d) The Contract for the supply can be repudiated at any time by the Purchase Officer, if the supplies are not made as per RFP specifications after giving an opportunity to the bidder of being heard and recording the reasons for repudiation.

#### 4.1.6 User Acceptance Test (UAT)

The primary goal of Acceptance Testing is to ensure that the Project (including all the project components as discussed in the scope of work) meets requirements, standards, specifications and performance, by ensuring that the following are associated with clear, quantifiable metrics for accountability:

- Infrastructure Compliance
  - Performance
  - Integration
  - Project Documentation
- a) Bidder is required to intimate the purchaser one week prior to the commencement of UAT activities.
- b) DoIT&C may associate authorized personnel for above test.
- c) The bidder is required to prepare acceptance test plan and procedure, format of acceptance testing reports etc. and submit to DoIT&C before UAT for approvals.
- d) The bidder shall co-ordinate and carry out test for working of individual component and panel as a whole as desired by purchaser. The test for each components and overall working of the panel in coordination with switch and UPS module.
- e) The bidder shall bring all the testing equipment to site as required under the procedure to carry out testing at no extra cost.
- f) The roll-out has been planned in phased manner as specified in Project Deliverables and Time Schedule. Each phase of UAT shall be offered by the bidder simultaneously. The UAT of Smart panel and SCADA Solution shall be carried independently. The UAT of conduiting, Cable and Wiring will be done as per actual installation at site. The tentative formats of UAT are enclosed as Annexure-24
- g) The bidder is required to rectify the Hardware, Software, configuration and deployed solution issues/ bugs reported, if any, during the testing. The selected bidder shall make the required changes to the application/solution deployed at no extra cost.
- h) In case of non-fulfillment of roles and responsibilities by DoIT&C in providing the required fronts and resources at Atal Seva Kendras, the delay in UAT due to following reasons will not be attributed as delay in part of bidder:

- i. Conditions arising from force majeure events including lightning, fire, flood and emergency.
- ii. DISCOM Power unavailability, Solar Supply System fault/unavailability, 1 kVA UPS unavailability/faulty, Mapping Problem in Solar UPS for RS 232 Port supplied by REIL.
- iii. RajNET connectivity failure issue.

DoIT&C will ensure that any problem with respect to above reasons shall be rectified at Atal Seva Kendras (ASKs) at earliest as per intimation by bidder.

#### **4.1.6.1 Supply of following documents**

- a) Detailed solution design (architecture diagram, functionality etc.),
- b) Details of inventory deployed including hardware and software location-wise.
- c) Location-wise material delivery & installation report of all equipment/ software supplied duly signed by purchasers authorized person.
- d) Compliance certificate's for specifications of hardware and software supplied.
- e) Installation, configuration and integration settings of all the installed components of Smart Panel solution with IP address details etc.
- f) OEM Warranty documents,
- g) Original S/w/ CDs/ DVDs and licenses, wherever applicable,
- h) User Manuals, Administrator Manual and datasheets, wherever applicable,
- i) UAT reports,
- j) Service Operation Procedure (SOP),

#### **4.1.6.2 Licensing**

- a) All software licenses, documents and statutory clearances such as SCADA and any other as applicable. The licenses should be valid over a period of five years except otherwise specified in this RFP.
- b) In case of licenses which requires annual renewal, an undertaking for timely renewal by the bidder should be submitted.

#### **4.1.7 Commissioning**

The commissioning for Smart Panel and SCADA solution shall be given separately. For Smart Panel phase wise commissioning shall be permitted.



Final approval/ user acceptance of the deployed solution shall be given by DoIT&C after successful implementation, testing and receipt of documents. It is the responsibility of the bidder to submit test reports and obtain the UAT approval from the DoIT&C. On successful UAT of the respective components of the particular phase, the same shall be declared commissioned and date of commission shall be given for that particular phase with effective from date of submission of UAT report.

On successful UAT by DoIT&C designated agency of the smart panel at locations given the event shall be marked as the “Date of Commissioning” of the batch.

The link shall be declared as commissioned after successful UAT of the panel. The date of commissioning shall be the date of successful UAT by the bidder for respective smart panel.

It is to be noted that the DoIT&C may get the complete/part solution audited through a Third Party, before date of commission and periodically after date of commission, in order to ensure the compliance to the RFP. Such third-party auditing for carrying out the acceptance testing and certification of the entire solution will be nominated by the DoIT&C. All expenses towards hiring of TPA shall be borne by purchaser. The bidder shall be required to extend co-ordination to such TPA for testing/auditing etc.

#### **4.1.8 Training**

Imparting the basic on-site training to designated officials so as to make them well conversant with the functionalities, features and processes of the deployed solution. The bidder shall also impart basic training of configuration, operation, and functionality and communication set-up for Smart Panel and SCADA Solution at respective project locations.

The bidder shall conduct 2 days basic administrative training of SCADA solution once in every six month to DoIT&C designated official. The administrative expenses except trainer charges shall be borne by the DoIT&C.

#### **4.1.9 Operation & Maintenance (O&M)**

The bidder is required to operate & maintain the complete solution for a period of 5 years from date of commission. It is required that bidder should deploy the minimum manpower as defined in RFP or as given in work order. The man month cost quoted in RFP shall be valid for entire

contract period. The bidder shall provision sufficient manpower for fault repair, maintenance and management of hardware as required.

#### **4.1.9.1 Preventive Maintenance Services**

- a. Conduct preventive maintenance (including inspection, testing, satisfactory execution of diagnostics and necessary repairing of the equipment) in quarterly basis.
- b. Preventive Maintenance Activities of components as per their manufacture's recommendation/ advice.
- c. The Preventive Maintenance shall be carried out by bidder in Non-Prime Hours only under intimation to Purchaser and bidder can carry out maintenance in prime hours without disturbing official activities in consultation with concern authorities at site.

#### **4.1.9.2 Corrective Maintenance Services**

- a. Warranty and maintenance/troubleshooting of supplied hardware/software and support infrastructure problem including active and passive equipment, security and rectification of the same.
- b. Documentation of problems, isolation, cause and rectification procedures for building knowledge base for the known problems.

#### **4.1.9.3 O&M for Smart Panel**

The objective of O&M is to operate and manage the entire smart panel by the bidder. This will include management, operations & maintenance of all the services/ facilities and all other elements. The bidder should provision sufficient manpower for operation & maintenance.

##### **a) Onsite Maintenance and Support Services**

The scope of work for this activity includes providing comprehensive maintenance with spare parts for smart panel infrastructure supplied for this project, for a period of Five years from date of commission. This includes:

- 1) Providing suitable replacement for faulty parts/components with same or better specifications or repair the original part/component so that daily business is not affected,
- 2) The bidder is required to deploy sufficient manpower in addition to minimum manpower defined in RFP, for O&M of remote sites to achieved desired SLA..

#### **4.1.10 OEM Support Services**

Bidder should have direct back-to-back service support agreement with the respective OEMs for the project duration of 5 years as per RFP from the date of commission. Though the projects shall be handed over to DoIT&C after 5 years from date of commission, all the equipment's shall become assets of DoIT&C from day one. DoIT&C/ Bidder/ GoR must be able to log a support ticket directly to OEM helpdesk to get telephonic/ remote support directly from OEM as required. Undertaking from OEM (Annexure-14) for above support services should be submitted by the Bidder along with the bid.

#### 4.1.11 Project Handover

After successful completion of the Project/ contract (i.e. 5 years from last phase of commissioning), it shall be handed-over to DoIT&C/GoR. It shall include the following:

- a) Submission of documents as defined in RFP,
- b) Handover of inventory deployed to DoIT&C/Authorized representative or bidder in working condition.

#### 4.2 Major Roles & Responsibilities of DoIT&C

The role of DoIT&C in the successful implementation of the solution includes discharging the following responsibilities:

- a) Review and approve the implementation plan and other reports as submitted by the selected bidder,
- b) List out all the nodal officers for co-ordination required for implementation and operational phases,
- c) Co-ordination with all stakeholders/end-office of the project,
- d) Associate in UAT on the solution installed by the Operator.
- e) During the pre-implementation period i.e. site survey, providing the requisite site information to the bidder so that the identification of a suitable installation site can be completed by the bidder.
- f) During the pre-implementation period i.e. site survey, providing the updated list of all the remote sites along with nodal officer & link officer details to the bidder.
- g) Static IP addresses for the smart IO module and the software.
- h) Intranet connectivity from the Atal Seva Kendras to central monitoring station in Jaipur.
- i) 2/ 5 KVA UPS backup supply to the servers in central monitoring station in Jaipur in fully working condition.
- j) Modbus register addresses of all parameters of solar inverter.
- k) Contact numbers of person in-charge of taking care of Atal Seva Kendras in Rajasthan.

- l) Access to site (Atal Seva Kendras) and clearances required for execution of the project.
- m) Email addresses for email notification, contact numbers for SMS notification. Making due payments to the bidder promptly.
- n) The working status of Solar and UPS are no issue of bidder. It will be maintained by REIL.
- o) UPS will be provided by DoIT&C.
- p) Grounding / Earthing of panel can be done with existing earthing available at each site.

#### 4.3 Project Deliverables, Milestones & Time Schedule

The milestones, deliverables and time schedule for the implementation of project shall be as follows:-

- a) The time specified for delivery and other activities as mentioned in the table below shall be deemed to be the essence of the contract and the successful bidder shall arrange supplies and provide the required services within the specified period.
- b) It should be noted that any delay in the project timelines shall attract Liquidated Damages to the selected bidder.
- c) T is the event marking date of signing of agreement with successful bidder and DoIT&C.

a) Table 4.3: Project Deliverables and Time Schedule

S. No.	Milestone	Project Deliverables	Time Schedule	Applicable Payment
1.	Signing of Agreement and Submission of Security Deposit (As per RFP Ref. S. No. 5.26, 5.27)	Agreement and Security Deposit	Within 20 days from date of issue of letter of acceptance / Intent of bid.	
2.	Project Kick-Off	Project Implementation Plan	T + 15 days	
<b>Installation and Integration of Smart Panel</b>				
3.	Date of Commission of first 1000 Smart Panel including Commissioning of SCADA and all work	1) Supply, Installation & commissioning certificates of all	T + 110 Days (inclusive of time- period of 7 days of UAT)	80% of item no. 1 to 5 and 8% of item no.6 & 7 as per BoQ (Annexure - 1) of each phase work

S. No.	Milestone	Project Deliverables	Time Schedule	Applicable Payment
	require to executive at Atal Seva Kendra	equipment's/soft ware supplied. 2) UAT Report		after successful UAT of that phase.
4.	Date of Commission of 1000 Smart Panel including Commissioning of SCADA and all work require to executive at Atal Seva Kendra	1) Supply, Installation & commissioning certificates of all equipment's/soft ware supplied. 2) UAT Report	T + 130 Days (inclusive of time- period of 7 days of UAT)	80% of item no. 1 to 5 and 8% of item no.6 & 7 as per BoQ (Annexure - 1) of each phase work after successful UAT of that phase.
5.	Date of Commission of 1200 Smart Panel including Commissioning of SCADA and all work require to executive at Atal Seva Kendra	1) Supply, Installation & commissioning certificates of all equipment's/soft ware supplied. 2) UAT Report	T + 150 Days (inclusive of time- period of 7 days of UAT)	80% of item no. 1 to 5 and 9.5% of item no.6 & 7 as per BoQ (Annexure - 1) of each phase work after successful UAT of that phase.
6.	Date of Commission of 1200 Smart Panel including Commissioning of SCADA and all work require to executive at Atal Seva Kendra	1) Supply, Installation & commissioning certificates of all equipment's/soft ware supplied. 2) UAT Report	T + 170 Days (inclusive of time- period of 7 days of UAT)	80% of item no. 1 to 5 and 9.5% of item no.6 & 7 as per BoQ (Annexure - 1) of each phase work after successful UAT of that phase.
7.	Date of Commission of 1200 Smart Panel including Commissioning of SCADA and all work require to executive at Atal Seva Kendra	1) Supply, Installation & commissioning certificates of all equipment's/soft ware supplied. 2) UAT Report	T + 190 days (Including 7 days of UAT period)	80% of item no. 1 to 5 and 9.5% of item no.6 & 7 as per BoQ (Annexure - 1) of each phase work after successful UAT of that phase.

S. No.	Milestone	Project Deliverables	Time Schedule	Applicable Payment
8.	Date of Commission of first 1200 Smart Panel including Commissioning of SCADA and all work require to executive at Atal Seva Kendra	1) Supply, Installation & commissioning certificates of all equipment's/software supplied. 2) UAT Report	T + 210 Days (inclusive of time- period of 7 days of UAT)	80% of item no. 1 to 5 and 9.5% of item no.6 & 7 as per BoQ (Annexure - 1) of each phase work after successful UAT of that phase.
9.	Date of Commission of first 1200 Smart Panel including Commissioning of SCADA and all work require to executive at Atal Seva Kendra	1) Supply, Installation & commissioning certificates of all equipment's/software supplied. 2) UAT Report	T + 230 Days (inclusive of time- period of 7 days of UAT)	80% of item no. 1 to 5 and 9.5% of item no.6 & 7 as per BoQ (Annexure - 1) of each phase work after successful UAT of that phase.
10.	Date of Commission of first 1000 Smart Panel including Commissioning of SCADA and all work require to executive at Atal Seva Kendra	1) Supply, Installation & commissioning certificates of all equipment's/software supplied. 2) UAT Report	T + 250 Days (inclusive of time- period of 7 days of UAT)	80% of item no. 1 to 5 and 8% of item no.6 & 7 as per BoQ (Annexure - 1) of each phase work after successful UAT of that phase.
11.	Date of Commission of first 1000 Smart Panel including Commissioning of SCADA and all work require to executive at Atal Seva Kendra	1) Supply, Installation & commissioning certificates of all equipment's/software supplied. 2) UAT Report	T + 270 Days (inclusive of time- period of 7 days of UAT)	80% of item no. 1 to 5 and 8.5% of item no.6 & 7 as per BoQ (Annexure - 1) of each phase work after successful UAT of that phase.
<b>SCADA Software Solution</b>				
12.	Date of Commission of SCADA Software	UAT Report	Within 110 days of placing	As per each phase progress mention in

S. No.	Milestone	Project Deliverables	Time Schedule	Applicable Payment
	Solution as per progress of point 1 to 11		the work order (exclusive of time- period of UAT)	S.No. 3 to 12 in tab of Installation and Integration of Smart Panel.
<b>Operations &amp; Maintenance Phase</b>				
13.	Comprehensive maintenance and operation of the entire set up at all Atal Seva Kendra after final commissioning including SCADA Solution at NOC of DoIT&C Jaipur	1) MIS reports 2) SLA reports	Five Years from the date of successful commissioning and UAT.	As per quarterly progress of project on basis of rate quoted annually by bidder.
<b>Project Handover Phase</b>				
15.	Project Handover	Project Handover Report	Within 30 days after successful completion of O&M phase of the project	

\* T is the date of issuing work order.

**Note:**

1. The number of smart panel given in above table are minimum number of Smart Panel commissioned to be offered by bidder in respective phase. However, the bidder may execute for higher number of SMART Panel commissioned in each phase.
2. Liquidated damage, applicable if any, shall be computed on non-executed panels for the respective phase. In case, if the bidder is able to complete the supply/installation/commissioning of all the phases within the contractual completion time of 9 months, the liquidated damages recovered by purchaser if any on account of delays in completion of phase wise milestones shall be refunded to supplier.

3. UAT of Smart Panel equipment shall be carried only on availability of devices in SCADA Software by service provider.
4. 20% of the total CAPEX (Ref. Fin. Bid) will be payable in equal instalments per quarter for 20 quarters from date of final commissioning.

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## 5. INSTRUCTION TO BIDDERS (ITB)

### 1) **Bid Security**

Every bidder, if not exempted, participating in the procurement process will be required to furnish the bid security as specified in the NIB.

- a) In lieu of bid security, a bid securing declaration shall be taken from Departments of the State Government, Undertakings, Corporations, Autonomous bodies, Registered Societies and Cooperative Societies which are owned or controlled or managed by the State Government and Government Undertakings of the Central Government.
- b) Bid security instrument or cash receipt of bid security or a bid securing declaration shall necessarily accompany the technical bid.
- c) Bid security of a bidder lying with the procuring entity in respect of other bids awaiting decision shall not be adjusted towards bid security for the fresh bids. The bid security originally deposited may, however, be taken into consideration in case bids are re-invited.
- d) The bid security may be given in the form of a banker's cheque or demand draft or bank guarantee (bank guarantee is allowed only where bid security amount is INR 10 Lakhs or above), in specified format, of a scheduled bank or deposited through eGRAS. The bid security must remain valid 30 days beyond the original or extended validity period of the bid.
- e) The issuer of the bid security and the confirmer, if any, of the bid security, as well as the form and terms of the bid security, must be acceptable to the procuring entity.
- f) Prior to presenting a submission, a bidder may request the procuring entity to confirm the acceptability of proposed issuer of a bid security or of a proposed confirmer, if required. The procuring entity shall respond promptly to such a request.
- g) The bank guarantee, if any, presented as bid security shall be got confirmed from the concerned issuing bank. However, the confirmation of the acceptability of a proposed issuer or of any proposed confirmer does not preclude the procuring entity from rejecting the bid security on the ground that the issuer or the confirmer, as the case may be, has become insolvent or has otherwise ceased to be creditworthy.
- h) The bid security of unsuccessful bidders shall be refunded soon after final acceptance of successful bid and signing of Agreement and submitting performance security.
- i) The Bid security taken from a bidder shall be forfeited, including the interest, if any, in the following cases, namely: -
  - a. when the bidder withdraws or modifies its bid after opening of bids;

- b. when the bidder does not execute the agreement, if any, after placement of supply/ work order within the specified period;
  - c. when the bidder fails to commence the supply of the goods or service or execute work as per supply/ work order within the time specified;
  - d. when the bidder does not deposit the performance security within specified period after the supply/ work order is placed; and
  - e. if the bidder breaches any provision of code of integrity, prescribed for bidders, specified in the bidding document.
- j) Notice will be given to the bidder with reasonable time before bid security deposited is forfeited.
  - k) No interest shall be payable on the bid security.
  - l) In case of the successful bidder, the amount of bid security may be adjusted in arriving at the amount of the Performance Security, or refunded if the successful bidder furnishes the full amount of performance security.
  - m) The procuring entity shall promptly return the bid security after the earliest of the following events, namely:-
    - a. the expiry of validity of bid security;
    - b. the execution of agreement for procurement and performance security is furnished by the successful bidder;
    - c. the cancellation of the procurement process; or
    - d. the withdrawal of bid prior to the deadline for presenting bids, unless the bidding documents stipulate that no such withdrawal is permitted.

## 2) Sale of Bidding/ Tender Documents

- a) The sale of bidding documents shall be commenced from the date of publication of NIB and shall be stopped one day prior to the date of opening of Bid. The complete bidding document shall also be placed on the SPPP and e-Procurement portal. The prospective bidders shall be permitted to download the bidding document from the websites and pay its price while submitting the Bid to the procuring entity.
- b) The bidding documents shall be made available to any prospective bidder who pays the price for it in cash or by bank demand draft, banker's cheque.
- c) Bidding documents purchased by Principal of any concern may be used by its authorised sole selling agents/ marketing agents/ distributors/ sub-distributors and authorised dealers or vice versa.

### 3) Pre-bid Meeting/ Clarifications

- a) Any prospective bidder may, in writing, seek clarifications from the procuring entity in respect of the bidding documents.
- b) A pre-bid conference is also scheduled by the procuring entity as per the details mentioned in the NIB and to clarify doubts of potential bidders in respect of the procurement and the records of such conference shall be intimated to all bidders and where applicable, shall be published on the respective websites.
- c) The period within which the bidders may seek clarifications under (a) above and the period within which the procuring entity shall respond to such requests for clarifications shall be as under: -
  - a. Last date of submitting clarifications requests by the bidder: as per NIB
  - b. Response to clarifications by procuring entity: as per NIB
- d) The minutes and response, if any, shall be provided promptly to all bidders to which the procuring entity provided the bidding documents, so as to enable those bidders to take minutes into account in preparing their bids, and shall be published on the respective websites.

### 4) Changes in the Bidding Document

- a) At any time, prior to the deadline for submission of Bids, the procuring entity may for any reason, whether on its own initiative or as a result of a request for clarification by a bidder, modify the bidding documents by issuing an addendum in accordance with the provisions below.
- b) In case, any modification is made to the bidding document or any clarification is issued which materially affects the terms contained in the bidding document, the procuring entity shall publish such modification or clarification in the same manner as the publication of the initial bidding document.
- c) In case, a clarification or modification is issued to the bidding document, the procuring entity may, prior to the last date for submission of Bids, extend such time limit in order to allow the bidders sufficient time to take into account the clarification or modification, as the case may be, while submitting their Bids.
- d) Any bidder, who has submitted his Bid in response to the original invitation, shall have the opportunity to modify or re-submit it, as the case may be, within the period of time originally allotted or such extended time as may be allowed for submission of Bids, when changes are made to the bidding document by the procuring entity; provided that the Bid last submitted or the Bid as modified by the bidder shall be considered for evaluation.

**5) Period of Validity of Bids**

- a) Bids submitted by the bidders shall remain valid during the period specified in the NIB/ bidding document. A Bid valid for a shorter period shall be rejected by the procuring entity as non-responsive Bid.
- b) Prior to the expiry of the period of validity of Bids, the procuring entity, in exceptional circumstances, may request the bidders to extend the bid validity period for an additional specified period of time. A bidder may refuse the request and such refusal shall be treated as withdrawal of Bid and in such circumstances bid security shall not be forfeited.
- c) Bidders that agree to an extension of the period of validity of their Bids shall extend or get extended the period of validity of bid securities submitted by them or submit new bid securities to cover the extended period of validity of their bids. A bidder whose bid security is not extended, or that has not submitted a new bid security, is considered to have refused the request to extend the period of validity of its Bid.

**6) Format and Signing of Bids**

- a) Bidders must submit their bids online at e-Procurement portal i.e. <http://eproc.rajasthan.gov.in>.
- b) All the documents uploaded should be digitally signed with the DSC of authorized signatory and uploaded only in PDF format with clear readability and prescribed filename as mentioned in the table below.
- c) A Single stage- two part/ cover system shall be followed for the Bid: -
  - a. Technical Bid, including fee details, eligibility & technical documents
  - b. Financial Bid
- d) The technical bid shall consist of the following documents shall be uploaded in scanned PDF format (Bidder's are required to provide content list by filling relevant page no.'s in the bid document being submitted as per the table given below): -

S. No.	Documents Type	Document Format
<b>Fee Details</b>		
1.	Bidding document Fee (Tender Fee), RISL Processing Fee (e-Procurement), and Bid Security	Instrument/ Proof of submission (FEE.PDF)
<b>Eligibility Documents</b>		

2.	Bidder's Authorisation Certificate	As per Annexure-5 and copy of PoA/ Board resolution stating that Auth. Signatory (DSC holder) can sign the bid/ contract on behalf of the firm. (AUTH.PDF)
3.	All the documents mentioned in the "Eligibility Criteria", in support of the eligibility	As per the format mentioned against the respective eligibility criteria clause (ELIGIBILITY.PDF)
4.	<Add more, if required>	<please specify appropriate reference>
<b>Technical Documents</b>		
5.	Certificate of Conformity/ No Deviation	As per Annexure-8 (COC.PDF)
6.	Declaration by Bidders	As per Annexure-13 (DEC.PDF)
7.	Manufacturer's Authorisation Form (MAF)	As per Annexure-14 (Indicative Format) (MAF.PDF)
8.	Undertaking on Authenticity of Comp. Equip.	As per Annexure-15 (AOCE.PDF)
9.	Components Offered + Technical specifications compliance sheet for all items only on OEM's letter-head	As per Annexure-16 (BOM.PDF)
10.	<Add more, if required>	<please specify appropriate reference>

b) Financial bid shall include the following documents: -

S. No.	Documents Type	Document Format
1.	Financial Bid – Covering Letter	On bidder's letter head duly signed by authorized signatory as per Annexure-17 (FBCOVER.PDF)
2.	Financial Bid - Format	As per BoQ (.XLS) format available on e-Procurement portal

- c) The bidder should ensure that all the required documents, as mentioned in this bidding document, are submitted along with the Bid and in the prescribed format only. Non-submission of the required documents or submission of the documents in a different format/ contents may lead to the rejections of the Bid submitted by the bidder.

#### 7) **Cost & Language of Bidding**

- a) The Bidder shall bear all costs associated with the preparation and submission of its Bid, and the procuring entity shall not be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
- b) The Bid, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and the procuring entity, shall be written only in English Language. Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages in English/ Hindi language, in which case, for purposes of interpretation of the Bid, such translation shall govern.

#### 8) **Alternative/ Multiple Bids**

Alternative/ Multiple Bids shall not be considered at all. Also, the bidder shall not quote for multiple brands/ make/ models but only one in the technical Bid and should also mention the details of the quoted make/ model in the "Annexure-16: Components Offered".

#### 9) **Deadline for the submission of Bids**

- a) Bids shall be received online at e-Procurement portal and up to the time and date specified in the NIB.
- b) Normally, the date of submission and opening of Bids would not be extended. In exceptional circumstances or when the bidding document are required to be substantially modified as a result of discussions in pre-bid meeting/ conference or otherwise and the time with the prospective bidders for preparation of Bids appears insufficient, the date may be extended by the procuring entity. In such case the publicity of extended time and date shall be given in the manner, as was given at the time of issuing the original NIB and shall also be placed on the State Public Procurement Portal, if applicable. It would be ensured that after issue of corrigendum, reasonable time is available to the bidders for preparation and submission of their Bids. The procuring entity shall also publish such modifications in the bidding document in the same manner as the publication of initial bidding document. If, in the office of the Bids receiving and

opening authority, the last date of submission or opening of Bids is a non-working day, the Bids shall be received or opened on the next working day.

#### 10) **Withdrawal, Substitution, and Modification of Bids**

- a) If permitted on e-Procurement portal, a Bidder may withdraw its Bid or re-submit its Bid (technical and/ or financial cover) as per the instructions/ procedure mentioned at e-Procurement website under the section "Bidder's Manual Kit".
- b) Bids withdrawn shall not be opened and processes further.
- c) No bid shall be withdrawn, substituted, or modified after the last time and date fixed for receipt of bids.

#### 11) **Opening of Bids**

- a) The Bids shall be opened by the bid opening & evaluation committee on the date and time mentioned in the NIB in the presence of the bidders or their authorised representatives who choose to be present.
- b) The committee may co-opt experienced persons in the committee to conduct the process of Bid opening.
- c) The committee shall prepare a list of the bidders or their representatives attending the opening of Bids and obtain their signatures on the same. The list shall also contain the representative's name and telephone number and corresponding bidders' names and addresses. The authority letters, if any, brought by the representatives shall be attached to the list. The list shall be signed by all the members of Bid opening committee with date and time of opening of the Bids.
- d) All the documents comprising of technical Bid/ cover shall be opened & downloaded from the e-Procurement website (only for the bidders who have submitted the prescribed fee(s) to DoIT&C & RISL).
- e) The committee shall conduct a preliminary scrutiny of the opened technical Bids to assess the prima-facie responsiveness and ensure that the:
  - a. bid is accompanied by bidding document fee, bid security or bid securing declaration, and processing fee (if applicable);
  - b. bid is valid for the period, specified in the bidding document;
  - c. bid is unconditional and the bidder has agreed to give the required performance security; and
  - d. Other conditions, as specified in the bidding document are fulfilled.
  - e. Any other information which the committee may consider appropriate.

- f) No Bid shall be rejected at the time of Bid opening except the Bids not accompanied with the proof of payment or instrument of the required price of bidding document, processing fee and bid security.
- g) The Financial Bid cover shall be kept unopened and shall be opened later on the date and time intimated to the bidders who qualify in the evaluation of technical Bids.

#### 12) Selection Method:

Technically Responsive Overall Lowest Evaluated bid will consider for awarded of the contract based on Net NPV defined in RFP.

#### 13) Clarification of Bids

- a) To assist in the examination, evaluation, comparison and qualification of the Bids, the bid evaluation committee may, at its discretion, ask any bidder for a clarification regarding its Bid. The committee's request for clarification and the response of the bidder shall be through the e-Procurement portal.
- b) Any clarification submitted by a bidder with regard to its Bid that is not in response to a request by the committee shall not be considered.
- c) No change in the prices or substance of the Bid shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the committee in the evaluation of the financial Bids.
- d) No substantive change to qualification information or to a submission, including changes aimed at making an unqualified bidder, qualified or an unresponsive submission, responsive shall be sought, offered or permitted.

#### 14) Evaluation & Tabulation of Technical Bids

##### a) Determination of Responsiveness

- a. The bid evaluation committee shall determine the responsiveness of a Bid on the basis of bidding document and the provisions of pre-qualification/ eligibility criteria of the bidding document.
- b. A responsive Bid is one that meets the requirements of the bidding document without any material deviation, reservation, or omission where: -
  - i. "deviation" is a departure from the requirements specified in the bidding document;
  - ii. "reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the bidding document; and



- iii. "Omission" is the failure to submit part or all of the information or documentation required in the bidding document.
- c. A material deviation, reservation, or omission is one that,
  - i. if accepted, shall:-
    - 1. affect in any substantial way the scope, quality, or performance of the subject matter of procurement specified in the bidding documents; or
    - 2. limits in any substantial way, inconsistent with the bidding documents, the procuring entity's rights or the bidder's obligations under the proposed contract; or
  - ii. if rectified, shall unfairly affect the competitive position of other bidders presenting responsive Bids.
- d. The bid evaluation committee shall examine the technical aspects of the Bid in particular, to confirm that all requirements of bidding document have been met without any material deviation, reservation or omission.
- e. The procuring entity shall regard a Bid as responsive if it conforms to all requirements set out in the bidding document, or it contains minor deviations that do not materially alter or depart from the characteristics, terms, conditions and other requirements set out in the bidding document, or if it contains errors or oversights that can be corrected without touching on the substance of the Bid.

