



RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LTD.
Corporate Identity Number (CIN) – U40102RJ2000SGC016484
Regd. Office & H.O.: Vidyut Bhawan, Janpath, Jyoti Nagar, Jaipur-302005
OFFICE OF THE ADDL. CHIEF ENGINEER (THERMAL DESIGN)
Room No. 307, Vidyut Viniyamak Bhawan, Near State Motor Garage,
Sahakar Marg, Jaipur – 302005, email id: se.td2@rrvun.com

No. RVUN/CE(TD)/ACE(TD)/XEN (TD-B)/D. Dated 962

16/9/19

CORRIGENDUM-V

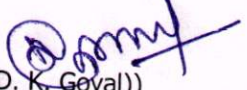
REPLY OF PRE-BID QUERIES AND EXTENSION IN LAST DATE OF BID SUBMISSION AND BID OPENING FOR IMPLEMENTATION OF ABT MONITORING, DATA ACQUISITION AND ABT ANALYSIS FOR GENERATING STATIONS OF RVUN AS PER SPECIFICATION AGAINST NIT NO. TN-04/2019-20
(Tender notification to be exhibited on website www.energy.rajasthan.gov.in/rvun/)

1. The reply of pre-bid queries for "Implementation of ABT Monitoring, Data Acquisition and ABT analysis for generating stations of RVUN as per specification against NIT No. TN-04/2019-20" as per enclosed Annexure-I, is hereby issued.
2. The important dates of above NIT No. TN-04/2019-20 is hereby changed / extended wherever mentioned in the NIT & tender documents, as per following:-

S. No.	Events	Date & Time as per NIT	Extended / Changed Date & Time	Website/Office address
a)	Date & time for down loading of tender document	From 18.55 Hrs of 28.05.19 to 14.00 Hrs of 19.06.19	From 18.55 Hrs of 28.05.19 to 14.00 Hrs of 03.10.19	http://www.eproc.rajasthan.gov.in
b)	Last Date & time for on-line submission of tender document	19.06.19 up to 14.00 Hrs	03.10.19 up to 14.00 Hrs	http://www.eproc.rajasthan.gov.in
c)	Last Date & time for deposition of earnest money, tender fee and processing fee in physical form	19.06.19 up to 16.00 Hrs	03.10.19 up to 16.00 Hrs	Office of Dy. CE(TD-II), RVUN, Jaipur, Room No.-307, 3 rd Floor Vidhyut Viniyamak Bhawan, Sahkar Marg, near State Motor Garage Jaipur
d)	Date & time for opening of technical bid	20.06.19 at 11.00 Hrs	04.10.19 at 11.00 Hrs	http://www.eproc.rajasthan.gov.in
e)	Opening of price bid	To be intimated later	To be intimated later	http://www.eproc.rajasthan.gov.in


Notes:-

- (i) If dates mentioned against S. No. c) & d) in the above schedule are declared public holiday, the deadline will be the next working day.
- (ii) All other terms & conditions shall remain unchanged.


(D. K. Goyal)
Addl. Chief Engineer (TD)
RVUN, Jaipur

Copy submitted/ forwarded to the following for information and necessary action:-

1. The Chief Engineer (TD/KTPS/SSTPS/SSCTPP/CTPP/CSCTPP/KaTPP/DCCPP/RGTPP/GLPL), RVUN, Jaipur / Kota / Suratgarh / Chhabra/Kalisindh, Jhalawar/Dholpur / Ramgarh / Giral.
2. The Addl. Chief Engineer (PPMC&IT), RVUN, Jaipur.
3. The Superintending Engineer (IT / Comml.), LIC Building, RVUN, Jaipur.
4. The Sr. Accounts Officer (TD), RVUN, Jaipur.
5. The Executive Engineer (IT), RVUN, Jaipur, for uploading the same on RVUN website.
6. Notice board.


