



JODHPUR VIDYUT VITRAN NIGAM LTD. JODHPUR

TN-46

“Installation of modem with SIM on 11 KV feeders (A) on (Capax + opex) Modal basis in IPDS towns (B) on opex Modal basis in RAPDRP town and Rural area, and Integration of all meter data into our existing Billing System in Jodhpur Discom” under TN-46.



प्रभास्मि शशि सूर्ययोः

Purchaser

JODHPUR Vidyut Vitran Nigam Limited
(JDVVNL), JODHPUR

Office of the Superintending Engineer (M&P-ZPC), JdVVNL, Jodhpur

Email: semppcju@gmail.com
Phone: 0291-2970135

NOTICE INVITING TENDER

Reference No: TN-46

Jodhpur Vidyut Vitran Nigam Ltd. ["JdVVNL"/ "Jodhpur Discom"] has invited bids from competent Agency for work of "Installation of modem with SIM on 11 KV feeders (A) on (Capax + opex) Modal basis in IPDS towns (B) on opex Modal basis in RAPDRP town and Rural area, and integration of all Meter data in to our existing Billing system in Jodhpur Discom" under TN-46

The contract period shall be initially for a period of **Six years** (1 for installation + 5 for AMC) from the date of work commencement. The contract period may further be extendable for further, as per mutual agreement & RTPP Rules-2013.

Mode of Bid Submission	Online through e-Procurement/e-Tendering system at https://eproc.rajasthan.gov.in
Tendering Authority	Superintending Engineer (M&P-ZPC) Jodhpur Vidyut Vitran Nigam Ltd. New Power House, Jodhpur-342003,
Estimated cost of Project	Rs. 84684600.00
Contact Persons	(Er. Imtiyaz Baig) Superintending Engineer (M&P-ZPC) Jodhpur Discom, Jodhpur Phone: 0291-2970135
Submission of Banker's Cheque/ Demand Draft in favour of AO (DC), JdVVNL, Jodhpur against Tender Document Fee (including GST@ 18%) . The bankers cheque / Demand Draft / copy of bank statement showing payment of Rs. 2950/- will have to be furnished with the Bid.	Rs. 5900.00/- (Rupees Five Thousand Nine Hundred Only with 18% GST) OR Rupees 2950/- (Rupees Two Thousand Nine Hundred Fifty Only with 18% GST) for MSME situated in Rajasthan classified under Section 7(1) of MSME Development Act 2006.
Submission Demand Draft for e-Tender Processing Fee in favour of M.D, RISL payable at Jaipur (non-refundable)	Rs. 1180/-(with 18% GST)
Submission of Bid Security through DD / Bankers Cheque in favour of AO (DC), JdVVNL or in the form of BG in the name of SE (M&P-ZPC), JdVVNL, Jodhpur (BG on stamp paper of 0.25% of BG amount or maximum up to Rs. 25,000/-).	Rs. 1693692.00 OR Rs. 423423.00 for MSME situated in Rajasthan classified under Section 7(1) of MSME Development Act 2006.

Submission Date for Banker's Cheque/ Demand Draft / BG for Tender Fee, BID SECURITY, and Processing Fee.	The deadline for submission of these instruments is Bid Submission Deadline. The Bidder can submit these instruments before the deadline. The Bidder has to submit the same in hard copy and attach the scan of receipts with online bids.
Publishing Date/Time	07.10.2019 at 16.00 Hrs.
Document Download / Sale Start Date	10.10.2019 at 13.00 Hrs. onwards at https://eproc.rajasthan.gov.in ,
Document Download / Sale End Date/Time	05.11.2019 at 13.00 Hrs
Bid submission Start Date/Time & Place of submission of bids	10.10.2019 at 13.00 Hrs onwards at https://eproc.rajasthan.gov.in
Bid submission Last Date/ Time	05.11.2019 at 13.00 Hrs.
Last date & Time for Submission of Banker's Cheque/ Demand Draft/BG for Tender Fee, EMD, and Processing Fee	05.11.2019 at 13.00 Hrs.
Date, Time and Place of Opening of Technical Bids.	06.11.2019 at 15.00 Hrs. on https://eproc.rajasthan.gov.in
Date & Time of Opening of Financial Bids	To be intimated later
Websites for downloading Tender Document, Corrigendum's, Addendums etc.	www.energy.rajasthan.gov.in / Jdvvn1 www.eproc.rajasthan.gov.in
Bid Validity & BID SECURITY Validity	Bid Validity: 90 Days from the date of Financial Bid Opening . BID SECURITY Validity: 180 days from date of Technical Bid opening. If required, the same shall be requested to be extended.

NOTE:

1. The bid shall only be submitted through online tendering system of www.eproc.rajasthan.gov.in.

2. Bidders who wish to participate in this tender will have to register on <https://www.eproc.rajasthan.gov.in> . To participate in online tenders, Bidders will have to procure Digital Signature Certificate (Type – II or Type – III) as per Information Technology Act-2000 using which they can sign their electronic bids. Bidders can procure the same from any CCA approved certifying agency i.e. TCS, Safe crypt, Ncode etc. or they may contact e-Procurement Cell, Department of IT & C, Government of Rajasthan for future assistance. Bidders who already have a valid Digital Certificate need not to procure a new Digital Certificate.

Contact No. 0141 – 4022688 (Help desk of RISL - 10.00 AM to 6.00 PM on all working days)

E-mail: eproc@rajasthan.gov.in

Address: e-Procurement Cell, RISL, Yojana Bhawan, Tilak Marg, C-Scheme, Jaipur.

3. Bidders should go through the website <https://www.eproc.rajasthan.gov.in> should refer to the website and go through the link “Help For Contractors”, “Information About DSC”, “FAQ” and “Bidders Manual Kit” and **Section-I** to know the process for submitting the electronic bids at the website.
4. The ‘Instructions to bidders’ and other terms and conditions of this tender pertaining to the bidding process generally follow the guidelines of e-tendering system of the government of Rajasthan, available at URL <https://www.eproc.rajasthan.gov.in>. However, wherever there is any anomaly between the conditions referred to in this tender document and the GoR e-tendering system, the later shall be final.
5. The complete tender document has been published on the websites, www.energy.rajasthan.gov.in/JdVVNL and <https://www.eproc.rajasthan.gov.in> for the purpose of downloading.
6. The downloaded tender document shall be considered valid for participation in the bid process subject to submission of required Tender fees, e-Tender Processing Fee and BID SECURITY as mentioned in the NIT Section table. A copy of receipt of the tender fees, e-Tender Processing Fees & BID SECURITY must be enclosed along with the Technical bid/proposal failing which the bid will be summarily rejected. The last date of submission of these Original instruments is mentioned in the NIT Table. The Bidder must take due care in submitting the instruments and collecting receipts from Jodhpur Discom so that the Originals are submitted in hard copy and receipt scans are uploaded with the Technical Bid, before the Bid Submission Deadline.
7. All the communication/ correspondence including the bid document (Technical and Financial Bid) should be signed digitally by the Bidder. The Technical and Financial Bid

which is uploaded on eproc portal must be signed and stamped on each relevant page by the designated Authorized Representative of the bidder. The name, designation and authority of the designated Authorized Representative of the Bidder shall be stated in the Bid.

8. No contractual obligation whatsoever shall arise from the tender document/bidding process unless and until a formal contract is signed and executed between the purchaser and the successful bidder(s).
9. JdVVNL disclaims any factual/ or any other errors in this tender document (the onus is purely on the individual bidders to verify such information) and the information provided herein are intended only to help the bidders to prepare a logical bid.
10. Bids will be considered only in the prescribed manner. Bids not submitted in the prescribed format will be summarily rejected without further evaluation.
11. Copies of various documents to be enclosed along with the bids must be legible and be self-attested by the authorized signatory with official seal. Claims made by bidder related to the project experience and other requirements shall be considered only when appropriate supporting documents are provided.
12. The Bids can be submitted up to date and time given as specified in the NIT Table.
13. The complete bidding process is defined in the tender document.
14. In case, a bidder imposes conditions which are in addition or at variance or in conflict with the terms and conditions as specified in this tender document, all such bids will be summarily rejected.
15. Tendering Authority reserves the complete right to accept or reject in part or full any or all the bids without assigning any reasons whatsoever. No further discussion/ interaction will be held with the bidders whose bids have been disqualified/ rejected by the tendering authority.
16. In case, a dispute arises with regard to interpretation/ omission/ error in this tender document, bid submitted, other documents; the decision of SE (M&P-ZPC), JdVVNL, JdVVNL will be final and binding upon the bidders.
17. Interested bidders may obtain further information from the office of :-

**The Superintending Engineer (M&P-ZPC),
Jodhpur Vidyut Vitran Nigam Ltd,
New Power House,
Jodhpur – 342003.**

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SECTION 1: INTRODUCTION AND OBJECTIVE

1.1. INTRODUCTION

Jodhpur Vidyut Vitran Nigam Limited (JdVVNL/Jodhpur DISCOM) is engaged in distribution and supply of electricity in 10 districts of Rajasthan, namely Jodhpur, Pali, Sirohi, Jalore, Barmer, Jaisalmer, Bikaner(DC), Churu, Hanumangarh, Sriganganer.

There are number of 33 / 11 KV substations spread across Discom from where 4-8 Nos. of 11KV feeders are emanating for supply electricity to various areas, each feeder is installed with HT TVM meters of different makes. These meters have majorly optical port and some have 485, RS-232/RJ11 communication ports apart from optical ports. Most of meters have DLMS protocol and some of meters are on proprietary protocols.

At present approx. 270 Nos. 11 kv feeders in IPDS town & approx. 40 Nos. 33/11 KV GSS may be commissioned in IPDS Town @ 20 per year & 200 feeders is in upcoming in two years @ 100 per year. Presently no one feeder equipped with Modem/DUC. So that total nos. modem to be install on feeders is 470 Nos & 5 year AMC from work execute. The grantee period of manufacturer not considered in 5 year AMC Period, AMC would be start after one year of installation period or the grantee period of manufacturer whichever is higher. If any equipment found defective in installation period then replace by bidder without any cost.

In RAPDRP town 463 Nos. feeders already equipped with DCU/Modem under RAPDRP scheme , out of 1226 nos. & 763 Nos. of feeder not equipped with Modem/DCU & approx. 40 Nos. 33/11 KV GSS may be commissioned in RAPDRP Town @ 20 per year & 200 feeders is in upcoming in two years @ 100 per year. So that total nos. modem to be install on feeders is 963 Nos. & 5 year AMC from work execution. The grantee period of manufacturer not considered in 5 year AMC Period, AMC would be start after complication of one year of installation period or the grantee period of manufacturer whichever is higher. If any equipment found defective in installation period then replace by bidder without any cost.

In Rural area approx. 10834 Nos. 11 KV feeder exist & Modem installation work on Rural feeder awarded to RECTPCL, under this work order 7215 nos. of rural feeder equipped with modem out of 9090 feeder & remaining work under process by firm on Rural feeder approx. & 220 Nos. 33/11 KV GSS may be commissioned in Rural area @ 110 per year & 1100 Nos. feeders is in upcoming in two years @ 550 per year. So that total nos. modem to be install on feeders is 2844 Nos. with one year Installation Period & 5 year AMC from work execution. The grantee period of manufacturer not considered in 5 year AMC Period, AMC would be start after complication of one year of installation period or the grantee period of manufacturer whichever is higher. If any equipment found defective in installation period then replace by bidder without any cost.

Proposed work is as under:-

S.No.	Area	Feeders covered for modem installation
1.	IPDS	470 Nos.
2.	RAPDRP	963 Nos.
3.	Rural	2844 Nos.
Total		4277 Nos.

1.2. General details on geographical spread of JDVVNL:

S.No.	Description	Nos.
1.	Number of Zones :- Jodhpur, Bikaner, Barmer	3
2.	Number of Circles Jodhpur City Circle, Jodhpur District Circle, Pali, Sirohi, Jalore, Barmer, Jaisalmer, Bikaner, Churu, Hanumangarh, Sriganganer.	11

1.3. OBJECTIVES:

1. Feeder Monitoring System for 11 KV selected feeder meters spread across Jodhpur DISCOM for acquisition of various information as described in the specifications.
2. The scope covers the monitoring of all sub-station feeders and reading the Meters with the help of Installation of systems as per latest technologies available in market.
3. The system shall be meant for Data Logging of various essential parameters of selected Incoming & Outgoing 11KV feeders from 33/11 KV sub stations installed in the field.
4. To capture following information Online information from 11 KV feeders:
 - a. Active Energy Cumulative FWD
 - b. Active Energy FWD
 - c. Active Energy Cumulative REV
 - d. Active Energy REV

- e. Reactive Energy Cum FWD
 - f. Reactive Energy Cum REV
 - g. Apparent Energy Cum FWD
 - h. Apparent Energy Cum REV
 - i. Average Power Factor FWD
 - j. Average Power Factor REV
 - k. Frequency
 - l. feeder wise outage / downtime with total power availability on HOURS
 - m. Energy balancing at sub stations
 - n. Daily peak loads feeder.
 - o. Peak Load of the Substation.
 - p. Daily Log sheets
2. To categories the above information in Subdivision wise, Division wise, Circle wise and MLA constituency wise.
3. To develop an online system having dashboard to display the various information to be customized as per Discom requirement.
- I. To develop a graphical dashboard on Rajasthan Map on the basis of Geo references of each Sub stations / MLA constituency. While clicking on any Substation, the information pertaining to the substation should be available on the MAP.
 - II. This system shall be useful to make the information available online for various stake holders including public representatives including public portal, on near real time basis for power supply monitoring, alerts, meter data analysis, information dissemination and energy audit.

1.4. Broad Scope of work

- 1.4.1 Engineering, Supply, install, operate and maintain the required system in phased manner on near real-time basis to the central servers. **(In the scope the supply of meters & metering equipment are not included).**
- 1.4.2 To develop a system for display of the information on Central Server /Mobile App on near real time basis as per Industry Standard.

- 1.4.3 Integration of the proposed System is to be done with existing feeder Monitoring System, Revenue Management System, customer care center etc. on Industry practice. The first payment shall be released only after satisfactory integration with the existing system.
- 1.4.4 To develop a Web Portal for display of information with ease to use Dashboard. The system shall be capable to customize the Dashboard and able to add new output reports feasible on the basis of input from Substation during currency of contract without any additional cost.
- 1.4.5 To provide connectivity for communication of feeders to central Server and Web Portal.
- 1.4.6 To host the entire system on a cloud environment or at a tier 4 or above data centre to be communicated to Jodhpur DISCOM. One backup system shall be installed at Discom Headquarter.
- 1.4.7 Supply, install, operate and maintain the required IT infrastructure at DISCOM level as backup system. The required hardware and software for a secure, reliable and high available system shall be designed and deployed. The system shall be accessible over internet irrespective of type of connectivity.
- 1.4.8 The system shall be scalable to accommodate the information of 500 nos. of feeders.
- 1.4.9 The system shall use an Electronic media between substation meter and Data Centre having store and transmission facility of data. The capacity of storage shall be minimum 30 days data with suitable battery backup. Any alternate arrangement as per bidder design meeting the requirement is also acceptable.
- 1.4.10 Provide, install, operate and maintain the required / feasible connectivity network like 2G/3G/4G/5G/GPRS/GSM/ whichever suitable for high speed network communication etc. at the slave location and suitable connectivity at the central server level.
- 1.4.11 Design, develop, install and implement the required web based software solution for data acquisition, data aggregation, data storage in common format, data dissemination, data display on responsive website, data analysis and depiction in

- form of dashboards, graphs and MIS reports etc., provision for automated SMS alerts and email.
- 1.4.12 The bidder change the faulty equipment without cost in Grantee period .The AMC will start after complete the installation period or Expiry of Grantee period of manufacturer, whichever is higher.
- 1.4.13 The web based software solution shall be built on service oriented architecture for data exchange between various other existing and future IT systems of the DISCOM.
- 1.4.14 Provide the required manpower for operation, maintenance and Updating of the system implemented.
- 1.4.15 Impart the required training to DISCOM officers for operation and usage of the system.
- 1.4.16 During currency of contract the system shall also be installed at any new Substation or feeder if installed/ commissioning future as intimated by the Discom.
- 1.4.17 Transfer the infrastructure (as detailed in specification) supplied and installed along with the required licences to JDVVNL at the end of the contract period. The infrastructure at Cloud shall not be transferred.
- 1.4.18 If technology of said work will change or upgrade within tender work time period then the bidder may be add new technology as per Discom Requirement.

SECTION 2: QUALIFICATION REQUIREMENTS (QR)

The minimum requirement with respect to experience, capability and other particulars of the Bidder to be considered eligible for participation in the bid for the proposed work. The BIDDER shall become eligible to bid on satisfying the following “Pre-Qualification Requirements” and on production of the required documentary evidences along with the Tender.