**b) Non-material Non-conformities in Bids**

- a. The bid evaluation committee may waive any non-conformities in the Bid that do not constitute a material deviation, reservation or omission, the Bid shall be deemed to be substantially responsive.
- b. The bid evaluation committee may request the bidder to submit the necessary information or document like audited statement of accounts/ CA Certificate, Registration Certificate, VAT/ CST clearance certificate, ISO/ CMMi Certificates, etc. within a reasonable period of time. Failure of the bidder to comply with the request may result in the rejection of its Bid.
- c. The bid evaluation committee may rectify non-material nonconformities or omissions on the basis of the information or documentation received from the bidder under (b) above.

**c) Technical Evaluation Criteria**

- 1) The technical evaluation shall be completed by the designated Procurement Committee as early as possible after opening of technical bids. It shall examine the technical bid including the pre-qualification documents.

- 2) Bid shall be evaluated technically based on the documents submitted by the bidder as asked in the clause 5.5(d).
- 3) The eligible bidders whose bid is determined to be substantially responsive shall be considered to be qualified in the technical evaluation, unless disqualified pursuant to clause "Conflict of Interest" or "Disqualification", and shall be informed, either in writing or by uploading the details on the websites mentioned in the NIB, about the date, time and place of opening of their financial bids..
- 4) The firms which could not qualify in technical evaluation will be informed about this fact. Their financial bid will not be opened and Bid Security refunded after completion of the bid process i.e. award of the contract to the best/successful bidder.

**d) Tabulation of Technical Bids**

- a. If Technical Bids have been invited, they shall be tabulated by the bid evaluation committee in the form of a comparative statement to evaluate the qualification of the bidders against the criteria for qualification set out in the bidding document.
- b. The members of bid evaluation committee shall give their recommendations below the table as to which of the bidders have been found to be qualified in evaluation of Technical Bids and sign it.
- e) The number of firms qualified in technical evaluation, if less than three and it is considered necessary by the procuring entity to continue with the procurement process, reasons shall be recorded in writing and included in the record of the procurement proceedings.
- f) The bidders who qualified in the technical evaluation shall be informed in writing about the date, time and place of opening of their financial Bids.

**15) Evaluation & Tabulation of Financial Bids**

Subject to the provisions of "Acceptance of Successful Bid and Award of Contract" below, the procuring entity shall take following actions for evaluation of financial Bids:-

- a) For two part/ cover Bid system, the financial bids/ cover of bidders who qualify in technical evaluation shall be opened online at the notified time, date and place by the members of the designated Procurement Committee in the presence of the bidders or their representatives who choose to be present. Alternatively, the bidders may also view the financial bid opening status/ process online at e-Procurement website. The process of opening of the financial Bids shall be similar to that of technical Bids.
- b) the names of the bidders, the rates given by them and conditions put, if any, shall be read out and recorded;

- c) conditional Bids are liable to be rejected;
- d) In order to decide the L1 bidder, NPV (Net Present Value) of the payable amount shall be taken into account as given below:

NPV For calculation:

Up front payment = 80% of Price quoted for Total CAPEX (BoQ-1) = A1

Price quoted for Total OPEX (Including AMC (BoQ-2) and Manpower (BoQ-3)) = B1

Quarterly payable amount =  $[(\text{Balance amount of CAPEX (BoQ-1) i.e. 20\% of Total CAPEX}) + B1] / 20 = C1$

Total quarters for which payment to be made = 20

The PV factor would be 3% per quarter (12% per year).

$NPV = A1 + [C1/1.03] + [C1/(1.03)^2] + [C1/(1.03)^3] + [C1/(1.03)^4] + [C1/(1.03)^5]$   
+.....  $[C1/(1.03)^{20}]$

**NOTE:** QGR for 20 quarters have been considered for evaluation purpose only. However, the payment shall be made as per payment terms and conditions of RFP.

- e) The evaluation shall include all costs and all taxes and duties applicable to the bidder as per law of the Central/ State Government/ Local Authorities, and the evaluation criteria specified in the bidding documents shall only be applied, However calculating NPV, the amount of price shall be subjected to the provision of clause-17 of ITB i.e the element of CST shall be included and the element of VAT shall be excluded.
- f) The offers shall be evaluated and marked L1, L2, L3 etc. L1 being the lowest offer and then others in ascending order in case price is the only criteria, or evaluated and marked H1, H2, H3 etc. in descending order. <In case quality is also a criteria and the combined score of technical and financial evaluation is considered>;
- g) the bid evaluation committee shall prepare a comparative statement in tabular form in accordance with rules along with its report on evaluation of financial Bids and recommend the lowest offer for acceptance to the procuring entity, if price is the only criterion, or most advantageous Bid in other case;
- h) The members of bids evaluation committee shall give their recommendations below the table regarding lowest Bid or most advantageous Bid and sign it.

- i) It shall be ensured that the offer recommended for sanction is justifiable looking to the prevailing market rates of the goods, works or service required to be procured.
- j) In the BoQ, there are items for which rate will be quoted individually as item rate. However for the purpose of evaluation composite rate for CAPEX and OPEX shall be taken into consideration.

#### 16) Correction of Arithmetic Errors in Financial Bids

The bid evaluation committee shall correct arithmetical errors in substantially responsive Bids, on the following basis, namely: -

- a) if there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected, unless in the opinion of the bid evaluation committee there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected;
- b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
- c) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to clause (a) and (b) above.

#### 17) Comparison of rates of firms outside and those in Rajasthan

While tabulating the financial Bids of those firms which are not entitled to price preference, the element of Rajasthan Value Added Tax (RVAT) shall be excluded from the rates quoted by the firms of Rajasthan and the element of Central Sales Tax (CST) shall be included in the rates of firms from outside Rajasthan for financial bid evaluation purpose.

- a. The firms which have VAT registration with department of commercial tax of Govt. of Rajasthan (GoR);
- b. VAT clearance certificate should be from Govt. of Rajasthan (GoR)
- c. The billing by the firm should be from their registered office in Rajasthan.

#### 18) Price/ purchase preference in evaluation

Price and/ or purchase preference notified by the State Government (GoR) and as mentioned in the bidding document shall be considered in the evaluation of Bids and award of contract.

## 19) Negotiations

- a) Except in case of procurement by method of single source procurement or procurement by competitive negotiations, to the extent possible, no negotiations shall be conducted after the pre-bid stage. All clarifications needed to be sought shall be sought in the pre-bid stage itself.
- b) Negotiations may, however, be undertaken only with the lowest or most advantageous bidder when the rates are considered to be much higher than the prevailing market rates.
- c) The bid evaluation committee shall have full powers to undertake negotiations. Detailed reasons and results of negotiations shall be recorded in the proceedings.
- d) The lowest or most advantageous bidder shall be informed in writing either through messenger or by registered letter and e-mail (if available). A minimum time of seven days shall be given for calling negotiations. In case of urgency the bid evaluation committee, after recording reasons, may reduce the time, provided the lowest or most advantageous bidder has received the intimation and consented to regarding holding of negotiations.
- e) Negotiations shall not make the original offer made by the bidder inoperative. The bid evaluation committee shall have option to consider the original offer in case the bidder decides to increase rates originally quoted or imposes any new terms or conditions.
- f) In case of non-satisfactory achievement of rates from lowest or most advantageous bidder, the bid evaluation committee may choose to make a written counter offer to the lowest or most advantageous bidder and if this is not accepted by him, the committee may decide to reject and re-invite Bids or to make the same counter-offer first to the second lowest or most advantageous bidder, then to the third lowest or most advantageous bidder and so on in the order of their initial standing and work/ supply order be awarded to the bidder who accepts the counter-offer. This procedure would be used in exceptional cases only.
- g) In case the rates even after the negotiations are considered very high, fresh Bids shall be invited.

## 20) Exclusion of Bids/ Disqualification

- a) A procuring entity shall exclude/ disqualify a Bid, if: -
  - a. the information submitted, concerning the qualifications of the bidder, was false or constituted a misrepresentation; or

- b. the information submitted, concerning the qualifications of the bidder, was materially inaccurate or incomplete; and
  - c. the bidder is not qualified as per pre-qualification/ eligibility criteria mentioned in the bidding document;
  - d. the Bid materially departs from the requirements specified in the bidding document or it contains false information;
  - e. the bidder, submitting the Bid, his agent or any one acting on his behalf, gave or agreed to give, to any officer or employee of the procuring entity or other governmental authority a gratification in any form, or any other thing of value, so as to unduly influence the procurement process;
  - f. a bidder, in the opinion of the procuring entity, has a conflict of interest materially affecting fair competition.
- b) A Bid shall be excluded/ disqualified as soon as the cause for its exclusion/ disqualification is discovered.
  - c) Every decision of a procuring entity to exclude a Bid shall be for reasons to be recorded in writing and shall be: -
    - a. communicated to the concerned bidder in writing;
    - b. Published on the State Public Procurement Portal, if applicable.

#### 21) Lack of competition

- a) A situation may arise where, if after evaluation of Bids, the bid evaluation committee may end-up with one responsive Bid only. In such situation, the bid evaluation committee would check as to whether while floating the NIB all necessary requirements to encourage competition like standard bid conditions, industry friendly specifications, wide publicity, sufficient time for formulation of Bids, etc. were fulfilled. If not, the NIB would be re-floated after rectifying deficiencies. The bid process shall be considered valid even if there is one responsive Bid, provided that: -
  - a. the Bid is technically qualified;
  - b. the price quoted by the bidder is assessed to be reasonable;
  - c. the Bid is unconditional and complete in all respects;
  - d. there are no obvious indicators of cartelization amongst bidders; and
  - e. the bidder is qualified as per the provisions of pre-qualification/ eligibility criteria in the bidding document
- b) The bid evaluation committee shall prepare a justification note for approval by the next higher authority of the procuring entity, with the concurrence of the accounts member.

- c) In case of dissent by any member of bid evaluation committee, the next higher authority in delegation of financial powers shall decide as to whether to sanction the single Bid or re-invite Bids after recording reasons.
- d) If a decision to re-invite the Bids is taken, market assessment shall be carried out for estimation of market depth, eligibility criteria and cost estimate.

**22) Acceptance of the successful Bid and award of contract**

- a) The procuring entity after considering the recommendations of the bid evaluation committee and the conditions of Bid, if any, financial implications, trials, sample testing and test reports, etc., shall accept or reject the successful Bid. If any member of the bid evaluation committee, has disagreed or given its note of dissent, the matter shall be referred to the next higher authority, as per delegation of financial powers, for decision.
- b) Decision on Bids shall be taken within original validity period of Bids and time period allowed to procuring entity for taking decision. If the decision is not taken within the original validity period or time limit allowed for taking decision, the matter shall be referred to the next higher authority in delegation of financial powers for decision.
- c) Before award of the contract, the procuring entity shall ensure that the price of successful Bid is reasonable and consistent with the required quality.
- d) A Bid shall be treated as successful only after the competent authority has approved the procurement in terms of that Bid.
- e) The procuring entity shall award the contract to the bidder whose offer has been determined to be the lowest or most advantageous in accordance with the evaluation criteria set out in the bidding document and if the bidder has been determined to be qualified to perform the contract satisfactorily on the basis of qualification criteria fixed for the bidders in the bidding document for the subject matter of procurement.
- f) Prior to the expiration of the period of bid validity, the procuring entity shall inform the successful bidder, in writing, that its Bid has been accepted.
- g) As soon as a Bid is accepted by the competent authority, its written intimation shall be sent to the concerned bidder by registered post or email and asked to execute an agreement in the format given in the bidding documents on a non-judicial stamp of requisite value and deposit the amount of performance security or a performance security declaration, if applicable, within a period specified in the bidding documents or where the period is not specified in the bidding documents then within fifteen days from the date on which the letter of acceptance or letter of intent is dispatched to the bidder.

- h) If the issuance of formal letter of acceptance is likely to take time, in the meanwhile a Letter of Intent (LOI) may be sent to the bidder. The acceptance of an offer is complete as soon as the letter of acceptance or letter of intent is posted and/ or sent by email (if available) to the address of the bidder given in the bidding document. Until a formal contract is executed, the letter of acceptance or LOI shall constitute a binding contract.
- i) The bid security of the bidders who's Bids could not be accepted shall be refunded soon after the contract with the successful bidder is signed and its performance security is obtained.

**23) Information and publication of award**

Information of award of contract shall be communicated to all participating bidders and published on the respective website(s) as specified in NIB.

**24) Procuring entity's right to accept or reject any or all Bids**

The Procuring entity reserves the right to accept or reject any Bid, and to annul (cancel) the bidding process and reject all Bids at any time prior to award of contract, without thereby incurring any liability to the bidders.

**25) Right to vary quantity**

- a) At the time of award of contract, the quantity of goods, works or services originally specified in the bidding documents may be increased, but such increase shall not exceed 20% of the quantity specified in the bidding documents. It shall be without any change in the unit prices or other terms and conditions of the Bid and the bidding documents.
- b) If the procuring entity does not procure any subject matter of procurement or procures less than the quantity specified in the bidding documents due to change in circumstances, the bidder shall not be entitled for any claim or compensation.
- c) Repeat orders for extra items or additional quantities may be placed on the rates and conditions given in the contract (if the original order was given after inviting open competitive Bids). Delivery or completion period may also be proportionately increased. The limits of repeat order shall be as under: -
  - a. 50% of the quantity of the individual items and 50% of the value of original contract in case of works; and
  - b. 50% of the value of goods or services of the original contract.



## 26) Performance Security

- a) Prior to execution of agreement, Performance security shall be solicited from all successful bidders except the departments of the State Government and undertakings, corporations, autonomous bodies, registered societies, co-operative societies which are owned or controlled or managed by the State Government and undertakings of the Central Government. However, a performance security declaration shall be taken from them. The State Government may relax the provision of performance security in particular procurement or any class of procurement.
- b) The amount of performance security shall be 5%, or as may be specified in the bidding document, of the amount of supply order in case of procurement of goods and services. In case of Small Scale Industries (SSI) of Rajasthan, it shall be 1% of the amount of quantity ordered for supply of goods and in case of sick industries, other than SSI, whose cases are pending before the Board of Industrial and Financial Reconstruction (BIFR), it shall be 2% of the amount of supply order.
- c) Performance security shall be furnished in any one of the following forms: -
  - a. deposit through eGRAS;
  - b. Bank Draft or Banker's Cheque of a scheduled bank;
  - c. National Savings Certificates and any other script/ instrument under National Savings Schemes for promotion of small savings issued by a Post Office in Rajasthan, if the same can be pledged under the relevant rules. They shall be accepted at their surrender value at the time of bid and formally transferred in the name of procuring entity with the approval of Head Post Master;
  - d. Bank guarantee/s of a scheduled bank. It shall be got verified from the issuing bank. Other conditions regarding bank guarantee shall be same as mentioned in the bidding document for bid security;
  - e. Fixed Deposit Receipt (FDR) of a scheduled bank. It shall be in the name of procuring entity on account of bidder and discharged by the bidder in advance. The procuring entity shall ensure before accepting the FDR that the bidder furnishes an undertaking from the bank to make payment/ premature payment of the FDR on demand to the procuring entity without requirement of consent of the bidder concerned. In the event of forfeiture of the performance security, the Fixed Deposit shall be forfeited along with interest earned on such Fixed Deposit.
- d) Performance security furnished in the form specified in clause [b.] to [e.] of I above shall remain valid for a period of 60 days beyond the date of completion of all contractual

obligations of the bidder, including warranty obligations and maintenance and defect liability period.

- e) Forfeiture of Security Deposit: Security amount in full or part may be forfeited, including interest, if any, in the following cases:-
- When any terms and condition of the contract is breached.
  - When the bidder fails to make complete supply satisfactorily.
  - If the bidder breaches any provision of code of integrity, prescribed for bidders, specified in the bidding document.
- f) Notice will be given to the bidder with reasonable time before PSD deposited is forfeited.
- g) No interest shall be payable on the PSD.

## 27) Execution of agreement

- A procurement contract shall come into force from the date on which the letter of acceptance or letter of intent is despatched to the bidder.
- The successful bidder shall sign the procurement contract within a period specified in the bidding document from the date on which the letter of acceptance or letter of intent is despatched to the successful bidder.
- If the bidder, who's Bid has been accepted, fails to sign a written procurement contract or fails to furnish the required performance security within specified period, the procuring entity shall take action against the successful bidder as per the provisions of the bidding document and Act. The procuring entity may, in such case, cancel the procurement process or if it deems fit, offer for acceptance the rates of lowest or most advantageous bidder to the next lowest or most advantageous bidder, in accordance with the criteria and procedures set out in the bidding document.
- The bidder will be required to execute the agreement on a non-judicial stamp of specified value at its cost and to be purchase from anywhere in Rajasthan only.

## 28) Confidentiality

- Notwithstanding anything contained in this bidding document but subject to the provisions of any other law for the time being in force providing for disclosure of information, a procuring entity shall not disclose any information if such disclosure, in its opinion, is likely to: -
  - impede enforcement of any law;
  - affect the security or strategic interests of India;
  - affect the intellectual property rights or legitimate commercial interests of bidders;

- d. Affect the legitimate commercial interests of the procuring entity in situations that may include when the procurement relates to a project in which the procuring entity is to make a competitive bid, or the intellectual property rights of the procuring entity.
- b) The procuring entity shall treat all communications with bidders related to the procurement process in such manner as to avoid their disclosure to competing bidders or to any other person not authorised to have access to such information.
- c) The procuring entity may impose on bidders and sub-contractors, if there are any for fulfilling the terms of the procurement contract, conditions aimed at protecting information, the disclosure of which violates (a) above.
- d) In addition to the restrictions specified above, the procuring entity, while procuring a subject matter of such nature which requires the procuring entity to maintain confidentiality, may impose condition for protecting confidentiality of such information.

#### 29) Cancellation of procurement process

- a) If any procurement process has been cancelled, it shall not be reopened but it shall not prevent the procuring entity from initiating a new procurement process for the same subject matter of procurement, if required.
- b) A procuring entity may, for reasons to be recorded in writing, cancel the process of procurement initiated by it -
  - a. at any time prior to the acceptance of the successful Bid; or
  - b. After the successful Bid is accepted in accordance with (d) and I below.
- c) The procuring entity shall not open any bids or proposals after taking a decision to cancel the procurement and shall return such unopened bids or proposals.
- d) The decision of the procuring entity to cancel the procurement and reasons for such decision shall be immediately communicated to all bidders that participated in the procurement process.
- e) If the bidder who's Bid has been accepted as successful fails to sign any written procurement contract as required, or fails to provide any required security for the performance of the contract, the procuring entity may cancel the procurement process.
- f) If a bidder is convicted of any offence under the Act, the procuring entity may: -
  - a. cancel the relevant procurement process if the Bid of the convicted bidder has been declared as successful but no procurement contract has been entered into;
  - b. Rescind (cancel) the relevant contract or forfeit the payment of all or a part of the contract value if the procurement contract has been entered into between the procuring entity and the convicted bidder.

### 30) Code of Integrity for Bidders

- a) No person participating in a procurement process shall act in contravention of the code of integrity prescribed by the State Government.
- b) The code of integrity include provisions for: -
  - a. Prohibiting
    - i. any offer, solicitation or acceptance of any bribe, reward or gift or any material benefit, either directly or indirectly, in exchange for an unfair advantage in the procurement process or to otherwise influence the procurement process;
    - ii. any omission, including a misrepresentation that misleads or attempts to mislead so as to obtain a financial or other benefit or avoid an obligation;
    - iii. any collusion, bid rigging or anti-competitive behaviour to impair the transparency, fairness and progress of the procurement process;
    - iv. improper use of information shared between the procuring entity and the bidders with an intent to gain unfair advantage in the procurement process or for personal gain;
    - v. any financial or business transactions between the bidder and any officer or employee of the procuring entity;
    - vi. any coercion including impairing or harming or threatening to do the same, directly or indirectly, to any party or to its property to influence the procurement process;
    - vii. any obstruction of any investigation or audit of a procurement process;
  - b. disclosure of conflict of interest;
  - c. Disclosure by the bidder of any previous transgressions with any entity in India or any other country during the last three years or of any debarment by any other procuring entity.
- c) Without prejudice to the provisions below, in case of any breach of the code of integrity by a bidder or prospective bidder, as the case may be, the procuring entity may take appropriate measures including: -
  - a. exclusion of the bidder from the procurement process;
  - b. calling-off of pre-contract negotiations and forfeiture or encashment of bid security;
  - c. forfeiture or encashment of any other security or bond relating to the procurement;
  - d. recovery of payments made by the procuring entity along with interest thereon at bank rate;

- e. cancellation of the relevant contract and recovery of compensation for loss incurred by the procuring entity;
- f. Debarment of the bidder from participation in future procurements of the procuring entity for a period not exceeding three years.

### 31) Conflict of Interest

A Bidder may be considered to be in conflict of interest with one or more parties in a bidding process if, including but not limited to:-

- a) they have controlling partners in common;
- b) they receive or have received any direct or indirect subsidy from any of them;
- c) they have the same legal representative for purposes of the bid;
- d) they have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another;
- e) A bidder participates in more than one bid in the same bidding process. However, this does not limit the inclusion of the same sub-contractor, not otherwise participating as a bidder, in more than one bid; or
- f) A bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the subject matter of procurement of the bidding process. All bidders shall provide in Eligibility Criteria documents, a statement that the bidder is neither associated nor has been associated directly or indirectly, with the consultant or any other entity that has prepared the design, specifications and other documents for the subject matter of procurement or being proposed as Project Manager for the contract.

### 32) Interference with Procurement Process

A bidder, who: -

- a) withdraws from the procurement process after opening of financial bids;
- b) withdraws from the procurement process after being declared the successful bidder;
- c) fails to enter into procurement contract after being declared the successful bidder;
- d) fails to provide performance security or any other document or security required in terms of the bidding documents after being declared the successful bidder, without valid grounds,

shall, in addition to the recourse available in the bidding document or the contract, be punished with fine which may extend to fifty lakh rupees or ten per cent of the assessed value of procurement, whichever is less.

### 33) Appeals

- a) Subject to “Appeal not to lie in certain cases” below, if any bidder or prospective bidder is aggrieved that any decision, action or omission of the procuring entity is in contravention to the provisions of the Act or the rules or guidelines issued thereunder, he may file an appeal to such officer of the procuring entity, as may be designated by it for the purpose, within a period of 10 days from the date of such decision or action, omission, as the case may be, clearly giving the specific ground or grounds on which he feels aggrieved:
  - a. Provided that after the declaration of a bidder as successful in terms of “Award of Contract”, the appeal may be filed only by a bidder who has participated in procurement proceedings:
  - b. Provided further that in case a procuring entity evaluates the technical Bid before the opening of the financial Bid, an appeal related to the matter of financial Bid may be filed only by a bidder whose technical Bid is found to be acceptable.
- b) The officer to whom an appeal is filed under (a) above shall deal with the appeal as expeditiously as possible and shall endeavour to dispose it of within 30 days from the date of filing of the appeal.
- c) If the officer designated under (a) above fails to dispose of the appeal filed under that sub-section within the period specified in (b) above, or if the bidder or prospective bidder or the procuring entity is aggrieved by the order passed, the bidder or prospective bidder or the procuring entity, as the case may be, may file a second appeal to an officer or authority designated by the State Government in this behalf within 15 days from the expiry of the period specified in (b) above or of the date of receipt of the order passed under (b) above, as the case may be.
- d) The officer or authority to which an appeal is filed under I above shall deal with the appeal as expeditiously as possible and shall endeavour to dispose it of within 30 days from the date of filing of the appeal:
- e) The officer or authority to which an appeal may be filed under (a) or (d) above shall be:  
: First Appellate Authority: Secretary, IT&C, GoR  
Second Appellate Authority: Principal Secretary, Finance Department, GoR
- f) Form of Appeal:

- a. Every appeal under (a) and (c) above shall be as per Annexure-16 along with as many copies as there are respondents in the appeal.
- b. Every appeal shall be accompanied by an order appealed against, if any, affidavit verifying the facts stated in the appeal and proof of payment of fee.
- c. Every appeal may be presented to First Appellate Authority or Second Appellate Authority, as the case may be, in person or through registered post or authorised representative.
- g) Fee for Appeal: Fee for filing appeal:
  - a. Fee for first appeal shall be rupees two thousand five hundred and for second appeal shall be rupees ten thousand, which shall be non-refundable.
  - b. The fee shall be paid in the form of bank demand draft or banker's cheque of a Scheduled Bank payable in the name of Appellate Authority concerned.
- h) Procedure for disposal of appeal:
  - a. The First Appellate Authority or Second Appellate Authority, as the case may be, upon filing of appeal, shall issue notice accompanied by copy of appeal, affidavit and documents, if any, to the respondents and fix date of hearing.
  - b. On the date fixed for hearing, the First Appellate Authority or Second Appellate Authority, as the case may be, shall,-
    - i. hear all the parties to appeal present before him; and
    - ii. peruse or inspect documents, relevant records or copies thereof relating to the matter.
  - c. After hearing the parties, perusal or inspection of documents and relevant records or copies thereof relating to the matter, the Appellate Authority concerned shall pass an order in writing and provide the copy of order to the parties to appeal free of cost.
  - d. The order passed under I shall also be placed on the State Public Procurement Portal.
- i) No information which would impair the protection of essential security interests of India, or impede the enforcement of law or fair competition, or prejudice the legitimate commercial interests of the bidder or the procuring entity, shall be disclosed in a proceeding under an appeal.

#### 34) Stay of procurement proceedings

While hearing of an appeal, the officer or authority hearing the appeal may, on an application made in this behalf and after affording a reasonable opportunity of hearing to the parties

concerned, stay the procurement proceedings pending disposal of the appeal, if he, or it, is satisfied that failure to do so is likely to lead to miscarriage of justice.

### 35) Vexatious Appeals & Complaints

Whoever intentionally files any vexatious, frivolous or malicious appeal or complaint under the “The Rajasthan Transparency Public Procurement Act 2012”, with the intention of delaying or defeating any procurement or causing loss to any procuring entity or any other bidder, shall be punished with fine which may extend to twenty lakh rupees or five per cent of the value of procurement, whichever is less.

### 36) Offenses by Firms/ Companies

- a) Where an offence under “The Rajasthan Transparency Public Procurement Act 2012” has been committed by a company, every person who at the time the offence was committed was in charge of and was responsible to the company for the conduct of the business of the company, as well as the company, shall be deemed to be guilty of having committed the offence and shall be liable to be proceeded against and punished accordingly:

Provided that nothing contained in this sub-section shall render any such person liable for any punishment if he proves that the offence was committed without his knowledge or that he had exercised all due diligence to prevent the commission of such offence.

- b) Notwithstanding anything contained in (a) above, where an offence under this Act has been committed by a company and it is proved that the offence has been committed with the consent or connivance of or is attributable to any neglect on the part of any director, manager, secretary or other officer of the company, such director, manager, secretary or other officer shall also be deemed to be guilty of having committed such offence and shall be liable to be proceeded against and punished accordingly.

- c) For the purpose of this section-

- a. “company” means a body corporate and includes a limited liability partnership, firm, registered society or co- operative society, trust or other association of individuals; and
- b. “director” in relation to a limited liability partnership or firm, means a partner in the firm.

- d) Abetment of certain offenses: Whoever abets an offence punishable under this Act, whether or not that offence is committed in consequence of that abetment, shall be punished with the punishment provided for the offence.



### 37) Debarment from Bidding

- a) A bidder shall be debarred by the State Government if he has been convicted of an offence
  - a. under the Prevention of Corruption Act, 1988 (Central Act No. 49 of 1988); or
  - b. under the Indian Penal Code, 1860 (Central Act No. 45 of 1860) or any other law for the time being in force, for causing any loss of life or property or causing a threat to public health as part of execution of a public procurement contract.
- b) A bidder debarred under (a) above shall not be eligible to participate in a procurement process of any procuring entity for a period not exceeding three years commencing from the date on which he was debarred.
- c) If a procuring entity finds that a bidder has breached the code of integrity prescribed in terms of "Code of Integrity for bidders" above, it may debar the bidder for a period not exceeding three years.
- d) Where the entire bid security or the entire performance security or any substitute thereof, as the case may be, of a bidder has been forfeited by a procuring entity in respect of any procurement process or procurement contract, the bidder may be debarred from participating in any procurement process undertaken by the procuring entity for a period not exceeding three years.
- e) The State Government or a procuring entity, as the case may be, shall not debar a bidder under this section unless such bidder has been given a reasonable opportunity of being heard.

### 38) Monitoring of Contract

- a) An officer or a committee of officers named Contract Monitoring Committee (CMC) may be nominated by procuring entity to monitor the progress of the contract during its delivery period.
- b) During the delivery period the CMC shall keep a watch on the progress of the contract and shall ensure that quantity of goods and service delivery is in proportion to the total delivery period given, if it is a severable contract, in which the delivery of the goods and service is to be obtained continuously or is batched. If the entire quantity of goods and service is to be delivered in the form of completed work or entire contract like fabrication work, the process of completion of work may be watched and inspections of the selected bidder's premises where the work is being completed may be inspected.

- c) If delay in delivery of goods and service is observed a performance notice would be given to the selected bidder to speed up the delivery.
- d) Any change in the constitution of the firm, etc. shall be notified forth with by the contractor in writing to the procuring entity and such change shall not relieve any former member of the firm, etc., from any liability under the contract.
- e) No new partner/ partners shall be accepted in the firm by the selected bidder in respect of the contract unless he/ they agree to abide by all its terms, conditions and deposits with the procuring entity through a written agreement to this effect. The bidder's receipt for acknowledgement or that of any partners subsequently accepted as above shall bind all of them and will be sufficient discharge for any of the purpose of the contract.
- f) The selected bidder shall not assign or sub-let his contract or any substantial part thereof to any other agency without the permission of procuring entity.

## **6. GENERAL TERMS AND CONDITIONS OF TENDER & CONTRACT**

Bidders should read these conditions carefully and comply strictly while sending their bids.