Addl. Chief Engineer (TD)
RVUN, Jaipur

29 N.H.

Annexure-I**Reply of pre-bid queries for "Implementation of ABT monitoring, Data acquisition and ABT analysis for generating stations of RVUN" against NIT No. TN-04/2019-20.**

S. No.	As per specifications	Bidder's queries	RVUN Comments
1.	<p>Notice Inviting tender: Clause no. 3: Eligibility Criteria: 2) The bidder should have successfully executed / supplied installed & commissioned ABT Metering System, data collection with networking and report generation for the work of On Line Energy Accounting and Management system in power sector company during last 7 years ending last day of month previous to the one in which bids are invited should be either of the following:- Three similar completed / executed works costing not less than Rs. 320 Lacs each. OR Two similar completed / executed works costing not less than Rs. 400 Lacs each. OR One similar completed / executed works costing not less than Rs. 640 Lacs.</p> <p>3) In support of above, bidder shall furnish documentary evidence like copies of work order, satisfactory performance certificate / work completion certificate for above works executed by the firm issued by owner / order placing authority.</p>	<p>Since, the work is very specific to ABT Metering, Bidder requested to please amend as: 2) The bidder should have successfully executed / supplied installed & commissioned ABT Metering System along with AMC in power sector company during last 7 years ending last day of month previous to the one in which bids are invited should be either of the following:- Three similar completed / executed works costing not less than Rs. 320 Lacs each. OR Two similar completed / executed works costing not less than Rs. 400 Lacs each. OR One similar completed / executed works costing not less than Rs. 640 Lacs.</p> <p>3) In support of above, bidder shall furnish documentary evidence like copies of work order, satisfactory performance certificate / work completion certificate for above works executed by the firm issued by owner / order placing authority.</p>	<p>The same will be as per NIT / tender documents.</p>
2.	<p>Notice Inviting tender: Clause no. 3: Eligibility Criteria: 2) The bidder should have successfully executed / supplied installed & commissioned ABT Metering System, data collection with networking and report generation for the work of On Line Energy Accounting and Management system in power sector company during last 7 years ending last day of month previous to the one in which bids are invited should be either of the following:- Three similar completed / executed works costing not less than Rs. 320 Lacs each. OR Two similar completed / executed works costing not less than Rs. 400 Lacs each. OR One similar completed / executed works costing not less than Rs. 640 Lacs.</p> <p>3) In support of above, bidder shall furnish documentary evidence like copies of work order, satisfactory performance certificate / work completion certificate for above works</p>	<p>Bidder intimated that the project is having major scope for ABT compliant Meters and there are very few Indian manufacturers to have this capability to design and manufacture such high precision Meters. Please amend the PQR as per the prevailing PQR of other Discoms/Power Utilities of India:- i)The Bidder must possess bureau of Indian Standard Certification (ISI mark) for meter manufactured in India and should be original manufacturer of 0.2 Class energy meter with LCD display & amp; optical communication port. ii) Bidder should have minimum experience of Five years of supply and manufacturing for 0.2 Class static energy meters. Documentary evidence in support of the same shall be submitted with the bid. iii) The bidder should have supplied minimum 2250 nos. of Class 0.2 Meters to different utilities in India in last five years and</p>	<p>The same will be as per NIT / tender documents.</p>

	<p>executed by the firm issued by owner / order placing authority.</p>	<p>performance certificates of minimum 450 nos. Energy meters for at least one year from different utilities shall be submitted with the bid.</p> <p>iv) Bidder should have CMMI Level 3 certification, Certificate of the same shall be closed with the bid.</p> <p>v) The Energy meter should be type tested from CPRI/ERDA/NABL Accredited lab. A copy of type test report should be submitted with the bid.</p> <p>vi) Experience of having successfully completed similar works during last 7 years ending last day of month previous to the one in which applications are invited should be either of the following:</p> <p>(a) Three similar completed works costing not less than the amount equal to Rs. 14.49 Crore. or</p> <p>(b) Two similar completed works costing not less than the amount equal to Rs. 18.11 Crore. or</p> <p>(c) One similar completed work costing not less than the amount equal to Rs. 28.98 Crore.</p> <p>Similar completed works mean Supply, Installation, commissioning and data acquisition of static energy meter installed at various utilities.</p>	
<p>3.</p>	<p>Notice Inviting tender: Clause no. 3: Eligibility Criteria: 2) The bidder should have successfully executed / supplied installed & commissioned ABT Metering System, data collection with networking and report generation for the work of On Line Energy Accounting and Management system in power sector company during last 7 years ending last day of month previous to the one in which bids are invited should be either of the following:-</p> <p>Three similar completed / executed works costing not less than Rs. 320 Lacs each. OR Two similar completed / executed works costing not less than Rs. 400 Lacs each. OR One similar completed / executed works costing not less than Rs. 640 Lacs.</p> <p>3) In support of above, bidder shall furnish documentary evidence like copies of work order, satisfactory performance certificate / work completion certificate for above works executed by the firm issued by owner / order</p>	<p>The Bidder should be Indian manufacturer of Energy Meters & OEM for ABT monitoring software for On Line Energy Accounting and Management system.</p> <p>SI (System Integrator) should be a CMMI level-5 certification.</p> <p>SI (System Integrator) should be a ISO 27001 certification.</p> <p>(System Integrator) should be a ISO 9001: 2008 certification.</p> <p>Turnover for last three years not less 100 Cr.</p> <p>The bidder should have successfully executed / supplied installed & commissioned ABT Metering System, or any data collection system with networking and report generation for the work of On Line Energy Accounting and Management system in power sector company during last 7 years ending last day of month previous to the one in which bids are invited should be either of the following:-</p> <p>Three similar completed / executed works</p>	<p>The same will be as per NIT / tender documents.</p>