S.No.	Qualification Criteria	Supporting Documents Required
(a)	General Qualification Criteria	
1.	<p>The Bid may be submitted by Single Bidders OR by a valid consortium of maximum Two members as detailed here under.</p> <p>A. The single bidder may be</p> <p>I. Distribution Franchise</p> <p>OR</p>	<ul style="list-style-type: none"> Self-attested copy of Certificate of Incorporation, MOU, Memorandum of Association (MoA) and Article of Association (AOA). And other relevant certificate to substantiate the same.

	<p>II. Distribution Licensee OR III. Meter Manufacturer IV. IT based company V. Automation Company</p> <p>The lead Bidder shall be a Company incorporated under the Companies Act 1956/ 2013.</p> <p>[In case of consortium both the lead bidder and consortium partner need to satisfy this condition]</p> <p>An Information Technology Services Company / Automation Company registered in India as per Indian Companies ACT and should have been providing services to power utilities in India for the past 3 years.</p>	
2.	<p>The bidder (Single) / Lead bidder (JV) shall have experience of providing System Integration Services involving supply, deployment of Hardware, Software Development & Manpower to power utilities in India in any one of services like Meter Data Downloading & generating Reports, Meter Data Management, Meter Data Acquisition in last 3 years.</p> <p>Experience of bidder as Consortium Member or sub contract Works shall not be considered</p>	<ul style="list-style-type: none"> • Proof of Work Orders & Performance Certificates to be submitted.
3.	<p>The Lead bidder should be ISO 9001:2008 (Quality Management System)</p>	<p>Valid Certificates should be submitted.</p>
4.	<p>The bidder shall not be blacklisted by any Central/State Govt or any entity controlled by them under any Central/State Govt act/rule as on date of bidding.</p> <p>[In case of consortium both, the lead bidder and consortium partner need to satisfy this condition]</p>	<p>Self-declaration for no blacklisting on appropriate non judicial stamp paper duly notarized.</p>
5.	<p>The bidder should possess minimum Class 'B' or above electrical contractor licenses issued by Electrical Inspectorate of Govt. of Rajasthan. *</p> <p>* If the above certificate is not furnished at the time of bidding, bidder may furnish Bank Guarantee of Rs. 5.0 Lacs with undertaking to</p>	<p>Valid certificate to be submitted</p> <ul style="list-style-type: none"> • Copy of Self Attested Class 'B' Electrical or above electrical contractor licenses issued by Electrical Inspectorate of Govt. of Rajasthan.

	<p>furnish the above License within 2 months from the date of award of contract. However the date of Implementation schedule shall not be extended on these grounds failing which said BG shall be invoked.</p> <p>[In case of consortium any one of the partner may satisfy this condition]</p>	<p>In Case the Class 'B' Electrical or above electrical contractor license are not available with the bidder, the bidder shall furnish an undertaking along with Bank Guarantee of Rs. 5 Lacs (proforma enclosed) that the same shall be furnished within 2 months from the date of award of contract.</p>
(b)	Financial Qualification Criteria	
1	<p>Bidder shall have minimum total turnover of Rs. 35.00 Crores during the last 3 (three) consecutive financial years ending on March 31, 2019</p> <p>In case of consortium / Joint Venture, the lead bidder should meet minimum 75% of the Turnover requirement.</p>	<p>• Copy of audited statement of account (PL account & balance Sheet) duly certified by CA along with CA certificate stating the turnover and net worth shall be submitted as proof.</p>
2	<p>The bidder should have a minimum net worth of at least 12 Crore during financial year ending on 31-03-2019.</p> <p>In case of consortium / Joint Venture, the lead bidder should meet minimum 75% of the net worth requirement.</p>	
(c)	Technical Qualification Criteria	
For Distribution Franchisee only		
1	<p>Bidder shall be a Distribution Franchisee in India/abroad for last 3 (three) consecutive years immediately preceding the Bid Due Date.</p>	<p>Original certificate issued from the concerned authority of the utility/board/ department certifying satisfactory performance of the Bidder as Distribution Franchisee in each of the last 3 (three) consecutive years preceding the Bid Due Date and mentioning the number of Consumers and type of services satisfactorily handled in each of the 3(three) consecutive years immediately preceding the Bid Due Date.</p>
OR		

For Distribution Licensee only		
1	Bidder shall have a power distribution license from an appropriate commission under Section 14 of Electricity Act 2003 of India or any other country as per appropriate act/ policy of the concerned country, for last 3 (three) consecutive years immediately preceding the Bid Due Date.	Copy of power distribution license issued by Central/ State authority duly certified by Authorised Signatory of Bidder. Bidder should also submit self-declaration on letter head signed by authorized signatory of the Bidder and Bidder's statutory auditor.
OR		
For Meter Manufacturer only		
1	The Bidder shall be a meter manufacturer in India/ abroad having manufactured at least 1,00,000 (one lakh) electronic meters in last financial year.	Original certificate issued from the concerned authority of the company/ board certifying the number of meters manufactured in the last financial year.
2	The Bidder must have successfully Supplied / implemented AMR or AMI projects in an Indian / Global Power Distribution Utility in the last 5 years. Project should include the Supply / implementation of AMR system comprising Meters, Modem, LTCT, meter box or Composite Unit comprising of meter, inbuilt modem, LTCTs etc. with communication system through GPRS and MDAS/HES application.	Individual client's PO/WO/LOI/ LOA/ Contract/ Certification on client letterhead. Performance Certificate, Supply Certificate / MRC / Excise Invoice and contact details of client needs to be submitted.

Pre-Qualification Requirement for Cloud Service Provider:

- Bidders may take the services of below service provider either as a partner or Sub-Contractor.
- Role and Responsibility of each of Sub-contractor shall be defined in Bid Response.

S. No	Qualification Requirement	Supporting Document Required
Cloud Service Provider		
1	Company Registration: The OEM shall be a private / public Company registered under Companies Act 1956 / 2013.	Certificate of Incorporation and Registration needs to be submitted along with the bid.
2	Quality Certification: The OEM shall have ISO 9001:2008 certifications.	A valid ISO certificate on or before the date of publication of the tender.

3	Must be Empanelled cloud service provider by MEITY (Ministry of Electronics and Information Technology for Public cloud, Virtual Private Cloud and Community Government Cloud.	Valid Certificates
4	Have at least 3 data centres in at least two different seismic zones in India.	Self-Certification
5	<p>Quality Certifications</p> <ul style="list-style-type: none"> • ISO/IEC 27001 certified for Information Security with well- planned and structured escalation procedures • Certified ISO/IEC 20000-1 for DC service quality and delivery • Certified for minimum of Tier III level against TIA-942 specifications • Must have Government Community Cloud running audited and successfully audited by STQC. 	Valid Certificates
6	Have at least 5 different Internet Carrier Terminating	Self-Certification
7	Be able to provide Hybrid Cloud services, i.e. a combination of Bare Metal / Private Cloud and Public Cloud infrastructure from each availability zone	Self-Certification
8	The cloud service provider must have at-least two (2) work orders from Central Government / State Government / PSU / Semi- Government of India	Client's PO / WO / LOI / LOA / Contract / Certification on client Letter head / Performance certificate and contact details of clients.

NOTE:-

1. In case of non-furnishing of requisite document along with the bid the bid will be considered as non-responsive and bid will be summarily rejected.

SECTION 3: INSTRUCTION TO BIDDERS**1. GENERAL INSTRUCTIONS**

- 1.1. The Jodhpur Vidyut Vitran Nigam Ltd or any authority designated hereinafter called 'OWNER' will receive bids in respect of services as set forth in the accompanying specification.
- 1.2. All bids shall be prepared and submitted in accordance with these instructions.
- 1.3. The Bidder, in his own interest is requested to read very carefully these instructions and the terms and conditions as incorporated in General Conditions of Contract and Technical specification before filling the Bid proposal form.
- 1.4. If the bidder has any doubt as to the meaning of this specification or any portion thereof, he shall before submitting the Bid, may refer the same to the Superintending Engineer(M&P-ZPC), Jodhpur Vidyut Vitran Nigam Limited, Jodhpur in writing well in time before the specified date of opening of Bids so that such doubts may be clarified.
- 1.5. Submission of the Bid shall be deemed to be the conclusive proof of the fact that the Bidder has acquainted himself and is in agreement with all the instructions, terms and conditions governing the specification, unless otherwise specifically indicated/ commented by him in his Bid.
- 1.6. Bids submitted after the time and date fixed for receipt of bids as set out in the invitation to Bid shall be rejected and returned to the bidders.
- 1.7. The works referred herein shall cover the entire scope of the proposal which include commissioning and erection of equipment including the successful completion of performance and guarantee tests which the owner desires to get executed.

2. INTRODUCTION

Jodhpur Vidyut Vitran Nigam Limited (JDVVNL/Jodhpur DISCOM) is engaged in distribution and supply of electricity in 10 districts of Rajasthan, Jodhpur, Pali, Sirohi, Jalore, Barmer, Jaisalmer, Bikaner, Churu, Hanumangarh, Sriganganer.

3. FIELD CONDITIONS

- 3.1 The bidder may in its own interest, before submitting the bid, inspect and examine the area involved and satisfy it regarding the existing system.
- 3.2 For ascertaining the existing Feeder Metering condition the Agency may contact the Superintendent Engineer (O&M/M&P/IT) of Jodhpur DISCOM.
- 3.3 No claim for change in the bid or terms & conditions of the contract shall be entertained on the ground that the conditions are different than what were contemplated.

4. SUCCESSFUL IMPLEMENTATION AND GOOD PERFORMANCE

Any work if specifically not mentioned but reasonably implied for the successful implementation and good performance of the proposed work is deemed to be included and is to be executed within the ordered price.

5. PREPARATION OF BIDDING DOCUMENT**5.1. EARNEST MONEY DEPOSIT (EMD):**

- 5.1.1. The Bidder shall furnish EMD as per the prescribed in NIT section.
- 5.1.2. The Bidder shall **Deposit/submit** the EMD in prescribed format to the Accounts Officer (DC), JDVVNL, JdVVNL within the stipulated date & time, and obtain a receipt.
- 5.1.3. Bid uploaded but not accompanied by a copy of the receipt for depositing EMD shall be rejected and the Bid will not be opened.
- 5.1.4. In case of bidders who are declared as non-responsive, EMD will be refunded on production of the original receipt within 15 working days after opening of financial bid.
- 5.1.5. Adjustments/proposals for acceptance of EMD, if any, **already** lying with the Discom in connection with some other bids/orders shall not be entertained. Also, the Discom will not adjust the EMD under this tender with the previous dues of bidder if any.
- 5.1.6. No interest shall be payable on EMD.**
- 5.1.7. Jodhpur Discom reserves the right to forfeit EMD, if successful bidder either has not accepted the work order or not completed the contractual requirement within the specified period.

5.2. TENDER SPECIFICATION COST & TENDER PROCESSING FEE

The bidders are permitted to download the bid document from websites <https://www.eproc.rajasthan.gov.in>, www.energy.rajasthan.gov.in/JdVVNL but must pay the cost of Tender document fee and e-Tender processing fee as mentioned in NIT table within the stipulated date & time in the office of Accounts Officer (DC), JdVVNL and obtain acknowledgement thereof. Such processing fee shall be sent to RISL by SE(M&P-ZPC) JdVVNL, Jodhpur.

6. CLARIFICATIONS AND AMENDMENTS & DEVIATION FROM BIDDING DOCUMENT

6.1. CLARIFICATIONS TO THE BID DOCUMENT

- 6.1.1. If the prospective bidder has any doubts as to the meaning of any portion of the bidding document, then he is allowed to refer the same to the tendering authority and get clarifications. He may do so by contacting the tendering authority in writing at the tendering authority's address indicated in the NIT.
- 6.1.2. The Tendering authority shall forward copies of its response to all Bidders who have acquired the Bidding Document directly from it and shall also place it on the website of JDVVNL, including a description of the inquiry but without identifying its source.
- 6.1.3. Should the Tendering authority deem it necessary to amend the Bidding Document as a result of a clarification or otherwise, it shall do so by issuing a revised bidding document and/ or Addendum/ Corrigendum. If need be, the deadline for submission of Bids may also be extended in order to give reasonable time to the prospective Bidders to take into account the amendment.

6.2. AMENDMENT OF BIDDING DOCUMENT

- 6.2.1. At any time prior to the deadline for submission of the Bids, the tendering authority may amend the Bidding document by issuing Corrigendum/Addendum.
- 6.2.2. Any Corrigendum/Addendum issued shall be a part of the Bidding document and shall be communicated through web portal in writing to all, who have purchased the Bidding document.
- 6.2.3. To give prospective Bidders reasonable time in which to take a Corrigendum/Addendum into account in preparing their Bids, the tendering authority may, at its discretion, extend the deadline for the submission of the Bids.
- 6.2.4. Any change in date of submission and opening of bids would be published on the websites mentioned in the NIT.

6.3. DEVIATION FROM BID DOCUMENTS

- 6.3.1. The bidder should comply all requirements set out in the bidding document and NO TECHNICAL and COMMERCIAL deviation shall be entertained.
- 6.3.2. The Bids with Deviation from the requirement laid down in this document shall be considered as NON Responsive.
- 6.3.3. **The offer must have 'No Deviation' certificate as per bid document.**

7. SUBMISSION AND OPENING OF BIDS**7.1. COST OF BIDDING**

The Bidder shall bear all costs associated with the preparation and submission of its Bid, and the tendering authority shall not be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

7.2. LANGUAGE OF BIDS

The Bid, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and the tendering authority, 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.

7.3. BIDS ARE TO BE SUBMITTED IN TWO PARTS

7.3.1. **Part- A:** will contain (i) Tender Cost (ii) Tender processing fee (iii) EMD (iv) Supporting documents to ascertain the eligibility / qualification as per the QR requirements of the tender (v) Technical offer comprising details & design of the proposed system(s) to meet out the work requirement together with its capabilities.

7.3.2. **Part- B:** will contain the financial offer for carrying out the scope of work defined for this project

7.4. SUBMISSION OF PROPOSALS

7.4.1. Bidder shall submit their bid in electronic format, digitally signed and stamped on each page by a responsible and authorized person. Bidder shall procure Digital Signature Certificate (DSC) as per IT act - 2000. **Physical submission of bids is not allowed.**

7.5. FILLING OF BIDS

7.5.1. Tenders shall be submitted online in the electronic format attached here to and all blanks in the tender and the schedule to the specification shall be duly filled in. The completed forms, schedule(s) shall be considered as part of the contract documents in the case of successful tenderer(s).

7.5.2. No alteration should be made to the format of the tender specification and schedules. The tenderer must comply entirely with specification.

7.5.3. The tender and all accompanying documents shall be in Hindi/English Language and shall be signed digitally by a responsible and authorized person. The name, designation and authority of the signatory shall be stated in the tender.

7.5.4. Tender must be submitted online after signing digitally.

- 7.5.5. All additions, alterations and over-writing in the bid must be clearly signed by the signatory of the bidder otherwise bid will be summarily rejected.
- 7.5.6. The bidder must quote the prices strictly in the manner as indicated herein, failing which bid is liable for rejection. The rate/prices shall be entered in words as well as in figures. These must not contain any additions, alterations, over-writing, cuttings or corrections and any other marking which leave any room for doubt.
- 7.5.7. The Purchase Authority will not be responsible to accept any cost involved in the preparation or submission of bids.
- 7.5.8. All bids and accompanying documents shall be addressed to the Jodhpur Vidyut Vitran Nigam Limited.
- 7.5.9. The tenders/quotations given in the form other than prescribed form will not be considered.
- 7.5.10. Only one representative, on submission of valid authorization of the signatory of the bid, will be allowed to be present during the opening of the bid.
- 7.5.11. The bidder shall clearly indicate the deviation such as Technical Deviation & Commercial Deviation in the prescribed format only. The deviation indicated elsewhere in the bid shall not be accepted.
- 7.5.12. The tender offer shall be submitted in time specified on <https://www.eproc.rajasthan.gov.in> in electronic format in the following manner:
- 7.5.12.1. **COVER – I** Fee(to be filed in pdf format)
- i. Proof of depositing EMD in cash & furnishing BG in the prescribed form as defined hereunder at Clause “Earnest Money Deposit (EMD)” i.e the receipt issued by the Accounts Officer (DC), JdVVNL on account of depositing .
 - ii. Proof of submitting RISL Processing Fee the processing fee of RISL through DD in favour of M.D, RISL payable at Jaipur.
 - iii. Proof of submitting Tender document cost i.e the acknowledgement issued by the Accounts Officer (DC), JdVVNL on account of depositing tender document cost of through DD in favour of Accounts Officer(DC), Jodhpur Discom payable at JdVVNL.
- 7.5.12.2. **COVER – II** Techno- Commercial Bid (to be filed in pdf format)
- In this part of bid, tenderer will have to furnish requisite documents in favor of qualification requirement, Technical Compliance For Executing this Project

and confirmation of commercial terms and conditions of GCC (General Conditions of Contract) and its addendum/corrigendum, if any, along with details required in various/schedules "EXCEPT THE PRICE SCHEDULE" so that the purchaser will be able to examine whether the offer submitted is technically acceptable and also confirm to our commercial terms and conditions or not.