### **Definitions**

For the purpose of clarity, the following words and expressions shall have the meanings hereby assigned to them: -

- a) "Contract" means the Agreement entered into between the Purchaser and the successful/ selected bidder, together with the Contract Documents referred to therein, including all attachments, appendices, and all documents incorporated by reference therein.
- b) "Contract Documents" means the documents listed in the Agreement, including any amendments thereto.
- c) "Contract Price" means the price payable to the successful/ selected bidder as specified in the Agreement, subject to such additions and adjustments thereto or deductions there from, as may be made pursuant to the Contract.
- d) "Day" means a calendar day.
- e) "Delivery" means the transfer of the Goods from the successful/ selected bidder to the Purchaser in accordance with the terms and conditions set forth in the Contract.
- f) "Completion" means the fulfilment of the related services by the successful/ selected bidder in accordance with the terms and conditions set forth in the Contract.
- g) "Goods" means all of the commodities, raw material, machinery and equipment, and/or other materials that the successful/ selected bidder is required to supply to the Purchaser under the Contract.
- h) "Purchaser" means the entity purchasing the Goods and related services, as specified in the bidding document.
- i) "Related Services" means the services incidental to the supply of the goods, such as insurance, installation, training and initial maintenance and other similar obligations of the successful/ selected bidder under the Contract.
- j) "Subcontractor" means any natural person, private or government entity, or a combination of the above, including its legal successors or permitted assigns, to whom any part of the Goods to be supplied or execution of any part of the related services is subcontracted by the successful/ selected bidder.
- k) "Supplier/ Successful or Selected bidder" means the person, private or government entity, or a combination of the above, whose Bid to perform the Contract has been accepted by the Purchaser and is named as such in the Agreement, and includes the legal successors or permitted assigns of the successful/ selected bidder.

- l) "The Site," where applicable, means the designated project place(s) named in the bidding document.

**Note:** The bidder shall be deemed to have carefully examined the conditions, specifications, size, make and drawings, etc., of the goods to be supplied and related services to be rendered. If the bidder has any doubts as to the meaning of any portion of these conditions or of the specification, drawing, etc., he shall, before submitting the Bid and signing the contract refer the same to the procuring entity and get clarifications.

1) **Contract Documents**

Subject to the order of precedence set forth in the Agreement, all documents forming the Contract (and all parts thereof) are intended to be correlative, complementary, and mutually explanatory.

2) **Interpretation**

- a) If the context so requires it, singular means plural and vice versa.
- b) Entire Agreement: The Contract constitutes the entire agreement between the Purchaser and the Supplier/ Selected Bidder and supersedes all communications, negotiations and agreements (whether written or oral) of parties with respect thereto made prior to the date of Contract.
- c) Amendment: No amendment or other variation of the Contract shall be valid unless it is in writing, is dated, expressly refers to the Contract, and is signed by a duly authorized representative of each party thereto.
- d) Non-waiver: Subject to the condition (f) below, no relaxation, forbearance, delay, or indulgence by either party in enforcing any of the terms and conditions of the Contract or the granting of time by either party to the other shall prejudice, affect, or restrict the rights of that party under the Contract, neither shall any waiver by either party of any breach of Contract operate as waiver of any subsequent or continuing breach of Contract.
- e) Any waiver of a party's rights, powers, or remedies under the Contract must be in writing, dated, and signed by an authorized representative of the party granting such waiver, and must specify the right and the extent to which it is being waived.
- f) Severability: If any provision or condition of the Contract is prohibited or rendered invalid or unenforceable, such prohibition, invalidity or unenforceability shall not affect the validity or enforceability of any other provisions and conditions of the Contract.

3) **Language**

- a) The Contract as well as all correspondence and documents relating to the Contract exchanged by the successful/ selected bidder and the Purchaser, shall be written in English language only. Supporting documents and printed literature that are part of the Contract may be in another language provided they are accompanied by an accurate translation of the relevant passages in the language specified in the special conditions of the contract, in which case, for purposes of interpretation of the Contract, this translation shall govern.
- b) The successful/ selected bidder shall bear all costs of translation to the governing language and all risks of the accuracy of such translation.

4) **Joint Venture, Consortium or Association**

- a) Unless otherwise specified in the special conditions of the contract, if the Supplier/ Bidder is a joint venture, consortium, or association, all of the parties shall be jointly and severally liable to the Purchaser for the fulfilment of the provisions of the contract and shall designate one party to act as a leader with authority to bind the joint venture, consortium, or association.
- b) The composition or the constitution of the joint venture, consortium, or association shall not be altered without the prior consent of the purchaser.
- c) Any change in the constitution of the firm, etc., shall be notified forthwith by the contractor in writing to the purchase officer and such change shall not relieve any former member of the firm, etc., from any liability under the contract.
- d) No new partner/ partners shall be accept in the firm by the contractor in respect of the contract unless he/ they agree to avoid by all its terms, conditions and deposit with the purchase officer a written agreement to this effect. The contractors receipt for acknowledgement or that of any partners subsequently accepted as above shall bind all of them and will be sufficient discharge for any of the purpose of the contract.
- e) The bidder shall not assign or sub-let his contract or any substantial part thereof to any other agency.
- f) No new consortium agreement shall be allowed during the project period.
- g) In Consortium, all the members shall be equally responsible to complete the project as per their roles & responsibilities; however Lead partner shall give an undertaking for the successful completion of the overall project. In case of any issues, Lead partner is the responsible person for all the penalties.

- h) The lead bidder is required to do majority (>50%) of the work. However, the lead bidder and consortium partner is jointly and severally liable for the entire scope of work and risks involved thereof.
- i) The non-lead bidder (consortium partner) is liable for the scope of work for which they are responsible along with the lead bidder.
- j) Any change in the consortium at a later date will not be allowed without prior permission from the procuring entity/ purchaser.

5) **Eligible Goods and Related Services**

- a) For purposes of this Clause, the term “goods” includes commodities, raw material, machinery, equipment, and industrial plants; and “related services” includes services such as insurance, transportation, supply, installation, integration, testing, commissioning, training, and initial maintenance.
- b) All articles/ goods being bid, other than those marked in the Bill of Material (BoM) should be the ones which are produced in volume and are used by a large number of users in India/ abroad. All products quoted by the successful/ selected bidder must be associated with specific make and model number, item code and names and with printed literature describing configuration and functionality. Any deviation from the printed specifications should be clearly mentioned in the offer document by the bidder/ supplier. Also, the bidder is to quote/ propose only one make/ model against the respective item.
- c) The OEM/ Vendor of the quoted product must have its own registered spares depot in India having adequate inventory of the equipment being quoted for providing the necessary spares as per the requirements of this bidding document.
- d) The OEM/ Vendor of the quoted product should also have its direct representation in India in terms of registered office for at least past 3 years. The presence through any Distribution/ System Integration partner agreement will not be accepted.
- e) Bidder must quote products in accordance with above clause “Eligible goods and related services”.

6) **Service of Notice, Documents & Orders**

- a) A notice, document or order shall be deemed to be served on any individual by -
  - a. delivering it to the person personally; or
  - b. leaving it at, or sending it by post to, the address of the place of residence or business of the person last known;

- c. On a body corporate by leaving it at, or sending it by post to, the registered office of the body corporate.
- b) When the procedure laid down in (a) above is followed, service shall be deemed to be effected by properly addressing, preparing and posting the document, notice or order, as the case may be.

7) **Scope of Supply**

- a) Subject to the provisions in the bidding document and contract, the goods and related services to be supplied shall be as specified in the bidding document.
- b) Unless otherwise stipulated in the Contract, the scope of supply shall include all such items not specifically mentioned in the Contract but that can be reasonably inferred from the Contract as being required for attaining delivery and completion of the goods and related services as if such items were expressly mentioned in the Contract.
- c) The bidder shall not quote and supply hardware/ software that is likely to be declared as End of Sale and End of Service/ Support for the period as mentioned in BoM (Annexure -1) from the last date of bid submission. OEMs are required to mention this in the MAF for all the quoted hardware/ software. If any of the hardware/ software is found to be declared as End of Sale/ Service/ Support, then the bidder shall replace all such hardware/ software with the latest ones having equivalent or higher specifications without any financial obligation to the purchaser.

8) **Delivery & Installation**

- a) Subject to the conditions of the contract, the delivery of the goods and completion of the related services shall be in accordance with the delivery and completion schedule specified in the bidding document. The details of supply/ shipping and other documents to be furnished by the successful/ selected bidder are specified in the bidding document and/ or contract.
- b) The contract for the supply can be repudiated at any time by the purchase officer, if the supplies are not made to his satisfaction after giving an opportunity to the bidder of being heard and recording the reasons for repudiation.
- c) The Supplier/ Selected Bidder shall arrange to supply, install and commission the ordered materials/ system as per specifications within the specified delivery/ completion period at various departments and/ or their offices/ locations mentioned in the PO/ WO.

- d) Shifting the place of Installation: The user will be free to shift the place of installation within the same city /town/ district/ division. The successful/ selected bidder shall provide all assistance, except transportation, in shifting of the equipment. However, if the city/town is changed, additional charges of assistance in shifting and providing maintenance services for remaining period would be decided mutually.

9) **Supplier's/ Selected Bidder's Responsibilities**

The Supplier/ Selected Bidder shall supply all the goods and related services included in the scope of supply in accordance with the provisions of bidding document and/ or contract.

10) **Purchaser's Responsibilities**

- a) Whenever the supply of goods and related services requires that the Supplier/ Selected Bidder obtain permits, approvals, and import and other licenses from local public authorities, the Purchaser shall, if so required by the Supplier/ Selected Bidder, make its best effort to assist the Supplier/ Selected Bidder in complying with such requirements in a timely and expeditious manner.
- b) The Purchaser shall pay all costs involved in the performance of its responsibilities, in accordance with the general and special conditions of the contract.

11) **Contract Price**

- a) The Contract Price shall be paid as specified in the contract subject to any additions and adjustments thereto, or deductions there from, as may be made pursuant to the Contract.
- b) Prices charged by the Supplier/ Selected Bidder for the Goods delivered and the Related Services performed under the Contract shall not vary from the prices quoted by the Supplier/ Selected Bidder in its bid, with the exception of any price adjustments authorized in the special conditions of the contract.

12) **Recoveries from Supplier/ Selected Bidder**

- a) Recoveries of liquidated damages, short supply, breakage, rejected articles shall ordinary be made from bills.
- b) Amount may also be withheld to the extent of short supply, breakages, and rejected articles and in case of failure in satisfactory replacement by the supplier along with



amount of liquidated damages shall be recovered from his dues and security deposit available with the department.

- c) In case, recovery is not possible recourse will be taken under Rajasthan PDR Act or any other law in force.

**13) Taxes & Duties**

- a) The TDS, Raj-VAT, Service Tax etc., if applicable, shall be deducted at source/ paid by DoIT&C as per prevailing rates.
- b) For goods supplied from outside India, the successful/ selected bidder shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside the country.
- c) For goods supplied from within India, the successful/ selected bidder shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods to the Purchaser.
- d) If any tax exemptions, reductions, allowances or privileges may be available to the successful/ selected bidder in India, the Purchaser shall use its best efforts to enable the successful/ selected bidder to benefit from any such tax savings to the maximum allowable extent. However, it is clarified that for the purpose concessional Sales Tax, no "C-Form/ D-Form", or any other form by whatever name it may be called, shall be released by Purchaser to the selected bidder under any circumstances for any of activities under the SoW of this bidding document.

**14) Copyright**

The copyright in all drawings, design documents, source code and other materials containing data and information furnished to the Purchaser by the Supplier/ Selected Bidder herein shall remain vested in the Purchaser, or, if they are furnished to the Purchaser directly or through the Supplier/ Selected Bidder by any third party, including suppliers of materials, the copyright in such materials shall remain vested in such third party.

**15) Confidential Information**

- a) The Purchaser and the Supplier/ Selected Bidder shall keep confidential and shall not, without the written consent of the other party hereto, divulge to any third party any drawings, documents, data, or other information furnished directly or indirectly by the

other party hereto in connection with the Contract, whether such information has been furnished prior to, during or following completion or termination of the Contract.

- b) The Supplier/ Selected Bidder may furnish to its Subcontractor, if permitted, such documents, data, and other information it receives from the Purchaser to the extent required for the Subcontractor to perform its work under the Contract, in which event the Supplier/ Selected Bidder shall obtain from such Subcontractor an undertaking of confidentiality similar to that imposed on the Supplier/ Selected Bidder.
- c) The Purchaser shall not use such documents, data, and other information received from the Supplier/ Selected Bidder for any purposes unrelated to the Contract. Similarly, the Supplier/ Selected Bidder shall not use such documents, data, and other information received from the Purchaser for any purpose other than the design, procurement, or other work and services required for the performance of the Contract.
- d) The obligation of a party under sub-clauses above, however, shall not apply to information that: -
  - i. the Purchaser or Supplier/ Selected Bidder need to share with other institutions participating in the Contract;
  - ii. now or hereafter enters the public domain through no fault of that party;
  - iii. can be proven to have been possessed by that party at the time of disclosure and which was not previously obtained, directly or indirectly, from the other party; or
  - iv. Otherwise lawfully becomes available to that party from a third party that has no obligation of confidentiality.
- e) The above provisions shall not in any way modify any undertaking of confidentiality given by either of the parties hereto prior to the date of the Contract in respect of the supply or any part thereof.
- f) The provisions of this clause shall survive completion or termination, for whatever reason, of the Contract.

#### 16) **Specifications and Standards**

- a) All articles supplied shall strictly conform to the specifications, trademark laid down in the bidding document and wherever articles have been required according to ISI/ ISO/ other applicable specifications/ certifications/ standards, those articles should conform strictly to those specifications/ certifications/ standards. The supply shall be of best quality and description. The decision of the competent authority/ purchase committee whether the articles supplied conform to the specifications shall be final and binding on the supplier/ selected bidder.

b) Technical Specifications and Drawings

- i. The Supplier/ Selected Bidder shall ensure that the goods and related services comply with the technical specifications and other provisions of the Contract.
- ii. The Supplier/ Selected Bidder shall be entitled to disclaim responsibility for any design, data, drawing, specification or other document, or any modification thereof provided or designed by or on behalf of the Purchaser, by giving a notice of such disclaimer to the Purchaser.
- iii. The goods and related services supplied under this Contract shall conform to the standards mentioned in bidding document and, when no applicable standard is mentioned, the standard shall be equivalent or superior to the official standards whose application is appropriate to the country of origin of the Goods.

- c) Wherever references are made in the Contract to codes and standards in accordance with which it shall be executed, the edition or the revised version of such codes and standards shall be those specified in the bidding document. During Contract execution, any changes in any such codes and standards shall be applied only after approval by the Purchaser and shall be treated in accordance with the general conditions of the contract.

17) **Packing and Documents**

- a) The Supplier/ Selected Bidder shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. During transit, the packing shall be sufficient to withstand, without limitation, rough handling and exposure to extreme temperatures, salt and precipitation, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the final destination of the Goods and the absence of heavy handling facilities at all points in transit.
- b) The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified in the contract, and in any other instructions ordered by the Purchaser.

18) **Insurance**

- a) The goods will be delivered at the destination godown in perfect condition. The Goods supplied under the Contract shall be fully insured against loss by theft, destruction or damage incidental to manufacture or acquisition, transportation, storage, fire, flood,

under exposure to weather and delivery at the designated project locations, in accordance with the applicable terms. The insurance charges will be borne by the supplier and Purchaser will not be required to pay such charges if incurred.

b) The goods will be delivered at the FOR destination in perfect condition.

#### 19) **Transportation**

The supplier/ selected bidder shall be responsible for transport by sea, rail and road or air and delivery of the material in the good condition to the consignee at destination. In the event of any loss, damage, breakage or leakage or any shortage the bidder shall be liable to make good such loss and shortage found at the checking/ inspection of the material by the consignee. No extra cost on such account shall be admissible.

#### 20) **Inspection**

a) The Purchase Officer or his duly authorized representative shall at all reasonable time have access to the supplier's/ selected bidder's premises and shall have the power at all reasonable time to inspect and examine the materials and workmanship of the goods/ equipment/ machineries during manufacturing process or afterwards as may be decided. Inspection shall be made at supplier's/ selected bidder's godown at Jaipur (at supplier's/ selected bidder's cost). However payment of Travelling and Boarding charges by DoIT&C.

b) The supplier/ selected bidder shall furnish complete address of the premises of his factory, office, go-down and workshop where inspection can be made together with name and address of the person who is to be contacted for the purpose.

c) After successful inspection, it will be supplier's/ selected bidder's responsibility to dispatch and install the equipment at respective locations without any financial liability to the Purchaser. However, supplies when received at respective locations shall be subject to inspection to ensure whether they conform to the specification at following stages :-

- i. at OEM Factory Premises
- ii. at respective Atal Seva Kendras (ASKs) at Gram Panchayat Level
- iii. Data Center (DC) at DoIT&C Premises, Jaipur

#### 21) **Samples**

a) When notified by the Purchaser to the supplier/ bidder/ selected bidder, Bids for articles/ goods marked in the BoM shall be accompanied by four sets of samples of

the articles quoted properly packed. Such samples if submitted personally will be received in the office. A receipt will be given for each sample by the officer receiving the samples. Samples if sent by train, etc., should be despatched freight paid and the R/R or G.R. should be sent under a separate registered cover. Samples for catering/ food items should be given in a plastic box or in polythene bags at the cost of the bidder.

- b) Each sample shall be marked suitably either by written on the sample or on a slip of durable paper securely fastened to the sample, the name of the bidder and serial number of the item, of which it is a sample in the schedule.
- c) Approved samples would be retained free of cost upto the period of six months after the expiry of the contract. DoIT&C shall not be responsible for any damage, wear and tear or loss during testing, examination, etc., during the period these samples are retained.

The Samples shall be collected by the supplier/ bidder/ selected bidder on the expiry of stipulated period. DoIT&C shall in no way make arrangements to return the samples. The samples uncollected within 9 months after expiry of contract shall be forfeited by DoIT&C and no claim for their cost, etc., shall be entertained.

- d) Samples not approved shall be collected by the unsuccessful bidder. DoIT&C will not be responsible for any damage, wear and tear, or loss during testing, examination, etc., during the period these samples are retained. The uncollected samples shall be forfeited and no claim for their cost, etc., shall be entertained.
- e) Supplies when received may be subject to inspection to ensure whether they conform to the specifications or with the approved samples. Where necessary or prescribed or practical, tests shall be carried out in Government laboratories, reputed testing house like STQC (ETDC) and the like and the supplies will be accepted only when the articles conform to the standard of prescribed specifications as a result of such tests.
- f) The supplier/ selected bidder shall at its own expense and at no cost to the Purchaser carry out all such tests and/ or inspections of the Goods and Related Services as are specified in the bidding document.

## 22) Drawl of Samples

In case of tests, wherever feasible, samples shall be drawn in four sets in the presence of selected bidder or his authorised representative and properly sealed in their presence. Once such set shall be given to them, one or two will be sent to the laboratories and/ or testing house and the third or fourth will be retained in the office for reference and record.

23) **Testing charges**

Testing charges shall be borne by the Government. In case of test results showing that supplies are not upto the prescribed standards or specifications, the testing charges shall be payable by the selected bidder.

24) **Rejection**

- a) Articles not approved during inspection or testing shall be rejected and will have to be replaced by the selected bidder at his own cost within the time fixed by the Purchase Officer.
- b) If, however, due to exigencies of DoIT&C's work, such replacement either in whole or in part, is not considered feasible, the Purchase Officer after giving an opportunity to the selected bidder of being heard shall for reasons to be recorded, deduct a suitable amount from the approved rates. The deduction so made shall be final.
- c) The rejected articles shall be removed by the supplier/ bidder/ selected bidder within 15 days of intimation of rejection, after which Purchase Officer shall not be responsible for any loss, shortage or damage and shall have the right to dispose of such articles as he thinks fit, at the selected bidder's risk and on his account.

25) **Delivery period & Extent of Quantity – Repeat Orders**

- a) The time specified for delivery shall be deemed to be the essence of the contract and the successful bidder shall arrange supplies within the period on receipt of the firm order from the Purchase Officer.
- b) The selected bidder shall arrange supplies within the stipulated time period.
- c) If the orders are placed in excess of the quantities, the bidder shall be bound to meet the required supply. Repeat orders may also be placed on the rate and conditions given in the bidding document. If the bidder fails to do so, the Purchase Officer shall be free to arrange for the balance supply by limited tender or otherwise and the extra cost incurred shall be recoverable from the bidder.

26) **Freight**

- a) All goods must be sent freight paid through Railways or goods transport. If goods are sent freight to pay the freight together with departmental charge 5% of the freight will be recovered from the supplier's bill.
- b) R.R. should be sent under registered cover through Bank only.

- c) In case supply is desired to be sent by the purchase officer by passenger train, the entire railway freight will be borne by the bidder.
- d) Remittance charges on payment made shall be borne by the bidder.

**27) Payments**

- a) Advance Payment will not be made except in rare and special cases. In case of advance payment being made, it will be against proof of despatch and to the extent as prescribed in financial powers by rail/ reputed goods transport companies, etc., and prior inspection, if any. The balance, if any, will be paid on receipt of the consignment in good condition with the certificate to that effect endorsed on the inspection not given to the bidder.
- b) Unless otherwise agreed between the parties, payment for the delivery of the stores will be made on submission of bill in proper form by the bidder to the Purchase Officer in accordance with G.F.& A.R all remittance charges will be borne by the bidder.
- c) In case of disputed items, 10% to 25% of the amount shall be withheld and will be paid on settlement of the dispute.
- d) Payment in case of those goods which need testing shall be made only when such tests have been carried out, test results received conforming to the prescribed specification.

**28) Liquidated Damages (LD)**

- a) In case of extension in the delivery period with liquidated damages the recovery shall be made on the basis of following percentages of value of Stores with the bidder has failed to supply/ install/ complete:-
  - delay up to one fourth period of the prescribed delivery period: 2.5%
  - delay exceeding one fourth but not exceeding half of the prescribed period: 5.0%
  - delay exceeding half but not exceeding three fourth of the prescribed period: 7.5%
  - delay exceeding three fourth of the prescribed period: 10%
- b) Fraction of a day in reckoning period of delay in supplies shall be eliminated if it is less than half a day.
- c) The maximum amount of liquidated damages shall be 10% of the contract value.
- d) If the supplier requires an extension of time in completion of contractual supply on account of occurrence of any hindrance, he shall apply in writing to the authority, which

- has placed the supply order, for the same immediately on occurrence of the hindrance but not after the stipulated date of completion of supply.
- e) Delivery period may be extended with or without liquidated damages if the delay in the supply of goods is on account of hindrances beyond the control of the bidder.
- 29) Bidders must make their own arrangements to obtain import licence, if necessary. If a bidder imposes conditions which are in addition to or in conflict with the conditions mentioned herein, his bid is liable to summary rejection. In any case none of such conditions will be deemed to have been accepted unless specifically mentioned in the letter of acceptance of bid issued by the Purchase Officer.
- 30) **Settlement of Disputes:** If any dispute arise out of the contract with regard to the interpretation, meaning and breach of the terms of the contract, the matter shall be referred to by the Parties to the Head of the Department who will appoint his senior most deputy as the Sole Arbitrator of the dispute who will not be related to this contract and whose decision shall be final.
- 31) All legal proceedings, if necessary arise to institute may by any of the parties (Government of Contractor) shall have to be lodged in courts situated in Rajasthan and not elsewhere.
- 32) **Authenticity of Equipment**
- a) The selected bidder shall certify (as per Annexure-9) that the supplied goods are brand new, genuine/ authentic, not refurbished, conform to the description and quality as specified in this bidding document and are free from defects in material, workmanship and service.
- b) If during the contract period, the said goods be discovered counterfeit/ unauthentic or not to conform to the description and quality aforesaid or have determined (and the decision of the Purchase Officer in that behalf will be final and conclusive), notwithstanding the fact that the purchaser may have inspected and/ or approved the said goods, the purchaser will be entitled to reject the said goods or such portion thereof as may be discovered not to conform to the said description and quality, on such rejection the goods will be at the selected bidder's risk and all the provisions relating to rejection of goods etc., shall apply. The selected bidder shall, if so called upon to do, replace the goods etc., or such portion thereof as is rejected by Purchase Officer, otherwise the selected bidder shall pay such damage as may arise by the



reason of the breach of the condition herein contained. Nothing herein contained shall prejudice any other right of the Purchase Officer in that behalf under this contract or otherwise.

- c) Goods accepted by the purchaser in terms of the contract shall in no way dilute purchaser's right to reject the same later, if found deficient in terms of the this clause of the contract.

**33) Warranty**

- a) The bidder must supply all items with comprehensive on-site valid warranty for the period as mentioned in BoM (Annexure –1), from go-live. However, if delay in commission is more than a month's time due to reasons ascribed to the purchaser, the warranty period shall be reduced accordingly.
- b) At the time of goods delivery, the selected bidder shall submit a certificate/ undertaking from all the respective OEMs mentioning the fact that the goods supplied are covered under comprehensive warranty & support for the prescribed period.
- c) The purchaser shall give a written notice to the selected bidder stating the nature of any defect together with all available evidence thereof, promptly following the discovery thereof. The purchaser shall afford all reasonable opportunity for the selected bidder to inspect such defects. Upon receipt of such notice, the selected bidder shall expeditiously cause to repair the defective goods or parts thereof or replace the defective goods or parts thereof with brand new genuine/ authentic ones having similar or higher specifications from the respective OEM, at no cost to the Purchaser. Any goods repaired or replaced by the selected bidder shall be delivered at the respective location without any additional costs to the purchaser.
- d) If having been notified, the selected bidder fails to remedy the defect within the period specified, the purchaser may proceed to take within a reasonable period such remedial action as may be necessary, in addition to other recourses available in terms and conditions of the contract and bidding document.
- e) During the warranty period, the bidder shall also be responsible to ensure adequate and timely availability of spare parts needed for repairing the supplied goods.
- f) The warranty on supplied software media, if any, should be at least 90 days.

**34) Patent Indemnity**

- a) The supplier/ selected bidder shall, subject to the Purchaser's compliance with sub-clause (b) below, indemnify and hold harmless the Purchaser and its employees and

officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Purchaser may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract by reason of: -

- i. the installation of the Goods by the supplier/ selected bidder or the use of the Goods in the country where the Site is located; and
- ii. The sale in any country of the products produced by the Goods.

Such indemnity shall not cover any use of the Goods or any part thereof other than for the purpose indicated by or to be reasonably inferred from the Contract, neither any infringement resulting from the use of the Goods or any part thereof, or any products produced thereby in association or combination with any other equipment, plant, or materials not supplied by the supplier/ selected bidder, pursuant to the Contract.

- b) If any proceedings are brought or any claim is made against the Purchaser arising out of the matters referred to above, the Purchaser shall promptly give the supplier/ selected bidder a notice thereof, and the supplier/ selected bidder may at its own expense and in the Purchaser's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim.
- c) If the supplier/ selected bidder fails to notify the Purchaser within thirty (30) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Purchaser shall be free to conduct the same on its own behalf.
- d) The Purchaser shall, at the supplier's/ selected bidder's request, afford all available assistance to the supplier/ selected bidder in conducting such proceedings or claim, and shall be reimbursed by the supplier/ selected bidder for all reasonable expenses incurred in so doing.
- e) The Purchaser shall indemnify and hold harmless the supplier/ selected bidder and its employees, officers, and Subcontractors (if any) from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the supplier/ selected bidder may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract arising out of or in connection with any design, data, drawing, specification, or other documents or materials provided or designed by or on behalf of the Purchaser.

35) **Limitation of Liability**

Except in cases of gross negligence or wilful misconduct: -

- a) neither party shall be liable to the other party for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the supplier/ selected bidder to pay liquidated damages to the Purchaser; and
- b) the aggregate liability of the supplier/ selected bidder to the Purchaser, whether under the Contract, in tort, or otherwise, shall not exceed the amount specified in the Contract, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the supplier/ selected bidder to indemnify the Purchaser with respect to patent infringement.

36) **Force Majeure**

- a) The supplier/ selected bidder shall not be liable for forfeiture of its PSD, LD, or termination for default if and to the extent that it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
- b) For purposes of this Clause, "Force Majeure" means an event or situation beyond the control of the supplier/ selected bidder that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the supplier/ selected bidder. Such events may include, but not be limited to, acts of the Purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.
- c) If a Force Majeure situation arises, the supplier/ selected bidder shall promptly notify the DoIT&C in writing of such conditions and cause thereof within 15 days of occurrence of such event. Unless otherwise directed by DoIT&C, the supplier/ selected bidder shall continue to perform its obligations under the contract as far as reasonably practical.
- d) If the performance in whole or part or any obligation under the contract is prevented or delayed by any reason of Force Majeure for a period exceeding 60 days, either party at its option may terminate the contract without any financial repercussion on either side.
- e) In case a Force Majeure situation occurs with the DoIT&C, the DoIT&C may take the case with the supplier/ selected bidder on similar lines.

**37) Change Orders and Contract Amendments**

- a) If any such change causes an increase or decrease in the cost of, or the time required for, the supplier's/ selected bidder's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or in the Delivery and Completion Schedule, or both, and the Contract shall accordingly should be amended. Any claims by the supplier/ selected bidder for adjustment under this clause must be asserted within thirty (30) days from the date of the supplier's/ selected bidder's receipt of the Purchaser's change order.
- b) Prices to be charged by the supplier/ selected bidder for any related services that might be needed but which were not included in the Contract shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the supplier/ selected bidder for similar services.

**38) Termination**

**a) Termination for Default**

- i. The procuring entity may, without prejudice to any other remedy for breach of contract, by written a written notice of default of at least 30 days sent to the supplier/ selected bidder, terminate the contract in whole or in part: -
  - a. If the supplier/ selected bidder fails to deliver any or all quantities of the service within the time period specified in the contract, or any extension thereof granted by DoIT&C; or
  - b. If the supplier/ selected bidder fails to perform any other obligation under the contract within the specified period of delivery of service or any extension granted thereof; or
  - c. If the supplier/ selected bidder, in the judgement of the Purchaser, is found to be engaged in corrupt, fraudulent, collusive, or coercive practices in competing for or in executing the contract.
  - d. If the supplier/ selected bidder commits breach of any condition of the contract.
- ii. If DoIT&C terminates the contract in whole or in part, amount of PSD may be forfeited.
- iii. Before cancelling a contract and taking further action, advice of senior most finance person available in the office and of legal adviser or legal assistant posted in the office, if there is one, may be obtained.