	placing authority.	costing not less than Rs. 320 Lacs each. OR Two similar completed / executed works costing not less than Rs. 400 Lacs each. OR One similar completed / executed works costing not less than Rs. 640 Lacs. Similar completed works mean Supply, Installation, commissioning and data acquisition system (consisting of field devices)	
4.	The bidder should have successfully executed / supplied, installed & commissioned ABT Metering System, data collection with networking and report generation for the work of On Line Energy Accounting and Management system in power sector company during last 7 years ending last day of month previous to the one in which bids are invited should be One similar completed / executed works costing not less than Rs. 640 Lacs.	IN case of MSME the total estimated value should be reduced.	The same will be as per specification / NIT and RTPP Act.
5.	Consortium with any firm / vendors shall not be allowed.	Please amend this PQR as "Consortium with any 03 firm / vendors shall be allowed." For Financial Qualification Criteria, lead partner of JV Firms should meet minimum 50% of Financial Qualification Requirement (FQR) and collectively meet total Financial Qualification Requirement of the respective tender. All partners of JV Firms should have the experience for activities of Construction/Manufacturing of items or equipments/Supply of items or equipments or products, meant for any utility.	The same will be as per NIT / tender documents.
6.	Pre-Qualifying requirements:	Whether Rajasthan SME will get QR relaxation as per Rajasthan government purchase policy.	The same will be as per specification / NIT and RTPP Act.
7.	Notice Inviting tender: Clause no. 1: General details of tender: 3) Earnest Money Deposit: The bid must be accompanied by Earnest Money Deposit amounting to Rs. 16,00,000/- (Rs. 10,00,000/- in the form of DD/BC or through NEFT/IMPS/RTGS in favour of Sr. Accounts Officer (TD), RVUN, Jaipur and Rs. 6,00,000/- in the form of Bank Guarantee in favour of Chief Engineer (TD), RVUN, Jaipur in the prescribed format).	Bidder requested to accept full EMD amount of Rs. 16,00,000/- in the form of B.G from the nationalize bank.	The same will be as per NIT / tender documents.
8.	The bid must be accompanied by Earnest Money Deposit amounting to Rs. 16,00,000/-.	Rajasthan SME will get EMD & fee relaxation as per Rajasthan government Purchase Policy.	The same will be as per rules & regulations mentioned in the RTPP Act' 2012 and 2013
9.	Section I Instructions to Bidders (ITB)	Since, the project is to be carried out on turnkey basis i.e. supply, installation at	The same shall be as per NIT / tender