7.5.12.3. **COVER – III** Financial/Price Bid/BOQ (to be filed in xls format).

The price bid is submitted in excel file of BoQ. The price bid will be opened only after being satisfied with Technical and Commercial Bid as per qualifying requirement stipulated in the Specification and bid of such qualified bidders will only be opened. The date of opening of such price Bids will be intimated in due course of time.

7.6 ALTERNATIVE BIDS

Alternative bids shall not be considered at all.

7.7 BID PRICES

7.7.1 All the prices should be quoted only in Indian Rupees (INR) Currency.

7.7.2 The prices quoted in BOQ.xls should be exclusive of service tax / GST and other government levies as applicable. The present rates of applicable taxes shall be indicated by the bidder in its Bid, which is subject to statutory variation and shall be borne by Discom.

7.7.3 The bidder will furnish the break-up of the quoted price in Financial Bid according to format mentioned in Section -7 "GUIDELINES FOR FINANCIAL BID SUBMISSION " of this RFP , indicating rate and type of each tax clearly, as per the rates prevailing within 7 days before the bid date. **Any statutory variation and imposing of new tax by government subsequent to bid submission/currency of Contract shall be on Discom account.**

7.8 PERIOD OF VALIDITY OF BIDS

7.8.1 The submission of any bid connected with these documents and specification shall constitute an agreement that the Bidder shall have no cause of action or claim, against the owner for rejection of his bid. The owner shall always be at liberty to reject or accept any bid or bids at his sole discretion and any such action will not be called into question and the Bidder shall have no claim in that regard against the owner.

7.8.2 The bids shall be valid for a minimum period of 180 (One hundred Eighty) days from the date of opening Part-A or 90 (Ninety) days from the date of opening of

Part-B wherever is later. Bids mentioning a shorter validity period than specified are likely to be summarily rejected / ignored.

- 7.8.3 Purchaser may ask for extension in validity period. The Bidder will be at liberty to accept it or not.

7.9 SIGNATURE OF BIDDER

- 7.9.1 The bid must contain the name, address and place of business of the Bidder and must be signed and sealed by the designated Authorized Representative of the Bidder. The name of such person should also be typed or printed below the signature.
- 7.9.2 Bid by a partnership firm must be furnished with full names of all partners.
- 7.9.3 Bids by corporation/ company must be signed by the Authorized representative of the Bidder with the legal name of the corporation/ company.
- 7.9.4 Satisfactory evidence of authority (Power of Attorney) of the person signing on behalf of the Bidder shall be furnished with the bid.
- 7.9.5 The Bidder's name stated on the proposal shall be exact legal name of the firm.
- 7.9.6 Bids not conforming to the above requirements of signing shall be disqualified.

7.10 DEADLINE FOR THE SUBMISSION OF BIDS

- 7.10.1 Bids must be submitted by the bidders on the website <https://www.eproc.rajasthan.gov.in> at the address and no later than the date and time indicated in the NIT.
- 7.10.2 Any change in date of submission and opening of bids would also be placed on the JDVVNL websites immediately. However, if the modifications in bidding document, specifications of goods and service are substantial, fresh publication of original bid inquiry may also be issued.
- 7.10.3 The tendering authority may, at its discretion, extend the deadline for the submission of bids by amending the bidding document, in which case all rights and obligations of the tendering authority and bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.

7.11 DELAYED/ LATE BIDS

The tendering authority shall not consider any bid that arrives after the deadline for submission of bids as indicated in the NIT. Any bid received by the tendering authority after the deadline for submission of bids shall be declared as late and returned unopened to the Bidder.

7.12 RECEIPT OF TENDERS/ BIDS

Bids shall only be received through <https://www.eproc.rajasthan.gov.in> website.

7.13 WITHDRAWAL, SUBSTITUTION AND MODIFICATION OF BIDS

A Bidder may substitute or modify its bid after it has been submitted before the deadline prescribed for submission of bids as per the e-tendering process but bidder cannot withdraw his bid after submitting it once.

7.14 BID OPENING

7.14.1 Jodhpur Discom shall perform the Bid opening at the specified place, date and time in the presence of bidders or their authorized representatives who may choose to be present.

7.14.2 Only the bids of those bidders who qualifies post the Technical Bid evaluation shall be eligible for Financial Bid opening. The date and time of Financial Bid opening to the technically qualified Bidders would be intimated later. The bidder who has quoted lowest shall be termed as the successful bidder.

8. EVALUATION AND COMPARISON OF BIDS

The evaluation of bids will be made in the following manner:

8.1 1st Stage: Qualification Requirement (Part –A) & Evaluation of Technical offer

A. Qualification Requirement- Each bid shall be evaluated to ascertain the qualification of bidder with respect to the requirements laid down in this RFP.

B. Availability for No-Deviation Certificate. If any deviation is found, the bid shall be declared as non-responsive.

C. Technical details and proposals submitted by the bidders shall be critically examined in line with objectives & scope of work along with all the documents submitted.

JDVVNL shall prepare the list of qualified bidders on the basis of above criterion and accordingly notified through e-portal for opening of financial bid.

8.2 2nd Stage: Financial Bid Evaluation:

The Financial Bids which are opened shall be evaluated. The Purchaser will correct arithmetical errors during evaluation of Financial Bids on the following basis:

1. 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 Purchaser 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;

2. 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
3. If there is a discrepancy between words and figures, the amount in words shall prevail. However, where the amount expressed in words is related to an arithmetic error, the amount in figures shall prevail subject to (1) and (2) above.
4. If there is a discrepancy between percentage and figures related to various taxes or levies, the percentage shall prevail over figure mentioned. However, where the amount expressed in percentage is related to an arithmetic error, the amount in figures shall prevail subject to (1) and (2) above. It should also be noted that at time of payment against, the prevailing tax/levy rates will be used as on the date of approval of payment.
5. Except as provided in sub-clauses (1) to (4) herein above, Tendering Authority shall reject the Price Proposal if the same contains any other computational or arithmetic discrepancy or error.
6. If the Bidder does not accept the correction of errors, its Bid shall be disqualified and its EMD shall be forfeited

8.3 The bids will be evaluated and awarded as per the evaluation criteria that “The Bidders having lowest financial quote during Financial Bid Evaluation shall be considered as the L1 Bidders”.

8.4 The EMD of the other technically qualified Bidders shall be returned within 15 working days from the date of signing of Contract by the Discom with the successful Bidder.

8.5 CONFIDENTIALITY

- 8.5.1 Information relating to the examination, evaluation, comparison, and post qualification of Bids, and recommendation of contract award, shall not be disclosed to Bidders or any other persons not officially concerned with such process until publication of the Contract award.
- 8.5.2 Any attempt by a bidder to influence the tendering authority or other officials of Discom in the examination, evaluation, comparison, and post qualification of the Bids or Contract award decisions shall result in the rejection of his bid.
- 8.5.3 From the time of Bid opening to the time of Contract award, if any Bidder wishes to contact the Tendering Authority on any matter related to the Bidding process, he is allowed to do so in writing.

9. NON-MATERIAL NON-CONFORMITIES

Provided that a bid is substantially responsive, the Tendering Authority may request the bidder to submit the necessary information or documentation provided that the required information was in existence as on date of opening of bid. No new information created after opening of bid shall be considered, within a reasonable period of time, to rectify omission in the bid related to requisite documents.

10. DISQUALIFICATION

Tendering authority may at its sole discretion and at any time during the processing of bid, disqualify any bidder/ bid from the bid process on following grounds

- i. Any action on the part of the bidder to revise the rates/prices and modification in technical or commercial substance of Bid, at their own.
- ii. Submission of any supplementary information unless & otherwise asked for at his own instance after the opening of the Bid may result in rejection of the Bid and also debar him from submission of Bid to the Discom at least for one year.
- iii. The Bidder has been disqualified from any other Discom for any violation of code of conduct.
- iv. In case of bidder not adhering to the format of financial offer given with this document the bid / offer may be rejected / non-responsive.
- v. In case of any mis-apprehension at bidder level which may lead to wrong price bidding, Discom reserve the right to reject the bid or take necessary loading / unloading to arrive the correct price as per aspersion of Discom / tender specification. Accordingly the bidders are advised to ask to clarify about any mis-apprehension before bidding. No excuse shall be considered in this regard.
- vi. Does not meet the Qualification Requirement (QR) as mentioned in the bidding document.
- vii. During validity of the bid or its extended period, if any, increases his quoted prices.
- viii. Has imposed conditions in his bid.
- ix. Has made misleading or false representations in the forms, statements and attachments submitted in proof of the eligibility requirements.
- x. Has been black listed, by any utilities of India during Last 5 financial years.
- xi. Has submitted bid which is not accompanied by required documentation and EMD/Tender document fees/Processing fees

Note: Bidders may specifically note that while processing the bid documents, if it is found, expressly or implied, that some bidders may have compounded in any manner whatsoever or otherwise joined to form a cartel resulting in delay/ holding up the

processing of bids then the bidders so involved are liable to be disqualified for the contract as well as for a further period of two years from participation in any of the bids floated by any department, Govt. of Rajasthan.

11. AWARD OF CONTRACT

11.1 ACCEPTANCE OF THE TENDER/BID AND NOTIFICATION OF AWARD

- 11.1.1 After the selection of the Successful Bidder by the Tendering Authority within the validity period of Bid, the Tendering Authority shall inform such Bidder in writing by issuing Letter of Intent (LOI)/WO. .
- 11.1.2 The Successful Bidder shall send an acknowledgement the LOI to the Discom, post which Discom shall prepare and send a detailed work order to the Successful Bidder. In case, the Successful Bidder refuses at the issue of LOI, the intent to perform the scope of work, it shall be rejected with forfeiture of its EMD and offer may be extended to the L2 Bidder and so on.
- 11.1.3 Discom shall issue Work Order to the Successful Bidder requiring him to do the following things within specified timeline. If the Bidder fails to do the following things within specified timeline, EMD of such Bidder shall be forfeited and Tendering Authority of Discom may consider the next ranked bidder.
- 11.1.4 Written Letter of Acceptance of Work Order along with duly signed and sealed copy of such Work Order as token of such acknowledgement within 7 working days.
- 11.1.5 Submission of Performance Guarantee as required to be submitted under the Contract within 15 working days.
- 11.1.6 Signing of the Contract (based on the terms & conditions of this Tender Document) with the Discom within 15 working days after issue of Contract format by Discom to the Successful Bidder. In case any of the party (Discom and the Successful Bidder) is unable to sign the Contract within 15 working days, it shall inform the other party in advance regarding the same along with the reason and suitable time for signing of the Contract.
- 11.1.7 Decision on bids shall be taken within original validity period of offers. If the decision on acceptance or rejection of a bid cannot be taken within the original bid validity period due to unavoidable circumstances, all the bidders shall be requested to extend validity period of their bids up to a specified date. It is discretion of bidder to accept the extension or not. Those bidders who do not accept shall be discontinued form the bid process and their EMD may be refunded.

- 11.1.8 Until a formal Contract is prepared and signed, the Work Order/ LOI shall constitute a binding Contract.

12. SIGNING OF CONTRACT

- 12.1 The successful bidder will, on receipt of Work Order from the Discom enter into a contract with the Discom by jointly signing the Contract.
- 12.2 The draft of the Contract based on the terms & conditions, detailed in this document will be forwarded to the successful bidder for execution by the Discom.
- 12.3 The Contract will be signed within 15 days thereafter. The person to sign the Contract must be duly authorized by the Bidding entities.

13. RESERVATION OF RIGHTS

To take care of unexpected circumstances, Tendering Authority shall reserve the rights for the following:

- i. Extend the last date & time for submission of the bids.
- ii. Amend the Tender Document at any time prior to the last date & time of submission of Bids.
- iii. To reject any bid without assigning any reasons.
- iv. Terminate or abandon the bidding procedure or the entire project whether before or after the receipt of bids.
- v. Seek the advice of external consultants to assist Jodhpur Discom in the evaluation or review of bids.
- vi. Make enquiries of any person, company or organization to ascertain information regarding the bidder and its bids.
- vii. Reproduce for the purposes of the procedure the whole or any portion of the bids despite any copyright or other intellectual property right that may subsist in the bids.

Note: Direct or indirect canvassing on the part of the Bidder or his representative would be a ground for disqualification of such Bidder from this process.

14. LACK OF COMPETITION

A situation may arise where, after evaluation of Bids, the Tendering Authority may end-up with one responsive bid only. In such a situation **the Tendering authority act as per RTPP Rule 2013 CLAUSE 68 "Lack of Competition"**

15. GENERAL

- 15.1 Discom does not bind itself to accept the lowest or any bid or any part of the bid and shall not assign any reason(s) for the rejection of any bid or a part thereof.
- 15.2 The fact of submission of bid to the Jodhpur Discom shall be deemed to constitute an agreement between the Bidder and the Discom whereby such bid shall remain open for acceptance by the Discom and Bidder shall not have option to withdraw his offer, impair or derogate the same. If the Bidder is notified during the period of validity of bid that his bid is accepted by the Discom, he shall be bound by the terms of agreement constituted by his bid and such acceptance thereof by the Discom, until formal contract of the same bid has been signed between him and Discom in replacement of such agreement.
- 15.3 The successful bidder will have to sign the contract agreement for the proper fulfilment of the contract. In case of ambiguous or contradictory terms and conditions mentioned in the Tender Document/ Bid, interpretations as may be advantageous to Discom may be taken, if satisfactory clarification is not furnished within the prescribed period.
- 15.4 Discom will not be responsible for any cost or expenses incurred by the bidder in connection with preparation or submission of bids.
- 15.5 Jodhpur Discom reserves the right to:
- Reject or accept any bid.
 - Cancel the bid process and reject all applications.
 - Reduce or increase the scope & time period of work order.
 - Jodhpur Discom shall neither be liable for any action nor be under any obligation to inform the bidders of the grounds for any of the above actions.

SECTION 4: GENERAL CONDITIONS OF CONTRACT

The Terms and Conditions of the contract shall prevail and shall be binding on the agency and any change or variation expressed or impressed howsoever made shall be in operative unless expressly sanctioned by the Jodhpur Discom. The Bidder shall be deemed to have fully informed himself and to have specific knowledge of the provisions under terms and conditions of this Tender Document mentioned hereunder:

1. DEFINITION OF TERMS:

- 1.1 In constructing these general conditions and the annexed specification, the following words shall have the meaning here in assigned to them unless there is anything in the subject of context inconsistent with such construction.
- 1.2 DISCOM shall mean the power distribution companies viz. JDVVNL.
- 1.3 The "JDVVNL" shall mean the JODHPUR VIDYUT VITRAN NIGAM LIMITED represented by Chairman/Managing Director and shall include their legal personal representative, successors and assignees. The "Customer" or "Owner" or "Purchaser" shall mean "JDVVNL".
- 1.4 The "Tenderer"/ "Bidder" shall mean and include one or more persons or any firm or any company or body in corporate who has submitted the tender in response to "Invitation of Tender".
- 1.5 The "Agency"/"Vendor"/ "Contractor" shall mean the tenderer whose tender has been accepted by the "JDVVNL" and shall include the tenderer heirs, legal representative, successors and assignees approved by the purchaser.
- 1.6 The "Chairman/Managing Director" shall mean the Chairman/Managing Director, JDVVNL, JdVVNL.
- 1.7 The "Engineer" shall mean the Chief Engineer, Dy. Chief Engineer, Superintending Engineer, Executive Engineer, Assistant Engineer, JDVVNL, JdVVNL or other Engineer or Officer for the time being or from time to time duly authorized and appointed in writing by the customer to act as engineer or Inspector for the purpose of the contract. In case where no such engineer has been so appointed, the word "Engineer" shall mean the JDVVNL or his duly authorized representative.
- 1.8 "Works" mean and include the work or works to be done by the contractor under the contract.
- 1.9 The "Contract" shall mean and include the following:
 - i. Invitation of tender
 - ii. This bid document with issued amendments.
 - iii. Bid furnished by the bidder.
 - iv. Earnest Money Deposit.
 - v. Letter of Intent and its acknowledgement.