**b) Termination for Insolvency**

DoIT&C may at any time terminate the Contract by giving a written notice of at least 30 days to the supplier/ selected bidder, if the supplier/ selected bidder becomes bankrupt or otherwise insolvent. In such event, termination will be without compensation to the supplier/ selected bidder, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to DoIT&C.

**c) Termination for Convenience**

- i. DoIT&C, by a written notice of at least 30 days sent to the supplier/ selected bidder may terminate the Contract, in whole or in part, at any time for its convenience. The Notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of the supplier/ selected bidder under the Contract is terminated, and the date upon which such termination becomes effective.
- ii. Depending on merits of the case the supplier/ selected bidder may be appropriately compensated on mutually agreed terms for the loss incurred by the contract if any due to such termination.
- iii. The Goods that are complete and ready for shipment within twenty-eight (28) days after the supplier's/ selected bidder's receipt of the Notice of termination shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may elect:
  - a. To have any portion completed and delivered at the Contract terms and prices; and/or
  - b. To cancel the remainder and pay to the supplier/ selected bidder an agreed amount for partially completed Goods and Related Services and for materials and parts previously procured by the supplier/ selected bidder.

**39) Exit Management**

a) Preamble

- i. The word 'parties' include the procuring entity and the selected bidder.
- ii. This Schedule sets out the provisions, which will apply on expiry or termination of the Project Implementation and Operations and Management of SLA.

- iii. In the case of termination of the Project Implementation and/ or Operation and Management SLA due to illegality, the Parties shall agree at that time whether, and if so during what period, the provisions of this Schedule shall apply.
  - iv. The Parties shall ensure that their respective associated entities carry out their respective obligations set out in this Exit Management Schedule.
- b) Transfer of Assets
- i. The selected bidder may continue work on the assets for the duration of the exit management period which may be a 30 days period from the date of expiry or termination of the agreement, if required by DoIT&C to do so. During this period, the selected bidder will transfer all the assets in good working condition and as per the specifications of the bidding document including the ones being upgraded to the department/ designated agency. The security deposit/ performance security submitted by selected bidder will only be returned after the successful transfer of the entire project including its infrastructure.
  - ii. The selected bidder, if not already done, will transfer all the Software Licenses under the name of the DoIT&C as desired by the procuring entity during the exit management period.
  - iii. DoIT&C during the project implementation phase and the operation and management phase shall be entitled to serve notice in writing to the selected bidder at any time during the exit management period requiring the selected bidder to provide DoIT&C or its nominated agencies with a complete and up-to-date list of the assets within 30 days of such notice.
  - iv. Upon service of a notice, as mentioned above, the following provisions shall apply:
    - a. In the event, if the assets which to be transferred to DoIT&C mortgaged to any financial institutions by the selected bidder, the selected bidder shall ensure that all such liens and liabilities have been cleared beyond any doubt, prior to such transfer. All documents regarding the discharge of such lien and liabilities shall be furnished to DoIT&C or its nominated agencies.
    - b. All title of the assets to be transferred to DoIT&C or its nominated agencies pursuant to clause(s) above shall be transferred on the last day of the exit management period. All expenses occurred during transfer of assets shall be borne by the selected bidder.
    - c. That on the expiry of this clause, the selected bidder and any individual assigned for the performance of the services under this clause shall handover or cause to be handed over all confidential information and all other related

material in its possession, including the entire established infrastructure supplied by selected bidder to DoIT&C.

- d. That the products and technology delivered to DoIT&C during the contract term or on expiry of the contract duration should not be sold or re-used or copied or transferred by selected bidder to other locations apart from the locations mentioned in the this bidding document without prior written notice and approval of DoIT&C. Supplied hardware, software & documents etc., used by selected bidder for DoIT&C shall be the legal properties of DoIT&C.
- c) Cooperation and Provision of Information during the exit management period
- i. The selected bidder will allow DoIT&C or its nominated agencies access to the information reasonably required to define the current mode of operation associated with the provision of the services to enable DoIT&C or its nominated agencies to assess the existing services being delivered.
  - ii. The selected bidder shall provide access to copies of all information held or controlled by them which they have prepared or maintained in accordance with the Project Implementation, the Operation and Management SLA and SOWs relating to any material aspect of the services provided by the selected bidder. DoIT&C or its nominated agencies shall be entitled to copy all such information comprising of details pertaining to the services rendered and other performance data. The selected bidder shall permit DoIT&C or its nominated agencies and/ or any replacement operator to have reasonable access to its employees and facilities as reasonably required by DoIT&C or its nominated agencies to understand the methods of delivery of the services employed by the selected bidder and to assist appropriate knowledge transfer.
- d) Confidential Information, Security and Data
- The selected bidder will promptly on the commencement of the exit management period supply to DoIT&C or its nominated agencies the following:
- i. Documentation relating to Intellectual Property Rights;
  - ii. Project related data and confidential information;
  - iii. All current and updated data as is reasonably required for purposes of DoIT&C or its nominated agencies transitioning the services to its replacement selected bidder in a readily available format nominated by DoIT&C or its nominated agencies; and
  - iv. All other information (including but not limited to documents, records and agreements) relating to the services reasonably necessary to enable DoIT&C or

- its nominated agencies, or its replacement operator to carry out due diligence in order to transition the provision of the services to DoIT&C or its nominated agencies, or its replacement operator (as the case may be).
- v. Before the expiry of the exit management period, the selected bidder shall deliver to DoIT&C or its nominated agencies all new or up-dated materials from the categories set out above and shall not retain any copies thereof, except that the selected bidder shall be permitted to retain one copy of such materials for archival purposes only.
- e) Transfer of certain agreements
- i. On request by Procuring entity or its nominated agencies, the selected bidder shall effect such assignments, transfers, innovations, licenses and sub-licenses as Procuring entity or its nominated agencies may require in favour of procuring entity or its nominated agencies, or its replacement operator in relation to any equipment lease, maintenance or service provision agreement between selected bidder and third party leasers, operators, or operator, and which are related to the services and reasonably necessary for carrying out of the replacement services by DoIT&C or its nominated agencies, or its replacement operator.
- ii. Right of Access to Premises: At any time during the exit management period and for such period of time following termination or expiry of the SLA, where assets are located at the selected bidder's premises, the selected bidder will be obliged to give reasonable rights of access to (or, in the case of assets located on a third party's premises, procure reasonable rights of access to DoIT&C or its nominated agencies, and/ or any replacement operator in order to inventory the assets.
- f) General Obligations of the selected bidder
- i. The selected bidder shall provide all such information as may reasonably be necessary to effect as seamless during handover as practicable in the circumstances to DoIT&C or its nominated agencies or its replacement operator and which the operator has in its possession or control at any time during the exit management period.
- ii. The selected bidder shall commit adequate resources to comply with its obligations under this Exit Management Clause.
- g) Exit Management Plan
- i. The selected bidder shall provide DoIT&C or its nominated agencies with a recommended exit management plan ("Exit Management Plan") which shall deal with at least the following aspects of exit management in relation to the SLA as a



- whole and in relation to the Project Implementation, the Operation and Management SLA and SOWs.
- ii. A detailed program of the transfer process that could be used in conjunction with a replacement operator including details of the means to be used to ensure continuing provision of the services throughout the transfer process or until the cessation of the services and of the management structure to be used during the transfer; and
  - iii. Plans for the communication with such of the selected bidder's, staff, suppliers, customers and any related third party as are necessary to avoid any material detrimental impact on DoIT&C operations as a result of undertaking the transfer; and
  - iv. If applicable, proposed arrangements and Plans for provision of contingent support in terms of business continuance and hand holding during the transition period, to DoIT&C or its nominated agencies, and Replacement Operator for a reasonable period, so that the services provided continue and do not come to a halt.
  - v. The Bidder shall re-draft the Exit Management Plan annually after signing of contract to ensure that it is kept relevant and up to date.
  - vi. Each Exit Management Plan shall be presented by the selected bidder to and approved by DoIT&C or its nominated agencies.
  - vii. In the event of termination or expiry of SLA, Project Implementation, Operation and Management SLA or SOWs each party shall comply with the Exit Management Plan.
  - viii. During the exit management period, the selected bidder shall use its best efforts to deliver the services.
  - ix. Payments during the Exit Management period shall be made in accordance with the Terms of Payment Clause.
  - x. It would be the responsibility of the selected bidder to support new operator during the transition period.

## **7. SPECIAL TERMS AND CONDITIONS OF TENDER & CONTRACT**

### **7.1 Payment Terms and Schedule**

- a) Payment schedule – Payments to the bidder, after successful completion of the target milestones (including specified project deliverables), would be made as per table 4.3: Project deliverables and time schedule.
- b) All license cost and any other charges payable to any other government agency shall be paid by DoIT&C directly to the authority.
- c) The supplier's/ selected bidder's request for payment shall be made to the purchaser in writing, accompanied by invoices describing, as appropriate, the goods delivered and related services performed, and by the required documents submitted pursuant to general conditions of the contract and upon fulfilment of all the obligations stipulated in the Contract.
- d) Due payments shall be made promptly by the purchaser, generally within thirty (30) days after submission of an invoice or request for payment by the supplier/ selected bidder.
- e) The currency or currencies in which payments shall be made to the supplier/ selected bidder under this Contract shall be Indian Rupees (INR) only.
- f) All remittance charges will be borne by the supplier/ selected bidder.
- g) In case of disputed items, the disputed amount shall be withheld and will be paid only after settlement of the dispute.
- h) Any penalties/ liquidated damages, as applicable, for delay and non-performance, as mentioned in this bidding document, will be deducted from the payments for the respective milestones.
- i) Taxes (RVAT, Income Tax, Service Tax, Security Deposit etc.), as applicable, will be deducted at source, from due payments, as per the prevalent rules and regulations.
- j) Please note that warranty will start from the date of completion of UAT.

### **7.2 Service Level Standards/ Requirements/ Agreement:**

#### **a) Service Level Requirements**

- 1) Service Levels play an important role in defining the Quality of Services (QoS). The prime objective of service levels is to ensure required operation of the smart panel , associated cabling and Wiring and SCADA Software solutions . bidder shall provide warranty/on-site maintenance, support services during the period of contract as per SLA for complete solution.

- 2) The service levels shall be tracked on a periodic basis and have penalty clauses on non-adherence to any of them. The bidder shall submit required reports (Operational Uptime, Operational Downtime, Service Resolution, Performance, events etc.) on all the service levels to the Purchaser in accordance with the specified formats and reporting periods and provide clarification, if required. The service levels defined below provide for target level of services required, measurements thereof and associated penalties.
- 3) Though that bidder is expected to maintain the solution to the highest possible efficiency, the first month after commissioning of each component/ site shall be treated for prove-in period and no penalty shall be imposed for any SLA defaults mentioned in order to facilitate stabilization of operations.
- 4) In case penalty reaches maximum for three consecutive quarter, the purchaser may invoke termination clause as per RFP.
- 5) Service Level Requirements:
  - a. The bidder has to seek prior approval from the DoIT&C for the planned downtime. The planned downtime of maximum 24 hours in a month for each Atal Seva Kendra and 12 hours in a quarter for SCADA Software Solution would be permitted and would not be added to the SLA downtime. Downtime should be planned during weekends and non-prime hours (08:00 PM to 08:00 AM).
  - b. For some specific cases, the bidder shall be permitted higher downtime subject to justification submitted by the bidder.
  - c. Any Service(s) unavailability arising from the following shall also not be included in the determination of downtime:
    - i. Any Fault arising from force majeure events including lightning, power failure, fire, flood and emergency.
    - ii. The delay in attending the equipment due to reasons not attributable to the bidder (e.g. power failure, premises locked etc) shall be excluded from the downtime.
    - iii. RajNET failure shall be excluded from penalty.
  - d. Calculation of Uptime: Total Uptime (%) will be calculated through following formula:

$$\text{Uptime (\%)} = 100 \times \frac{[\text{Total Available time per-Quarter} - \text{Downtime}]}{[\text{Total Available time per Quarter}]}$$

**Note:**

- i. Total Available time per Quarter = (12 hrs \* 60 min' \* N days) – SLA Exclusion Time
- ii. N = Number of calendar days in a Quarter
- iii. SLA Exclusion Time = Clause 7.2.a.5 (a) & (b)
- iv. 12 hrs must be official working hours from 8.00 am to 8.00 pm

**b) Change in Service Level Requirements**

- 1) It is acknowledged that service levels may change as solution evolves over the course of the contract period. The present SLAs have been worked out on the basis of current expectation. Service levels between the Purchaser and Bidder can be revised after the start of operations of solution in view of the experience gained. The experience gained during this period will be used to fine tune the SLAs, including parameters, targets and penalties, if required.
- 2) Any changes to the levels of service provided during the project period will be requested, documented and negotiated in good faith by both parties. Either party can request a change. The request will be considered & finalized by DoIT&C in consultation with successful bidder. Changes will be documented as an addendum to the contract. The request of change in Service Level parameter by either of the party (ie Purchaser or Bidder) shall not be binding to other party and shall be applicable on mutual agreement of both the parties.

**c) Service Level Agreement (SLA) for Atal Seva Kendra**

- 1) Service Window:

Services	Parameters
Smart Panel Working at Atal Seva Kendra during Official hours.	12 Hrs.
Smart Panel Repair time	As per SLA

Table 7.2.1: Service Level Agreement (SLA)

S. No.	Service Description	Measurement Parameter	Reporting Period	Target Service Level	Penalty	Remarks
1.	Availability of Smart Panel	Uptime and Time taken to repair/replace the faulty equipment (in hours)	Quarterly	Above 95 % and Within 24 Hours of lodging of complaint or failure.	There will be no penalty to maintain uptime above 95 % of overall smart panel.	1) Downtime would start from the date and time of detection of problem.  2) Failure of RajNET shall not be consider into account.  3) Maximum penalty for the quarter shall not be more than the quarterly amount payable for O&M.
2	Availability of Smart Panel	Uptime and Time taken to repair/replace the faulty equipment (in hours)	Quarterly	Between 90 % to 94.99 % and Within 36 Hours of lodging of complaint or failure	There will be a penalty of 2 % of quarterly payable charges at per site basis. <b>And</b> If number of sites failure for 100 sites after 36 hours, then there will be a penalty of 2 % of total payable charges.	
3	Availability of Smart Panel	Uptime and Time taken to repair/replace the	Quarterly	Between 85 % to 89.99 % and Within 48 Hours of lodging	There will be a penalty of 4 % of quarterly payable charges at per site basis. <b>And</b>	

S. No.	Service Description	Measurement Parameter	Reporting Period	Target Service Level	Penalty	Remarks
4	Availability of Smart Panel	Uptime and Time taken to repair/replace the faulty equipment (in hours)	Quarterly	of complaint or failure Between 80 % to 84.99 % and Within 48 Hours of lodging of complaint or failure	If number of sites failure for 200 sites after 36 hours, then there will be a penalty of 4 % of total payable charges. There will be a penalty of 6 % of quarterly payable charges at per site basis. <b>And</b> If number of sites failure for 300 sites after 36 hours, then there will be a penalty of 6 % of total payable charges.	
5	Availability of Smart Panel	Uptime and Time taken to repair/replace the faulty equipment (in hours)	Quarterly	Below 79.99 % and more than 60 Hours of lodging of complaint or failure	There will be a penalty of 6 % of quarterly payable charges at per site basis. <b>And</b> If number of sites failure for 400 sites after 36 hours, then there	

S. No.	Service Description	Measurement Parameter	Reporting Period	Target Service Level	Penalty	Remarks
6	Availability of resources deployed under the project	No. of days absent to be calculated quarterly.	Quarterly	Working Hours – 8.00 AM to 8.00 PM 18 Days leave permitted to each person per year	will be a penalty of 6 % of total payable charges. 1) State Coordinator - Rs. 1500/ per day 2) Zonal Coordinator - Rs. 1000/ per day 3) District Coordinator - Rs. 500/ per day 4) Helpdesk Engineer - Rs. 500/ per day	1) Leave should be taken in such a manner that Project work is not hampered. 2) On Saturday/ Sundays and holidays one person out of two (State Coordinator and Jaipur Zonal Coordinator) shall be present at DoIT&C, Jaipur 3) Sufficient leave reserve, personnel should be arranged by bidder.

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### **7.3 Change Requests/ Management**

- a) An institutional mechanism will be set up for taking decisions regarding requests for changes. The Purchase Committee will set up a Change Control Committee with members from the procurement bidder and the selected bidder. If it is unable to reach an agreement, the decision of the Purchase Committee will be final.
- b) DoIT&C may at any time, by a written order given to the bidder, make changes within the general scope of the Agreement in any one or more of the following: -
  - a. Designs, specifications, requirements which hardware, software or service to be provided under the Agreement are to be specifically developed and rendered for DoIT&C.
  - b. The method of deployment, shipping or packing.
  - c. Schedule for Installation Acceptance.
  - d. The place of delivery and/or the services to be provided by the bidder.
- c) The change request/ management procedure will follow the following steps: -
  - a. Identification and documentation of the need for the change – The information related to initiator, initiation date and details of change required and priority of the change will be documented by DoIT&C.
  - b. Analysis and evaluation of the Change Request – Impact of the change in terms of the estimated effort, changed schedule, cost and the items impacted will be analysed and documented by the bidder.
  - c. Approval or disapproval of the change request – DoIT&C will approve or disapprove the change requested including the additional payments for hardware, software development, quoted man-month rate shall be used for cost estimation, efforts of all technical resources- project manager, analyst, software developer, testing engineer, database architecture etc. shall be taken into account for total man-month estimation to carry out the s/w development resulting from the change request. For all technical resources irrespective of their experience and 92 specialization, the quoted man-month rate shall be used. Efforts of support staff shall not be taken into consideration for this purpose.
  - d. Implementation of the change – The change will be implemented in accordance to the agreed cost, effort, and schedule by the selected bidder.
  - e. Verification of the change – The change will be verified by DoIT&C on implementation of the change request.

- d) All changes outside the scope of supplies agreed to herein which may have likely financial implications in terms of the overall cost/ time of the project shall be undertaken by SI only after securing the express consent of DoIT&C. In the event that the consent of DoIT&C is not received then the change will not be carried out.
- e) While approving any change request, if required, DoIT&C may ask the bidder to deploy the required resources on-site.
- f) If any such change outside the scope of supplies agreed to herein causes an increase or decrease in cost of, or the time required for, firm's performance of any provisions under the Agreement, mutually agreed adjustments shall be made in the Agreement Price or Delivery Schedule, or both, and the Agreement shall accordingly be amended. Any claims by firm for adjustment under this must be asserted within 30 (thirty) days from the date of SI receiving the DoIT&C change order which shall not be unreasonably withheld or delayed.

## **ANNEXURE-1: BILL OF MATERIAL (BoM)**

### **Note:**

- a) The Bidder shall be responsible for end-to-end implementation and shall quote and provide/supply any items not included in the bill of materials but required for commissioning of the required solution. Details of any additional item/ equipment (if required) in the technical Bid and quotes for such items shall be used for the purpose of Financial Bid evaluation. The details of such items shall also be uploaded along with Financial Bid (BoQ) in scanned pdf format as per Annexure-10. Purchaser shall not pay for any such items, which have not been quoted by the bidder in the bid but are required for successful completion of the overall project. The Financial Bid evaluation shall take into account all the components and their cost as quoted by the respective bidders for the end-to-end implementation of the overall solution.
- b) It shall be the responsibility of bidder to get OEM warranty executed and operated.
- c) The bidder is required to fill the total cost of additional items as mentioned in (a) above, in the financial bid (BoQ)
- d) The quantities mentioned above are indicative however, the payments shall be made on actuals.
- e) Provisional delivery and installation locations are provided in the Annexure-23.
- f) Detailed Technical Specification are given in the Annexure-2.
- g) **Establishment of backup power supply for status monitoring, control and metering system at Atal Seva Kendra.**

### **BoQ-1: CAPEX - FOR SMART PANEL AND SCADA SOLUTION AND OTHER EQUIPMENT**

<b>Item no.</b>	<b>Description of item</b>	<b>Unit</b>	<b>Quantity</b>	<b>MAF Require or Not</b>	<b>Warra ntee</b>
1	SITC of OEM made wall mounted dust and vermin proof compartmentalized IP 54 protected cubical panel ( hence forth called Smart Box ) as per drawing attached made out of CRCA sheet / IP54 ThermoPlastic material, required hardware , duly treated for derusting in 7 tank process with DE phosphating and with powder coating on both side of panel in desired shade The panel having PU/ Neoprene rubber gasket of not less than 3mm thickness , separate detachable gland plate M.S. flat for wall mounting ,hinged door with locking arrangement for equipment/switchgear . Thickness of sheet shall not be less than 1.6 mm up to 600 mm length / width of any compartment	ONE JOB	10,000	Yes, Please provide MAF docume nt duly signed and sealed on company letter	

Item no.	Description of item	Unit	Quantity	MAF Require or Not	Warra ntee
	<p>and be of 2.0 mm above 600 mm. Load bearing structure shall be of 2.0 mm thick sheet supported by base M.S. channel if required. Side walls and cable alley compartments having bolted type doors with / without detachable extension type structure.</p> <p>The above smart Panel (for monitoring, metering and control) should comprise of following items, details specifications of which are enclosed in document.</p> <p>1.1 Smart I/O module : 1 no 1.2 Single Pole 10 AMP MCB : 8 no 1.3 Double pole MCB 40 Amp : 2 no 1.4 pole 40 Amp contactor with 2 no, 2 NC Add on Block : 1 no 1.5 Din Mounted Pulse energy meters : 2 no 1.6 Power supply input 220 volt , output 24 v DC : 1 no 1.7 low voltage Relays : 2 no 1.8 Circuit breaker( 2 Pole MCB ) auxiliary for controlling main UPS and Nigam Electricity supplies : 2 No 1.9 Cat 6 cable from I/O module to RajNET Switch with required connectors 1.10 Associate smart cables and accessories for connection to smart Link with Active devices to control, monitor and metering devices 1.11 Din channel for installation of MCB, contactors , auxiliary relays , energy meters 1.12 LED indicating lights ; 2 no for indication of UPS supply/ Nigam supply switch On and Off 1.13 Push buttons if required 1.14 Auto / Manual selectors if required 1.15 PVC slotted channel with necessary power and control wiring of required current rating, duly ferruled and dressed with lugs etc. complete in all respect. 1.16 Din mounted Terminal Blocks of suitable rating for connection to Nigam Electric supply, UPS supply, Outgoing MCBs, for connection to LAN switch, UPS 1.17 Any other item required for proper operation of the system as described in specifications</p>			head of item no. 1.1; 1.2; 1.3; 1.4; 1.5; 1.6; 1.7; 1.8 and 1.9	
2	S&F following sizes (dia.) of ISI marked medium duty PVC conduit along with accessories in surface / recessed using saddles, clamps, fastener as required including cutting the wall, covering conduit and making good the same as	R. mtr.	200,000	No	

Item no.	Description of item	Unit	Quantity	MAF Require or Not	Warra ntee
	required. Of either makes viz AKG, BEC, Precision, Polycab.				
2.1	20 mm				
3	Supplying and drawing FR PVC insulated & unsheathed flexible copper conductor ISI marked (IS:694) of 1.1 kV grade and approved make in existing surface or recessed conduit/casing capping including making connections etc. as required. Of makes wither of RR Kabel, National, Finolex				
3.1	3x 1.5 sq.mm	Mtr.	200,000	No	
3.2	2 x 2.5 sq. mm. + 1x1.5sqmm	Mtr.	100,000	No	
3.3	2 x 6.0 sq. mm. + 1 x 2.5 sq. mm.	Mtr.	200,000	No	
4	Supply, Drawing and Testing of 4 pair, 24 AWG UTP Cat 6 Cable as per latest amendments of TIA /EIA 568 B.2-1 Specifications in existing MS/PVC Conduits including making connections to Information outlets and Patch Panels with ferruling at both ends for identification with necessary tools for punching, stripping, crimping and testing required of either makes Amp, Avaya, Penduit, Schneider, Legrand, Commoscope.	Mtr.	100,000	No	
5	Supply, Installation, Testing and Commissioning of SCADA software for monitoring, metering and control of 10,000 Atal Seva kendras from Data center at Jaipur using RajNET network with cost of all hardware like servers etc. to operate the entire system.	ONE JOB	1	Yes	
6	Supply, Installation, Testing and Commissioning of Project monitoring software for checking the progress of above project.	ONE JOB	1	Yes	
7	Supply, Installation, Testing and Commissioning of 5 Pair STP RS 232 / 485 cable or as required at site as per specifications and recommended makes	Mtr.	100,000	Yes	
8	Supply, Installation, Testing and Commissioning of 5 Pair STP RS 232 / 485 converter in enclosed box as per specifications and recommended makes	Each	10,000	Yes	

**BoQ-2: COMPREHENSIVE ONSITE AMC CHARGES FOR FIVE YEAR**

Item no.	Description of item	Unit	Quantity
1	Comprehensive maintenance (Preventive and Corrective Maintenance) cost and operation charges of the entire set up at all Atal Seva Kendra after final commissioning including SCADA Solution at NOC of DoIT&C Jaipur		
1.01	During Phase 1 to Final Commissioning period only	Single	1
1.02	1 <sup>st</sup> year from date of Final Commissioning	Quarterly	4
1.03	2 <sup>nd</sup> year from date of Final Commissioning	Quarterly	4
1.04	3 <sup>rd</sup> year from date of Final Commissioning	Quarterly	4
1.05	4 <sup>th</sup> year from date of Final Commissioning	Quarterly	4
1.06	5 <sup>th</sup> year from date of Final Commissioning	Quarterly	4

### BoQ-3: MANPOWER CHARGES FOR FIVE YEARS

Item no.	Description of item	Quantity	Total Man Month (Duration)
1	State Coordinator	1	60
2	Zonal Coordinator	7	60
3	District Coordinator	33	60
4	Helpdesk Engineer	3	60

### SUMMARY [CAPEX + OPEX (AMC + Manpower)]

S. No.	Description of work (Summary)	AMOUNT(INR)
<b>(CAPEX)</b>		
1	Total of CAPEX (BoQ:1)	
<b>(OPEX)</b>		
2	Total of AMC (BoQ:2) and Manpower Charges with taxes (BoQ:3)	
<b>Grand Total</b>		
Grand Total in Figures: (BoQ:1 + BoQ:2 + BoQ:3)		
Grand Total in Words: (BoQ:1 + BoQ:2 + BoQ:3)		

#### Note:

- Above is indicative, however the quantity may increase or decrease at the time of placing the purchase order as per actual.
- Quantities mentioned in financial bid are for evaluation purpose only.
- The quantities mentioned in financial bid are indicative however, the payments shall be made on actuals.
- VAT, CST and Service Taxes shall be paid as applicable.
- The bidder has to compulsorily quote for BoQ:1 (CAPEX) & BoQ:2(Total of AMC) and BoQ:3(Manpower Charges). In case bidder fails to quote for any of this stage, the bid would be summarily rejected.

- For OPEX - BoQ:2 (Total of AMC) and BoQ:3(Manpower Charges), charges would to be paid on quarterly basis.

RFP



**Table-1 of ANNEXURE-1**

- **List of HP NMS/EMS modules purchased under RajNET project:**

(Not to be supplied by bidder, it is only for bidder information)

<b>S. No.</b>	<b>Function</b>	<b>Products</b>	<b>Modules</b>
1	Automated Network Management	HP NNMI & its Smart Plug-Ins	Network Node Manager I; Network Automation; iSPI Performance for metrics; iSPI Performance for QA; iSPI Performance for Traffic; iSPI Performance for Multicast
2	Server Management	HP OM	Operations Manager
3	Enterprise Discovery	HP UD	Universal Discovery
4	Centralized Event Management	HP Omi	Operations Manager i
5	Application Performance Management	HP RUM	Real User Monitor
6	IT Operations Analytics	HP OpSA	Operations Analytics
7	Runbook Automation	HP OO	Operations Orchestration
8	Service Management	HP SM	Help desk solution
9	Asset Management	HP AM	Asset Manager
10	Reporting	HP SHR	Service Health Reporter

## **ANNEXURE-2: TECHNICAL SPECIFICATIONS**

- 1) Bidder should ensure that all the software, hardware, peripherals, accessories, sub-components required for the functionality and completeness of the solution, including devices, equipment, accessories, patch cords (copper / fiber), cables, software, licenses, development / testing kits, tools, etc. should also be provisioned according to the requirements of the solution. Also, any additional components, sub-components, assemblies, sub-assemblies that may be required to meet the desired performance requirements will have to be provisioned by the bidder at no additional cost.
- 2) Irrespective of how all the required features are controlled within the system, the entire solution should work without any performance degrade.
- 3) The network deployed should work on Ipv4 and Ipv6 from day one.
- 4) All articles supplied shall strictly conform to the specifications, trademark laid down in the tender form and wherever articles have been required according to ISI/ISO/other specifications / certifications, those articles should conform strictly to those specifications/ certifications.
- 5) The supply shall be of best quality and description. The decision of the purchase officer/ purchase committee whether the articles supplied conforms to the specifications shall be final and binding.
- 6) **Specifications of Smart panel specification for status monitoring, control and metering system at Atal Seva Kendra.**

The Smart panel shall consist of the following components: -

- a) Smart IO Module cum gateway (as per specifications which can be a Gateway/ PLC/ Data Logger Smart Link), which will be connected to NOC through RAJNET network – 1
- b) 40A, 4P contactor with 2NO+2NC power contacts and inbuilt 1NO+1NC auxiliary contacts – 1 number  
OR  
2 Number of 2 Pole contactors (2NO) connected by a mechanical interlock kit.
- c) kWh energy meter - 2
- d) 40A, 2P, 10kA, C-curve MCBs with communicating auxiliaries - 2
- e) 24V DC, 1.2A, power supply for smart IO module - 1
- f) Interposing relays for contactor status indication and control – 2
- g) 10A, 1P, 10kA, C-Curve MCBs – 8
- h) Indicating lamps for the changeover status - 2
- i) Terminal blocks – at least 20
- j) Earthing arrangement
- k) Neutral conductor

All the major components used in the smart panel box (like Smart IO module, Contactor, energy meter, MCB, 24V DC power supply, interposing relays) shall be from same make for ease of maintenance and maintaining the inventory.