	<p>Clause no. 1.33 Work Completion Period: The Bidder shall complete the work within 06 (Six) months from the date of issue of LoI.</p>	<p>various locations and require approval of drawings and fulfilling of other contractual formalities; we request that the work completion period should be either linked from approval of specs, drawing, site clearance etc. or it should be on milestone basis i.e. achievement of each activity.</p>	<p>documents.</p>
10.	<p>Work completion time is 6 months from the date of issue of LOI.</p>	<p>As the work is a big order and need lot of clearance and steps hence the completion time should be more 24 months, hence turnover is also reduced.</p>	<p>The same shall be as per tender documents.</p>
11.	<p>Section II General conditions of contract Clause no. 4.30 Liquidated Damages: i. To recover from the contractor ½% (half percent) of the accepted contract price (except AMC portion) for delay of each week or part thereof. ii. The recovery of such amount will be limited to maximum of 10% of the accepted contract price (except AMC portion).</p>	<p>As per work is to be performed at different location and has wide scope of work, we request you to please amend the clause as: i) To recover from the contractor ½% (half percent) of the delayed portion price (except AMC portion) of each week or part thereof. ii. The recovery of such amount will be limited to maximum of 10% of the delayed portion price (except AMC portion).</p>	<p>The same shall be as per NIT / tender documents.</p>
12.	<p>Section II General conditions of contract Clause no. 4.40 Terms of payment: A. Payment towards supplies, installation and commissioning:- The contractor shall be entitled to payment as follows:- i. 70% (Seventy percent) payment against each supply along with 100% taxes & duties. ii. 20% (Twenty percent) payment will be made after installation, commissioning and satisfactory completion of entire system. For this, supplier shall produce a certificate from engineer-in-charge of respective site along with the invoice that all items / material have been received as per contract and required items & material have been successfully installed, commissioned and working satisfactorily at respective site. iii. Balance 10% (Ten percent) will be made after 12 months from the date of successful completion of entire system and also on fulfillment of all contractual obligations by the supplier. Or Alternatively, the supplier may submit the Performance Bank Guarantee of 10% of total supplied items on Non Judicial Stamp Paper of Govt. of Rajasthan of required rate as per stamp duty act of GoR valid upto 12 months from the date of successful</p>	<p>a) As per the price Schedule format provided, a common price is to be provided for Supply, installation and commissioning of each item whereas as different payment terms are specified for supply and installation. Hence, we suggest that there should be separate price schedule for Supply & Installation of items to avoid any GST complications. b) <u>As the scope is turnkey in nature and requires a huge amount of bought out items, we request you to please amend the clause as:</u> A. Payment towards supplies, installation and commissioning:- The contractor shall be entitled to payment as follows:- i. 80% (Eighty Percent) payment against each supply along with 100% taxes & duties. ii. 10% (Ten Percent) payment will be made after installation, commissioning and satisfactory completion of entire system. For this, supplier shall produce a certificate from engineer-in-charge of respective site along with the invoice that all items / material have been received as per contract and required items & material have been successfully installed, commissioned and working satisfactorily at respective site. iii. Balance 10% (Ten percent) will be made</p>	<p>The same will be as per NIT / tender documents.</p>

	completion of entire system and also on fulfillment of all contractual obligations by the supplier.	after 12 months from the date of successful completion of entire system and also on fulfillment of all contractual obligations by the supplier. Or Alternatively, the supplier may submit the Performance Bank Guarantee of 10% of total supplied items on Non Judicial Stamp Paper of Govt. of Rajasthan of required rate as per stamp duty act of GoR valid upto 12 months from the date of successful completion of entire system and also on fulfillment of all contractual obligations by the supplier.	
13.	Section-III Technical Specification Clause no. 2 Scope of work F. The successful bidder shall provide 01 No. client PC in each unit of every plant..... H. (iii) Data Acquisition, online monitoring and ABT analysis at Local Station/ Central data centre Figure 1; Architecture Diagram	From the mentioned clauses and architecture diagram, we understand that all plants require independent local monitoring and no centralized monitoring at central location is required for all the plants. Requesting to please confirm the requirement.	The centralized monitoring is required at plant-level only. Centralized monitoring from all plants to one station is not required.
14.	Section-III Technical Specification Clause no. 2 Scope of work S. The ABT meter shall be designed to meet the life expectancy of 20 years. The equipments supplied should be guaranteed for its performance for a minimum period of five (5) years from the date of commissioning or five and a half (5.) years from the date of receipt of last consignment in stores, whichever date is earlier.	As all electronic equipment are regularly upgraded in accordance with technology advancement and moreover the Guarantee period is of 5 years; the life expectancy of 20 years does not seem to have much relevance. Hence, bidder requested to amend the clause as: The ABT meter shall be designed to meet the life expectancy of 10 years. The equipments supplied should be guaranteed for its performance for a minimum period of five (5) years from the date of commissioning or five and a half (5.5) years from the date of receipt of consignment in stores, whichever date is earlier.	The same will be as per NIT / tender documents with up-gradation facility.
15.	Section-III Technical Specification Clause no. 3 System Architecture An application for "Data acquisition and online/ABT monitoring" will be installed at each plant and will get the meter data (instantaneous data only) at a frequency of 1s	The requirement of 1s seems to be quite stringent considering the application. Since, the system will be deployed on OFC and every communication system has a time delay; we request to kindly amend the data frequency from 1s to 5s for ABT monitoring as same can also be adjudged.	The data frequency from 1s to 5s for ABT monitoring is accepted, however, all the meters should be refreshed at the same time.
16.	Section-III Technical Specification Clause no. 5 Data acquisition, online monitoring and ABT analysis at local station 5) The revision in DC & SG at any time shall also be revised in this software automatically. In addition, Manual entry for ABT data such as Generation capacity, Cost of generation for each unit, Cost of coal, DSM criteria etc., planned outage or maintenance activity that are required for the ABT system shall be	The clause seems to be open ended and activities like planned outage are manual in nature. For clarity of scope, we request to limit the requirement to ABT monitoring and eliminate the requirement of planned outage.	The same will be as per tender documents.