- vi. All Bank Guarantees.
 - vii. Formal Work order.
 - viii. Addenda that may hereafter be issued by the purchaser to the contractor in the form of letter and covering letters and schedule of prices as agreed between the contractor and the purchaser.
 - ix. The agreement is to be entered as per Terms & Conditions.
- 1.10 The “Specification” shall mean the specification and its issued amendments; specific conditions annexed to the General Conditions, the contract schedule, and the annexure thereto, if any.
- 1.11 The Month shall mean, English calendar month i.e. period of 31/30 days and week shall mean a period of 7 days.
- 1.12 The “Site” shall mean the place or places named in the contract and include, where applicable, the lands and buildings upon or in which the works are to be executed.
- 1.13 “Letter of Intent” shall mean the customer’s letter conveying his acceptance of the tender subject to such reservations as may have been stated therein.
- 1.14 The “Contract Price shall mean the sum named in or calculated in accordance with the provisions of the contract purchase or any amendments thereto.
- 1.15 Formal work order shall mean the customer’s letter which may be issued in the way of letter of intent containing detailed terms and conditions of the work and such other particulars which the customer may like to convey to the contractor pending execution of a formal written agreement.
- 1.16 “Writing” shall include any manuscript type written or printed statement under or over signature or seal as the case may be.
- 1.17 The Work “Codes” shall mean the Indian Electricity Act/Electricity Supply act and Indian Electricity Rules and the rules made there under applicable in the State of Rajasthan on the date of letter of intent with such special modification thereof as may be specially stipulated by competent State Authorities i.e. Chief Electrical Inspector of Rajasthan.
- 1.18 Works importing “PERSON” shall include firms, Companies, Corporations and other bodies whether incorporated or not.

- 1.19 Words importing the singular only shall also include the plural and vice version where the context requires.
- 1.20 Terms and expressions not herein defined shall have the same meaning as one assigned to them in the Indian Contract Act (Act IX of 1872) and falling that in the General Clause Act, 1897).
- 2. CONTRACT:** After the completion of bidding process Discom will issue workorder/Letter of Award to the successful bidder. A contract shall be entered into between JDVVNL and the successful bidder.
- 3. CONTRACT VALUE:** Contract Value shall be calculated on the basis of quoted price of entire project as quoted in the financial schedule and accepted by the DISCOM.
- 4. CONTRACT PERIOD:** The contract period shall be initially for a period of 6 years (one year installation of work +5 Year for AMC) from the date of award of contract & latter soon as per new 33/11 KV GSS commissioned . The contract period shall be extendable for further Time on mutually agreed conditions AS PER RTPP Rules-2013.
- 5. IMPLEMENTATION PERIOD:** The implementation period of project shall be maximum of one year from the date of issue of work order for Feeder Data Monitoring System where in all the hardware, software, resources etc. should be installed/deployed & installation period is for further quantity of next year's up to next 2 year incorporated with system. **The grantee period of manufacturer not considered in 5 year AMC Period, AMC would be start after completion of one year of installation period or the grantee period of manufacturer whichever is higher.**

Quantity of modem (approx.) to be installed in proposed work :-

S.No.	Area	Quantity of modem to be installed (Nos.)		
		installation in one year (implementation period)	I'st year	II'st year
1.	IPDS	270	100	100
2.	RAPDRP	763	100	100
3.	Rural	1744	550	550
Total		2777	750	750

Note:- The numbers of feeders are approximated and actual numbers may be increased/reduced of given quantity.

6. TERMINATION OF CONTRACT: The termination of contract is based upon the performance of the work. If the average Modem communication provided by the contractor is less than 60% in three consecutive months than JDVVNL the contract may be terminated (Except the penalty holiday period).

7. FALL BACK ARRANGEMENT: In the event of failure of the Agency to fulfil its obligations, duties and responsibilities as per the agreement terms, JDVVNL shall **inter alia** have the right, at any time to resort to fall back arrangement. Under this plan, JDVVNL shall take charge of all facilities and systems whether in operation or under execution after giving suitable notice as provided in the agreement and can recover from the security deposit the losses suffered due to such failure. If the security deposit is insufficient, the Agency shall pay the difference to JDVVNL failing which JDVVNL shall have right to recover the sum through legal or other means.

The JDVVNL shall have the right in such circumstances to manage the system itself after taking charge of the facilities as above or through any other agency as it may deem fit and no claim of Agency for compensation in this respect shall be entered.

The JDVVNL shall have the right in such circumstances to blacklist/barred/disqualify the agency from submission of Bid to the NIGAM at least for one year.

8. HANDING OVER ON TERMINATION/ PROJECT COMPLETION:

As the system is on BOOT basis , the contractor shall hand over the infrastructure, systems, software licence, records, database and documents, latest source code with documentations, manuals etc. in good working order to JDVVNL after termination/ completion of contract period

In order to smoothen the handing over process the vendor shall provide the list of infrastructure , system etc. deployed for the functional operation of the Feeder Monitoring system, in the bid

Following is to be handed over at the time of termination/ project completion:

- 8.1. All infrastructures in working condition at Backup centre with the licenses of operating system and database if any, has to be handed over to the Discom.
- 8.2. Application software with source code and required licenses.
- 8.3. All equipment's deployed by the vendor. the transferred substation equipment's should be in working condition as per the average quantity for which payment made preceding of 6 months of completion date
- 8.4. The infrastructure at cloud shall not be transferred.

- 9. SECURITY BANK GUARANTEE / DEPOSIT :** A Security Deposit/Guarantee equivalent to **2% (two percent)** of annual contract value less amount of cash portion of earnest money deposited, within 15 days of receipt of work order, in cash or by crossed Bank Draft or by way of Bank Guarantee from any scheduled Bank in the prescribed Performa (In case, vendor furnishes the BG instead of cash deposit the amount of earnest money will be refunded) on a Rajasthan State Non judicial stamp paper of requisite amount duly authenticated by the issuing Banker.

This Bank Guarantee is to remain valid for a period of 12 months from the date of award of contract in the first instance and may have to be extended if desired. This bank guarantee shall be released after 3 months of successful commencement of information received from all circles.

- 10. PERFORMANCE DEPOSIT/GUARANTEE:** A performance deposit / Guarantee equivalent **to 10 % of contract value** shall be deposited by the successful bidder either in the form of Bank Guarantee from scheduled Bank on non-judicial stamp papers of appropriate value as intimated by JDVVNL in the prescribed format, for satisfactory work performance within 15 days of receipt of the Detailed Purchase Order. The Bank Guarantee is to be remained valid for a period of 6 years from the date of commencement of contract and may have to be extended, if the contract period is extended as mutually agreed AS PER RTPP Rules-2013.

The PBG shall be released after expiry of contract period and subsequent to evaluation of system generated performance report by the concern SE (M&P)JdVVNL /Jodhpur/Barmer/Bikaner.

11. CONTRACTOR TO INFORM HIMSELF FULLY

The Contract shall be considered to have come into force from the date of the issue of work award. The contractor shall be deemed to have carefully examined the General Conditions, specifications and schedules also to have satisfied himself as the nature and character of the work to be executed and where necessary, of the site conditions and other relevant matters and details. Any information thus had or otherwise obtained from the owner or the Engineer shall not be in any way relieve the contractor from his responsibility for the supplying of the hardware, software and other equipment and executing the work in terms of the contract including all details and incidental works and supply all accessories or apparatus which may not have been specifically mentioned in the contract but necessary for ensuring complete erection and safe and efficient working of the equipment if he has any doubt as to the meaning of any portion of the general and any special conditions of contract and specifications, he shall before offering his bid proposal, set-forth the particulars thereof and submit them to the

Engineer in writing in order that such doubt, misunderstanding, misconceptions, whatsoever could be allied.

12. CONTRACT DOCUMENTS

The order placed under this specification shall be governed by the terms and conditions as incorporated in this Specification and as given in the detailed work order and its annexure(s). The terms and conditions as specified in this section if differ from the terms indicated in the detailed work order and its annexure(s) the latter shall prevail. The contract shall for all purposes be construed according to the Laws of India and subject to jurisdiction of Rajasthan Courts at JdVVNL only. For the due fulfilment of the contract, the contractor shall execute an agreement in the prescribed form on Rajasthan State Non-judicial stamp paper bearing stamp duty as applicable. The expenses of completing and stamping the contract agreement shall be borne by the Contractor. Such agreement shall be executed and signed by the competent authority of the contractor on each page thereof. The original copy is only to be executed on the stamp paper. The remaining two copies may be executed on simple paper. Such complete agreement form along with the contract documents together with a "Power of Attorney" in favour of the Executants shall be required to be returned to the owner within a period of 15 days from the receipt of order duly signed on each page. One copy of the executed agreement duly signed by the purchaser/owner shall be sent to the supplier for his reference. The contract documents shall mean and include the following:

- i. Contract agreement along with letter of Intent.
- ii. Work order and its Annexure.
- iii. Complete specifications and its amendments.
- iv. Bid proposal form and its schedules including price schedule and completion schedules.
- v. Power of Attorney in favor of the signatory.

The agreement shall set out specific events of default that will entitle the innocent party to terminate the agreement. The party committing an event of default, which is capable of being remedied, will be given a reasonable opportunity to remedy the default.

The agreement can however be otherwise terminated by either party by giving six-month notice and on terms to be mutually agreed which may include payment of suitable compensation for losses suffered by the other party due to such termination. These terms shall be included in the Contract Agreement.

Agency shall indemnify JDVVNL against any claims, demands, costs and expenses whatsoever which may be made against it, because of failure of the Agency or its

representatives in the performance of their duties and negligence, any accident or injury to any person.

13. CHANGE OF QUANTITY

- (i) At the time award of contract : The owner reserves the right to increase or decrease the quantities of items as specified in the accompanying technical specifications as may be necessary, at the time of award of contract.
- (ii) During the currency of contract: During the currency of contract if any new substation is intimated, the vendor has to install the entire system and the payment shall be made on unit basis.

14. GRAFTS AND COMMISSIONS ETC.

Any gift, commission, or advantage given, promised or offered by or on behalf of the contractor or his partner, agent, officers, director, employee or servant or any one on his or their behalf in relation to the obtaining or to the execution of this or any other contract with the owner, shall be, in addition to any criminal liability which it may incur, subject of any loss or damage to the owner resulting from any cancellation. The owner shall then be entitled to deduct the amount so payable from any moneys otherwise due to the contractor under the contract.

- 15. COMPLIANCE OF LABOUR LEGISLATION**: The tenderer shall discharge its liability of employer/ contractor in respect of personnel to be engaged for service, as said out in EPF and MP Act, 1952 ESI Act, 1948 (in ESI implemented area), workmen's compensation act, 1923 (in non ESI implemented area) contract labour (R&A) Act, 1970, Payment of Wages Act, 1936, Minimum Wages Act, 1948 etc. The tenderer is required to get separate code under the provision of EPF and ESI Acts, if not already taken and deposit the employer's contribution along with employee subscription, as per rule and submit copy of challans at the time of claiming payment, failing which an amount equivalent to employer's contribution and employees subscription shall be deducted from his each bill and deposited with the concerned authorities. The tenderer shall be solely responsible for any consequences arising out of breach of any legislation.

- 16. SAFETY OF SYSTEM**: The Agency shall be fully responsible for upkeep, operation, maintenance, security and safety of substation equipment's installed by the vendor.

- 17. INSURANCE**: The agency at his cost shall arrange, secure and maintain all insurance (equipment's installed at substation by them & the manpower) as pertinent to the works and obligatory in terms of law to protect its interest and interest of JDVVNL against all perils. **Further all material shall be procured in the name of Jodhpur Discom with the liability of vendor for replacement, insurance till currency of contract.**

- 18. REMEDY ON AGENCY'S FAILURE TO INSURANCE:** If the Agency fails to effect and keep in force insurance referred to in this document hereof or any other insurance which he may be required to effect under the terms of contract then the JDVVNL may effect and keep in force any such insurance and pay such premium(s) as may be necessary for that purpose and from time to time deduct the amount so paid by the JDVVNL as aforesaid from any money due or which may become due to the Agency or recover the same as debt from the Agency.
- 19. LIABILITY FOR ACCIDENTS AND DAMAGES:**
- 19.1. The Agency shall be liable for and shall indemnify the JDVVNL in respect of all injury to person or damage to property resulting from the negligence of the Agency or his workman or from defective work but not from any other cause.
- 19.2. Provided that the Agency shall not be liable for any loss or profit or loss of Contract or any other claim made against the JDVVNL not already provided for in the contract, not for any injury or damage caused by or arising from the acts of the JDVVNL or of any other person or due to circumstances over which the agency has no control, not shall his total liability for loss, damage or injury under this clause exceed the total value of the Contract.
- 19.3. The Agency will indemnify and save harmless the JDVVNL against all actions, suits, claims, demands, costs, or expenses arising in connection with injuries (other than such as may be attributable to the JDVVNL or his employees) suffered prior to the date when the work shall have been taken over hereof by persons employed by the agency on the work, whether at common law or under the workman's compensation Act-1923 or any other statute in force at the date of contract relating to the question of the liability of employees for injuries suffered by employees and will if called upon to do so take out the necessary policy or policies of insurances to over such indemnity.
- 19.4. The agency shall insure against such liabilities with an insurer approved by the Engineer and shall continue such insurance, during the whole of the time that any person(s) are employed by him on the works and shall when required produce to the Chief Engineer, JdVVNL and concerned Superintending Engineer (M&P-ZPC) such policy of insurance and the receipt for payment of the current premium.
- 20. MAINTENANCE OF FACILITIES AND PERSONNEL:** The Agency shall maintain all requisite facilities of its own as required to carry out the work as per the specification.
- 20.1. The Agency shall provide and maintain a controlling office with requisite infrastructure at JdVVNL with proper staff, & facilities shall remain open at all reasonable hours to receive communications.

- 20.2. The agency shall also maintain communication equipment's like telephone with fax, mobile phone, Internet etc. for interaction with JDVVNL and others.
- 20.3. **PERSONNEL:** The Agency shall maintain supervisory and other personnel for efficient management of the work under contract. However this contract is on BOOT Basis , agency shall be responsible for smooth & timely execution of work by appointing sufficient number of manpower.
- 20.3.1. Manager or an alternate shall be available for communication during all business hours.
- 20.3.2. Agency shall not change the Manager/nodal officer, frequently.
- 20.3.3. Agency shall immediately inform JDVVNL about any change of personnel/contact numbers through Email/ post.
- 20.3.4. Agency shall issue identification cards to all its personnel engaged in the work under the contract. The identification card duly signed by Sr. Manager of the agency shall be consisting of Resume and photograph of the concerned personnel along with name and logo of the agency.
- 20.4. **NODAL OFFICER FOR EXECUTION OF PROJECT:** After award of contract to interact between the field offices and agency, JDVVNL shall appoint a Nodal Officer if required. Similarly, the agency shall communicate the name of the authorized person(s) that would act as a Nodal Officer(s) from its side. all the implementation work at feeders done under supervision of AEN (Protection) of concern Circle.
- 21. AGENCY'S RIGHTS:** The agency will be given rights to operate in the area during the agreement period for carrying out the work, which shall cease to exist on completion of the said period or on termination of the contract.
- The Agency's rights in the area will be as an agent of JDVVNL to observe proper functioning of system installed at 33/11KV Substations.

22. PAYMENT TERMS & PENALTIES

22.1 Payment Mechanism:-

(A) Payment for IPDS town made on Capax + Opex Module basis.

(B) Payment for RAPDRP town & Ruaral Area on Opex Module basis.

(A) Payment for IPDS town made on Capax+Opex Module basis.

(i) Payment against Supply of material at JdVVNL store:-

- a. 60% against receipt and acceptance of material at Discom central store Jodhpur , duly tested and cleared by Nigam, wherever the facility is available. The vendor

shall supply the material in a minimum lot of 500 nos., complete in all respect (as quoted in section A.I). Payment shall be made accordingly.

- b. 30 % payment against installation of Modems subject to receipt of data from online system for at least 20 days continuously, integration and verification from existing JdVVNL system (such as RMS etc.). Payment shall be made for lot of 500 nos. of installations complete in all respect (as quoted in section A.I).
- c. Balance 10% on successful data communication for 30 days, integration and verification from existing JdVVNL system (such as RMS etc.). Payment shall be made for lot of 500 nos. of installations complete in all respect (as quoted in section A.I).

Payment against Installation:-

- a. 90% against successful installation, commissioning and data communication (as quoted in section (A.II) for 20 days continuously, integration and verification from existing JdVVNL system(such as RMS etc.). Payment shall be made for lot of 500 nos. of installations.
- b. Balance 10% on successful data communication for 30 days, integration and verification from existing JdVVNL Billing system .Payment shall be made for lot of 500 nos. of installations complete in all respect (as quoted in section (A.II)

Payment against Operation & Maintenance:-

- a. Operation and Maintenance of all lots (as quoted in section A.III + B.III) shall commence after successful data communication of each lot of 500 nos. installations complete in all respect for 30 days continuously with integration and verification from existing JdVVNL Billing system on monthly invoice for a lot of 500 modems.