The CRCA steel body, powder coated, wall mounted smart panel, shall be of IP54 design with two section having individual door type arrangement for protection against water & dust. It shall be so designed that there should be adequate heat transfer.

Smart panel shall be divided into two sections to avoid any disturbance/ malfunctioning of devices in healthy section, due to any fault, dust or vermin ingress

Section 1 – Containing Smart IO Module, Incomer MCBs, Interposing relays, Contactor, Power supply, Energy meters

Section 2 – Containing outgoing MCBs, Terminal blocks and neutral link

Alternatively bidder can supply panel as per following specs without any price advantage.

Ingress Protection	IP54 (IEC EN 60529) Class II Insulation
Strength	Thermoplastic material moulded in co-injection Resistance to abnormal heat and fire up to a temperature of 750 Degree C (IEC EN 60695-2-11) IK10 (IEC EN 50102) degree of resistance to impacts protection against chemical and atmospheric agents (water, saline solutions, acids, basic agents, mineral oils, UV rays) Operating temperature – 25 Degree C + +100 Degree C
performances	Rated operational voltage up to 690 C (1)
Installation	Snap-on mounting if all components in compliance with safety standards
Quality and environment	Compliance with CEI EN 62208 international reference standard Qualification for the requirements of CEI EN 60439 standards, IMQ mark according to EN 62208 standard 100 % recycle

There shall be a separate outer door for section 1 & another separate door for section 2. Provision for two indicating lamps shall be made available on the smart panel for indication of the status of solar and electricity board supply.

Power supply to smart IO module shall be supplied via 1 kVA separate UPS installed for local LAN switch to avoid any power failure and intern data loss.

### 7) Specifications for Smart panel box

Smart Panel shall be of approved OEM make. The Bidder should conduct Factory Acceptance Test in presence of departmental representative for intended function purpose involving display of communication over Ethernet network for control, monitor and measurement requirement.

#### 7.(a) Specifications for Smart panel box (CRCA sheet steel)

S.no.	Description	Specifications	Compliance (Yes/No)
<b>Make offered</b>			
<b>Model offered</b>			
A.1	Material	CRCA sheet steel	
A.2	Ingress protection	IP54	
A.3	Thickness	1.6mm	
A.4	Doors	Double door	
A.5	Dimensions	Details as per attached drawing (Tentative)	
A.6	Coating	Powder coated	

#### 7.(b) Specifications for Smart panel box (ThermoPlastic Material)

S.no.	Description	Specifications	Compliance (Yes/No)
<b>Make offered</b>			
<b>Model offered</b>			
A.1	Ingress protection	IP54	
A.2	Strength		
A.3	Performances		
A.4	Installation		
A.5	Quality and Environment		

**Note:** Any one of the 7a or 7b can be used.

#### 8.(a) Specifications for Smart IO Module (Smart Controller cum Gateway) and Connecting accessories

S. No	Number	Title	Use	Compliance (Yes/No)	Page no. Of supporting attached (Catalogue / Manual)
<b>Make offered</b>					
<b>Model offered</b>					
A.1	IEC – 61131-2	Programmable controllers - Equipment requirements and tests	Define Input and Output signal characteristics		

S. No	Number	Title	Use	Compliance (Yes/No)	Page no. Of supporting attached (Catalogue / Manual)
A.2	IEC – 60947-5-1 Part 5-1	Control circuit devices and switching elements – Electromechanical control circuit devices	Performance and tests of auxiliary contacts		
A.3	IEC 60947-5-4	Control circuit devices and switching elements – Method of assessing the performance of low-energy contacts	Performances of low energy auxiliary contacts		
A.4	IEC – 60664-1	Insulation coordination	Characteristics of devices for insulation		
A.5	IEC 61000-6-2 & 3	Analog sensors standard	Analog sensors		
A.6	RoHS	Environment	Environment friendly		

#### 8.(b) General requirements of smart controller cum gateway (Smart IO module)

S. No.	Number	Compliance (Yes/No)	Page no. Of supporting attached (Catalogue/ Manual)
<b>Make offered</b>			
<b>Model offered</b>			
B. 1	14 low consumption digital inputs (For ON/OFF/Trip status of two incomer MCBs, status of changeover (contactor) and energy meter output capturing. Spares as backup for damaged contacts), 5 low consumption digital outputs (For controlling the contactor. Spares as backup for damaged contacts), 2 Analog inputs (as spare for temperature and humidity measurement via Analog sensors to understand site conditions in case if conditions demand additional protection to be given to the smart IO module for reliable performance, One Modbus RS485 (For UPS input/energy meter input if RS485 meter used) and One Modbus TCP/IP (for Ethernet output) port, Sensor should use analog output of 4 to 20 mA or 0 to 10 Vdc		
B. 2	Control supply to be used for the smart IO module shall be 24V DC, which in turn shall be supplied from available 1kVA UPS on site.		
B. 3	It shall provide IP20 degree of protection for human safety.		
B. 4	Interposing relays shall be used between the smart IO module and the contactor, for both status and control, to protect the Smart IO Module		

S. No.	Number	Compliance (Yes/No)	Page no. Of supporting attached (Catalogue/ Manual)
	contacts from external interferences like high inrush current due to frequent switching operations.		
B. 5	Smart IO Module shall have inbuilt web pages for monitoring, control, metering, configuration, diagnostics and alarm notifications. The inbuilt webpages shall be viewable on windows based browsers (Internet Explorer/Google Chrome etc.). Inbuilt web pages shall show the following information. (If any external software is required, bidder should give details of it. The bidder should arrange for external software, if any charges are required to be done in future at their own cost at all Atal Seva Kendras (ASKs) for successful operation. )		
B. 5. 1	Status of changeover, possibility of controlling the contactor, kWh metering, No. of ON/OFF and Trip operations of MCB, No. of operations of changeover, Operating hours of solar and electricity board supply, data from analog sensors. It shall communicate the mentioned data to centralized SCADA directly from the smart IO module via register addressing. OEM shall submit the register addressing for the mentioned data for ease of integration with SCADA		
B. 5. 2	<b>To suit to network changes and security of webpage access:</b> Possibility to set IP dynamically via DHCP or BOOTP or manually via IPV4 or IPV6 addressing, Possibility to activate IP filtering on site i.e. computers with a defined IP addresses can only view the webpages. It shall also be possible to define the access level i.e. read only or full access. Possibility to activate IP filtering on site i.e. computers with a defined IP addresses can only view the webpages. It shall also be possible to define the access level i.e. read only or full access.		
B. 5. 3	<b>For simplicity of configuring the alarms and notifications:</b> It shall be possible to send emails directly from the smart IO module to at least 10 email addresses at a time for following events: Change in state of the connected components (ON to OFF to Trip), Running hours exceeded, number of trips exceeded for protection and control devices. Threshold exceeded for kWh meters and analog sensors.		
B. 6	<b>To make Smart IO module a plug and play device:</b> It shall be equipped with plug-in type input/output terminal blocks Or provision shall be made to make the connections plug in type for ease of installation and maintenance via prefabricated cables and wires. These wires shall be equipped with male-female type connectors. Wiring shall be done in such a way that smart IO module shall be easy to replace by removing all connected wires (plug-in type) from the smart IO module without using any screw driver. This feature will help in fast replacement of smart IO module if required, even by a non-expert.		

S. No.	Number	Compliance (Yes/No)	Page no. Of supporting attached (Catalogue/ Manual)
B. 7	<b>Testing of IO module:</b> The manufacturer shall supply a (software) tool for overall testing of the communication system, within the limits of the switchboard for UAT. It shall be possible to generate a report giving information on list of devices connected to each channel/IO of smart IO module. This report, duly signed by site supervisor, shall be submitted to complete the UAT.		
B. 8	The smart IO module shall store all of the calculated values in the event of a 24 V DC power failure. Data Input to Smart IO module should be in form of pulse only, which should be capable of storing value in term of counters (up to 14 inputs having maximum frequency 16.667 Hz as per IEC 62053-31). Period store in backup memory for 10 years.		
B. 9	Smart IO module shall support following protocols – HTTP for supporting the inbuilt webpages, FTP (File transfer protocol), Modbus TCP/IP for data transfer over Ethernet, Modbus RTU, RS485 serial connection, NTP (Simple Network Time Protocol) for time synchronization with remote server, SMTP (Simple mail transfer protocol) for sending emails, DPWS (Devices Profile for Web Services)		

**9) General specification of Miniature Circuit Breakers (Single Pole / Double Pole MCBs)**

S. No.	Specifications	Compliance (Yes/No)	Page no. Of supporting attached (Catalogue/ Manual)
<b>Make offered</b>			
<b>Model offered</b>			
A. 1	All MCBs shall comply to IEC60947-2, IEC60898-1 and shall comply to isolation.		
A. 2	All MCBs shall be suitable for field-fittable communicable indication auxiliaries for ON/OFF/Trip indication to facilitate any last minute changes. OR Otherwise separate accessories should be used for ON/OFF and trip indication i.e Aux contact and Signal contact.		
A. 3	IP 20 Degree of Protection shall be ensured to prevent electrical shocks by accidental touch to any live parts, by providing finger touch proof terminals.		

A.4	Energy Limitation Class-3 shall be there to ensure minimum let through energy in the event of a fault, for safety & longevity of downstream circuit equipment.		
A.5	MCBs shall have bi-connect facility to terminate fork / Pin type busbar and wires, simultaneously for faster and easy connection. Terminals of MCBs shall have captive screws.		
A.6	Outgoing Single pole MCBs shall be 10A, C curve having 10kA breaking capacity, suitable for operating temperature -25 to 55 deg C. Fork type busbar shall be used for distribution on incomer side.		
A.7	Incomer Double pole MCBs shall be 40A, C curve, 10kA breaking capacity; suitable for operating temperature -25 to 55 deg C. Communicable auxiliaries for ON/OFF/Trip status communication shall be supplied.		

#### 10) Specifications for Communicable status indication auxiliaries for MCB

S. No.	Description	Specifications	Compliance (Yes/No)	Page no. Of supporting attached (Catalogue/ Manual)
<b>Make offered</b>				
<b>Model offered</b>				
B.1	Standard	IEC 60947-5-4		
B.2	Rated voltage	24V DC		
B.3	Number of contacts	1NO+1NC		
B.4	Operating temperature	-25 to 55 Degree centigrade		
B.5	Connectors	Ti 24 type or similar (For Plug and play operation) / Screw terminals		

#### 11.(a) Specification for contactor for changeover operation (To be used if available with the approved makes)

S. No.	Specifications	Compliance (Yes/No)	Page no. Of supporting attached (Catalogue/ Manual)
<b>Make offered</b>			
<b>Model offered</b>			
A.1	Contactors used for changeover shall comply to IEC 60947-4-1 and add on auxiliary contact block accessories to comply to IEC 60947-5-1		
A.2	The interference suppressors should be able to fit across AC coil terminal without any tool and additional space to ensure trouble free operation in adverse conditions or otherwise internal surge suppressers should be provided.		



S. No	Specifications	Compliance (Yes/No)	Page no. Of supporting attached (Catalogue/ Manual)
A.3	The coil of the contactor shall preferably have class F insulation to support frequent switching and avoid any temperature rise and failure of device.		
A.4	Contactor used for changeover operation shall be 4P, 40A (AC1 @ 55 degC), 415V, operating temperature -5 deg C to 55 degC. Power contacts shall be 2NO+2NC. Contactor shall have inbuilt mechanically interlocked 1NO+1NC auxiliary contacts (to ensure break before make operation) for communication to smart IO module, 2NO+2NC additional auxiliary contacts shall be supplied for status indication on panel door via indication lamps. Power contactor shall have integrated factory fitted NC mirror contact for safety application and feedback as per IEC60947-5-1.		

**11.(b) Specification for contactor for changeover operation (To be used if available with the approved makes)**

S. No	Specifications	Compliance (Yes/No)	Page no. Of supporting attached (Catalogue/ Manual)
<b>Make offered</b>			
<b>Model offered</b>			
A.1	Alternatively in place of 4P, 40 Amp contactor, the bidder can use 2 numbers of 2 Pole contactors (2NO) connected by a mechanical interlock kit. The system shall be suitable to switch 2 separate power supplies to a common load. The Contactor should be of AC1 duty having 2NO power contacts and 2NO + 2NC additional auxiliary contacts suitable for 415V rated operational voltage having Din Rail mounting. The contactor should be capable of frequent switching upto 3600 operating cycles / Hr depending on rating selected without any mechanical failure. The coil of the contactor shall have class F insulation to support frequent switching and avoid any temperature rise and failure of device. The contactor should be block type design with facility for contacts and coil replacement. Spares should be available.		

**Note:** Any one of the 11 a/ 11 b can be used

**12.(a) Pulse/optical output energy meter (To be used if available with the approved makes)**

S. No.	Description	Specifications	Compliance (Yes/No)	Page no. Of supporting attached (Catalogue/ Manual)
<b>Make offered</b>				
<b>Model offered</b>				
A.1	Standards	IEC 62053-21 & 31		
A.2	Rating	0-40 Amp without external CTs , 50 Hz		
A.3	Accuracy class	1		
A.4	phase	Single – neutral		
A.5	Voltage	230 $\pm$ 20 %		
A.6	Metering	3200 Flashes / KWh		
A.7	Module width	1 module (18mm)		
A.8	Mounting	Din mounted		
A.9	Powering	Self powered		
A.10	Power consumption	<10VA		
A.11	Operating temperature	-10 deg C to +55 deg C		

**12.(b) Energy meter with RS485 port (Meter with inbuilt CT shall be used if available with approved makes)**

S. No.	Description	Specifications	Compliance (Yes/No)	Page no. Of supporting attached (Catalogue/ Manual)
<b>Make offered</b>				
<b>Model offered</b>				
A.1	Standards	IEC 61557-12		
A.2	Rating	0-40 Amp		
A.3	Accuracy class	Combined accuracy class 1 (Meter – Class 0.5, CT class 0.5). Meter with inbuilt CT having combined accuracy of class 1 shall be preferred		
A.4	phase	Single phase		
A.5	Voltage	230 $\pm$ 20 %		
A.6	Metering	kWh		
A.7	Power consumption	<10VA		
A.8	Operating temperature	-10 deg C to +55 deg C		

**Note:** Any one of the 12 a/ 12 b can be used

### 13) Specification for 24V DC Power supply

S. No.	Description	Specifications	Compliance (Yes/No)	Page no. Of supporting attached (Catalogue/ Manual)
<b>Make offered</b>				
<b>Model offered</b>				
A.1	Input voltage	100 - 240 volt AC		
A.2	Output voltage	24V DC		
A.3	Protection	Integrated fuse		
A.4	Mounting	Din mounted		
A.5	Status indication	LED		
A.6	Power supply type	Regulated switch mode		
A.7	Power supply output current	1.2 Amp		
A.8	Operating temperature	-25 Deg C to +60 Deg C		
A.9	Degree of protection	IP20		
A.10	Inrush current	<=20A		
A.11	Environment	RoHS compliant		

### 14) Specification for interposing relay

Low consumption interposing relays, as per approved make list, shall be used between the smart IO module and contactor, as per the smart panel drawing, to protect the Smart IO Module contacts from external interferences (e.g. high inrush current).

### 15) Specifications for UTP cable

S. No.	Description	Specifications	Compliance (Yes/No)	Page no. Of supporting attached (Catalogue/ Manual)
<b>Make offered</b>				
<b>Model offered</b>				
A.1	Cable shielding type	UTP		
A.2	Type	4 twisted pair		
A.3	AWG gauge	24		
A.4	Jacket Material	PVC		
A.5	Standards	IEC11801		

### 16.(a) Specifications for RS232/485 Converter

S. No.	Description	Specifications	Compliance (Yes/No)	Page no. Of supporting attached (Catalogue/ Manual)
<b>Make offered</b>				
<b>Model offered</b>				
A.1	RS232 interface	Confirm to EIA RS232		
A.2	RS485 interface	Confirm to EIA RS232		
A.3	Common mode rejection ratio	2500V/50Hz		
A.4	No. of lines	2 lines, TxD, RxD		
A.5	Data rate	0-64kbps		
A.6	Power	220V AC +/-10% 50Hz		

#### 16.(b) Specifications for RS232/485 Cable

S. No.	Description	Specifications	Compliance (Yes/No)	Page no. Of supporting attached (Catalogue/ Manual)
<b>Make offered</b>				
<b>Model offered</b>				
A.1	No. of Pairs	5		
A.2	Type of Cable	STP		

#### 17) Minimum Specification of Rackmount Servers

Item No.	Description	Specifications	Compliance (Yes/No)	Pg. No. of Tech. specs attached
5				
<b>Make offered</b>				
<b>Model Offered</b>				
A.1	Form Factor	Rack Mount - 4 U		
A.2	Processor Speed	Intel/AMD, 64 bit E7 series or Equivalent, 10 Core processor, Core Frequency minimum 1.9 GHz, Memory Speed Minimum 1066 MHz, L3 Cache Minimum 22 MB Shipped with 2 Processors scalable to 4 processors		
A.3	Random Access Memory (RAM)	48 GB memory scalable at least up to 256 GB, using DDR-3 Registered DIMM operating up to 1066 MHz or higher with Advanced ECC with multi-bit error protection supporting technologies of memory mirroring and online spare capacity.		
A.4	Available Disk Space	2 TB with integrated SAS RAID controller supporting of RAID - 0, 1 and 5 with minimum 512 MB cache for RAID operations and minimum 15000 RPM		
A.5	Disk bays	Minimum 8 hot-swap SAS HDD		

Item No. 5	Description	Specifications	Compliance (Yes/ No)	Pg. No. of Tech. specs attached
A.6	Graphics Adapter	Including 256 MB of VRAM or Higher		
A.7	Rackmount Server Connectivity to SAN	Should have 1 * 8/4 Gbps Dual port Fiber Channel HBA internal to the Rackmount Server.		
A.8	Ports	2 USB ports (Ver 2.0); 4 RJ-45 Ethernet; keyboard and mouse;		
A.9	Network LAN Ports	Minimum 4 x 1 G and 2 x 10 G Network Ports		
A.10	Power supply	Redundant Power supply (Hot Plug)		
A.11	Industry Standards	Industry Standards: The server must be compliant with following international standards: PCIE 2.0 Compliant, WOL Support, Microsoft® Logo certifications, USB 2.0 Support, however ACPI 2.0. Compliant / Energy certification from any international certifying authority is preferable		
A.12	.NET Framework version	Version 4.0		
A.13	Java Runtime Environment	Required		
A.14	Project DBF Add-in for Excel	Required		
A.15	Database Support and Licenses	Microsoft SQL/ MySQL (Enterprise Edition)/ Oracle/ Any other non-proprietary database with 5 years on-site support.		
A.16	OS Support and Licenses	Should support Microsoft Windows, VMware ESXi Server, Red Hat Enterprise Linux including Microsoft Office and Antivirus Security Software.		
A.17	Warranty	5 years comprehensive warranty.		

**Note:** UPS will be provided by DoIT&C.

### 18) Specifications of SCADA Solution

#### 1. Energy And Power Management Software – General

- A. The Energy and Power Management Software (EPMS) system platform shall facilitate applications in the broad categories of (a) energy performance, (b) power availability, and (c) sustainability performance. At a high level, the feature-set shall provide functions in:
  - a. Real-time monitoring
  - b. Alarming and event management
  - c. Energy cost analysis
  - d. Energy, power, and sustainability data analytics and visualization
- B. The software platform shall be certified for use as a part of an ISO50001 program and verifiably support compliance. In addition, the functionality shall support ongoing ISO50001 programs per the following areas of Section 4 of the ISO standard:
  - a. Energy review
  - b. Energy baseline
  - c. Energy performance indicators
  - d. Monitoring, measurement, and analysis
  - e. Input to management review
- C. The EPMS shall verifiably support compliance with EN 16247-1 for energy audits. The software platform should support open protocols (Modbus TCP/IP, IEC 61850, etc.) to provide a open and common language for integrating different kind of devices.

## **2. Energy And Power Management Software – Real Time Monitoring**

- A. The Energy and Power Management Software (EPMS) shall include the capability to provide screens including real-time data about the electrical infrastructure showing incoming utility feeds, medium voltage, and low voltage distribution. Relevant data from other energy and facility metadata, such as UPS, weather, occupancy data, etc., can be integrated, provided the communications and data infrastructure are in place. The capability to provide real-time monitoring data within other analytics functions, such as dashboard views, shall also be provided
- B. Electrical single line diagrams: The EPMS shall include a set of screens that show the electrical single line diagram for the facility with the following:
  - a. Real-time animated single line diagrams
  - b. Links to navigate between various levels of the single line diagram
  - c. Single line diagram shall highlight when the status of a section of the single line cannot be determined due to communication error
  - d. Animated power component of the single line (e.g.LV switchboards, UPS, etc) shall link to a power equipment details screen, assuming that the necessary

protection and metering hardware is in place for Energy Meters, UPS, Circuit Breakers, Contactors, Any other device on ModBus, etc.

- C. Equipment details: The EPMS shall include a set of screens that show equipment details including:
- a. Details pertaining to each piece of equipment. This includes a picture of the equipment (if available), local single line (if applicable), information for each electrical section (e.g., MCB, Energy Meter and disconnect switch), and all alarm points
  - b. A link to each of the default diagrams of each meter/protection device that apply to the piece of equipment shall be provided
  - c. The EPMS shall have a graphic library with electrical one-line symbols to simplify the creation of single line diagrams
- D. Floor plans: The EPMS shall include the capability to overlay the display of real time data on facility floor plans when available. Links to summary screens, equipment details screens, etc., can be integrated
- E. Status panel: The EPMS shall include a summary status screen for alarm status indication for major power equipment components of the electrical distribution system
- F. Web-enabled real-time tables: The system shall have the following capabilities for interactive side-by-side visualization of real-time measurements:
- a. Display a tabular view to compare device readings from multiple meters in the power monitoring network quickly
  - b. Permit users to create, modify, view and share table views through a browser without the need for a separate software application
  - c. Have built-in functions that allow users to easily and instantly filter out measurements when viewing a table
  - d. Support both physical and virtual devices defined in the system
  - e. Support exporting real time tabular data into Excel formats
- G. Power monitoring trending: The EPMS shall include graphical charts for real-time trending of power usage or any measurement supported by metered equipment such as solar power generation and Grid supply. These trends shall include the capability to:
- a. Trend up to 14 measurements on the same chart
  - b. Customize attributes such as color, line thickness, overlays, display name, and display units for each data series
  - c. View the trend using an auto-scaling or manual chart axis
  - d. Adjust the desired time viewing window for the trend
  - e. Inspect the trend by zooming and panning to focus in on key areas of the trend

- f. Provide drill-down detail for the highlighted trend data point to help identify root causes of concern
- g. Trend measurements with different units on the same chart using two different axes
- h. Provide calculated values of minimum, maximum, and average values for a trend
- i. Configure a target threshold line for comparison against actual measurements
- j. Configure up to two target bands with visual indicators to identify when a measurement is outside specified limits
- k. Display real-time data and/or historical data per data series, with optional back-filling of the real-time data using historical data
- l. Access trend data from a web browser or mobile environment
- m. Save specified trends in a library for later use
- n. Share trends with other users or restrict use
- o. Simultaneously view multiple trend charts, or alternatively maximize a selected trend to display it in full screen mode.

### **3. Energy And Power Management Software – Alarm And Event Annunciation**

- A. The Energy and Power Management Software (EPMS) shall provide alarm and event annunciation features that include the following:
  - a. An alarm viewer that provides a summary of the active alarms. The viewer shall:
    - i. Be visible in any screen when logged into the web interface of the system
    - ii. Display the total number of unacknowledged alarms and the breakdown of how many of those alarms are high priority, medium priority and low priority
    - iii. Provide an audible alarm and a simple means for muting the alarm
    - iv. Allow a simple mechanism to acknowledge alarms for users with appropriate user privileges
    - v. Allow a mechanism to sort and group alarms
    - vi. Allow a mechanism to set configurable alarm thresholds (e.g., high, medium, and low)
    - vii. Allow a mechanism to create user defined alarm views that fit user defined criteria
    - viii. Provide an active alarms view to show alarms currently in the active state
    - ix. Printing support as alarms occur (including sorted/filtered view)
    - x. Ability to configure coloring, based on severity of alarms
    - xi. Alarms shall be accessible from the single line diagram associated with the equipment or from the detailed view
    - xii. Ability to change alarm set points from the viewer



- xiii. Ability to view associated waveforms if the device supports it
- b. The EPMS shall provide an alarm notification system
  - i. The alarm evaluation and notification system shall ensure that appropriate staff members are notified of power system events. The system shall collect data, evaluate alarm conditions, and annunciate the alarms to specified users through email or SMS text messages.
  - ii. The alarm evaluation and notification system shall include:
    - 1. An alarm evaluation engine
    - 2. An alarm notification/annunciation engine that supports annunciation through email and SMS text message
    - 3. Flexible alarm scheduling capabilities
    - 4. Web-based configuration tools for notification configuration, log viewing and filtering, Windows-based security integration component
    - 5. The ability to control alarm flooding by intelligent aggregation through alarm filtering and consolidation
    - 6. Message delivery mechanisms such as:
      - a. Electronic mail (Email)
      - b. Text messaging for cell phones (GSM Modem)
      - c. Short messaging peer-to-peer protocol (SMPP)
      - d. Simple Network Management Protocol (SNMP)

#### **4. Energy And Power Management Software – Data Analytics And Visualization**

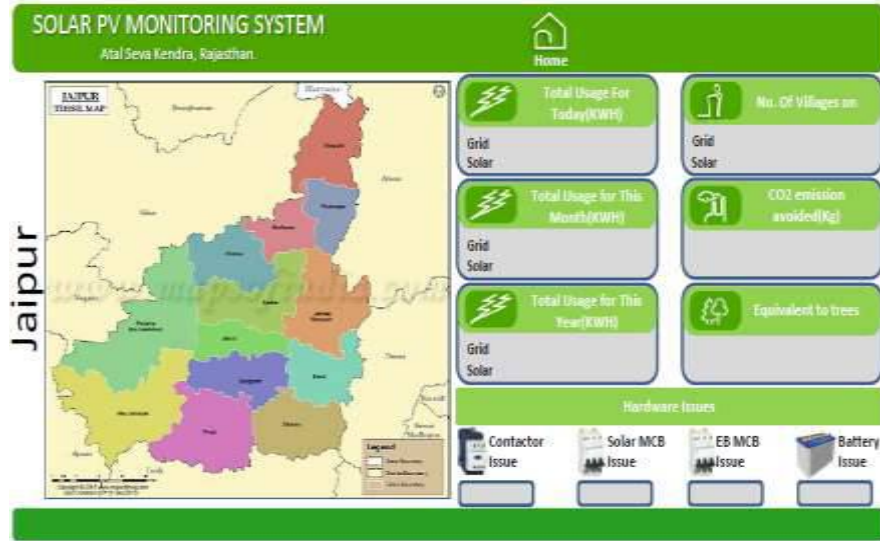
- A. The Energy and Power Management Software (EPMS) shall provide web-enabled dashboards.
  - a. The system shall have a web client interface that presents interactive auto-updating dashboard energy summary data, historical data trends, images, and content from any accessible URL address
  - b. Users shall be able to create, modify, view, and share their dashboards (including graphics, labels, scaling, measurements, date ranges, etc.) using only a browser and without a separate software application
  - c. Users shall be able to create with configurable drag and drop gadgets to show the following data:
    - i. Images from any web-based content
    - ii. Energy consumption
    - iii. Energy cost
    - iv. Energy comparison

- v. Energy savings
- vi. Carbon Emissions
- vii. Trends
- viii. On-Off Status of Solar & Grid supply
- ix. UPS Status
- x. No of Centres running on Solar & Grid
- xi. Total KWH consumed from Solar Vs Grid (Daily, Monthly, yearly)

### State Level View- Sample Screen



### District Level View- Sample Screen



Block Level - Sample Screen

Gram Panchayat	EB MCB Status	Solar MCB Status	EB Power	Solar Power	Battery Status
BAAG					
KABIRPURA					
NERWODA					
SHUBHAL					
MAHLAN					
LAUNI					
NARAYANA					
PARSONI					
SAHLANA					
BOBI					
NASEEU					

Kendra Level View- Sample Screen



- d. The system shall facilitate kiosk displays by assigning individual dashboards to slideshows to run in unattended mode, scrolling through designated dashboards at a configurable time interval.
- e. The system shall permit users to create, save, and share an unlimited number of dashboards and slideshows

#### **5. The System Shall Provide A Web-Enabled Reporting Platform**

- A. The system shall provide a web-enabled reporting tool to view historical data in pre-formatted or user-defined report templates
- B. The system shall support reporting on all supported physical devices (as following) and virtual (or calculated) meters as defined in the device hierarchy:
  - i. Native—driver available with software.
  - ii. Installer—driver available through additional downloadable installer.
  - iii. 3rd Party Modbus RTU edition—with support for real-time registers and for PC based data logging only.
  - iv. Standard edition—with support for all features including onboard logs, waveforms, control operation, etc.
- C. Users shall be able to create, modify, view and share their reports in the web reports interface.
- D. The reporting tool shall provide standard pre-formatted report templates for:
  - a. Energy cost
  - b. Load profile
  - c. Energy Usage: period-over-period, by shift, single and multi-device comparison
  - d. Tabular and trend report
  - e. Alarm and event history
  - f. System configuration
  - g. Hourly usage report
  - h. Single and multi-device usage reports
- E. The reporting tool shall support exporting to the following output formats: .HTML, .PDF, .TIFF, .Excel, and .XML
- F. The reporting tool shall be capable of subscriptions to facilitate automatic distribution of reports according to a configurable schedule by saving to network locations, email, or print
- G. The system shall support the ability to trigger the generation and delivery of a pre-configured report based on pre-specified event criteria. The system shall be capable of configuring event monitoring detection filters criteria
- H. The reporting tool shall have a framework to support:

- a. Simple customizations to reports such as colors, image inclusions, turning report sections on/off, and logo changes without programming
- b. Additional more complex report customization through a programming kit
- I. The reporting tool shall be capable of subscriptions to facilitate automatic distribution of reports according to a configurable schedule by saving to network locations, email, or print.