	provided. An interface shall allow the Plant operator to enter such data manually.		
17.	Section-III Technical Specification Clause no. 5 Data acquisition, online monitoring and ABT analysis at local station 6) Application will run on local network at plant level can be accessed from any location through web based link for RVUNL officers / officials only to access the application.	We like to bring to your notice that application will run on local network at plant & can be accessed from Intranet for RVUNL officials to access the application. We also suggest to restrict the requirement to intranet as web access will involve more security aspect and further make the requirement more complex.	The centralized monitoring is required at plant-level only. Centralized monitoring from all plants to one station is not required.
18.	Section-III Technical Specification Clause no. 5 Data acquisition, online monitoring and ABT analysis at local station 8) This Self Monitoring and diagnostic unit should cover Microprocessor, EPROM, Measuring elements, battery status and all associated programs.	We would like to bring to your notice that diagnostic tool will monitor all the IP based system status like all TCP/IP meters, servers. The requirement needs to be revisited and accordingly the clause needs to be amended considering the IP based system.	This clause is hereby replaced: - "This Self Monitoring and diagnostic unit should cover measuring elements, and all associated programs."
19.	Section-III Technical Specification Clause no. 6 Consolidated data monitoring at central data centre of each generating station	As mentioned above in Sr. No. 5, we understand that monitoring at each generating station is required. Further common central monitoring for all generating station is not in the scope of tender. We request to clarify the requirement and accordingly modify the requirement of Clause no. 6.	The centralized monitoring is required at plant-level only. Centralized monitoring from all plants to one station is not required.
20.	Annexure-I Clause no. 1.6 Current terminal connection must be shorted when the CT terminal connections at metering terminal been open.	The Meter specification call for flush/wall mounted meter whereas the feature of CT shorting is generally applicable for rack/panel mounted meters. Hence, the requirement of same should not be made mandatory as the requirement can be met through provision of TTB. Hence, we request to amend the clause.	The same will be as per tender documents. However, TTB is to be installed in meter panel.
21.	Annexure-II Clause no. 3.0 Contract and schedule management iv) Software should also have the provision for scheduling of renewable energy generators under renewable regulatory fund (RRF) mechanism	Looking at the scope of tender, all generating station are base load plants. Hence, scheduling of renewable generators is not applicable. Request you to please remove the clause.	The clause for provision for scheduling of renewable energy generators is hereby deleted.
22.	Annexure-II Clause no. 11 Energy Billing The system should be capable of generating monthly, quarterly, yearly energy reports.	We request to please clarify the requirement i.e. purpose of billing, as we understand that the offered software will generate reports.	This is hereby amended as: The system should be capable of generating weekly, monthly, quarterly, yearly energy reports with a provision to evaluate Profit and loss.
23.	Annexure-II Clause no. 12 The software for on line energy	We are offering ABT software to view all ABT	The referred point no. 5,6, and 7 is hereby