(B) Payment for RAPDRP town & Ruaral Area on Opex Module basis:-

Payment against Operation & Maintenance : -

- a. Operation and Maintenance of all lots (as quoted in section A.III + B.III) shall commence after successful data communication of each lot of 500 nos. installations complete in all respect for 30 days continuously with integration and verification from existing JdVVNL system on monthly invoice for a lot of 500 modems.

Instructions for Supply & Installation:-

- a. All the material shall be supplied after pre-dispatch inspection and acceptance by JdVVNL, at respective circle store in lot(s) of minimum 500 nos. of each material.
- b. Subsequent lots shall be offered for inspection once 50% of the previous lot is consumed (Installed).
- c. Any material brought to JdVVNL store has to undergo sample testing as per JdVVNL sampling guidelines. The sampled material has to be mandatorily passed by the JdVVNLs designated lab or NABL Lab etc.
- d. Material installed at sites shall be issued from Discom central store Jodhpur to the vendor. Only the lot for which the corresponding sample has been successfully tested and passed will be installed and commissioned at site.

- e. Completeness of installation at site in all respect shall be verified by respective AEN (protection)of concern Circle .
- f. All transportation & logistics charges i.e. for supply of material at Discom central store Jodhpur, movement of material for installation at site from JdVVNL central store Jodhpur, deposit spared material from site at JdVVNL store etc. shall be in the scope of bidder.

22.2 The agency has to submit a Zone wise approved monthly invoice to the designated officer i.e. Superintending Engineer (M&P), JODHPUR in triplicate for the entire area of the scope on rates indicated in the Work Award. The invoice has to be raised for the quantity of feeder meters monitored, read & meter data acquired and any other invoice as per scope of work during the calendar month.

The automated report generated from the web based software indicating the quantities of data acquired and uptime of the system as published on real-time basis has to be attached in support of the quantities claimed in the invoice.

23. Certification and verification

The designated officer of the Nigam shall verify and certify the invoice through system generated reports, the vendor shall provide an interface for verification of the invoice in the software to facilitate the verification authority to compute the actual work carried out and amount of applicable penalty. The authenticity of verification interface shall be made by JDVVNL before commencement of payment and it shall be password protected and un-editable.

24. Payment

100% invoice payment after deducting penalties if any shall be made within 30 days from the date of verification of the Invoice. Payment shall be made by Sr. Accounts Officer(CPC) Jodhpur Discom. The name of verification officer shall be notified in the work order.

25. Penalties :

- a. For any delay in IMPLEMENTATION AND ROLLOUT SCHEDULE of clause 23 beyond stipulated schedule, a penalty @1/2% (half percent) per week or part thereof shall be levied / recovered subject to a maximum of 10% (ten percent) of the contract value. Thereafter Nigam reserve the right to cancel the contract.
- b. Penalty shall be calculated on the circle basis and as under:

Sr.No.	Particular	Extent of penalty / No Payment
A	Extent of feeder Meter information received on system**(monthly)	
1	Upto 95% of Total Feeders meters of Circle	No penalty
2	Below 95% and Upto 90% of Total Feeders meters of Circle	No payment towards non reporting feeders + 5% penalty on unit rate on total number of non-reporting feeders*
3	Below 90% and Upto 85% of Total Feeders meters of Circle	No payment towards non reporting feeders + 10% penalty on unit rate on total number of non-reporting feeders
4	Below 85% and Upto 80% of Total Feeders meters of Circle	No payment towards non reporting feeders + 15% penalty on unit rate on total number of non-reporting feeders
5	Below 80% and Upto 75% of Total Feeders meters of Circle	No payment towards non reporting feeders + 25% penalty on unit rate on total number of non-reporting feeders
6	Below 75% of Total Feeders meters of Circle	No payment shall be made
	**The penalty shall be calculated strictly as per above slabs and no benefit should be given for the preceding slabs. Issues pertains to JDVVNL[decided by concern SE(M&P)] will not be counted for calculation of SLA.	

Penalty Holiday: Irrespective of the output / No. of information of the Feeders from the date of implementation of first circle and till six months period, No penalty shall be levied.

Note :

Integration of the proposed System is to be done with existing system i.e. revenue management System, RAPDRP system (provided Discom shall arrange implementation with RAPDRP), Existing Feeder Monitoring System and call centre etc. and future IT systems of the DISCOM on Industry practice. The first payment shall be released only after necessary integration.

26. IMPLEMENTATION AND ROLLOUT SCHEDULE

The total completion period shall be as under:

S.NO	PARTICULAR OF ACTIVITY	TIME SCHEDULE DESIRED
1	FURNISHING DETAILED ROAD MAP	WITH IN 15 DAYS FROM THE DATE OF AWARDING CONTRACT
2	SUBMISSION OF DETAILED DATA SHEET OF SOFTWARE	WITHIN 30 DAYS FROM THE DATE OF WORK ORDER
3	PROOF OF CONCEPT	WITHIN 60 DAYS FROM THE DATE OF WORK ORDER.
4	COMMENCEMENT OF INSTALLATION OF SUBSTATION EQUIPMENT	WITHIN 90 DAYS FROM THE DATE OF WORK ORDER AND TO BE COMPLETED WITHIN 365 DAYS OF THE WORK ORDER/LOI
5	COMMENCEMENT OF SYSTEM IN ONE CIRCLE WITH HOSTING ON CLOUD COMPUTING	4 MONTHS FROM THE DATE OF WORK AWARD
6	COMMENCEMENT OF SYSTEM IN ENTIRE AREA	12 MONTHS FROM THE DATE OF WORK AWARD

27. GOVERNING LAWS AND JURISDICTION: the Indian Law shall govern the agreement. Only appropriate courts in JdVVNL shall have exclusive Court Jurisdiction to deal with any matter arising out of or relating to the agreement or otherwise.

28. JURISDICTION FOR LEGAL PROCEEDINGS: The contract shall be governed by the laws of India for the time being in force and be subject to the court of competent jurisdiction at JODHPUR CITY (RAJASTHAN) INDIA. All disputes, differences questions whatsoever arising between the JDVVNL and the agency upon or in relation to or in connection with the contracts shall be deemed to have arisen at JODHPUR CITY only and no court other than court at JJODHPUR, Rajasthan shall have jurisdiction to entertain or try the same.

29. SETTLEMENT OF DISPUTES: In any time any question, dispute or difference what so ever which may arise between JDVVNL and the agency, the same shall be decided by CMD/MD of JDVVNL, or by the settlement committee constituted by him and shall be final and binding on both the parties.

The JDVVNL has constituted settlement committee to settle the disputed cases. For the disputed amount up to Rs. 3.00 Lac the case may be referred to the CE level settlement committee and if the disputed amount is more than Rs. 3.00 Lac the case shall be referred to the corporate level settlement committee. The non-refundable fees for referring the case to the settlement committee are as given below or prescribed time to time:

29.23. Reference fee for CE level settlement committee - Rs. 500/-

29.24. Reference fee for corporate level settlement committee-Rs. 3000/-

29.25. Fee for review of cases by corporate level settlement committee- Rs. 15000/-

29.26. The settlement committee fees as shown above or prevailing at that time shall be deposited in cash .

- 30. CONDUCT OF AGENCY'S STAFF:** If any of the Agency's employees shall in the opinion of JDVVNL is guilty of any misconduct or incompetence or negligence, then if so directed by JDVVNL, the Agency shall at once remove such employee and replace him by a qualified and competent substitute.
- 31. LIEN:** In case of any lien or claim pertaining to the work and responsibility of the agency for which JDVVNL might become liable, it shall have right to recover such claim amount from the agency.
- 32. TENDER FORMS AND ACCEPTANCE OF TENDER:** Each tenderer must prepare and submit his tender strictly according to the procedure laid down in the instructions to tenderer annexed herewith.
- 33. FORCE MAJEURE CONDITIONS:** If at any time during the currency of the contract the performance in whole or in part be prevented or delayed by reason of any war hostility acts of public enemy, civil commotion, sabotage, fire floods, explosion, epidemics, quarantine restrictions, strikes, lockouts or acts of god (hereinafter referred to as Events) then provided Notice and adequate proof of the production/dispatch having suffered on account of these events is given within 21 days from the date of occurrence thereof the provision of penalty Clause of this specification shall not be invoked by the purchaser provided further that the deliveries under the contract shall be resumed, as soon as practicable after such event (s) has ceased to exist and the decision of the purchaser as to whether the deliveries have been so resumed or not shall be final and conclusive provided further that in case the strike/lockout prolongs beyond a period of seven days, the supplier shall immediately inform about to the purchaser in which case the purchaser reserves the right to procure the material equipment on order or part thereof from any other source at the risk and cost of the supplier.

Delay in providing requisite metering protocols or delay in providing requisite CT PT Sets and Meter by Nigam shall be considered in force majeure conditions

- 34. COMPLETENESS OF CONTRACT:** The contract shall be considered completed on termination of the contract period separately for each Discom after full handing over of data, documents or material and clearing all dues towards the agency as specified in this document and certification by SE (M&P-ZPC).
- 35. INSPECTIONS AND TESTING:**
- 35.1 All the materials which will be supplied shall undergo pre dispatch inspection by JdVVNL officers. Before supply of items, clearance from JdVVNL is required. The agency will have offered the materials in writing for material inspection.
- 35.2 The designated officer/ representative of Discom shall on giving seven days' notice in writing to the contractor setting out any grounds of objections which he may have in respect of the work, be at liberty to reject any drawing and all or any plant, or workmanship connected with such work which in his opinion are not in accordance with the contract or are in his opinion defective for any reason whatsoever .The bidder shall state in his tender the places of inspection.
- 35.3 The vendor shall intimate at least 7 days in advance through notice(s) about the readiness of material for dispatch commensurate with specific delivery schedule so as to enable the purchaser to depute his representative for inspection testing and checking of the material/equipment. For this purpose the date of receipt of the letter in the office of the purchasing authority shall be deemed as the date of call for inspection and not the date mentioned in the letter and the date of dispatch.
- 35.4 In case, material/equipment is not found ready by the representative of the purchaser deputed for inspection to with tolerance of (-) 10% or if the inspection is not got carried out by any, the extent of the quantity indicated in the inspection call reasons on account of the supplier an amount of Rs. 7500/- only for the supplier's work located in Rajasthan and an amount of Rs. 15000/- only for the Supplier's works located outside Rajasthan will become payable by the supplier on this account to the Accounts Officer(DC), JdVVNL, Jodhpur. The supplier will deposit the amount with the Account Officer (DC), JdVVNL, and Jodhpur immediately under intimation to this purchasing authority, failing which the subsequent call for inspection shall not be entertained.
- 35.5 The purchaser reserve to him the right of having any inspection of special test of a reasonable nature at contracts premises or at sites in addition to those prescribed in applicable standards.
- 35.6 Unless the inspection is specifically waived no material shall be dispatched without inspection and clearance for dispatch by the purchase's representative.

- 35.7 The purchaser reserves the right to reject all or any part of the material being manufactured or awaiting dispatch, due to any defect or deviations from the standard specifications prescribed as observed during the inspection. In case of any dispute/difference in this regard the decision of the Chief Engineer shall be final and binding.
- 35.8 The purchaser also reserves the right to get the material/equipment tested in any recognized Government Laboratory & claiming any compensation or rejecting the material/equipment, if not found in accordance with the specification. All charges consequent to such rejection and replacement/rectification shall be borne by the supplier.
- 35.9 The agency has to arrange demonstration of software or the entire solutions provided by it before deployment and incorporate requirements of JDVVNL pertaining to work.
- 35.10 The agency shall demonstrate proof of concept for at least 10 Sub Stations. Clearance of the same by the designated committee is essentially required to fulfill the requirement of Pre Commencement inspection.
- 35.11 The vendor shall ensure compatibility of System / infrastructure deployed with feeder meters prior to installation.
- 36. GST:** The Bidder shall furnish details of applicable GST as on date of bidding which shall be paid.
- 37. SUSPENSIONS OF WORKS:** The purchaser shall not be liable to pay the contractor any compensation whatsoever arising from suspension or for idle labour.
- 38. DEATH BANKRUPTCY ETC.:**
- 38.23. If the contractor shall die or dissolve or commit any act or bankruptcy or being a corporation commence to be wound up except for reconstruction purpose or carry on his business under a receiver, the executors successors, or other representatives in law of the state of the contractor or any such receiver, Liquidator, or any persons to whom the contract may become vested shall forth-with given notice thereof in writing to the purchaser and shall for one (1) month during which he shall take all reasonable steps to prevent stoppage of the work have the option of carrying out the contract subject to his or their providing such guarantee as may be required by the purchaser but not exceeding the value of the work for the time being remaining unexecuted provided however that nothing above said shall be deemed to relieve the contractor or his successors of his or other their obligations under the contract under any circumstances. In the event of stoppage of the work the period of the option under this clause shall be seven (7) days only. Provided that, should the above option be not exercised, the contract may be terminated by the purchaser by notice in writing to the contractor and the same power and provisions reserved to the purchaser in clause 1.4 in the event of taking the work out of the contractor's hand's shall immediately become operative.

39. GUARANTEE and REPLACEMENT OF DEFECTIVE/DAMAGED MATERIALS:**GUARANTEE:**

This contract is on BOOT Basis hence the entire Feeder Data Monitoring System should be guaranteed for satisfactory operation and good workmanship at least for an initial period of Five years after date of complete installation. If contract is extended beyond this period, the guarantees shall be extended automatically. **During the period of contract all the supply, operate, repair, replacement, maintenance cost of entire system shall be borne by contractor.**

REPLACEMENT OF DEFECTIVE/DAMAGED MATERIALS

Notwithstanding anything contained in the above liquidated damages clause when the whole or part of the materials are found to be defective/damaged or are not in conformity with the specification or sample, such defects or damages in the materials supplied shall be rectified within 120 working hours from the time of intimation of defect/damage either at the point of destination or at the supplier's works, at the cost of supplier, against proper security and acknowledgement. **In the alternative, the defective or damaged materials shall be replaced free of cost within 120 working hours from the date of receipt of the intimation from the purchaser of such defects or damages.** If the defects or damages are not rectified or replaced within this period, the supplier shall pay a sum towards liquidated damages as per liquidated damages clause given above, for the delay in rectification/replacement of the defects or damages.

If any equipment found defective within manufacture grantee or implementation period whichever is higher materials shall be replaced free of cost ,AMC not covered in this period.

40. FAILURE TO EXECUTE THE CONTRACT: Suppliers failing to execute the order placed on them to the satisfaction of JDVVNL under terms and conditions set forth therein, will be liable to make good the loss sustained by the Nigam, consequent to the placing of fresh orders elsewhere at higher rate, i.e. the difference between the price accepted in the contract already entered into and the price at which fresh orders have been placed. This is without prejudice to the imposition of Liquidated Damages and forfeiture of security deposit.

41. NON-ASSIGNMENT: - The supplier shall not assign or transfer the contract or any part thereof to any agency/ personal during the contract period.

42. EFFECTING RECOVERIES: Any loss, arising due to non-fulfilment of this contract or any other contract, will be recovered from the Security & Performance Deposit/ Guarantees held and or any other amount due to the supplier from the Nigam from this Contract as well as from other contracts.

- 43. ACCEPTANCE OF CONTRACT:** The successful bidder will be forwarded two sets of work order, two of which will be signed (each page) by him/his authorized representative in token of his accepting the contract and returned to the authority placing the order within 15 days of its issue, failing which, his EMD is liable to be forfeited.
- 44. CLIMATIC CONDITIONS:** The system are for use in various geographical area of respective DISCOM and should be satisfactory for operation under tropical conditions of Rajasthan and shall be able to maintain the desired output and withstand a wide range of temperature & climatic experience in the area under scope.
- i. The ambient temperature will be within the range of + 0 Degree Centigrade to + 60 Degree Centigrade.
 - ii. The altitude will be less than 500 metres.
 - iii. The maximum & minimum atmospheric humidity will be in the range of 95% & 10 % respectively.
 - iv. Average Number of thunderstorm days per annum is 65.
 - v. Average Number of dust storm days per annum is 15.
 - vi. Average Number of rainy days per annum is 65.
 - vii. Average annual rainfall is 100 cm.