## **6. Energy And Power Management Software – Technical Infrastructure And System Administration Capabilities**

### **A. General Architecture:**

- a. The architecture should allow communication between Intelligent Electrical Devices and the Data acquisition servers and consoles
- b. System shall be scalable to adapt to the planned and potential evolution of the site(s)
- c. System shall be modular to enhance performance
- d. System shall have redundancy built into it natively to provide reliability

### **B. The Energy and Power Management Software (EPMS) shall provide the following operating system and browser support:**

- a. All associated core components of the EPMS software operate as Windows operating system services. (All version of Windows 7,8,8.1 and Windows Server 2008,2012)
- b. The web client interface shall support all browsers. (Latest version of Internet Explorer, Google Chrome, Mozilla Firefox, Opera and Apple Safari)

### **C. The EPMS shall provide the following data management support:**

- a. Microsoft SQL/ MySQL (Enterprise Edition)/ Oracle/ Any other non-proprietary database with 5 years on-site support.
- b. All network configuration settings relating to device routing and addressing, communication gateways, distributed I/O servers, and load-distributing application servers shall be stored in the EPMS databases
- c. Archiving, trimming, and on-demand or scheduled capabilities shall be supported
- d. The capability to view historical data from archived databases shall be included
- e. The EPMS shall be capable of retrieving data from devices in the monitoring network and provide the following abilities:
  - i. Interrogate and download logs of interval, waveform, and alarm data stored on board metering devices and related circuit breaker trip units

- ii. Interrogate and download logs of interval data generated by the software system (software-based logging)
- iii. Interrogate and download logs of alarm and event data generated by the software system (software-based alarming)
- iv. Detect unknown measurement quantities provided by devices in the network, and automatically generate appropriate database references for those quantities without user intervention
- f. The EPMS system shall include an Administrative interface with the following management functions:
  - i. Security: Administer groups and user accounts with role-based privileges
  - ii. Database: Initiate backup, archiving, and trimming tasks
  - iii. Devices: Add or rename devices, map measurements, and communication settings
  - iv. Connections: The network connectivity will be given through RajNET.
  - v. Events: View and manage software system events
- g. The EPMS system shall function without disruptions (including communications, logging, and alarming) and shall remain online during all system administration functions such as adding, modifying, or removing devices in the system; creating, modifying, or removing graphical diagrams, dashboards, tables, and reports; creating, modifying, or removing application logic programs in the application logic engine
- h. The EPMS shall support the following device support and management features:
  - i. The system shall include factory-tested native support for at least 30 to 50 electrical distribution devices (energy and power meters, protection relays, circuit breakers, Ethernet gateways, etc.)
  - j. Native comprehensive device support shall include:
    - i. Pre-engineered, interactive graphical display screens for viewing and analyzing real-time and historical device data
    - ii. All registers pre-mapped to standard measurement names without additional mapping of internal device registers
    - iii. Automatic upload of time-stamped onboard data logs, event strings, and waveform captures without additional configuration
    - iv. Automatic time synchronization
- k. The system shall support integration with other third party intelligent electronic devices not directly supported natively

- i. The system shall support logical device definitions for user-friendly device and measurement names for inputs/outputs or channels on devices that represent a downstream device (in the case of auxiliary inputs) or an individual circuit (in the case of multi-circuit devices). Bulk-import capability to create large numbers of logical devices without manual single-device configuration shall be supported
- m. The system shall support the concept of hierarchies to organize devices structurally into various levels. Examples include Circuits/Panels, or Buildings/Floors/Rooms. The system shall include the ability to:
  - i. Aggregate data at any location in the hierarchy
  - ii. Track hierarchy configuration changes over time
  - iii. Allow administrators to update names in a given hierarchy at any time (even in the past) to ensure accurate reporting of associated data points (e.g., report on energy consumption for a location, expanded, added, or removed circuits etc)
  - iv. Export the hierarchy structure to Excel format
  - v. Bulk-import capability to create and edit large hierarchies without manual per-device setup
- n. The system shall support extensibility in the following ways:
  - i. Provide a graphical, object-oriented application logic engine to create system-wide logic modules with arithmetic, XML data import, PC-based alarming, and logging capabilities
  - ii. The application logic engine shall have a comprehensive set of functions to create customized applications programs for functions such as weather or real-time price import, KPI calculations, energy units conversion, data aggregation, data normalization, data comparison, power loss calculations, power factor control, load shedding, etc.
- o. The EPMS system shall support system integration in the following ways:
  - i. Device-level Modbus interoperability
    - 1. The system shall be capable of supporting Modbus communicating devices and be capable of functioning as a Modbus master to read/write registers in Modbus devices for monitoring and control applications
    - 2. The system shall be capable of Modbus device definition (device drivers) creation to enable integration of third-party Modbus protocol devices
  - ii. System-level OPC interoperability

1. The system shall be OPC DA 2.0.1 compliant (as per the OPC Foundation Compliance Testing process) for OPC Server and OPC Client data sharing applications amongst OPC compliant systems
  2. The system shall provide default OPC Server tag mappings for all natively supported device types without the need to select, configure, or program the mapping of device registers to OPC tags
  3. The system shall provide a flexible means to add or change OPC mappings and shall support the ability to add custom measurements
- iii. Data-level interoperability
1. The system shall support the Extract, Transform, and Load (ETL) data log file transfer mechanism to import and export data log files to integrate functions such as manual data entry, offline device data import to other systems
  2. The system shall include a mapping application for specifying log data file import-export mappings and import schedules to facilitate import/export in formats such as .CSV, .XML, etc.
- iv. Web application level integration
1. The system shall include the capability to integrate other web applications into its web interface through the use of pluggable web content widgets
  2. The system shall include the capability to supply content such as dashboards, report, trends and diagrams to other external web applications through addressable URLs
- v. Web services integration
1. The system shall include web services integration for machine-to-machine interactions with other application software systems with the following characteristics:
    - a. Based on SOAP (Simple Object Access Protocol) protocol specification
    - b. Provide a Web Services Description Language (WSDL), machine-readable description
    - c. Allow access to real-time, historical (i.e., time stamped), and alarm/event type data
    - d. Provide the ability to acknowledge alarms by authenticated and authorized clients



- e. Provide digest authentication functionality
- f. Provide the ability to be enabled or disabled
- p. The EPMS shall support system configuration and advanced analysis tools in the following ways:
  - i. The system shall include a monitoring and analysis application with a rich set of power tools for energy analysis, power quality analysis, power system monitoring and control, and include the following capabilities:
    - 1. Diagram creation capability to create a comprehensive set of linked hierarchical graphical diagrams showing devices and their associated device specific diagrams in the network
    - 2. Ability to import custom graphics or images to create electrical one-line diagrams, facility maps, plan views, floor layouts, equipment representations, and mimic displays
  - ii. Ability to write to device registers for applications such as resetting, triggering, toggling, switching, manual waveform capture, controlling remote devices and equipment, including breakers
  - iii. Ability to develop custom graphics screens and application logic programs with the devices being offline or disabled to allow for project development in disconnected mode
- q. The system communications infrastructure shall support the following:
  - i. Multiple communications network topologies including Ethernet/TCP, serial RS-485/RS-232, and Modem dial-up connections
  - ii. The capability to provide time-synchronization signals over an Ethernet network with 16ms accuracy or better
  - iii. The capability to communicate simultaneously with multiple devices, including devices on different physical communications channels
  - iv. Scalability to greater than a thousand devices
  - v. The ability to automatically retrieve logged data from natively supported devices without additional configuration
  - vi. The ability to accept or reject duplicate data entries into the database
  - vii. The ability to schedule connection times for specific time-periods to conserve bandwidth

Item No. 6	Description	Specifications	Compliance (Yes/No)	Pg. No. of Tech. specs attached
<b>Make Offered</b>				
<b>Model Offered</b>				
A.1	<b>Specifications of SCADA Solution.</b>	As above		

**19) Development and deployment of a Web-based Portal for monitoring the progress of implementation of the project**

<p>The bidder is required to host a web-based portal for effective monitoring of the project implementation. The portal should give details of position and progress of the work at state level, district level and block level and for individual Kendra. The bidder shall propose the framework of web-portal before deployment and seek approval of DOIT&amp;C.</p> <p>The bidder may develop the portal or built-on/customize the readymade tool to meet the required functionality.</p> <p>The content of the portal shall be decided by mutual discussion. The portal should be migrated to RSDC after completing compliances of the RSDC policies.</p> <p>The Implementing agency shall implement a web-based monitoring system for tracking the progress of the various activities as defined in the scope of the work of the project. The key features required are as following:</p> <ol style="list-style-type: none"> <li>1. About the project.</li> <li>2. Home Page with Dash board Summary</li> <li>3. User Management (CRUD (Create, Read, Update and Delete) operations)</li> <li>4. User Role Management</li> <li>5. Generic website features: Such as search within the site or web search, contact us, email id, site map, feedback, disclaimer, website policies, FAQs, Help, Accessibility Statement/Options, link to other websites etc.</li> <li>6. Site wise details of Bill of Material delivery, installation and commissioning</li> <li>7. Reports: <ol style="list-style-type: none"> <li>a. Pre-Implementation: <ol style="list-style-type: none"> <li>i. Technical Feasibility reports</li> </ol> </li> </ol> </li> </ol>
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<ul style="list-style-type: none"> <li>ii. Survey Reports (State-wide, Division-wise, District Wise, Tehsil-wise, Block-wise, Gram Panchayat wise) with CRUD operations</li> <li>b. Site wise detail data</li> <li>c. Site readiness reports</li> <li>d. Site wise implementation status trackers</li> <li>e. Connected Users and IP reports</li> <li>f. MIS reports</li> <li>g. Milestone summary</li> <li>h. Contact Directory: <ul style="list-style-type: none"> <li>i. State Coordinator, Zonal Coordinator and District coordinator</li> <li>ii. Implementing Agency Team</li> </ul> </li> </ul>
8. Project Issue Log/Issue Tracker
9. Printing and export of reports in various formats like pdf and Excel etc.
10. Section for uploading important documents, media gallery, news & events, and small video up to 2Mbps
11. User/ Stakeholders feedback monitoring mechanism
12. Scheduling and Monitoring of UAT
13. The bidder shall be responsible for data integrity during the project implementation period and hosting the application in RSDC after project Implementation is completed.

Item No. 6	Description	Specifications	Compliance (Yes/No)	Pg. No. of Tech. specs attached
<b>Make Offered</b>				
<b>Model Offered</b>				
A.1	<b>Development and deployment of a Web based Portal for monitoring the progress of implementation of the project</b>	As above		

### **ANNEXURE-3: MANPOWER DEPLOYMENT**

- 1) The selected bidder is required to deploy the minimum number of dedicated skilled manpower as mentioned below along with required tools, equipment and facilities to carry out the scope of work.
- 2) The manpower may be increased or decreased as per requirement by giving two month time. The payment shall be made as per actuals.
- 3) The selected bidder, if required, may also deploy additional field engineer with required machines and tools for smooth implementation /functioning/ O&M of the project, at no extra cost to purchaser.
- 4) The manpower will be deployed exclusively for the project and cannot be shared by the bidder for other purposes.
- 5) Non-deployment/ non availability of the required manpower shall attract penalty as per SLA.
- 6) In the event of non-deployment/ non availability of the committed manpower on account of any cause, the bidder must inform the same in writing to DOIT&C/DoIT&C and replace the person with equivalent qualification and experience. The SLA shall be applicable for such case also.
- 7) The Bidder shall be required to ensure availability of manpower and submit the attendance certified by concerned government official along with bills.
- 8) The State Coordinator should necessary be on roles of Sole Bidder/Lead Bidder and is deputed for entire project duration. The State Coordinator would also be the in-charge of the Project Management.
- 9) The rates of manpower shall be on RRC mode applicable for 5 years.
- 10) Maximum 18 days leave in a calendar year shall be permissible to individual manpower. The leave cannot be accumulated or taken in advance. The Leave shall be granted in such a way that work is not hampered. For additional leave, suitable alternate arrangement shall be made by the bidder.
- 11) The Bidder shall be required to ensure availability of manpower and submit the attendance certified by concerned government official along with bills.
- 12) The resources deployed may be utilized by DOIT&C/GoR for other IT/Electrical activities of DOIT&C/ GoR.

S. No.	Role	Project Stages	Working Hours	Desirable Qualification and Experience	Roles & Responsibilities
1.	1 x State	Implementation	Office hours of	B.E / B.Tech (Ele/E&C/IT/CS)	Shall be responsible for overall management of the

S. No.	Role	Project Stages	Working Hours	Desirable Qualification and Experience	Roles & Responsibilities
	<b>Coordinator</b> (at DoIT&C, Jaipur)	ion, O&M, Exit Management	Government of Rajasthan/DOIT&C and on demand.	Fluency in English/Hindi 8+ years of post-qualification work experience in deployment of infrastructure / project management/ IT/Telecom/Electrical	Project and shall be posted within 21 days from the date of issue of work order till 30 days after handover of the project. The State Coordinator shall be responsible for timely commissioning & execution of the project. He will also be responsible for Liaison with RajNET, SecLAN, RSDC Operator and Transfer of assets in proper working condition etc. The State Coordinator deputed at DoIT&C, Jaipur shall be the single point of contact (SPOC).
2.	<b>7 x Zonal Coordinator</b> (at Zonal Office)	Implementation, O&M, Exit Management	Office hours of Government of Rajasthan/DOIT&C and on demand.	B.E / B.Tech (Ele/E&C/IT/CS) Fluency in English/Hindi 5+ years of post-qualification work experience in IT/Telecom/ Electrical	Shall be responsible for operations, maintenance & management in their respective zones. They will be responsible for management of any upcoming change requests from various departments and end-users.
3.	<b>33 x District Coordinator</b> (at District Office)	Implementation, O&M, Exit Management	Office hours of Government of Rajasthan/DOIT&C and on demand	BCA/ PGDCA/ Diploma in Electronics / IT/ CS/Electrical or higher in same domain Fluency in English/Hindi 2+ years of post-qualification work experience in IT/Telecom/ Electrical	Shall be responsible for operations, maintenance & management in their respective district. They will be responsible for management of any upcoming change requests from various departments and end-users.
4.	<b>3 x Helpde</b>	O&M, Exit	Office hours of	BCA/ PGDCA/ Diploma in	Shall be responsible for operations, maintenance of

S. No.	Role	Project Stages	Working Hours	Desirable Qualification and Experience	Roles & Responsibilities
	sk Engineer (at DoIT& C, Jaipur)	Management	Government of Rajasthan/DOIT& C and on demand	<p>Electronics / IT/ CS/Electrical or higher in same domain</p> <p>Fluency in English/ Hindi</p> <p>1+ years of post-qualification work experience in IT/Telecom/ Electrical</p>	Helpdesk Management. They will be responsible for management of any upcoming change requests from departments and end-users.

**ANNEXURE-4: PRE-BID QUERIES FORMAT**

{to be filled by the bidder}

**Name of the Company/Firm:** \_\_\_\_\_

Bidding Document Fee Receipt No. \_\_\_\_\_ Dated \_\_\_\_\_ for Rs. \_\_\_\_\_/-

**Name of Person(s) Representing the Company/ Firm:**

Name of Person	Designation	Email-ID(s)	Tel. Nos. & Fax Nos.

**Company/Firm Contacts:**

Contact Person(s)	Address for Correspondence	Email-ID(s)	Tel. Nos. & Fax Nos.

**Query / Clarification Sought:**

S.No.	RFP Page No.	RFP Rule No.	Rule Details	Query/ Clarification	Suggestion/

*Note: - Queries must be strictly submitted only in the prescribed format (.XLS/ .XLSX/ .ODF). Queries not submitted in the prescribed format will not be considered/ responded at all by the procuring entity. Also, kindly attach the coloured scanned copy of the receipt towards the submission of the bidding/ tender document fee.*

**ANNEXURE-5: TENDER FORM**

1) **Addressed to:**

<b>Name of the Tendering Authority</b>	Secretary & Commissioner
<b>Address</b>	DoIT&C, GoR, IT Building, Yojana Bhawan Campus, Tilak Marg, C-Scheme, Jaipur (Rajasthan)
<b>Telephone</b>	5103902, 2226055
<b>Tele Fax</b>	0141-2228701
<b>Email</b>	amit.kakkar@rajasthan.gov.in (please mention the NIB no. in the subject)

2) **Firm Details:**

<b>Name of Firm</b>				
<b>Name of CMD of the firm with email id, contact number</b>				
<b>Name of Contact Person with Designation</b>				
<b>Registered Office Address</b>				
<b>Address of the Firm</b>				
<b>Year of Establishment</b>				
<b>Type of Firm</b>	Public	Private	Partnership	Proprietary
<b>Put Tick(√) mark</b>	Limited	Limited		
<b>Telephone Number(s)</b>				
<b>Email Address/ Web Site</b>	Email:		Web-Site:	
<b>Fax No.</b>				
<b>Mobile Number</b>	Mobile:			
<b>Certification/Accreditation/Affiliation, if Any</b>				

- 3) The requisite tender fee amounting to Rs. \_\_\_\_\_/- (Rupees <in words>) has been deposited vide DD/BC/receipt no. \_\_\_\_\_ dated \_\_\_\_\_.
- 4) The requisite DOIT&C processing fee amounting to Rs. \_\_\_\_\_/- (Rupees <in words>) has been deposited vide DD/BC/receipt no. \_\_\_\_\_ dated \_\_\_\_\_.



- 5) The requisite EMD amounting to Rs. \_\_\_\_\_/- (Rupees <in words>) has been deposited vide Banker's Cheque/ DD No. \_\_\_\_\_ dated \_\_\_\_\_.
- 6) We agree to abide by all the terms and conditions mentioned in this form issued by the Empanelment Authority and also the further conditions of the said notice given in the attached sheets (all the pages of which have been signed by us in token of acceptance of the terms mentioned therein along with stamp of the firm).

Date:

Name & Seal of the firm: \_\_\_\_\_

Authorized Signatory: \_\_\_\_\_

REFR

**ANNEXURE-6: BIDDER'S AUTHORIZATION CERTIFICATE**

{to be filled by the bidder}

To,  
The Secretary & Commissioner,  
Department of Information Technology & Communications (DoIT&C),  
IT Building, Yojana Bhawan Campus, Tilak Marg,  
C-Scheme, Jaipur-302005 (Raj).

I/ We {Name/ Designation} hereby declare/ certify that {Name/ Designation} is hereby authorized to sign relevant documents on behalf of the company/ firm in dealing with NIB reference No. \_\_\_\_\_ dated \_\_\_\_\_. He/ She is also authorized to attend meetings & submit technical & commercial information/ clarifications as may be required by you in the course of processing the Bid. For the purpose of validation, his/ her verified signatures are as under.

Thanking you,

Name of the Bidder: -

Verified Signature:

Authorised Signatory: -

Seal of the Organization: -

Date: \_\_\_\_\_

Place: \_\_\_\_\_

**ANNEXURE-7: SELF-DECLARATION**

{to be filled by the bidder}

To,  
The Secretary & Commissioner,  
Department of Information Technology & Communications (DoIT&C),  
IT Building, Yojana Bhawan Campus, Tilak Marg,  
C-Scheme, Jaipur-302005 (Raj).

In response to the NIB Ref. No. \_\_\_\_\_ dated \_\_\_\_\_ for  
{Project Title}, as an Owner/ Partner/ Director/ Auth. Sign. of  
\_\_\_\_\_, I/ We hereby declare that presently our Company/  
firm \_\_\_\_\_, at the time of bidding, :-

- a) possess the necessary professional, technical, financial and managerial resources and competence required by the Bidding Document issued by the Procuring Entity;
- b) have fulfilled my/ our obligation to pay such of the taxes payable to the Union and the State Government or any local authority as specified in the Bidding Document;
- c) is having unblemished record and is not declared ineligible for corrupt & fraudulent practices either indefinitely or for a particular period of time by any State/ Central government/ PSU/ UT.
- d) does not have any previous transgressions with any entity in India or any other country during the last three years
- e) does not have any debarment by any other procuring entity
- f) is not insolvent in receivership, bankrupt or being wound up, not have its affairs administered by a court or a judicial officer, not have its business activities suspended and is not the subject of legal proceedings for any of the foregoing reasons;
- g) does not have, and our directors and officers not have been convicted of any criminal offence related to their professional conduct or the making of false statements or misrepresentations as to their qualifications to enter into a procurement contract within a period of three years preceding the commencement of the procurement process, or not have been otherwise disqualified pursuant to debarment proceedings;
- h) does not have a conflict of interest as mentioned in the bidding document which materially affects the fair competition.
- i) will comply with the code of integrity as specified in the bidding document.

If this declaration is found to be incorrect then without prejudice to any other action that may be taken as per the provisions of the applicable Act and Rules thereto prescribed by GoR, my/ our security may be forfeited in full and our bid, to the extent accepted, may be cancelled.

Thanking you,

Name of the Bidder: -

Authorised Signatory: -

Seal of the Organization: -

Date: \_\_\_\_\_

Place: \_\_\_\_\_

REFR

**ANNEXURE-8: CERTIFICATE OF CONFORMITY/ NO DEVIATION**

{to be filled by the bidder}

To,  
The Secretary & Commissioner,  
Department of Information Technology & Communications (DoIT&C),  
IT Building, Yojana Bhawan Campus, Tilak Marg,  
C-Scheme, Jaipur-302005 (Raj).

**CERTIFICATE**

This is to certify that, the specifications of Hardware & Software which I/ We have mentioned in the Technical bid, and which I/ We shall supply if I/ We am/ are awarded with the work, are in conformity with the minimum technical specifications of the bidding document and that there are no deviations of any kind from the requirement specifications.

Also, I/ we have thoroughly read the bidding document and by signing this certificate, we hereby submit our token of unconditional acceptance to all the terms & conditions of the bidding document without any deviations and assumptions.

I/ We also certify that the price I/ we have quoted is inclusive of all the cost factors involved in the end-to-end implementation and execution of the project, to meet the desired Standards set out in the bidding Document.

Thanking you,

Name of the Bidder: -

Authorised Signatory: -

Seal of the Organization: -

Date: \_\_\_\_\_

Place: \_\_\_\_\_

**ANNEXURE-9: CERTIFICATE OF CONFORMITY/ NO DEVIATION BY OEM**

{to be filled by the OEM}

To,  
The Secretary & Commissioner,  
Department of Information Technology & Communications (DoIT&C),  
IT Building, Yojana Bhawan Campus, Tilak Marg,  
C-Scheme, Jaipur-302005 (Raj).  
NIB Ref No. \_\_\_\_\_

**CERTIFICATE**

I/We \_\_\_\_\_, (name and address of the manufacturer) are established and reputed manufacturers of \_\_\_\_\_ having factories at \_\_\_\_\_ (addresses of manufacturing locations) do hereby certify that, the specifications of Items (Hardware & Software) as mentioned below:

- 1.
- 2.
- 3.

are in conformity with the minimum specifications of the bidding document and that there are no deviations of any kind from the required specification. These items are being quoted by M/s. \_\_\_\_\_, in compliance to the Technical Specifications mentioned under item no. \_\_\_\_\_, of RFP.

I/We assure that our equipment/ software will be supported and freely upgraded during the entire Contract/ Project period.

Further, to certify that these items comply with Period of end of sale, Period of end of service and Period of back to back support, updates and patches as specified in RFP.

Also, I/ we have thoroughly read the bidding document and by signing this certificate, I/we hereby submit our token of compliance of above mentioned items and clauses of RFP without any deviations.

Thanking you,

Name of the OEM: -

Authorised Signatory: -

Seal & Sign of the Organization: -

Date:

Place:

**ANNEXURE-10: COVERING LETTER – TECHNICAL BID**

{to be submitted only on Letter Head duly signed by Auth. Sign.}

To,

The Secretary & Commissioner,  
Department of Information Technology & Communications (DoIT&C),  
IT Building, Yojana Bhawan Campus, Tilak Marg,  
C-Scheme, Jaipur-302005 (Raj).

Ref: Request for Proposal (RFP) Notification dated..... No.....

Dear Sir,

1. I/We, the undersigned bidder, Having read & examined in detail, the Bid Document, the receipt of which is hereby duly acknowledged, I/ we, the undersigned, offer to supply/ work as mentioned in the Scope of the work, Technical specifications, Service Level Standards & in conformity with the said bidding document for the same.
2. I/ We hereby declare that our bid is made in good faith, without collusion or fraud and the information contained in the bid is true and correct to the best of our knowledge and belief.
3. I/ we hereby submit our token of acceptance to all the tender terms & conditions without any deviations. Hence, we are hereby submitting our Bid and offer to provide services to Purchaser for carrying out the project in accordance with your RFP.
4. Until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and your notification of award shall constitute a binding Contract between us.
5. I/We agree to abide by this RFP for a period of 90 days from the closing date fixed for submission of bid as stipulated in the RFP document.
6. I/We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in India namely "Prevention of Corruption Act, 1988".
7. I/ We undertake, for timely establishment of a local office in Jaipur (if the award is made to us) and within 3 months from the date of issue of LOI.

Or (strike out whichever is not applicable)

We have an existing office at Jaipur at the following address:

.....

8. I/We understand that the Purchaser is not bound to accept any bid received in response to this RFP.

9. In case we are engaged by the Purchaser, we shall provide any assistance/cooperation required by Purchaser, appointed auditing agencies (if any), state government officials and Other Stakeholders of the project for performing their duties with respect to this project. We understand that our non-cooperation for the same shall be grounds for termination of service.

Thanking you,

Name of the Bidder: -

Authorised Signatory: -

Seal of the Organization: -

Date:

Place:

REFR



**ANNEXURE-11: FINANCIAL CAPABILITIES**

{to be filled by the Bidder}

Turnover (Rs. In Crores)		
2012-2013	2013-2014	2014-2015

RFP

**ANNEXURE-12: PROJECT REFERENCES FOR EXPERIENCE OF BIDDER**

{Indicative Format, to be filled by Bidder & submitted on Bidders Letter Head only}

**A. For Experience**

S. No.	Name of Customer:	Contact person Name	Phone, fax and e-mail of customer	Project Location:	Value of Work Executed	Year				
						2011-12	2012-13	2013-14	2014-15	2015-16

Signed by  
Name of Authorized Signatory  
Designation  
Company Name  
Date  
(To be signed by the firm claiming experience)

Signed by  
Name of Authorized Signatory  
Designation  
Company Name  
Date  
(To be signed by the Lead Bidder/Sole Bidder)

**Note:** Please attach a copy of the work order/ completion certificate/ purchase order/ letter from the customer for each project reference.

**ANNEXURE-13: DECLARATION BY BIDDER**

{to signed by selected bidder}

I/ We declare that I am/we are bonafide/ Manufacturers/ Whole Sellers/ Sole distributor/ Authorised dealer/ dealers/ sole selling/ Marketing agent in the goods/ stores/ equipment for which I/ We have quoted.

If this declaration is found to be incorrect then without prejudice to any other action that may be taken, my/ our security may be forfeited in full and the bid, if any, to the extent accepted may be cancelled.

Name of the Bidder: -

Authorised Signatory: -

Seal of the Organization: -

Date: \_\_\_\_\_

Place: \_\_\_\_\_

**ANNEXURE-14: MANUFACTURER'S AUTHORIZATION FORM (MAF)**

{to be filled by the OEMs}

**(Indicative Format)**

To,  
The Secretary & Commissioner,  
Department of Information Technology & Communications (DoIT&C),  
IT Building, Yojana Bhawan Campus, Tilak Marg,  
C-Scheme, Jaipur-302005 (Raj).

Subject: Issue of the Manufacturer's Authorisation Form (MAF)

Reference: NIB/ RFP Ref. No. \_\_\_\_\_ dated \_\_\_\_\_

Sir,

We {name and address of the OEM} who are established and reputed original equipment manufacturers (OEMs) having factories at {addresses of manufacturing location} do hereby authorize {M/s \_\_\_\_\_} who is our {Distributor/ Channel Partner/ Retailer/ Others <please specify>} to bid, negotiate and conclude the contract with you against the aforementioned reference for the following Hardware/ Software manufactured by us: -

*{OEM will mention the details of all the proposed product(s) with their make/ model.}*

We undertake to provide OEM Warranty for the offered Hardware/ Software, as mentioned above, for 5 Years.

We hereby confirm that the offered Hardware/ Software is not likely to be declared as End-of-Sale within next 12 months from the date of bid submission.

We hereby confirm that the offered Hardware/ Software is not likely to be declared as End-of-Service/ Support within next 5 years from the date of bid submission.

We hereby confirm that we have direct back-to-back service support agreement with the bidder for the project duration of 5 years as per RFP. Dit/DOIT&C/Bidder/ GoR will be able to log a support ticket directly to our helpdesk to get telephonic/remote support directly from us, as required.

Yours faithfully,

For and on behalf of M/s (Name of the manufacturer)

(Authorized Signatory)

Name, Designation & Contact No.:

Address: \_\_\_\_\_

Seal:

REFR

**ANNEXURE-15: UNDERTAKING ON AUTHENTICITY OF EQUIPMENTS**

{To be filled by the bidder (On Rs. 100/- Non-judicial stamp paper)}

To,  
The Secretary & Commissioner,  
Department of Information Technology & Communications (DoIT&C),  
IT Building, Yojana Bhawan Campus, Tilak Marg,  
C-Scheme, Jaipur-302005 (Raj).

Reference: NIB No. : \_\_\_\_\_ Dated: \_\_\_\_\_

This has reference to the items being supplied/ quoted to you vide bid ref. no. \_\_\_\_\_ dated  
\_\_\_\_\_.

We hereby undertake that all the components/ parts/ assembly/ software used in the equipment shall be genuine, original and new components /parts/ assembly/ software from respective OEMs of the products and that no refurbished/ duplicate/ second hand components/ parts/ assembly/ software are being used or shall be used. In respect of licensed operating system, we undertake that the same shall be supplied along with the authorized license certificate with our name/logo. Also, that it shall be sourced from the authorized source for use in India.