The climatic conditions are prone to wide variation in ambient condition and equipment's offered under this specification shall be suitable for installation at any of the location in the area of Jodhpur Discom

- 45. APPEAL:** 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 this Act or the rules or guidelines issued there under, he may file 1st & 2nd appeal under section 38 of RTPP Act-2012 to the following appeal authorities:-

Sr.	Type of Appeal	Name & Designation of appellate authority
1	First appeal	Chairman & Managing Director, Rajasthan Vidyut Utpadan Nigam Ltd, Vidyut Bhawan, JAIPUR.
2	Second appeal	Energy Department, Government of Rajasthan

The form of appeal shall be as per Rule 83 of RTPP Rules, 2013 and memorandum of appeal shall be filled as per form-1 as prescribed under RTPP Rules, 2013.

Fee for appeal:- Subject to rule 84 of the RTPP Rule 2013 the fee shall be as under:-

- a. For First Appeal:- Rs. 2,500/- (Rupees Two Thousand Five Hundred Only)
- b. For Second Appeal:- Rs. 10,000/- (Rupees Ten Thousand Only)

It is further intimated that the fee shall be paid in the form of Demand Draft of Bankers Cheque of a Scheduled Bank payable in the name of AO (dc), JDVVNL, JdVVNL.

Note:- In case anything contained in the Tender Document differs from the RTPP ACT/RULES then interpretation & provision contained in the RTPP ACT/RULES shall be final and the bidder shall be abide there upon.

46. CORRESPONDENCE

- 1.1. The correspondence related to bid and purchase/work order shall be made with the Superintending Engineer (M&P-ZPC) JDVVNL, New power House ,Jodhpur
- 1.2. The correspondences related to execution of ordered works including survey quantity approval, shall be made with concerned circle Superintending Engineer (O&M)/ Superintending Engineer (M&P-ZPC), JDVVNL.
- 1.3. The correspondence regarding bills & payment etc. shall be made with the concerned Superintending Engineer (M&P-ZPC),JdVVNL Jodhpur .

SECTION 5: SCOPE OF WORK

Jodhpur Vidyut Vitran Nigam Limited (JdVVNL/Jodhpur DISCOM) is engaged in distribution and supply of electricity in 10 districts of Rajasthan, namely Jodhpur, Pali, Sirohi, Jalore, Barmer, Jaisalmer, Bikaner(DC), Churu, Hanumangarh, Sriganganer.

There are number of 33 / 11 KV substations spread across Discom from where 4-8 Nos. of 11KV feeders are emanating for supply electricity to various areas, each feeder is installed with HT TVM meters of different makes. These meters have majorly optical port and some have 485, RS-232/RJ11 communication ports apart from optical ports. Most of meters have DLMS protocol and some of meters are on proprietary protocols.

At present approx. 270 Nos. 11 kv feeders in IPDS town & approx. 40 Nos. 33/11 KV GSS may be commissioned in IPDS Town @ 20 per year & 200 feeders is in upcoming in two years @ 100 per year. Presently no one feeder equipped with Modem/DUC. So that total nos. modem to be install on feeders is 470 Nos & 5 year AMC from work execute. The grantee period of manufacturer not considered in 5 year AMC Period, AMC would be start after one year of installation period or the grantee period of manufacturer whichever is higher. If any equipment found defective in installation period then replace by bidder without any cost.

In RAPDRP town 463 Nos. feeders already equipped with DCU/Modem under RAPDRP scheme , out of 1226 nos. & 763 Nos. of feeder not equipped with Modem/DCU & approx. 40 Nos. 33/11 KV GSS may be commissioned in RAPDRP Town @ 20 per year & 200 feeders is in upcoming in two years @ 100 per year. So that total nos. modem to be install on feeders is 963 Nos. & 5 year AMC from work execution. The grantee period of manufacturer not considered in 5 year AMC Period, AMC would be start after complication of one year of installation period or the grantee period of manufacturer whichever is higher. If any equipment found defective in installation period then replace by bidder without any cost.

In Rural area approx. 10834 Nos. 11 KV feeder exist & Modem installation work on Rural feeder awarded to RECTPCL, under this work order 7215 nos. of rural feeder equipped with modem out of 9090 feeder & remaining work under process by firm on Rural feeder approx. & 220 Nos. 33/11 KV GSS may be commissioned in Rural area @ 110 per year & 1100 Nos. feeders is in upcoming in two years @ 550 per year. So that total nos. modem to be install on feeders is 2844 Nos. with one year Installation Period & 5 year AMC from work execution. The grantee period of manufacturer not considered in 5 year AMC Period, AMC would be start after complication of one year of installation period or the grantee period of manufacturer whichever is higher. If any equipment found defective in installation period then replace by bidder without any cost.

Proposed work is as under:-

S.No.	Area	Feeders covered for modem installation
1.	IPDS	470 Nos.
2.	RAPDRP	963 Nos.
3.	Rural	2844 Nos.
Total		4277 Nos.

1. The Broad Scope of work shall be as under :

S.No.	Particulars	Scope of work
A.	Feeder Monitoring system	Vendor can deploy any of the technologies available in the market to achieve the desired output. The major scope includes Supply & install the required infrastructure at sub-station which includes : (i) Installation of infrastructure for data collection and transmission (ii) Cabling and accessories (iii) Boxes for housing the infrastructure and accessories (iv) Connectivity in name of the vendor shall be taken and if required NOC will be given (v) Integration with the existing and future coming IT system on Industry Standard methods
B.	Proof of concept and Establishment of Data Center on cloud computing with backup server at JdVVNL (a) Sizing of Data Center on the basis of 15000 Nos. Feeders. (b) Connectivity from Data centre to Central level	

2. System Hosting:

The bidder shall host the feeder monitoring system on a cloud environment or at a tire 4 data centre or above. The IT infrastructure and system shall be highly secure, reliable, scalable, elastic and highly available throughout the entire contract duration. The cloud environment shall have inbuilt real-time backup facility at backup system at JdVVNL. The setup should have auto failover configured and shall have availability of over 99%. The application shall be accessed over internet with required encryption and all the administration credential shall be shared with the Discom along with the required audit trails. There shall be a backup server installed by the vendor at Discom level.

- i. The system shall run in the cloud where all portions shall be managed. No extra charges shall be paid and new users can be added.
- ii. In order to achieve goals System shall be able to access from a variety of devices like PC Tablets and Android & Windows Mobiles, in the office or on the go, which allows easier collaboration among your team.
- iii. The vendor shall manage servers, networking and storage, application, database and operating system and storage etc on cloud basis. This allows to avoid expenditure on automate scaling.
- iv. Extra data space for processing power based on the growth on DISCOM needs. This means that the extra data processing space is available whenever need it, up to 15000 nos. of feeder meters data .
- v. Using this service model, and applications, data, operating system, middleware and runtime shall also be manageable by Discom.
- vi. **Integrating the proposed Feeder Data Monitoring System with necessary software being implemented under existing and future IT systems.**

3. GENERAL FEATURES

- 3.1. The substation meters shall be connected to the Data Collection and transmission infrastructure / device having store and forward facility through adequate cabling (vendor scope) through suitable last mile connectivity. The substation Data Collection and transmission infrastructure / device will acquire data from feeder meters, and will transmit the same to central data center server(s). The bidder may choose any alternative solution,
- 3.2. The proposed Feeder Monitoring System is expected to provide continuous on line monitoring and logging of essentially, though not limited to, the following parameters in respect of Sub stations **as per Industry Standards. The system shall transfer complete data daily at 00 hours.**
 - i. Active Energy Cumulative FWD

- ii. Active Energy FWD
- iii. Active Energy Cumulative REV
- iv. Active Energy REV
- v. Reactive Energy Cum FWD
- vi. Reactive Energy Cum REV
- vii. Apparent Energy Cum FWD
- viii. Apparent Energy Cum REV
- ix. Average Power Factor FWD
- x. Average Power Factor REV
- xi. Frequency
- xii. System outage / downtime feeder wise with total power on HOURS
- xiii. Energy balancing at sub stations
- xiv. Daily peak loads feeder.
- xv. Peak Load of the Substation.
- xvi. Daily Log sheets

3.3. The System shall transfer the complete load profile of the meter data. In case of communication not available, it shall be ensured that the data should be transferred at least once in 24 hrs at 00 hours with complete load profile data on monthly basis etc., to the central server. The meter data shall be stored and made available for various analysis, generation of exception reports, export to third party systems and energy audit.

3.4. The System shall be accessible on internet and the information dissemination would be primarily through a web site designed on responsive technologies for facilitating access through mobile device, tablets, laptops, desktops etc.

3.5. The web application with user and role based access facility would be available over internet for access by various officers of the DISCOM.

4. BROAD FUNCTIONALITIES OF SOFTWARE

Sr. No.	Feature	Functionality
1.	Modular Design	Applications, systems and infrastructure are to be characterized as service-oriented, component-based & reusable. The system will be modular in design, operations and implementation.

2.	System Architecture	The supplier is to balance the adoption of standards used by market leading vendors and products, and adherence to industry standards and open architectures. Systems are to be acquired, developed, or enhanced in such a way that business processes; application and infrastructure services and data can be shared and integrated across the Utility and with potential business partners.
3.	Application architecture	Application architectures must be highly granular and loosely coupled. This is focused on loosely coupling systems compliant to Service Oriented Architecture to facilitate application recovery. This is to ensure that the failure of one component does not cascade to others. A tier can also be scaled to run separate applications to optimize performance.
4.	Web based design	All the application designed for this purpose shall be web based and the Purchaser at workstation shall be able to access through the latest available version of the web browser such as Internet Explorer, Fire Fox etc., Any add-on required must be integrated with latest version released by the developer at the time of Bid opening
5.	Business Process Requirement	Application requirements will be based on Utility's business processes and the functional requirements that derive from them. The application system should empower the Business Users in defining the business processes by process modelling.
6.	Data base server	The applications must be capable of running in a clustered environment as high availability configuration of database server that will run multiple workloads.

7.	Basic system architecture and Unified Access framework	The applications system should be built upon WS* specifications using open industry standards of Web services using XML, SOAP, WSDL and UDDI and should have the unified access framework compliant to W3C portal specifications for people, process and information by integrating the backend applications with single sign-on feature, role based, request based and hybrid user type access, searching and collaborative environment.
8.	Directory service	Common enterprise wide directory services shall be leveraged by all access systems and services used by all the enterprise users and adhere to commonly accepted standards such as LDAP.
9.	Message based interface	As per the requirement, Interfaces between separate systems (both internal and external systems) will be messaged based compliant to W3C XML standard/OPC/DDE/ODBC interface.
10.	Application Integration	<p>Integration technologies must be industry proven standards. They must be scalable in capacity and provide for extensive functionality.</p> <p>WS* based Web Services Integration specifications shall be used for integrating disparate systems, such as:</p> <ul style="list-style-type: none"> • Web Services Messaging Specifications including SOAP • Web Services Reliable Messaging • Web Services metadata Specifications including WSDL • Web Services XML Specifications • Web Services Business Process Specifications including BPEL4WS • Web Services Management Specifications EDIFACT and ANSI
11.	Data Storage	Data is considered to be an utility wide asset and is to be shared across the utility. Data stores for transaction processing shall be kept separate from data stores for decision support.

12.	Data access	The applications will access data through business rules i.e. the applications must not access data directly without going through APIs managed by business rules/ validation/workflow. Data should be collected once and used many times.
13.	Central data storage	Data shall be stored at central data centre.
14.	Network environment	The application should be capable in running in a hybrid network connectivity environment i.e. Dialup, PSTN, Wireless, Leased Line, WAN environment etc. including MPLS/VPN based secured tunnel.
15.	Mobile application	For display of critical information on Android / IOS base mobile, necessary software shall also be developed by vendor.

5. Dashboards and Reports

The application software shall have drilldown dashboards for depicting the real time status of the feeders along with the details of the energy flow statistics. The details and formats of the dashboards and reports that need to be generated online shall be finalized with the vendor during the implementation. Further the vendor should provide for changes, updating, modifications, new dash boards and reports during the entire project implementation as per the requirement of the DISCOM as and when required at No cost. The reports shall be generated and published periodically on the web server and shall be readily available for download and consumption. Further all the reports generated shall have option of exporting into xls, pdf etc.

To develop a graphical dashboard on Rajasthan Map on the basis of Geo references of each Sub stations / MLA constituency. While clicking on any Substation, the information pertaining to the substation should be available on the MAP.

The reports shall be generated area wise i.e. Sub division / Division / Circle and MLA constituency wise. Some of the reports that need to be generating at desired periodicity areas under:

1. Periodic information retrieval of all Substations.
2. DATE WISE REPORT (WITH 3 PHASE & 1 PHASE SEPARATELY) with monthly average.
3. STATUS OF NON COMMUNICATING METERING EQUIPMENT'S

4. Transaction made during the reporting month i.e. change of CT-PT sets /Meter/Data communication device /any other equipment's
5. INSTANTANEOUS PARAMETERS i.e. Voltage, Current, PF, Frequency, KWH
6. DAY WISE BREAK UP OF 3-PH AND 1-PHASE SUPPLY HRS WITH monthly average along with GRAPHICAL PRESENTATION (Only for Feeder Meters):
 - a. GRAPHICAL PRESENTATION
 - b. GRAPHICAL PRESENTATION OF CONSOLIDATE SUPPLY HOURS
7. **Any other report which can be generated from the available data at NO Cost.**
8. **Reports shall be finalized before commencement of work.**

6. One time activity

Sr.No.	At Central level	At substation level
1.	<p>Design, develop and deploy the web based application software for data acquisition, data aggregation, data storage in common format, data dissemination, data display on DISCOM website, data analysis and depiction in form of dashboards, graphs and MIS reports etc. System for automated SMS alerts and email. The gateway and SMS charges are in the scope of vendor. Mobile application shall also be developed.</p> <p>However it is expected that 500-600 SMS per month may be generated.</p>	<p>Supply and install the required infrastructure at sub-station level which includes :</p> <ul style="list-style-type: none"> (i) Data Collection and transmission infrastructure / device (ii) Soft SIM(Preferable) (iii) Cabling and accessories (iv) Boxes for housing the Data Collection and transmission infrastructure / device and accessories
2.	<p>Supply and install the Backup system at a central location as specified by Discom. In case if other DISCOM are also opting this system, Separate backup system shall be installed there.</p>	<p>Arrangement of connectivity shall be on soft SIM basis (If available).</p>

3.	Testing of Application software (Proof of concept, functionalities of software, availability of Service oriented architecture (SOA))- Details of tests at different stage shall be furnished by the bidder.	
4.	Providing catalogue of services, documentation including data structure.	
5.	To install backup system at Discom location which includes Server, Printer and other network equipment's?	
6.	Hosting of system on cloud computing.	
7.	Network equipment for Internet Bandwidth connectivity at Central location as per load condition	
8.	Network equipment for Internet Bandwidth connectivity of minimum 5 mbps at backup location	
9.	Integration with existing IT system i.e. Revenue Management System, CCC, SCADA, existing Feeder Monitoring System, etc. on Industry Standard practice	

Note: All other activities required for successful commissioning of the project are in scope of vendor.

7. Recurring activity

- i. Provide appropriate mode of connectivity at all level for pushing the data on the desired frequency on near real time basis on daily / weekly basis. It would be preferred that Data Collection and transmission infrastructure / device should have provision of SOFT SIM (as per bidders design).
- ii. Provide the required internet connectivity for web applications at Hosting level and backup location.
- iii. Provide the required supervisory and support personnel for operation and maintenance of the system.
- iv. Publish the required reports and MIS information online and publish the same for consumption by various users of the system.

8. Infrastructure to be supplied, installed and configured at different level**8.1. Data Collection and transmission device (AT SUBSTATION LEVEL)**

- i. Data Collection and transmission device as per bidder design with data storage and forwarding facility.
- ii. **The bidder can deploy any of the technologies available in the market to achieve the desired output. As such the bidder shall furnish the technical specifications of the data sheet of the system / technology to be deployed in the bid.**
- iii. GPRS data SIM or other mode on the basis of availability of signals at a particular location for high speed communication .