In case, we are found not complying with above at the time of delivery or during installation, for the equipment already billed, we agree to take back the equipment already supplied at our cost and return any amount paid to us by you in this regard and that you will have the right to forfeit our Bid Security/ SD/ PSD for this bid or debar/ black list us or take suitable action against us.

Authorized Signatory

Name:

Designation:

**ANNEXURE-16: COMPONENTS OFFERED – BOM**

**(to be filled by the bidder and submitted only on Letter Head duly signed by Auth. Sign.)**

Please fill the following table for all components as mentioned in the Bill of Material and as quoted/ proposed by the bidder as a part of the overall solution. Also, please include the Compliance/ Deviation Sheet as per the details mentioned in the Chapter - Technical Specifications for all the components and for any other Item offered/ included as a part of the solution.

S. No.	Product Details (Only one make and model)	Detailed Technical Specification	OEM Details (Name, Address, E-Mail, Mobile Nos.)
1.		{Item No. xx}	
2.		{Item No. xx}	
N.		{Item No. xx}	

**SERVERS FOR SCADA SOLUTION**

S. No.	Product Details (Only one make and model)	OEM Details (Name, Address, E-Mail, Mobile Nos.)
1.		
2.		
N.		

**ANNEXURE-17: FINANCIAL BID COVER LETTER & FORMAT COVER LETTER**

{to be submitted by the bidder on his Letter head}

To,  
The Secretary & Commissioner,  
Department of Information Technology & Communications (DoIT&C),  
IT Building, Yojana Bhawan Campus, Tilak Marg,  
C-Scheme, Jaipur-302005 (Raj).

Reference: NIB No. : \_\_\_\_\_ Dated: \_\_\_\_\_

Dear Sir,

We, the undersigned bidder, Having read & examined in detail, the Bidding Document, the receipt of which is hereby duly acknowledged, I/ we, the undersigned, offer to supply/ work as mentioned in the Scope of the work, Bill of Material, Technical specifications, Service Level Standards & in conformity with the said bidding document for the same.

I / We undertake that the prices are in conformity with the specifications prescribed. The quote/ price are inclusive of all cost likely to be incurred for executing this work. The prices are inclusive of all type of govt. taxes/duties.

I / We undertake, if our bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the schedule of Requirements.

I/ We hereby declare that in case the contract is awarded to us, we shall submit the contract performance guarantee as prescribed in the bidding document.

I / We agree to abide by this bid for a period of 90 days after the last date fixed for bid submission and it shall remain binding upon us and may be accepted at any time before the expiry of that period.

Until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and your notification of award shall constitute a binding Contract between us.



I/ We hereby declare that our bid is made in good faith, without collusion or fraud and the information contained in the bid is true and correct to the best of our knowledge and belief.

We understand that you are not bound to accept the lowest or any bid you may receive.

We agree to all the terms & conditions as mentioned in the bidding document and submit that we have not submitted any deviations in this regard.

Date:

Authorized Signatory

Name:

Designation:

REFR

**Financial Bid Format**

{To be submitted by the bidder only in BoQ format (.XLS) available at eProc portal}

**BoQ-1: CAPEX - FOR SMART PANEL AND SCADA SOLUTION AND OTHER EQUIPMENT**

**BoQ-1: CAPEX - FOR SMART PANEL AND SCADA SOLUTION AND OTHER EQUIPMENT**

S	Description of item	Unit	Qty	Supply Unit Rate including all taxes and levies but excluding VAT, CST	Implementation (Installation, Testing & Commission) Unit Rate including all taxes and levies but excluding Service Tax	VAT	Service Tax	Total Cost for Supply including all taxes and levies	Total Cost for implementation including all taxes and levies	Grand Total including all taxes and levies	Total Amount in Figures	Total Amount in Words	
1	2	3	4	5	6	7	8	9	10=5+7+8	11=6+9	12=10+11	13=12 x4	14
1	SITC of OEM made wall mounted dust and vermin proof compartmentalized IP 54 protected cubical panel ( hence forth called Smart Box ) as per drawing attached made out of CRCA sheet/ IP54 ThermoPlastic material, required hardware ,duly treated for derusting in 7 tank process with DE phosphating and with powder coating on both side of panel in desired shade The panel having PU/ Neoprene rubber gasket of not less than 3mm thickness , separate detachable gland plate M.S. flat for wall mounting ,hinged door with locking arrangement for equipment/switchgear . Thickness of sheet shall not be less than 1.6 mm up to 600 mm length / width of any compartment and be of 2.0 mm above 600 mm. Load bearing structure shall be of 2.0 mm thick sheet supported by base M.S. channel if required. Side walls and cable	ONE JOB	10,000										

	alley compartments having bolted type doors with / without detachable extension type structure.																			
	<p>The above smart Panel (for monitoring, metering and control) should comprise of following items, details specifications of which are enclosed in document.</p> <ul style="list-style-type: none"> <li>1.1 Smart I/O module : 1 no</li> <li>1.2 Single Pole 10 AMP MCB : 8 no</li> <li>1.3 Double pole MCB 40 Amp : 2 no</li> <li>1.4 4 pole 40 Amp contactor with 2 no, 2 NC Add on Block : 1 no</li> <li>1.5 Din Mounted Pulse energy meters : 2 no</li> <li>1.6 Power supply input 220 volt , output 24 v DC : 1 no</li> <li>1.7 low voltage Relays : 2 no</li> <li>1.8 Circuit breaker( 2 Pole MCB ) auxiliary for controlling main UPS and Nigam Electricity supplies : 2 No</li> <li>1.9 Cat 6 cable from I/O module to RajNET Switch with required connectors</li> <li>1.10 Associate smart cables and accessories for connection to smart Link with Active devices to control, monitor and metering devices</li> <li>1.11 Din channel for installation of MCB, contactors , auxiliary relays , energy meters</li> <li>1.12 LED indicating lights ; 2 no for indication of UPS supply/ Nigam supply switch On and Off</li> <li>1.13 Push buttons if required</li> <li>1.14 Auto / Manual selectors if required</li> <li>1.15 PVC slotted channel with necessary power and control wiring of required current rating, duly ferruled and dressed with lugs etc. complete in all respect.</li> <li>1.16 Din mounted Terminal Blocks of suitable rating for connection to Nigam Electric supply, UPS supply, Outgoing MCBs, for connection to LAN switch, UPS</li> <li>1.17 Any other item required for proper operation of the system as described in specifications</li> </ul>																			
2	S&F following sizes (dia.) of ISI marked medium duty PVC conduit along with accessories in surface / recessed using saddles, clamps, fastener as required including cutting the wall, covering conduit and making good the same as required. Of either makes viz A.K.G, BEC, Precision, Polycab.																			

2	20 mm	R. Mtr.	200,000																
3	Supplying and drawing FR PVC insulated & unsheathed flexible copper conductor ISI marked (IS:694) of 1.1 kV grade and approved make in existing surface or recessed conduit/casing capping including making connections etc. as required. Of makes w/ther of RR Kabel, National, Finolux	Mtr.	200,000																
3	3x 1.5 sq.mm	Mtr.	200,000																
3	2 x 2.5 sq. mm. + 1x1.5sqmm	Mtr.	100,000																
3	2 x 6.0 sq. mm. + 1 x 2.5 sq. mm.	Mtr.	200,000																
4	Supply, Drawing and Testing of 4 pair, 24 AWG UTP Cat 6 Cable as per latest amendments of TIA /EIA 568 B.2-1 Specifications in existing MS/PVC Conduits including making connections to Information outlets and Patch Panels with ferruling at both ends for identification with necessary tools for punching, stripping, crimping and testing required of either makes Amp, Avaya, Penduit, Schneider, Legrand, Cominoscope.	Mtr.	100,000																
5	Supply, Installation, Testing and Commissioning of SCADA software for monitoring, metering and control of 10,000 Atal Seva kendras from Data center at Jaipur using RajNET network with cost of all hardware like servers etc. to operate the entire system.	ON E JOB	1																
6	Supply, Installation, Testing and Commissioning of Project monitoring software for checking the progress of above project.	ON E JOB	1																
7	Supply, Installation, Testing and Commissioning of 5 Pair STP RS 232 / 485 cable or as required at site as per specifications and recommended makes	Mtr.	100,000																
8	Supply, Installation, Testing and Commissioning of 5 Pair STP RS 232 / 485 converter in enclosed box as per specifications and recommended makes	Eac h	10,000																
<b>Total in Figures (For BoQ-1)</b>																			
<b>Quoted Rate in Words (For BoQ-1)</b>																			

**BoQ-2: COMPREHENSIVE ONSITE AMC CHARGES FOR FIVE YEAR**

BoQ-2: COMPREHENSIVE ONSITE AMC CHARGES FOR FIVE YEARS													
S. No.	Description of item	Unit	Qty	Supply Unit Rate including all taxes and levies but excluding VAT, CST	Implementation Rate including all taxes and levies but excluding Service Tax	VAT	CST	Service Tax	Total Cost for Supply including all taxes and levies	Total Cost for implementation including all taxes and levies	Grand Total including all taxes and levies	Total Amount in Figures	Total Amount in Words
1	2	3	4	5	6	7	8	9	10=5+7+8	11=6+9	12=10+11	13=12x4	14
1	Comprehensive maintenance (Preventive and Corrective Maintenance) cost and operation charges of the entire set up at all Atal Seva Kendra after final commissioning including SCADA Solution at NOC of DoIT&C Jaipur												
1.01	During Phase 1 to Final Commissioning period only	Single	1										
1.02	1 <sup>st</sup> year from date of Final Commissioning	Quarterly	4										
1.03	2 <sup>nd</sup> year from date of Final Commissioning	Quarterly	4										

1.04	3 <sup>rd</sup> year from date of Final Commissioning	Quarterly	4										
1.05	4 <sup>th</sup> year from date of Final Commissioning	Quarterly	4										
1.06	5 <sup>th</sup> year from date of Final Commissioning	Quarterly	4										
<b>Total in Figures (For BoQ-2)</b>													
<b>Quoted Rate in Words (For BoQ-2)</b>													

**BoQ-3: MANPOWER CHARGES FOR FIVE YEARS**

<b>BoQ-3: MANPOWER CHARGES FOR FIVE YEARS</b>												
S. No.	Item Description	Units	Qty.	Total Month (Duration)	Per Month base Unit Manpower Rate in INR (incl. all incidental charges and all Taxes but excl. Service Tax)	Per Month base unit Service Tax in INR	Total Per Month Manpower Rate in INR (incl. all incidental charges and all Taxes)	Total Monthly Cost in INR (incl. all incidental charges and all Taxes)	Total Manpower Cost for five years in INR (incl. all incidental charges and all Taxes) in Figures	Total Amount in Words		
1	2	3	4	5	6	7	8=(6+7)	9=(8*4)	10=9*5	11		
1	State Coordinator	Nos	1	60								
2	Zonal Coordinator	Nos	7	60								
3	District Coordinator	Nos	33	60								
4	Helpdesk Engineer	Nos	3	60								
<b>Total in Figures (For BoQ-3)</b>												
<b>Quoted Rate in Words (For BoQ-3)</b>												

**SUMMARY [CAPEX + OPEX (AMC + Manpower)]**

S. No.	Description of work (Summary)	AMOUNT(INR)
<b>(CAPEX)</b>		
1	Total of CAPEX (BoQ:1)	
<b>(OPEX)</b>		
2	Total of AMC (BoQ:2) and Manpower Charges with taxes (BoQ:3)	
<b>Grand Total</b>		
Grand Total in Figures: (BoQ:1 + BoQ:2 + BoQ:3)		
Grand Total in Words: (BoQ:1 + BoQ:2 + BoQ:3)		

**Note:**

- Above is indicative, however the quantity may increase or decrease at the time of placing the purchase order as per actual.
- Quantities mentioned in financial bid are for evaluation purpose only.
- The quantities mentioned in financial bid are indicative however, the payments shall be made on actuals.
- VAT, CST and Service Taxes shall be paid as applicable.
- The bidder has to compulsorily quote for BoQ:1 (CAPEX) & BoQ:2(Total of AMC) and BoQ:3(Manpower Charges). In case bidder fails to quote for any of this stage, the bid would be summarily rejected.
- For OPEX - BoQ:2 (Total of AMC) and BoQ:3(Manpower Charges), charges would be paid on quarterly basis.

**ANNEXURE-18: RECOMMENDED MAKES**

S. No.	Items	Recommended Makes
1	Smart Panel (OEM Made), CRCA / ThermoPlastic Material	Schneider / Siemens / L&T/ ABB/ Alstom
2	Smart IO Module	Schneider / Siemens / L&T/ ABB/ Alstom
3	MCB and communicable auxiliaries	Schneider / Siemens / L&T/ ABB/ Alstom
4	Contactors and auxiliary blocks	Schneider / Siemens / L&T/ ABB/ Alstom
5	Energy meters	Schneider / Siemens / Sqcomec / L&T/ ABB/ Alstom
6	Interposing relays	Schneider / Siemens / L&T/ ABB/ Alstom
7	Indication lights	Schneider / Siemens / L&T/ ABB/ Alstom
8	Power supply	Schneider / Siemens / L&T/ ABB/ Alstom
9	Cu Wire	RR Kabel, Finolex, Luminous(Schneider) / L&T / Polycab
10	Conduit	AKG, BEC, Precision, Polycab
11	UTP cable	Amp, Avaya, Penduit, Schneider , Legrand , Commoscope
12	Terminal blocks	Wagho, Connectwell, Elmex, Phoenix, L&T
13	SCADA	Schneider / Siemens / L&T/ ABB/ Alstom/ Certification from Original Software Developer with five (5) years Support
14	Din channel	Reputed makes
15	PVC slotted channel	Reputed makes
16	RS 232 / 485 converter	Schneider / Siemens / Other Reputed makes
17	Physical Servers	HP/ Dell/ IBM
18	Type of Servers	Rackmount Servers
19	RS 232 / 486 Cable Form	Belden / Lapp
20	Other components not listed	Reputed makes as per approval of OIC

**Note:** All the components used in manufacture of smart panel should be from one OEM for ease in future maintenance, supply and guarantee of product. Combination of Make will not be acceptable in Smart Panel.



**ANNEXURE-19: BANK GUARANTEE FORMAT**

{to be submitted by the bidder's bank only if bank guarantee submission is allowed in this bidding document}

**BANK GUARANTEE FORMAT – BID SECURITY**

(To be stamped in accordance with Stamp Act and to be issued by a Nationalised/ Scheduled bank having its branch at Jaipur and payable at par at Jaipur, Rajasthan)

To,  
The Secretary & Commissioner,  
Department of Information Technology & Communications (DoIT&C),  
IT Building, Yojana Bhawan Campus, Tilak Marg,  
C-Scheme, Jaipur-302005 (Raj).

Sir,

1. In accordance with your Notice Inviting Bid for <please specify the project title> vide NIB reference no. <Please specify> M/s. .... (Name & full address of the firm) (Hereinafter called the "Bidder") hereby submits the Bank Guarantee to participate in the said procurement/ bidding process as mentioned in the bidding document.

It is a condition in the bidding documents that the Bidder has to deposit Bid Security amounting to <Rs. \_\_\_\_\_ (Rupees <in words>)> in respect to the NIB Ref. No. \_\_\_\_\_ dated \_\_\_\_\_ issued by DoIT&C, IT Building, Yojana Bhawan Campus, Tilak Marg, C-Scheme, Jaipur, Rajasthan (hereinafter referred to as "DoIT&C") by a Bank Guarantee from a Nationalised Bank/ Scheduled Commercial Bank having its branch at Jaipur irrevocable and operative till the bid validity date (i.e. <please specify> days from the date of submission of bid). It may be extended if required in concurrence with the bid validity.

And whereas the Bidder desires to furnish a Bank Guarantee for a sum of <Rs. \_\_\_\_\_ (Rupees <in words>)> to the DoIT&C as earnest money deposit.

2. Now, therefore, we the ..... (Bank), a body corporate constituted under the Banking Companies (Acquisition and Transfer of Undertaking) Act. 1969 (delete, if not applicable) and branch Office at..... (hereinafter referred to as the Guarantor)

do hereby undertake and agree to pay forthwith on demand in writing by the DoIT&C of the said guaranteed amount without any demur, reservation or recourse.

3. We, the aforesaid bank, further agree that the DoIT&C shall be the sole judge of and as to whether the Bidder has committed any breach or breaches of any of the terms costs, charges and expenses caused to or suffered by or that may be caused to or suffered by the DoIT&C on account thereof to the extent of the Earnest Money required to be deposited by the Bidder in respect of the said bidding document and the decision of the DoIT&C that the Bidder has committed such breach or breaches and as to the amount or amounts of loss, damage, costs, charges and expenses caused to or suffered by or that may be caused to or suffered by the DoIT&C shall be final and binding on us.
4. We, the said Bank further agree that the Guarantee herein contained shall remain in full force and effect until it is released by the DoIT&C and it is further declared that it shall not be necessary for the DoIT&C to proceed against the Bidder before proceeding against the Bank and the Guarantee herein contained shall be invoked against the Bank, notwithstanding any security which the DoIT&C may have obtained or shall be obtained from the Bidder at any time when proceedings are taken against the Bank for whatever amount that may be outstanding or unrealized under the Guarantee.
5. Any notice by way of demand or otherwise hereunder may be sent by special courier, telex, fax, registered post or other electronic media to our address, as aforesaid and if sent by post, it shall be deemed to have been given to us after the expiry of 48 hours when the same has been posted.
6. If it is necessary to extend this guarantee on account of any reason whatsoever, we undertake to extend the period of this guarantee on the request of our constituent under intimation to you.
7. The right of the DoIT&C to recover the said amount of <Rs. \_\_\_\_\_ (Rupees <in words>)> from us in manner aforesaid will not be precluded/ affected, even if, disputes have been raised by the said M/s. ....(Bidder) and/ or dispute or disputes are pending before any court, authority, officer, tribunal, arbitrator(s) etc..
8. Notwithstanding anything stated above, our liability under this guarantee shall be restricted to <Rs. \_\_\_\_\_ (Rupees <in words>)> and our guarantee shall remain in force till bid validity period i.e. <please specify> days from the last date of bid submission and unless a demand or claim under the guarantee is made on us in writing within three months after the Bid

validity date, all your rights under the guarantee shall be forfeited and we shall be relieved and discharged from all liability thereunder.

9. This guarantee shall be governed by and construed in accordance with the Indian Laws and we hereby submit to the exclusive jurisdiction of courts of Justice in India for the purpose of any suit or action or other proceedings arising out of this guarantee or the subject matter hereof brought by you may not be enforced in or by such court.

10. We hereby confirm that we have the power/s to issue this Guarantee in your favour under the Memorandum and Articles of Association/ Constitution of our bank and the undersigned is/are the recipient of authority by express delegation of power/s and has/have full power/s to execute this guarantee under the Power of Attorney issued by the bank in your favour.

Date ..... (Signature) .....

Place ..... (Printed Name) .....

(Designation) .....

(Bank's common seal) .....

In presence of:

WTTNESS (with full name, designation, address & official seal, if any)

(1) .....

.....

(2) .....

.....

Bank Details

Name & address of Bank:

Name of contact person of Bank:

Contact telephone number:

### **GUIDELINES FOR SUBMISSION OF BANK GUARANTEE**

The Bank Guarantee shall fulfil the following conditions in the absence of which they cannot be considered valid: -

1. Bank Guarantee shall be executed on non- judicial stamp paper of applicable value purchased in the name of the bank.
2. Two persons should sign as witnesses mentioning their full name, designation, address and office seal (if any).
3. The Executor (Bank Authorities) may mention the power of attorney No. and date of execution in his/ her favour authorizing him/ her to sign the document. The Power of Attorney to be witnessed by two persons mentioning their full name and address.
4. The Bank Guarantee should be executed by a Nationalised Bank/ Scheduled Commercial Bank only.
5. Non – Judicial stamp paper shall be used within 6 months from the date of Purchase of the same. Bank Guarantee executed on the non-judicial stamp paper after 6 (six) months of the purchase of such stamp paper shall be treated as non-valid.
6. The contents of Bank Guarantee shall be strictly as per format prescribed by DoIT&C
7. Each page of Bank Guarantee shall bear signature and seal of the Bank and B.G. number.
8. All corrections, deletions etc. in the Bank Guarantee should be authenticated by signature of Bank Officials signing the Bank Guarantee.
9. Bank should separately send through registered post/courier a certified copy of Bank Guarantee, mentioning Bid reference, Bid title and bidder name, directly to the Purchaser at the following address:

**BANK GUARANTEE FORMAT – PERFORMANCE SECURITY (PBG)**

(To be stamped in accordance with Stamp Act and on a Stamp Paper purchased from Rajasthan State only and to be issued by a Nationalised/ Scheduled bank having its branch at Jaipur and payable at par at Jaipur, Rajasthan)

To,  
The Secretary & Commissioner,  
Department of Information Technology & Communications (DoIT&C),  
IT Building, Yojana Bhawan Campus, Tilak Marg,  
C-Scheme, Jaipur-302005 (Raj).

1. In consideration of the Department of IT&C, Govt. of Rajasthan (hereinafter called "DoIT&C") having agreed to exempt M/s .....(hereinafter called "the said Contractor(s)" from the demand, under the terms and conditions of an Work Order No.....dated .....made between the DoIT&C and .....(Contractor) for the work ..... of Security Deposit for the due fulfilment by the said Contractor (s) of the terms and conditions contained in the said work order, on production of a Bank Guarantee for Rs.....(Rupees .....only), we .....(indicate the name of the Bank), (hereinafter referred to as "the Bank") at the request of .....Contractor(s) do hereby undertake to pay to the DoIT&C an amount not exceeding Rs.....(Rupees.....only) on demand.
2. We..... (Indicate the name of Bank), do hereby undertake to pay Rs..... (Rupees.....only), the amounts due and payable under this guarantee without any demur or delay, merely on a demand from the DoIT&C. Any such demand made on the bank by the DoIT&C shall be conclusive as regards the amount due and payable by the Bank under this guarantee. The Bank Guarantee shall be completely at the disposal of the DoIT&C and We..... (Indicate the name of Bank), bound ourselves with all directions given by DoIT&C regarding this Bank Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs..... (Rupees.....only).
3. We.....(indicate the name of Bank), undertake to pay to the DoIT&C any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any Court or Tribunal or Arbitrator etc. relating thereto, our liability under these presents being absolute, unequivocal and unconditional.

4. We.....(indicate the name of Bank) further agree that the performance guarantee herein contained shall remain in full force and effective up to <DATE> and that it shall continue to be enforceable for above specified period till all the dues of DoIT&C under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till the DoIT&C certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee.
5. We .....(indicate the name of Bank) further agree with the DoIT&C that the DoIT&C shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said work order or to extend time of performance by the said Contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the DoIT&C against the said Contractor(s) and to forbear or enforce any of the terms and conditions relating to the said work order and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act or omission on the part of the DoIT&C or any indulgence by the DoIT&C to the said Contractor(s) or by any such matter or thing whatsoever which would but for this provision, have effect of so relieving us.
6. The liability of..... (indicate the name of Bank), under this guarantee will not be discharged due to the change in the constitution of the Bank or the contractor(s).
7. We..... (indicate the name of Bank), lastly undertake not to revoke this guarantee except with the previous consent of the DoIT&C in writing.
8. This performance Guarantee shall remain valid and in full effect, until it is decided to be discharged by the DoIT&C. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs..... (Rupees.....only).
9. It shall not be necessary for the DoIT&C to proceed against the contractor before proceeding against the Bank and the guarantee herein contained shall be enforceable against the Bank notwithstanding any security which the DoIT&C may have obtained or obtain from the contractor.
10. We..... (indicate the name of Bank) verify that we have a branch at Jaipur, Rajasthan. We undertake that this Bank Guarantee shall be payable at any of its branch at Jaipur, Rajasthan. If the last day of expiry of Bank Guarantee happens to be a holiday of the Bank, the Bank Guarantee shall expire on the close of the next working day.
11. We hereby confirm that we have the power(s) to issue this guarantee in your favour under the memorandum and articles of Association/ constitution of our bank and the undersigned is/ are the recipient of authority by express delegation of power(s) and has/have full power(s) to execute this guarantee for the power of attorney issued by the bank.

Dated.....day of.....For and on behalf of the <Bank> (indicate the Bank)

Signature

(Name & Designation)

Bank's Seal

The above performance Guarantee is accepted by the DoIT&C  
For and on behalf of the DoIT&C

Signature

(Name & Designation)

**ANNEXURE-20: DRAFT AGREEMENT FORMAT**

{to be mutually signed by selected bidder and procuring entity}

This Contract is made and entered into on this \_\_\_\_\_ day of \_\_\_\_\_, 2016 by and between Department of Information Technology & Communications, Govt. of Rajasthan, having its head office at IT Building Yojana Bhawan Campus, Tilak Marg, C-Scheme, Jaipur-302005, Rajasthan (herein after referred to as Purchaser/ DoIT&C) which term or expression, unless excluded by or repugnant to the subject or context, shall include his successors in office and assignees on ONE PART

And

M/s \_\_\_\_\_, a company registered under \_\_\_\_\_ with its registered office at \_\_\_\_\_ (herein after referred as the "Successful Bidder/ Supplier") which term or expression, unless excluded by or repugnant to the subject or context, shall include his successors in office and assignees on the OTHER PART.

Whereas,

Purchaser is desirous of appointing an agency for <project title> as per the Scope of Work and Terms and Conditions as set forth in the RFP document dated \_\_\_\_\_ of <NIB No \_\_\_\_\_>.

And whereas

The supplier represents that it has the necessary experience for carrying out the overall work as referred to herein and has submitted a bid and subsequent clarifications for providing the required services against said NIB and RFP document issued in this regard, in accordance with the terms and conditions set forth herein and any other reasonable requirements of the Purchaser from time to time.

And whereas

Purchaser has accepted the bid of supplier and has placed the Work Order vide Letter No. \_\_\_\_\_ dated \_\_\_\_\_, on which M/s \_\_\_\_\_ has given their acceptance vide their Letter No. \_\_\_\_\_ dated \_\_\_\_\_.

And whereas



The supplier has deposited a sum of Rs. \_\_\_\_\_/- (Rupees \_\_\_\_\_) in the form of \_\_\_\_\_ ref no. \_\_\_\_\_ dated \_\_\_\_\_ of \_\_\_\_\_ Bank and valid up to \_\_\_\_\_ as security deposit for the due performance of the contract.

Now it is hereby agreed to by and between both the parties as under: -

1. The NIB Ref. No. \_\_\_\_\_ dated \_\_\_\_\_ and RFP document dated \_\_\_\_\_ issued by DoIT&C along with its enclosures/ annexures, wherever applicable, are deemed to be taken as part of this contract and are binding on both the parties executing this contract.
2. In consideration of the payment to be made by DoIT&C to supplier at the rates set forth in the work order no. \_\_\_\_\_ dated \_\_\_\_\_ will duly supply the said articles set forth in "Annexure-I: Bill of Material" thereof and provide related services in the manner set forth in the RFP, along with its enclosures/ annexures and Technical Bid along with subsequent clarifications submitted by supplier.
3. The DoIT&C do hereby agree that if supplier shall duly supply the said articles and provide related services in the manner aforesaid observe and keep the said terms and conditions of the RFP and Contract, the DoIT&C will pay or cause to be paid to supplier, at the time and the manner set forth in the said conditions of the RFP, the amount payable for each and every project milestone & deliverable. The mode of Payment will be as specified in the RFP document.
4. The timelines for the prescribed Scope of Work, requirement of services and deployment of technical resources shall be effected from the date of work order i.e. \_\_\_\_\_ and completed by supplier within the period as specified in the RFP document.
5. In case of extension in the delivery and/ or installation period/ completion period with liquidated damages, the recovery shall be made on the basis of following percentages of value of stores/ works which supplier has failed to supply/ install/ complete: -

a) Delay up to one fourth period of the prescribed delivery period, successful installation & completion of work	2.5%
b) Delay exceeding one fourth but not exceeding half of the prescribed delivery period, successful installation & completion of work.	5.0%
c) Delay exceeding half but not exceeding three fourth of the prescribed delivery period, successful installation & completion of work.	7.5%
d) Delay exceeding three fourth of the prescribed delivery period, successful installation & completion of work.	10.0%

Note:

- i. Fraction of a day in reckoning period of delay in supplies/ maintenance services shall be eliminated if it is less than half a day.
  - ii. The maximum amount of agreed liquidated damages shall be 10%.
  - iii. If supplier requires an extension of time in completion of contractual supply on account of occurrence of any hindrances, he shall apply in writing to the authority which had placed the work order, for the same immediately on occurrence of the hindrance but not after the stipulated date of completion of supply.
  - iv. Delivery period may be extended with or without liquidated damages if the delay in the supply of goods in on account of hindrances beyond the control of supplier.
6. All disputes arising out of this agreement and all questions relating to the interpretation of this agreement shall be decided as per the procedure mentioned in the RFP document.

In witness whereof the parties have caused this contract to be executed by their Authorized Signatories on this \_\_\_\_\_ day of \_\_\_\_\_, 2016.

Signed By:	Signed By:
( ) Designation: Company:	Secretary & Commissioner Department of IT&C, Govt. of Rajasthan
<i>In the presence of:</i>	<i>In the presence of:</i>
( ) Designation: Company:	( ) Designation: Department of IT&C, Govt. of Rajasthan
( ) Designation: Company:	( ) Designation: Department of IT&C, Govt. of Rajasthan

**ANNEXURE-21: FORMAT FOR CONSORTIUM AGREEMENT**

(On non-judicial stamp paper of appropriate value to be purchased in the name of executants companies or as required by the jurisdiction in which executed)

This Consortium Agreement executed on this ..... day of..... Two Thousand ..... By:

M/s. .... a Company incorporated under the laws of..... and having its registered office at..... (hereinafter called the "Lead Member/First Member" which expression shall include its successors); and

M/s. .... a Company incorporated under the laws of ..... and having its registered office at..... (hereinafter called the "Second Member" which expression shall include its successors)

The Lead Member/First Member and the Second Member shall collectively hereinafter be called as the "Consortium Members" for the purpose of submitting a proposal (hereinafter called as "Bid") for the work of ..... (Name of work)..... for ..... (Name of project) of M/s..... to Government of Rajasthan (GoR)/ Department of Information Technology & Communications, Govt. of Rajasthan (herein after called the 'Owner' or 'DoIT&C'), DoIT&C being a Company incorporated under the Companies Act, 1956 having its registered office at C Block, Yojana Bhawan, Tilak Marg, C-Scheme, Jaipur, India (hereinafter called the "Owner/GoR/ DoIT&C") in response to GoR/ DoIT&C Request for Proposal Document (hereinafter called as "RFP" Document) Dated..... for the purposes of submitting the bid no. .... and entering into a contract in case of award for the work of ..... (Name of work).....for ..... (Name of project) of GoR/ DoIT&C.