General technical specifications for substation device:

S.NO.	FUNCTIONALITY	DESCRIPTION
1	Memory	Suitable for storage of 30 days meter data of each Substation.
2	Network Communication	Network Communication: a)Local Area Network - 10/100 Mbps Ethernet LAN Port , b) Wide Area Network, c) device management/configuration - RS232 /USB2.0/ 10/100Mbps Ethernet LAN port viz a viz otherwise
3	Communication Protocol	Must support the MODBUS/DLMS protocol to communicate with Modbus enable peripheral devices.
4	Power Requirements	<ol style="list-style-type: none"> a. Power supply voltage range 110-120 V DC/220VAC \pm 30% b. Low Power Consumption c. Adequate Battery back-up with minimum 2 hours backup to report power failure d. Inbuilt 6 KV surge protected SMPS based power supply
5	Environment	0 to +60 °C temperature range
6	Alarming & Scheduling	The alarms and schedules can be pre-set or customized as per the requirements of the utility. There should not be limitations on the number of alarms and schedules as per setting requirements
7	Inbuilt Clock on Real	The real-time controller should have a very stable inbuilt

	Time Controller	clock with a battery backup Maintain time sync with meters and central location.
8	Date & Time Determination	The date and time of the controller should be possible to set remotely. At the same time it should be possible to configure to acquire the local date and time from the internet / GPRS network
9	GSM / GPRS Features	<ul style="list-style-type: none"> a. Supported GSM bands Quad GSM band: 900/1800 MHz b. GSM standard SMS, Fax, CSD (circuit), GPRS c. Cellular Data class 10 d. SIM card reader Tray Push Type and provision of soft SIM e. SIM lock function
10	On-board Stack	Suitable to address the needs of the envisaged system with adequate expansion facility.
11	Earthing	The earthing of the infrastructure shall be in the scope of the contractor
12	Local Monitoring	System shall have a provision for local monitoring of substation data

8.2. Cables and accessories for connecting the meters and breakers / CT PT Sets to Data Collection and transmission infrastructure / device

All the accessories like the meter interface unit, cables etc., have to be supplied and installed for ensuring 100% communication between the Feeder Meter and Data Collection and transmission infrastructure / device. The quantity of cables etc. shall have valid IS /IEC.

8.3. Boxes for housing the Data Collection and transmission infrastructure / device and accessories.

The Data Collection and transmission infrastructure / device and accessories shall be housed in a box (IP-65 compliant) to withstand the field conditions.

Appropriate connectivity with sufficient bandwidth for seamless real-time transfer of data push from the Data Collection and transmission infrastructure / device to the central server shall be provided

8.4. Infrastructure to be deployed at the central location as Backup

The bidder shall deploy the requisite hardware like servers, routers, firewalls and related accessories at a location to be considered as backup location other than hosting place.

The required hardware for a secure, reliable and high available system shall be designed and deployed. The hardware sizing has to done keeping in consideration the data volumes, data archival and also the addition of new sub stations during the contract period.

The required redundant band width to be provisioned for high availability and quick data transfers.

8.5. Design, develop and deploy the web based software solution (SHALL BE HOSTED ON CLOUD COMPUTING)

General scope is to Design, develop, install and implement the required web based software solution for data acquisition, data aggregation, data storage in common format, data dissemination, data display on responsive website, data analysis and depiction in form of dashboards, graphs and MIS reports etc., provision for automated SMS alerts and email.

The minimum specification or functionalities that need to be achieved by the web based Solution:

- i. The system shall be designed and developed as per the latest standards and technologies on Service Oriented Architecture.
- ii. The system shall publish the required service catalogs for information exchange with third party systems.
- iii. The system shall have a web portal for public dissemination of the information and shall have a full fledge web application for consumption of DISCOM personnel. The web portal to be designed on responsive technologies for accessing over mobiles, tablets, laptops etc.
- iv. The System shall be secure and shall have user, role based configurable configuration with required event logging.
- v. The system shall expose the required web services to the data concentrators or data loggers for pushing the meter data and events.
- vi. The meter data and event information acquired shall be stored in the data based with time stamp.
- vii. The data obtained from various meters to be processed and stored into a common data base format.
- viii. The meter data obtained shall be processed on real-time basis and information disseminated on the web site, messages, emails etc.
- ix. The system shall analyze the meter data and generate various exception reports as defined and designed by the DISCOM.

- x. The system shall have capability to exchange the meter data acquired with third party systems through web services in regular interval.
- xi. The system shall have inbuilt facility for device management i.e. to register, authorize and manage Data Collection and transmission infrastructure / device.
- xii. The System shall have facility to upgrade the firm ware or software of the Data Collection and transmission infrastructure / device if desired over the air.
- xiii. The entire transaction and events of communication, failure etc., with the Data Collection and transmission infrastructure / device shall be logged along with time stamping.
- xiv. The system shall have in built user management and administration model for access control and logging for audit and audit trail.
- xv. The system shall have inbuilt comprehensive MIS reports as per the requirements of the DISCOM with provision to add and modify the same as and when required.
- xvi. The system shall have dashboards to depict the near real time information emanating from the Data Collection and transmission infrastructure / device on various critical and essential parameters as desired by the DISCOM.
- xvii. The system shall have built in ticketing system to recording issues, escalation and resolution.
- xviii. The system shall have inbuilt comprehensive help and manuals.
- xix. The system shall be secure, high available and responsive.
- xx. The required email and SMS gateways shall be procured by the bidder within the quoted per month charges.

Integrating the proposed Feeder Data Monitoring System with necessary software being implemented under existing and future IT systems.

The above requirements are high level and suggestive, the successful bidder shall gather the requirements and prepare the system requirement specification and design, develop/configure the software as per the requirements of Discom. The bidder shall further update and provide for additional features and functionalities as and when required by JDVVNL during the contract period.

9. Further Details/Requirements.

- 9.1. Before proceeding with the execution of the aforesaid work, the Contractor shall fully familiarize himself with the site conditions. It shall be the responsibility of the Contractor to arrange all inputs required for detailed engineering and execution. The Bidders are advised to visit the sites, collect all necessary inputs and acquaint themselves with the topography, infrastructure etc. The Contractor shall be fully responsible for providing all equipment, materials, system and services specified or

otherwise which are required for complete implementation of Feeder Monitoring System.

Test Instruments, Spares and Training as per tender specifications.

The Contractor shall also be responsible for the overall co-ordination with external agencies, project management, loading, unloading, handling, transporting to final destination for successful implementation of Feeder Monitoring System for Discom as per the scope of work detailed in the tender Documents.

- 9.2. In addition to above, following shall also be covered under the scope in the manner mentioned hereunder.

The number of Sub-stations may increase during the execution period of project as well during running & maintenance of five years. All the equipment and associated items required for such works may increase accordingly shall be supplied & erected/commissioned. During the currency of contract i.e. up to expiry of O&M period, in case of installation of entity from existing numbers, the vendor shall arrange to include the same in the system. In case of increase of such number at different level shall attribute to the monthly payment accordingly.

- 9.3. The System shall be scalable up to 15000 Nos. of feeder meters and shall be capable to successfully interface with other systems of purchaser.

- 9.4. The contractor will also be responsible for obtaining the required Internet connectivity for the Central backup Centre, GPRS /EDGE/3G/4G/5G/LTE/CDMA for field devices from service providers. The recurring charges shall be borne by the purchaser. The Purchaser will however provide the necessary support if required in getting the clearances.

Although all precautions have been taken to prepare this specification, the detailed specifications may have contradictory provisions or redundant provisions at different clauses. In such cases the specifications clause, which is beneficial to Discom, shall be considered for the interpretation.

10. Communication from Substation to Central Data Centre: The communication from the field to Central Data Centre shall be through the GPRS/EDGE/3G/4G/5G/LTE/CDMA connectivity using TCP/IP protocol. The data from the Substation shall travel the following route to reach the Data Centre:

- i) Request from Controller card of Data Collection and transmission infrastructure / device to feeder Meters (Auto request at user defined interval which may vary from 15 minutes to 1 hour)

- ii) Data sent by the Feeder Meter to Data Collection and transmission infrastructure / device
- iii) Data Collection and transmission infrastructure / device shall have sufficient memory to store data.
- iv) The Data Collection and transmission infrastructure / Device shall be programmed to send data through GPRS/EDGE/3G//4G//5G/LTE/CDMA/SIM at user defined interval for high speed Data communication.

The Central Data Center (Cloud) and Backup system shall be synchronized at least once in 24 hour.

11. MINIMUM TECHNICAL SPECIFICATIONS OF HARDWARE TO BE DEPLOYED AT BACKUP DATA CENTRE:

11.1. Server: 02 Nos.

- i. **CPU:** 1 x Quad Core Intel Xeon MP 2.0 GHz processor expandable to 2 processors
- ii. **Operating System:** MS Windows Server/Linux
- iii. **Hard Disk:** 2*300 GB Hot Swappable SAS HDD
- iv. **Memory:** 32 GB RAM expandable to 64 GB
- v. **Form Factor:** Rack
- vi. **Expansion:** Required expansion slots for scalability and extendibility.

11.2. Work Stations: 4 Nos.

- i. **Operating System:** Windows 10.
- ii. **CPU:** Intel I5 2.4 GHz or greater
- iii. **Hard Disk:** 500 GB HDD
- iv. **Memory:** 8 GB RAM
- v. **Monitor:** 17" LED/LCD

11.3. Printers

A4 Laser Printer

(A4 Size) – Up to 15 ppm, 600 x 600 dpi, black up to 5,000 pages per month duty cycle

11.4. Networking Equipment and connectivity as per requirement

Standard 24 port switch with 10/100/1000 mbps speed

11.5. Furniture

Vendor shall arrange appropriate furniture of reputed make to house all its staff, hardware and operators.

12. Scalability: The entire system including hardware and software shall be designed and deployed for the capacity 15,000 Nos. of Feeders meters.

13. Training of JODHPUR DISCOM Engineers: The contractor is required to provide Training at Circle level (at Discom premises) to all Engineers from Junior Engineer to Executive Engineers shall be provided as one time activity in depth training to Owners engineers at no cost to JDVVNL on all aspects of the system being supplied. Training module shall be mutually discussed and finalized to cover Owner's personnel to operate, append, modify, trouble shoot, and interface the system with other billing and revenue management through hardware and software linkages. The contractor shall provide all the documentation and write up material for trainees.

The training courses shall be structured and supported by "Illustrations, Video, and Charts. Certified trainers from the vendor's office shall impart the developer and system administration training preferably. The vendor shall provide extensive lecture notes, handouts and other training documents.

14. Maintenance:

The contractor shall be responsible for all the maintenance of the system till the operational period under contract. The consumables and spares wherever required for maintaining the system shall be provide by the contractor till operational acceptance of the system at no cost to JDVVNL.

15. SURVEY

The bidders are presumed to have acquainted themselves with the scope of work of this specification by doing a walk over survey of the area/feeder before submitting their bid.

After award of contract, a detailed survey shall however, required to be done by the contractor along with authorized Engineer of Nigam to assess actual quantum of work. The contractor shall have to execute the works in accordance with the quantities so assessed and approved by the Nigam.

16. WORK PLAN

After completing the work of survey, the contractor shall finalize the programme to commence and execute the work. The contractor shall also take care of the under mentioned points during installation of various equipment.

17. Security & Safety: The system shall provide an integrated security system which allows administrators to create users and grant those users permission to see/use the required

data. The system shall disable a username-password combination after a number of failed login attempts and report it to the Administrator. The number of login attempts shall be settable by administrators as a system setting.

- A. The system provides the following security features:
- i) Access to the system must be authorized by and authenticated by individual Login ID & Password.
 - ii) The system will capture logs of user activities and user logins.
 - iii) The system will protect the integrity and confidentiality of the data by allowing authorized staff access only.
 - iv) The system has the ability to log all access to the system.
 - v) All passwords shall be encrypted
- B. Security is crucial for the Control System. Consequently the system shall be designed with a high degree of security which entails for each unit the following minimum requirements:
- (i) Each component shall be designed so that its failure doesn't initiate inadvertent indications or operations.,
 - (ii) Failure of one component or module shall be localized and cause no further component or system failures,
 - (iii) Incorrect instructions and data, inadvertent operations and unauthorized commands shall be refused.
 - (iv) System security must be given special attention, in particular neither incorrect output nor shall inadvertent operations be possible under the following conditions:
 - a. Single component or all component failure,
 - b. When switching over to redundant equipment,
 - c. During preventive or corrective maintenance of equipment, or while testing, notably with reference to the removal or replacement of a plug-in module,
 - d. With software development, debugging, integration or testing,
 - e. When modifying, expanding, adding or testing hardware,

The above list is not exhaustive. All security features for the proposed system shall be described in detail by the Tenderer.

18. Maintainability: The supplied system shall possess, with reference to maintenance, the following minimum features:

- a) It will be of modular design,
- b) Diagnostic and troubleshooting procedures shall be provided to enable field replacements down to module level, when applicable.

- c) Maintenance shall be performed, as far as possible, with standard general purpose instruments and tools.

19. Availability and Performance Standards:

Equipment	Up time
Central Data Center (Servers and Networking)	98% or More .
All Data Collection and transmission infrastructure / device and other Field devices	95% or More .

20. Project Management Schedule and Documentation:

- i. **Project Management:** The Contractor shall assign a project manager with the authority to make commitments and decisions that are binding on the Contractor. Purchaser will designate a project manager to co-ordinate all purchaser project activities. All communications between purchaser and the Contractor shall be coordinated through the project managers. The project managers shall also be responsible for all communications between other members of the project staffs.
- ii. **Project Schedule:** The project implementation schedule is from date of detailed order. Based upon this schedule the bidder shall submit a preliminary implementation plan along with the bid. The detail project implementation schedule shall be submitted by the contractor after award for purchaser's approval, which shall include at least the following activities:
- i) Site Survey
 - ii) Documents submission and approval schedule.
 - iii) Factory & Site Testing Schedule.
 - iv) Database development schedule.
 - v) Hardware purchase & Manufacturing, Software development & integration schedule.
 - vi) Installation schedule.
 - vii) Training schedule.
- The project schedule shall include the estimated period for completion of and its linkage with other activities.

21. Documentation:

- (i) To ensure that the proposed systems conform to the specific provisions and general intent of the Specification, the Contractor shall submit documentation describing the systems to purchaser for review and approval. Further the Contractor shall also submit the drawings/ documents for all the hardware & software required for site installation, testing and commissioning and thereafter operation of the system. The contractor shall obtain approval of purchaser for the relevant document of each stage before proceeding for manufacturing, system development, factory testing, site testing, training etc. The schedule for submission / approval of each document shall be finalized during the discussions before placement of the contract; this schedule shall be in line to overall project schedule.
- (ii) The contractor shall prepare and submit 3 sets of all the standard and customized Data Collection and transmission infrastructure / device documents for review and approval which includes the following.
 - (a) Function design document.
 - (b) Hardware description document.
 - (c) Test equipment user document.
 - (d) Operation and maintenance document.
 - (e) Training documentation.
 - (f) Data base documentation.
 - (g) Test procedures.
 - (h) Data requirement sheets of all items.
 - (i) Infrastructure installation, layout, GA, BOQ, schematics and internal wiring drawings for each Data Collection and transmission infrastructure / device site.
 - (j) Cabling details for each site.

22. INCEPTION/FDS REPORT: In order to ensure the better execution of the proposed work in a scientific and managerial way, the vendor shall furnish an inception report within 30 days of awarding the contract. The inception / FDS report shall contain the following:

- i) Detailed methodology/ project report/ modus operandi to be adopted to execute the contract.
- ii) Resources with list of man power to be deployed to execute the contract
- iii) Detailed list of inputs to be required from the Discom.
- iv) Clearly spell-out the obligation to be completed for execution of the work.

- v) Detailed Functional design & specification of the equipments to be installed at every location with GTP (Guaranteed Technical Particulars).
- vi) Testing procedure as per the relevant clause of the specification.
- vii) Detailed methodology of Training system.
- viii) Break up of total time schedule allowed for completion of supply in GANTT chart. The GANTT chart shall include milestone of approval of types and makes.
- ix) Type of communication system proposed at each S/S

The Discom on receipt of the inception/ FDS report will furnish its recommendation for any modification, if required, within 15 days of receipt the same. If no communication is received from the Discom within the stipulated period it shall be presumed that the inception report is in order and you may go ahead to start the work accordingly.

23. SCHEDULE OF REQUIREMENT (Approximate) :

Sr.No.	Discom	Circle	No. of feeders
1.	JdVVNL	11 Nos.	4277

The Protocol of the Meters shall be provided to the vendor by the Designated Officer Likely by MM/M&P wing.

SECTION 6: TECHNICAL PROPOSAL SUBMISSION SHEET**BIDDER TECHNICAL OFFER COVER LETTER**

To be submitted complete with all enclosures.

The Superintending Engineer (M&P-ZPC)

New Power House

JdVVNL-342003

SUB: We submit our technical offer for the work of "IMPLEMENTATION OF FEEDER DATA MONITORING SYSTEM ON BOOT Basis in Jodhpur Discom" against TN- 46.

Dear Sir,

We have submitted our technical offer for work of "IMPLEMENTATION OF FEEDER DATA MONITORING SYSTEM ON BOOT basis in JdVVNL Discom" against TN-46.

We are submitting our proposals for with complete set of enclosures.