WHEREAS, the Owner invited bids vide its RFP document no. .... for the work of ..... AND WHEREAS as per document, Consortium bids will also be considered by the Owner provided they meet the specific requirements in that regard.

AND WHEREAS the PQ bid is being submitted to the Owner vide proposal dated ..... based on the Consortium Agreement being these presents and the PQ bid with its PQ bid forms and submission documents, in accordance with the requirement of PQ document conditions and requirements have been signed by all the partners and submitted to the Owner.

AND WHEREAS Clause \_\_\_\_\_ of RFP document stipulates that a Consortium of maximum two companies, meeting the requirements stipulated in the RFP document may submit a Proposal signed by Lead Member of the Consortium Members so as to legally bind all the Members of the Consortium who will be jointly and severally liable for the performance and all obligations thereunder to GoR/DoIT&C and duly signed Consortium Agreement shall be attached to the Proposal.

NOW THEREFORE, in consideration of the mutual covenants of the members of the Consortium, the sufficiency whereof is hereby acknowledged and other good valuable consideration, we agree as follows:

1. We the members in the Consortium hereby confirm that the name and style of the Consortium shall be..... Consortium.
2. M/s. .... shall act as Lead Member for self, and for and on behalf of M/s ..... (Second Member) and further declare and confirm that we shall jointly and severally be bound unto the Owner for the successful performance of the obligations under the Request for Proposal (RFP) and resulting Contact Agreement(s) submitted / executed by the Lead Member in the event of the selection of Consortium. Further, the Lead Partner is authorized to incur liabilities and receive instructions for and on behalf of any or all partners of the CONSORTIUM.
3. That M/s \_\_\_\_\_ which is the Lead Member of the Consortium shall invest and continue to invest .... % (at least 51% to be invested by Lead Bidder) interest in the Consortium for the Lock in Period as specified in the RFP document.
4. That M/s \_\_\_\_\_, (Second Member) shall invest and continue to invest .... % interest of the Consortium for the Lock in Period as specified in the RFP document.
5. The composition or the constitution of the consortium shall not be altered without the prior consent of GoR/DoIT&C.
6. The roles and responsibilities of the lead bidder and the second member of the consortium for execution of various components/activities as defined in the RFP document shall be as under :

S.No.	Project Component/Activity	Roles & Responsibility of Lead Bidder	Roles & Responsibility of Second Member of Consortium
1			
2			
3			
4			

7. It is expressly agreed by the members that all members of the consortium shall be held equally responsible for the obligations under the RFP Document, Contract and this Agreement, irrespective of the specific roles/responsibilities undertaken by them.
8. For the purpose of this Agreement, the RFP Document and the Contract, the Lead Partner shall be the single point of contact for the GoR/ DoIT&C, shall have the overall responsibility of the management of the Project and shall have single point responsibility for ensuring that all members of the consortium are complying with the terms and conditions set out in the Contract and the RFP Document.
9. All instructions/communications from PMC to the Lead Partner shall be deemed to have been duly provided to all the members of the consortium.
10. If GoR/ DoIT&C suffers any loss or damage on account of any breach in the stipulation of the Agreements to be entered into by the Consortium Members, upon its selection pursuant to RFP (the "Agreements") or any shortfall in the performance of the Transaction or in meeting the performances guaranteed as per the RFP and the Agreements, the Consortium Members hereby jointly and severally undertake to promptly make good such loss or damages caused to GoR/ DoIT&C on its demand without any demur or contest. The Owner shall have the right to proceed against anyone of the partners and it shall neither be necessary nor obligatory on the part of the Owner to proceed against the Lead Partner before proceeding against or dealing with the other Member.
11. The financial liability of the Consortium Members to the GoR/ DoIT&C, with respect to any of the claims arising out of the performance or non-performance of obligations under the RFP and the resulting Agreement(s) shall not be limited so as to restrict or limit the liabilities of any of the Members and the Members shall be jointly and severally liable to GoR/DoIT&C.
12. It is expressly agreed by the Members that all the due payments shall be made by the Owner to Lead Bidder only.
13. This Consortium agreement shall be construed and interpreted in accordance with the laws of India and the Courts of Jaipur (Rajasthan) shall have the exclusive jurisdiction in all matters arising there under.

14. It is also hereby agreed that Lead Member shall, on behalf of the Consortium shall submit the Bid and performance Security as specified by owner in the RFP document.
15. It is further agreed that this Consortium Agreement shall be irrevocable and shall continue to be enforceable till the same is discharged by GoR/DoIT&C.
16. This Agreement shall come into force as of the date of signing and shall continue in full force and effect until the complete discharge of all obligations, concerning the carrying out of the Project, which have been taken on by the Parties under the Contract, RFP Document and under this Agreement.
17. Any other terms and conditions not in contradiction to the RFP and above mentioned terms and conditions.

IN WITNESS WHEREOF, the Members to the Consortium agreement have through their authorised representatives executed these presents and affixed common seal of their companies, on the day, month and year first mentioned above.

<p>Common Seal of ..... has been affixed in my/our Lead Member presence pursuant to Board of Director's resolution dated .....</p> <p>1) Witness</p> <p>2) Witness</p>	<p>For and on behalf of M/s..... (Lead Bidder)</p> <p>(Signature of authorized representative) Name : Designation:</p>
<p>Common Seal of ..... has been affixed in my/our Lead Member presence pursuant to Board of Director's resolution dated .....</p> <p>1) Witness</p> <p>2) Witness</p>	<p>For and on behalf of M/s..... (Second member)</p> <p>(Signature of authorized representative) Name : Designation:</p>

**ANNEXURE-22: MEMORANDUM OF APPEAL UNDER THE RTPP ACT, 2012**

Appeal No ..... of .....

Before the ..... (First/ Second Appellate Authority)

1. Particulars of appellant:

- a. Name of the appellant: <please specify>
- b. Official address, if any: <please specify>
- c. Residential address: <please specify>

2. Name and address of the respondent(s):

- a. <please specify>
- b. <please specify>
- c. <please specify>

3. Number and date of the order appealed against and name and designation of the officer/ authority who passed the order (enclose copy), or a statement of a decision, action or omission of the procuring entity in contravention to the provisions of the Act by which the appellant is aggrieved: <please specify>

4. If the Appellant proposes to be represented by a representative, the name and postal address of the representative: <please specify>

5. Number of affidavits and documents enclosed with the appeal: <please specify>

6. Grounds of appeal (supported by an affidavit): <please specify>

7. Prayer: <please specify>

Place .....

Date .....

## **ANNEXURE-23: TENTATIVE LIST OF PROJECT LOCATIONS**

### **Summary**

<b>S. No.</b>	<b>Location</b>	<b>Total Number of Locations</b>
1.	State Head Quarter	1
2.	District Head Quarter	33
3.	Gram Panchayats	9894
4.	Other Offices At District & Block Level	19
	<b>Total</b>	<b>9947</b>

### **1. Location at State Head Quarter**

<b>S. No.</b>	<b>District</b>	<b>Location</b>
1.	JAIPUR	DoIT&C, New IT Building, Yojana Bhawan C-Scheme, Jaipur

### **2. Locations at District Head Quarter**

<b>S. No.</b>	<b>District</b>	<b>Location</b>
1	AJMER	Collectorate office
2	ALWAR	Collectorate office
3	BANSWARA	Collectorate office
4	BARAN	Collectorate office
5	BARMER	Collectorate office
6	BHARATPUR	Collectorate office
7	BHILWARA	Collectorate office
8	BIKANER	Zila Parishad
9	BUNDI	Collectorate office
10	CHITTORGARH	Collectorate office
11	CHURU	Collectorate office
12	DAUSA	Zila Parishad
13	DHOLPUR	Collectorate office
14	DUNGARPUR	Collectorate office
15	HANUMANGARH	Zila Parishad
16	JAIPUR	Collectorate office
17	JAISALMER	Collectorate office
18	JALORE	Collectorate office
19	JHALAWAR	Collectorate office
20	JHUNJHUNU	Collectorate office
21	JODHPUR	Collectorate office
22	KARAULI	Collectorate office
23	KOTA	BNSK(Bharat Nirman Seva Kendra) in Panchayat Samiti at Ladpura
24	NAGAUR	Collectorate office



S. No.	District	Location
25	PALI	Collectorate office
26	PRATAPGARH	Collectorate office
27	RAJSAMAND	Collectorate office
28	SAWAI MADHOPUR	Tehsil Office
29	SIKAR	Zila Parishad
30	SIROHI	Collectorate office
31	SRI GANGANAGAR	Collectorate office
32	TONK	Collectorate office
33	UDAIPUR	Collectorate office
	<b>Total</b>	<b>33</b>

### 3. No. of Gram Panchayats at Panchayat Samities

S. No.	District	Panchayat Samities	Number of Gram Panchayats	Total Gram Panchayats in a District
1	AJMER	ARAI	21	282
2	AJMER	BHINAY	24	
3	AJMER	JAWAJA	36	
4	AJMER	KEKRI	31	
5	AJMER	KISHANGARH	31	
6	AJMER	MASUDA	34	
7	AJMER	PEESANGAN	44	
8	AJMER	SARWAR	20	
9	AJMER	SRINAGAR	41	
10	ALWAR	BANSUR	40	512
11	ALWAR	BEHROR	30	
12	ALWAR	KATHUMAR	42	
13	ALWAR	KISHANGARH BAS	34	
14	ALWAR	KOTKASIM	24	
15	ALWAR	LAXMANGARH	45	
16	ALWAR	MUNDHAWAR	43	
17	ALWAR	NEEMRANA	33	
18	ALWAR	RAJGARH	31	
19	ALWAR	RAMGARH	43	
20	ALWAR	RENI	26	
21	ALWAR	THANAGAZI	36	

S. No.	District	Panchayat Samities	Number of Gram Panchayats	Total Gram Panchayats in a District
22	ALWAR	TIJARA	44	
23	ALWAR	UMREN	41	
24	BANSWARA	ANANDPURI	29	346
25	BANSWARA	ARTHOONA	23	
26	BANSWARA	BAGIDORA	25	
27	BANSWARA	BANSWARA	36	
28	BANSWARA	CHHOTISARVAN	19	
29	BANSWARA	GANGADTALAI	24	
30	BANSWARA	GARHI	40	
31	BANSWARA	GHATOL	56	
32	BANSWARA	KUSHALGARH	38	
33	BANSWARA	SAJJANGARH	33	
34	BANSWARA	TALWARA	23	
35	BARAN	ANTAH	38	221
36	BARAN	ATRU	35	
37	BARAN	BARAN	26	
38	BARAN	CHHABRA	27	
39	BARAN	CHHIPABAROD	30	
40	BARAN	KISHANGANJ	35	
41	BARAN	SHAHBAD	30	
42	BARMER	BALOTRA	29	489
43	BARMER	BARMER	51	
44	BARMER	BAYTOO	25	
45	BARMER	CHAUHATAN	27	
46	BARMER	DHANAU	29	
47	BARMER	DHORIMANNA	28	
48	BARMER	GADRAROD	28	
49	BARMER	GIDA	23	
50	BARMER	GUDHAMALANI	31	
51	BARMER	KALYANPUR	24	

S. No.	District	Panchayat Samities	Number of Gram Panchayats	Total Gram Panchayats in a District
52	BARMER	PATODI	21	
53	BARMER	RAMSAR	25	
54	BARMER	SAMDARI	21	
55	BARMER	SEDWA	39	
56	BARMER	SHIV	27	
57	BARMER	SINDHARI	32	
58	BARMER	SIWANA	29	
59	BHARATPUR	BAYANA	45	
60	BHARATPUR	DEEG	36	
61	BHARATPUR	KAMAN	29	
62	BHARATPUR	KUMHER	36	
63	BHARATPUR	NADBAI	37	
64	BHARATPUR	NAGAR	38	
65	BHARATPUR	PAHADI	30	
66	BHARATPUR	RUPBAS	44	
67	BHARATPUR	SEWAR	33	
68	BHARATPUR	WEIR	46	
69	BHILWARA	ASIND	45	384
70	BHILWARA	BANERA	26	
71	BHILWARA	BIJAULIYA	21	
72	BHILWARA	HURDA	21	
73	BHILWARA	JHAZPUR	38	
74	BHILWARA	KOTRI	33	
75	BHILWARA	MANDAL	46	
76	BHILWARA	MANDALGARH	32	
77	BHILWARA	RAIPUR	22	
78	BHILWARA	SAHARA	28	
79	BHILWARA	SHAH PURA	38	
80	BHILWARA	SUWANA	34	
81	BIKANER	BIKANER	40	290

S. No.	District	Panchayat Samities	Number of Gram Panchayats	Total Gram Panchayats in a District
82	BIKANER	DUNGARGARH	42	
83	BIKANER	KHAJUWALA	45	
84	BIKANER	KOLAYAT	48	
85	BIKANER	LUNKARANSAR	48	
86	BIKANER	NOKHA	37	
87	BIKANER	PANCHOO	30	
88	BUNDI	BUNDI	30	
89	BUNDI	HINDOLI	42	
90	BUNDI	K. PATAN	46	
91	BUNDI	NAINWA	33	
92	BUNDI	TALERA	32	
93	CHITTORGARH	BARISADRI	23	290
94	CHITTORGARH	BEGUN	31	
95	CHITTORGARH	BHADESAR	25	
96	CHITTORGARH	BHAINSRORGARH	25	
97	CHITTORGARH	BHOPALSAGAR	19	
98	CHITTORGARH	CHHITAURGARH	39	
99	CHITTORGARH	DUNGLA	26	
100	CHITTORGARH	GANGRAR	21	
101	CHITTORGARH	KAPASAN	23	
102	CHITTORGARH	NIMBAHERA	35	
103	CHITTORGARH	RASHMI	23	
104	CHURU	BEEDASAR	22	254
105	CHURU	CHURU	35	
106	CHURU	RAJGARH	56	
107	CHURU	RATANGARH	33	
108	CHURU	SARDAR SHAHAR	50	
109	CHURU	SUJANGARH	29	
110	CHURU	TARANAGAR	29	
111	DAUSA	BANDIKUI	46	234

S. No.	District	Panchayat Samities	Number of Gram Panchayats	Total Gram Panchayats in a District
112	DAUSA	DAUSA	29	
113	DAUSA	LALSOT	49	
114	DAUSA	LAWANN	25	
115	DAUSA	MAHWA	44	
116	DAUSA	SIKRAI	41	
117	DHOLPUR	BARI	36	171
118	DHOLPUR	BASERI	41	
119	DHOLPUR	DHAULPUR	33	
120	DHOLPUR	RAJAKHERA	30	
121	DHOLPUR	SAINPAUU	31	
122	DUNGARPUR	ASPUR	26	291
123	DUNGARPUR	BICHHIWARA	37	
124	DUNGARPUR	CHIKHLEE	25	
125	DUNGARPUR	DOWDA	25	
126	DUNGARPUR	DUNGARPUR	32	
127	DUNGARPUR	GALIAKOT	25	
128	DUNGARPUR	JHOTHARI	25	
129	DUNGARPUR	SABLA	26	
130	DUNGARPUR	SAGWARA	41	
131	DUNGARPUR	SIMALWARA	29	
132	GANGANAGAR	ANUPGARH	29	336
133	GANGANAGAR	GANGANAGAR	48	
134	GANGANAGAR	GHARSANA	35	
135	GANGANAGAR	KARANPUR	35	
136	GANGANAGAR	PADAMPUR	36	
137	GANGANAGAR	RAISINGHNAGAR	47	
138	GANGANAGAR	SADULSHAHR	31	
139	GANGANAGAR	SHREE VIJAYNAGAR	29	
140	GANGANAGAR	SURATGARH	46	

S. No.	District	Panchayat Samities	Number of Gram Panchayats	Total Gram Panchayats in a District
141	HANUMANGARH	BHADRA	49	251
142	HANUMANGARH	HANUMANGARH	33	
143	HANUMANGARH	NOHAR	47	
144	HANUMANGARH	PILIBANGA	32	
145	HANUMANGARH	RAWATSAR	34	
146	HANUMANGARH	SANGARIA	26	
147	HANUMANGARH	TIBBI	30	
148	JAIPUR	AMBER	22	532
149	JAIPUR	BASSI	44	
150	JAIPUR	CHAKSU	37	
151	JAIPUR	DUDU	57	
152	JAIPUR	GOVINDGARH	45	
153	JAIPUR	JALSOO	29	
154	JAIPUR	JAMWA RAMGARH	49	
155	JAIPUR	JHOTWARA	18	
156	JAIPUR	KOTPUTLI	31	
157	JAIPUR	PAWTA	29	
158	JAIPUR	PHAGI	32	
159	JAIPUR	SAMBHER LAKE	47	
160	JAIPUR	SANGANER	30	
161	JAIPUR	SHAH PURA	33	
162	JAIPUR	VIRATNAGAR	29	
163	JAISALMER	JAISALMER	44	140
164	JAISALMER	SAM	52	
165	JAISALMER	SANKRA	44	
166	JALORE	AHORE	41	274
167	JALORE	BHINMAL	36	
168	JALORE	CHITALWANA	31	
169	JALORE	JALOR	28	

S. No.	District	Panchayat Samities	Number of Gram Panchayats	Total Gram Panchayats in a District
170	JALORE	JASWANTPURA	29	
171	JALORE	RANIWARA	33	
172	JALORE	SANCHORE	36	
173	JALORE	SAYLA	40	
174	JHALAWAR	AKLERA	31	252
175	JHALAWAR	BAKANI	25	
176	JHALAWAR	BHAWANI MANDI	27	
177	JHALAWAR	DAG	32	
178	JHALAWAR	JHALRAPATAN	29	
179	JHALAWAR	KHANPUR	38	
180	JHALAWAR	MANOHAR THANA	26	
181	JHALAWAR	PIDAWA / SUNEL	44	
182	JHUNJHUNU	ALSISAR	34	301
183	JHUNJHUNU	BUHANA	43	
184	JHUNJHUNU	CHIRAWA	28	
185	JHUNJHUNU	JHUNJHUNU	37	
186	JHUNJHUNU	KHETRI	41	
187	JHUNJHUNU	NAWALGARH	40	
188	JHUNJHUNU	SURAJGARH	38	
189	JHUNJHUNU	UDAIPURWATI	40	
190	JODHPUR	BALESAR	26	466
191	JODHPUR	BAORI	27	
192	JODHPUR	BAP	31	
193	JODHPUR	BAPINNI	29	
194	JODHPUR	BHOPALGARH	23	
195	JODHPUR	BILADA	25	
196	JODHPUR	DECHU	26	
197	JODHPUR	LOHAWAT	29	
198	JODHPUR	LUNI	45	
199	JODHPUR	MANDOR	35	

S. No.	District	Panchayat Samities	Number of Gram Panchayats	Total Gram Panchayats in a District
200	JODHPUR	OSIAN	29	
201	JODHPUR	PEEPAD SHAHAR	28	
202	JODHPUR	PHALODI	29	
203	JODHPUR	SEKHALA	25	
204	JODHPUR	SHERGARH	33	
205	JODHPUR	TINWARI	26	
206	KARALI	HINDAUN	52	227
207	KARALI	KARALI	46	
208	KARALI	MANNDARAYAL	23	
209	KARALI	NADOTI	29	
210	KARALI	SAPOTRA	34	
211	KARALI	TODABHIM	43	
212	KOTA	ITAWA	29	155
213	KOTA	KHAIRABAD	36	
214	KOTA	LADPURA	21	
215	KOTA	SANGOD	36	
216	KOTA	SULTANPUR	33	
217	NAGPUR	DEGANA	41	467
218	NAGPUR	DIDWANA	32	
219	NAGPUR	JAYAL	38	
220	NAGPUR	KHEEVSAR	33	
221	NAGPUR	KUCHAMANCITY	31	
222	NAGPUR	LADNU	32	
223	NAGPUR	MAKRANA	36	
224	NAGPUR	MAULASAR	27	
225	NAGPUR	MERTA	38	
226	NAGPUR	MUNDAWA	29	
227	NAGPUR	NAAWA	24	
228	NAGPUR	NAGPUR	35	
229	NAGPUR	PARBATSAR	36	



S. No.	District	Panchayat Samities	Number of Gram Panchayats	Total Gram Panchayats in a District
230	NAGOUR	RIYAN	35	321
231	PALI	BALI	39	
232	PALI	DESURI	24	
233	PALI	JAITARAN	33	
234	PALI	KHARCHI (M.JUNC)	48	
235	PALI	PALI	23	
236	PALI	RAIPUR	35	
237	PALI	RANI STATION	29	
238	PALI	ROHAT	23	
239	PALI	SOJAT	38	
240	PALI	SUMERPUR	29	
241	PRATAPGARH	ARNOD	29	165
242	PRATAPGARH	CHHOTISADRI	24	
243	PRATAPGARH	DHARIAWAD	38	
244	PRATAPGARH	PEEPALKHOONT	31	
245	PRATAPGARH	PRATAPGARH	43	
246	RAJSAMAND	AMET	20	207
247	RAJSAMAND	BHEEM	32	
248	RAJSAMAND	DEOGARH	19	
249	RAJSAMAND	KHAMNOR	41	
250	RAJSAMAND	KUMBHALGARH	37	
251	RAJSAMAND	RAILMAGRA	29	
252	RAJSAMAND	RAJSAMAND	29	
253	SAWAIMADHOPUR	BAMANWAS	36	200
254	SAWAIMADHOPUR	BONLI	41	
255	SAWAIMADHOPUR	CHAUTH KA BARWADA	23	
256	SAWAIMADHOPUR	GANGAPUR	38	
257	SAWAIMADHOPUR	KHANDAR	32	

S. No.	District	Panchayat Samities	Number of Gram Panchayats	Total Gram Panchayats in a District
258	SAWAIMADHOPUR	SAWAI MADHOPUR	30	
259	SIKAR	DANTA RAMGARH	46	343
260	SIKAR	DHOND	43	
261	SIKAR	FATEHPUR	29	
262	SIKAR	KHANDELA	41	
263	SIKAR	LAXMANGARH	44	
264	SIKAR	NEEM KA THANA	41	
265	SIKAR	PATAN	25	
266	SIKAR	PIPRALI	40	
267	SIKAR	SRIMADHOPUR	34	
268	SIROHI	ABU ROAD	32	162
269	SIROHI	PINDWARA	37	
270	SIROHI	REODAR	38	
271	SIROHI	SHEOGANJ	24	
272	SIROHI	SIROHI	31	
273	TONK	DEOLI	39	230
274	TONK	MALPURA	36	
275	TONK	NIWAI	41	
276	TONK	TODARASINGH	31	
277	TONK	TONK	50	
278	TONK	UNIARA	33	
279	UDAIPUR	BARGAON	25	544
280	UDAIPUR	BHINDAR	52	
281	UDAIPUR	GIRWA	36	
282	UDAIPUR	GOGUNDA	26	
283	UDAIPUR	JHADOL	31	
284	UDAIPUR	JHALLARA	22	
285	UDAIPUR	KHERWARA	45	
286	UDAIPUR	KOTRA	44	

S. No.	District	Panchayat Samities	Number of Gram Panchayats	Total Gram Panchayats in a District
287	UDAIPUR	KURABAD	24	
288	UDAIPUR	LASADIA	19	
289	UDAIPUR	MAVLI	49	
290	UDAIPUR	PHALASIYA	28	
291	UDAIPUR	RISHABHDEV	28	
292	UDAIPUR	SALUMBAR	32	
293	UDAIPUR	SARADA	34	
294	UDAIPUR	SAYARA	25	
295	UDAIPUR	SEMARI	24	

**Note:**

1. The list of 9894 Gram Panchayats is available on following link:

<http://www.rajpanchayat.rajasthan.gov.in/en-us/aboutus/panchayatdirectory.aspx>

**ANNEXURE-24: TENTATIVE UAT (User Acceptance Test) FORMATS**

<b>RFP for Establishment of SCADA based Smart Panel for Backup Power Supply at Atal Seva Kendra at Panchayat Level in Rajasthan</b>			
<b>Tentative User Acceptance Test (UAT) for Smart Panel</b>			
Unique ID		Panchayat Samiti (PS)	
Site Name (GP)		Pincode	
Address-1		STD Code	
Address-2		Contact Person	
District		Contact No.	
Consignee Code		Site Type (VSAT / MPLS)	
Site Latitude		Site Longitude	
<b>Working Status</b>			
Position		Working Status	Remark
Status of Solar UPS		Yes / No	
Status of DISCOM Power Supply		Yes / No	
Status of RajNET Connectivity		Yes / No	
Status of 1 kVA UPS		Yes / No	
Status of RajNET Switch		Yes / No	
Status of Earthing		Yes / No	
RS 232 / 485 Mapping from Solar UPS		Yes / No	
<b>Common Activities at Each Site</b>			
Common Activities at Each Site			Remark
Smart Panel - Serial Number			
Smart Panel - Installation Status		Installation Status - Yes / No Make - Working Status - Yes / No Status at SCADA Solution at Data Center Jaipur - Yes / No	
Conduit - Installation Status		Installation Status - Yes / No Make - Length in Meter Installation -	
Wires - 3x 1.5 sq.mm		Make - Meter -	
Wires - 2 x 2.5 sq. mm. + 1x1.5sqmm		Make - Meter -	
Wires 2 x 6.0 sq. mm. + 1 x 2.5 sq. mm.		Make - Meter -	
UTP CAT6 Cable		Make -	

	Meter -	
Converter - RS232 to RS 485 Port	Installation Status - Yes / No Make - Working Status - Yes / No	
RS 232 / RS 485 Wire	Make - Meter -	
Site Commissioned in Presence of DoIT&C / Gram Panchayat Personnel		
Bidder Representative Signature	DoIT&C Representative Signature with Seal (if available)	
Name		Name
Designation		Designation
Date		Date

**Note:** This is tentative UAT format, Final format will be submitted to the Bidder after given the work order.

<b>RFP for Establishment of SCADA based Smart Panel for Backup Power Supply at Atal Seva Kendra at Panchayat Level in Rajasthan</b>			
<b>Tentative User Acceptance Test (UAT) for SCADA Hardware</b>			
Make offered -			
Model Offered -			
1	Form Factor	Rack Mount 4 U	
2	Processor Speed	Intel/AMD, 64 bit E7 series or Equivalent, 10 Core processor, Core Frequency minimum 1.9GHz, Memory Speed Minimum 1066 MHz, L3 Cache Minimum 22 MB Shipped with 2 Processors scalable to 4 processors	
3	Random Access Memory (RAM)	48 GB memory scalable at least up to 256 GB, using DDR-3 Registered DIMM operating up to 1066 MHz or higher with Advanced ECC with multi-bit error protection supporting technologies of memory mirroring and online spare capacity.	
4	Available Disk Space	2 TB with integrated SAS RAID controller supporting of RAID - 0, 1 and 5 with minimum 512 MB cache for RAID operations and minimum 15000 RPM	
5	Disk bays	Minimum 8 hot-swap SAS HDD	
6	Graphics Adapter	Including 256 MB of VRAM or Higher	
7	Rackmount Server Connectivity to SAN	Should have 1 * 8/4 Gbps Dual port Fiber Channel HBA internal to the Rackmount Server.	
8	Ports	2 USB ports (Ver 2.0); 4 RJ-45 Ethernet; keyboard and mouse;	
9	Network LAN Ports	Minimum 4 x 1 G and 2 x 10 G Network Ports	
10	Power supply	Redundant Power supply (Hot Plug)	
11	Industry Standards	Industry Standards: The server must be compliant with following international standards: PCIE 2.0 Compliant,	

		WOL Support, Microsoft® Logo certifications, USB 2.0 Support, however ACPI 2.0. Compliant / Energy certification from any international certifying authority is preferable	
1 2	.NET Framework version	Version 4.0	
1 3	Java Runtime Environment	Required	
1 4	Project DBF Add-in for Excel	Required	
1 5	Database Support and Licenses	Microsoft SQL/ MySQL (Enterprise Edition)/ Oracle/ Any other non-proprietary database with 5 years on-site support.	
1 6	OS Support and Licenses	Should support Microsoft Windows, VMware ESXi Server, Red Hat Enterprise Linux including Microsoft Office and Antivirus Security Software.	
1 7	Warranty	5 years comprehensive warranty.	
Bidder Representative Signature		DoIT&C Representative Signature with Seal (if available)	
Name		Name	
Designation		Designation	
Date		Date	

**Note:** This is tentative UAT format, Final format will be submitted to the Bidder after given the work order.

<b>RFP for Establishment of SCADA based Smart Panel for Backup Power Supply at Atal Seva Kendra at Panchayat Level in Rajasthan</b>			
<b>Tentative User Acceptance Test (UAT) for SCADA Software</b>			
Make offered -			
Model Offered -			
1	Energy And Power Management Software – General ( Details as per RFP)		
2	Energy And Power Management Software – Real Time Monitoring ( Details as per RFP)		
3	Energy And Power Management Software – Alarm And Event Annunciation ( Details as per RFP)		
4	Energy And Power Management Software – Data Analytics And Visualization ( Details as per RFP)		
5	The System Shall Provide A Web-Enabled Reporting Platform ( Details as per RFP)		
6	Energy And Power Management Software – Technical Infrastructure And System Administration Capabilities ( Details as per RFP)		
Bidder Representative Signature		DoIT&C Representative Signature with Seal (if available)	
Name		Name	
Designation		Designation	
Date		Date	

Note: This is tentative UAT format, Final format will be submitted to the Bidder after given the work order.

RFP