We agree for execution of tendered work

We also agree that:

- 1) The prices as mentioned in BOQ.
- 2) The prices quoted are valid for a period of 180 days from the date of opening of "Techno-Commercial bids" or 90 days from the date of opening of "Price Bids" whichever is later
- 3) The quoted / agreed prices are exclusive of the following charges:
 - Enclose details of taxes.
- 4) We also understand that the quantities mentioned in the price schedule shall be meant for bid evaluation; however payment shall be made us on the basis of actual work.
- 5) We have noted the standard terms of payment and undertake to abide by the same.
- 6) We understand that conditional offers are likely to be rejected
- 7) The execution of work shall strictly be in accordance with work completion schedule as given by us. In case we fail to complete the work as indicated therein we shall pay penalty as per specification.
- 8) The material supplied by us shall conform your specification

- 9) We confirm that we agree to adhere to all the commercial terms and conditions as well as the technical stipulation of your specification and there is no deviation. Such acceptance has also been confirmed in prescribed schedules.
- 10) We confirm that we are qualified for bidding in terms of Qualification Requirements specified in the bidding documents and have submitted the requisite qualification Certificate & data / documents with the bid.
- 11) Until a formal contract is prepared and executed, this together with your written acceptance thereof in your notification of award shall constitute a binding contract between us.
- 12) We understand that the quantity mentioned in the financial schedule is just for evaluation purpose and except the fixed monthly charges all charges shall be paid on actual work basis.
- 13) We understand that Discom reserves the right to invite detailed proposals from any private entrepreneur-company; irrespective of the fact whether the company or entrepreneur has been pre-qualified.
- 14) We also understand that the Discom reserves the right to reject any or all of the bids without assigning any reason thereof.

We agree to abide by all the conditions governing the proposals and decisions of the Discom.

Enclosed:

1. Annexure 1: General profile of the bidder
2. Annexure 2: Financial capabilities
3. Annexure 3: Compliances of Pre-Qualification Requirement
4. Annexure 4: Proposed System
5. Annexure 5: Details of Dash Board and Query Builder
6. Annexure 6: Approach & Methodology for executing this project (Details of the system proposed; a write up on the system that would be installed / developed to meet the requirements as specified in scope of work) (Bidders format).
7. Annexure 7: Manufacturer Authorization Form (MAF).
8. Annexure 8: Project Implementation plan. (Bidders format).
9. Annexure 9: Schedule of deviations (tech & commercial deviation)
10. Annexure 10: Confirmation of "No deviation" in technical / commercial terms and conditions of this tender
11. Power of Attorney / Board Resolution in favour of signatory of the bid. (Bidders format).
- 12. An undertaking on Rs 100/- Stamp Paper that all the information against schedules, Annexure 1- 10, Certificates etc. furnished are correct and if in future Discom discover**

that any information furnished is not true, same may lead to the rejection of bid or termination of contract.

Thanking you,

Yours faithfully,

Designation_____

Date:

ANNEXURE – 1: GENERAL PROFILE OF THE BIDDER

Kindly attach a copy of latest RoC to substantiate the information furnished against general profile of the bidder

Details	Responses
Full legal name of the firm	
Year of establishment	
Registered Office Address	
Address for Correspondence	
Telegraphic Address	
Authorized person(s) to be contacted	
Telephone number(s)	
Email id	
Fax number	
Names and Addresses of the Firm	
Type of the firm Private limited/Public limited/ Government sector /other	
Whether registered under companies act or any other act	
Registration Number & Date	
Total number of permanent employees in the firm	

In case of Joint Venture / Consortium, separate sheet to be furnished for each member.

ANNEXURE – 2: FINANCIAL CAPABILITIES

S. No	Financial Year	Turn Over (in INR)	Reserve and Surplus (In INR)
1	FY 2016-2017		
2	FY 2017-2018		
3	FY 2018-2019		

S. No	Financial Year	Net worth (in INR)	Reserve and Surplus (In INR)
1	FY 2016-2017		
2	FY 2017-2018		
3	FY 2018-2019		

Enclose audited Balance Sheets of the aforementioned FYs signed by chartered accountant.

Note: In case of Joint Venture / Consortium separate sheet of financial capability of each member shall be furnished.

ANNEXURE – 3: COMPLIANCE OF PRE QUALIFICATION REQUIREMENT

S.No.	Criteria	Supporting Documents Required	List of Documents furnished by the Bidder
4.1	Proposals shall be submitted by an individual Bidder or through Joint Venture.	Self-Declaration	
4.2	<p>2.3. The Bid may be submitted by Single Bidders OR by a valid consortium of maximum Two members as detailed here under.</p> <p>B. The single bidder may be</p> <p>VI. Distribution Franchise OR</p> <p>VII. Distribution Licensee OR</p> <p>VIII. Meter Manufacturer IX. IT based company X. Automation Company</p> <p>an Information Technology Services Company / Automation Company registered in India as per Indian Companies ACT and should have been providing services to power utilities in India for the past 3 years</p>	Certificate of Incorporation, MOU, AOA and other relevant certificate to substantiate the same.	
4.3	The bidder (Single) / Lead bidder (JV) shall have experience of providing System Integration Services involving supply, deployment of Hardware, Software Development & Manpower to power utilities in India in any one of services like Meter Data Downloading & generating Reports, Meter Data	Proof of Work Orders & Performance Certificates to be submitted.	

	Management, Meter Data Acquisition in last 3 years. Experience of bidder as Consortium Member or sub contract Works shall not be considered		
4.4	The Lead bidder should be ISO 9001:2008 (Quality Management System)	Valid Certificates should be submitted.	
4.5	The bidder (Single) / Lead bidder (JV) should have a total turnover of Rs 35 Crores during the last three financial years ending on 31-03-2019 (i.e. for the 2016-17 & 2017-18 & FY 18-19). In case of consortium / Joint Venture, the lead bidder should meet minimum 75% of the Turnover requirement.	Copy of the audited statement of accounts (PL Account & Balance Sheet) duly certified by the Chartered Accountant to be submitted as a proof of turnover.	
4.6	The bidder should not have been black listed by any power utility in India.	Self-Declaration	
4.7	The bidder should have a minimum net worth of at least 12 Crore during last financial year ending. In case of consortium / Joint Venture, the lead bidder should meet minimum 75% of the net worth requirement.	Copy of the audited statement of accounts (PL Account & Balance Sheet) duly certified by the Chartered Accountant to be submitted as a proof of net worth.	

NOTE:-

1. In case of non-furnishing of requisite document along with the bid the bid will be considered as non-responsive and bid will be summarily rejected.

2. Joint Venture / Consortium mean One Lead Partner and One other partner

ANNEXURE – 4: PROPOSED SYSTEM (BILL OF MATERIAL)

Following details are to be furnished:

- (i) Details of cloud computing for hosting of application with Infrastructure details to be arranged.
- (ii) Detailed Data Sheet of Application Software indicating compliances of the Specification
- (iii) Details of tests of software / system with stage of testing
- (iv) Details of Mobile application
- (v) Details of system / Infrastructure to be deployed at Backup Center
- (vi) Details of Manpower, Office setup etc.
- (vii) Details of Training to be provided
- (viii) Details of connectivity (all Types)
- (ix) Details of Catalogue of services to be published.
- (x) Provide network schematic diagram showing all locations and components
- (xi) Details of Data Collection and transmission infrastructure / device

ANNEXURE – 5: DETAILS OF DASHBOARD AND QUERY BUILDER

The following details should be provided:

- (i) Details of Dash Board with availability of feature report available for Discom User.
- (ii) Details of Report / Information available on Public Portal
- (iii) Details of Information available on Mobile application.
- (iv) Details of Reports which can be available on query builder.
- (v) Details of the graphical dashboard on Rajasthan Map on the basis of Geo references

ANNEXURE – 6: APPROACH & METHODOLOGY FOR EXECUTING THIS PROJECT

Provide detailed approach and methodology for executing this project.

Kindly explain the approach in details

ANNEXURE 7: MANUFACTURE'S AUTHORIZATION FORM

No. _____

dated

To

**The Superintending Engineer (M&P-ZPC)
Jodhpur Vidyut Vitran Nigam Limited
New Power House
Jodhpur-342003**

Dear Sir:

We _____ who are established and reputable manufacturers of (name and descriptions of goods offered) having factories at _____ (address of factory) do hereby authorize M/s _____ (Name and address of Agent) to submit a bid, and sign the contract with you for the goods manufactured by us against the above Tender No.....

We hereby extend our full guarantee and warranty as per the conditions of the tender.

Yours faithfully,

(Name) (Name of manufacturers)

Note: This letter of authority should be on the letterhead of the manufacturer and should be signed by a person competent and having the power of attorney to legally bind the manufacturer. It should be included by the Bidder in its bid.

(The item or items for which this is required should be specified by Purchaser.)

ANNEXURE – 8: PROJECT IMPLEMENTATION PLAN

The total completion period for **Feeder Data Monitoring System on BOOT Basis in Jodhpur Discom** shall be as under:

S.NO	PARTICULAR OF ACTIVITY	TIME SCHEDULE DESIRED
1	FURNISHING DETAILED ROAD MAP	WITH IN 15 DAYS FROM THE DATE OF AWARDING CONTRACT
2	SUBMISSION OF DETAILED DATA SHEET OF SOFTWARE	WITHIN 30 DAYS FROM THE DATE OF WORK ORDER
3	PROOF OF CONCEPT	WITHIN 60 DAYS FROM THE DATE OF WORK ORDER.
4	COMMENCEMENT OF INSTALLATION OF SUBSTATION EQUIPMENT	WITHIN 90 DAYS FROM THE DATE OF WORK ORDER AND TO BE COMPLETED WITHIN 365 DAYS OF THE WORK ORDER
5	COMMENCEMENT OF SYSTEM IN ONE CIRCLE WITH HOSTING ON CLOUD COMPUTING	4 MONTHS FROM THE DATE OF WORK AWARD
6	COMMENCEMENT OF SYSTEM IN ENTIRE AREA	12 MONTHS FROM THE DATE OF WORK AWARD

ANNEXURE – 9: SCHEDULE OF DEVIATIONS**Technical Deviations**

S. No	JDVVNL'S specification clause	Deviation sought by the bidder
1		
2		
3		
4		
5		

Commercial Deviations

S. No	JDVVNL'S specification clause	Deviation sought by the bidder
1		
2		
3		
4		
5		
6		
7		

ANNEXURE – 10: CONFIRMATION OF “NO DEVIATION” IN TECHNICAL / COMMERCIAL TERMS AND CONDITIONS OF THIS TENDER

Bidder's Name & Address:

To

The Superintending Engineer (M&P-ZPC)

Jodhpur Vidyut Vitran Nigam Limited

New Power House

Jodhpur-342003

Dear Sirs,

Sub: Confirmation for “No Deviation” in Technical / Commercial terms & conditions against TN
.....

We hereby confirm that there is no deviation in technical / commercial terms & conditions stipulated in the bidding documents and we agree to adhere the same strictly.

(Signature).....

Date :

Place :

(Name).....

(Designation).....

(Common Seal).....

UNDERTAKING FOR VARIOUS INFORMATION FURNISHED AGAINST TN-46

(To be furnished on Rs 100/- Stamp Paper)

Bidder's Name & Address:

To

The Superintending Engineer (M&P-ZPC)

Jodhpur Vidyut Vitran Nigam Limited

New Power House

Jodhpur-342003

Dear Sirs,

Sub: Undertaking for various information against TN

We hereby confirm that that all the information against all the schedules, Annexure (1-10) and all other Certificates etc. furnished are correct and if in future Discom discover that any information furnished is not true, same may lead to the rejection of bid or termination of contract.

(Signature).....

Date :

Place :

(Name).....

(Designation).....

(Common Seal).....

Section:-7 GUIDELINES FOR FINANCIAL BID SUBMISSION

(Not to be filled here)

(Financial offer has to be furnished in BOQ excel file).**NOTE: BIDDER IS REQUIRED TO READ CAREFULLY THE FOLLOWING BEFORE QUOTING THE PRICES**

- i) The format enclosed herewith is to be used to quote the price. No other format shall be used.
- ii) The price bid in the other formats may be rejected.
- iii) No cover letter is required to be enclosed with the price bid.
- iv) The quoted prices are exclusive of applicable tax/GST any statutory variation and imposing new tax by government shall be on Discom account.
- v) Price schedule is for reference purpose only. Bidder has to quote the price in BOQ.xls only.
- vi) Bidder must furnish details of applicable taxes/duties/GST along with technical bid in following format.

Please do not fill the prices here.

Sl. No.	Item Description	Quantity	Units	Quoted Currency in INR / Other Currency	Per month per meter Unit Rate in Rs. (Exclusive of applicable tax/GST)	Total Charges in INR (Exclusive of applicable tax/GST) for 60 Month	TOTAL AMOUNT InWords(Exclusive of applicable tax/GST)
a	b	c	d	e	f	$g = f \times c \times 72$	h
1.1	Installation of modem with Sim on 11 KV feeders in IPDS town and operate feeder data monitoring system on Capax & Opex model.	470	Nos	INR			INR
1.2	Installation of modem with Sim on 11 KV feeders	3807	Nos	INR			INR

	in RAPDRP town & Rural area and operate feeder data monitoring system on service model.						
Total in Figures						0.00	INR Zero Only
Quoted Rate in Words							

CLARIFICATION REGARDING BID PRICE SCHEDULE: The bidder will furnish the type of each tax clearly, as per the prevailing rate on the bid date in compliance document of financial offer. Any statutory variation and imposing new tax by government subsequently during the currency of contract shall be on JDVVNL account.

Bid Bank Guarantee
(FOR EARNEST MONEY)

(To be stamped in accordance with value specified in this bidding document, the Non-Judicial Stamp Paper of Rajasthan should be in the name of the issuing Bank)

Bank Guarantee No.:

Date:

To:

The Superintending Engineer [M&P-ZPC]
Jodhpur Vidyut Vitran Nigam Ltd.,
New Power House
JODHPUR-342003

WHEREAS M/s. (insert name of Bidder)..... having its Registered/Head Office at (insert address of the Bidder) (hereinafter called "the Bidder") has submitted its Bid for the performance of the Contract for.....(insert name of the Package).....under.....(insert Specification No)..... (hereinafter called "the Bid")

KNOW ALL PERSONS by these present that WE (insert name & address of the issuing bank) having its Registered/Head Office at(insert address of registered office of the bank)..... (hereinafter called "the Bank"), are bound unto JdVVNL Vidyut Vitaran Nigam Limited (hereinafter called "the Employer") in the sum of(insert amount of Bid Security in figures & words)..... for which payment well and truly to be made to the said Employer, the Bank binds itself, its successors and assigns by these presents.

Sealed with the Common Seal of the said Bank this day of 20....

THE CONDITIONS of this obligation are:

- (1) If the Bidder withdraws its bid during the period of bid validity specified by the Bidder in the Bid Form; or
- 2) In case the Bidder does not withdraw the deviations proposed by him, if any, at the cost of withdrawal stated by him in the bid and/or accept the withdrawals/rectifications pursuant to the declaration/confirmation made by him in Attachment – Declaration of the Bid; or

- (3) If the Bidder does not accept the corrections to arithmetical errors identified during preliminary evaluation of his bid; or
- (4) In the case of a successful Bidder, if the Bidder fails within the specified time limit
- (i) to sign the Contract Agreement, or
- (ii) to furnish the required performance security, or
- (6) In any other case specifically provided for in the bidding document.

We undertake to pay to the Employer up to the above amount upon receipt of its first written demand, without the Employer having to substantiate its demand, provided that in its demand the Employer will note that the amount claimed by it is due to it, owing to the occurrence of any of the above-named CONDITIONS or their combination, and specifying the occurred condition or conditions.

This guarantee will remain in full force up to and including (insert date, which shall be the date 30 days after the period of bid validity)....., and any demand in respect thereof must reach the Bank not later than the above date.

For and on behalf of the Bank

[Signature of the authorised signatory(ies)]

Signature_____

Name_____

Designation_____

POA Number_____

Contact Number(s): Tel. _____ Mobile _____

Fax Number _____

email _____

Common Seal of the Bank _____

Witness:

Signature _____

Name _____

Address _____

Contact Number(s): Tel. _____ Mobile _____

email _____

Note:

1. The Bank Guarantee should be in accordance with the proforma as provided. However, in case the issuing bank insists for additional paragraph for limitation of liability, the following may be added at the end of the proforma of the Bank Guarantee [i.e., end paragraph of the Bank Guarantee preceding the signature(s) of the issuing authority (ies) of the Bank Guarantee]:

Quote

“Notwithstanding anything contained herein:

1. Our liability under this Bank Guarantee shall not exceed _____ (value in figures) _____ [_____ (value in words) _____].

2. This Bank Guarantee shall be valid up to _____ (validity date) _____.

3. We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only & only if we receive a written claim or demand on or before _____ (validity date) _____.”

Unquote