	<p>accounting and management system: Clause no. 12.00.01 General</p> <p>5) Data acquisition for metering devices, sensors, and other intelligent electronic devices</p> <p>6) Power Quality analysis (including harmonics, and voltage and current sinusoids)</p> <p>7) Power Quality Compliance to industry standards</p>	<p>parameters from the meter. Further these parameters are not relevant and we request to please re-visit the requirement.</p>	<p>deleted.</p>
24.	<p>Annexure-II Clause no. 12 The software for on line energy accounting and management system: Clause no. 12.00.01 General vi. Oscilloscopic readings of all parameters</p>	<p>We request to clarify the requirement. We understand that same has no relevance and should be deleted.</p>	<p>Bidder's requested is accepted.</p>
25.	<p>Annexure-II Clause no. 12 The software for on line energy accounting and management system: Clause no. 12.00.02 Device support: 4) Onboard historical measurement data, such as energy, demand, power, voltage, current, and power quality 7) Automatic upload of any new onboard historical data to the software database, including: i. Data logs ii. Event logs iii. Alarm logs iv. Waveform logs</p>	<p>We request to clarify the requirement. We understand that same has no relevance and should be deleted.</p>	<p>Bidder's requested is accepted.</p>
26.	<p>Annexure-II Clause no. 12 The software for on line energy accounting and management system: Clause no. 12.00.03 Dashboard: 1. The feature shall provide the ability to view graphical representations of the Power Monitoring system, including electrical one-line diagrams, facility maps, plan views, floor layouts, equipment representations, and mimic displays.</p>	<p>As mentioned we understand that mimic view required. Please confirm the requirement.</p>	<p>The feature shall provide the ability to view graphical representations of the Power Monitoring system, including electrical one-line diagrams, facility maps, plan views, floor layouts, equipment representations</p>
27.	<p>Annexure-II Clause no. 12 The software for on line energy accounting and management system: Clause no. 12.00.03 Dashboard: 3) The diagrams shall provide time-ordered sequence-of-events views for alarms and events. The time resolution of ordering will be 1ms or better.</p>	<p>As mentioned above in Sr. No. 7, the refresh rate for offered solution will be 5 seconds.</p>	<p>The time resolution of ordering is hereby amended to "1 Seconds to 5 Seconds".</p>
28.	<p>Annexure-II Clause no. 12 The software for on line energy accounting and management system: Clause no. 12.00.03 Dashboard:</p>	<p>Generally, the requirement is addressed through standard reports. We request to please confirm the</p>	<p>The requirement should be fulfilled either through standard reports or as</p>

	15) The query shall allow the user to mix, sort, filter and trend the alarm/events and electrical data in any way the user desires (by date, by device, by priority, etc.) in order to provide the user with a limited data set to review and analyze.	requirement.	per specifications.
29.	Annexure-II Clause no. 12 The software for on line energy accounting and management system: Clause no. 12.00.04 Tables:	We request to accept the requirement in line with standard reports as no such guidelines are defined for tables.	The requirement should be fulfilled either through standard reports or as per specifications.
30.	Annexure-II Clause no. 12 The software for on line energy accounting and management system: Clause no. 12.00.05 Alarm and event viewer: Clause no. 12.00.06 Reports: Clause no. 12.00.07 Engineering diagram client: Clause no. 12.00.08 Engineering tool applications:	The requirement seems to be of plant internal monitoring where as the scope of this tender covers ABT Monitoring in line with Clause No. 1 of scope of work (Section-III). Hence, we request you to deal with plant internal monitoring software separately and restrict the requirement of software against this tender to ABT only.	The system will be limited to the supplied meters and in between them only. The EMS for power station is not in bidder's scope. However, a pin / link shall be provided by the supplier to access the data for EMS of power station.
31.	General	In line with Clause No. R of Technical Specification (Section-III), Bidder requested to kindly permit them to visit the site in order to ascertain actual distances and for collecting other necessary information/data.	Bidders are requested to provide details of visit i.e. name of person with designation, date of visit at respective site etc. so that same can be communicated to respective site.
32.	General	In line with Clause No. 1 of scope of work, the requirement of software is for ABT Monitoring whereas the software specs provided in Annexure-II covers software features of ABT and internal plant monitoring also. Hence, the requirement of software requires a re-visit in line with the scope of work.	The system will be limited to the supplied meters and in between them only. The EMS for power station is not in bidder's scope. However, a pin / link shall be provided by the supplier to access the data for EMS of power station.
33.	Specification Annexure-I Clause 1.2: Same meter can be used for CT secondary current rating of 1A & 5A both.	Please delete this requirement. The Meter of 1A & 5A rating have different Meter constant. As per IS 14697 the Meter Constant shall be printed on Name Plate. Having configuration facility of 1A & 5A will deviate from the requirement of IS and also Meter tested for any one rating at lab and configured with different current rating at site may lead to confusion among the testing and field Engineers of the DISCOM.	The same shall be as per tender documents.

34.	Specification Annexure-I Clause 1.4 Power Supply: Meter should be powered through auxiliary supply of 60-240 V AC/DC \pm 20%, 50 Hz Or VT powered. In case of failure of Aux Power supply, meter should run on VT power. Any of the two auxiliary supplies shall be available at a time.	Please clarify the requirement as per clause we understand the requirement is of any one auxiliary supply shall be available out of two auxiliary supply (i.e. meter should have two auxiliary supply but at a time one auxiliary supply should be available.	The same will be as per tender documents.
35.	Specification Annexure-I Clause 1.6 The metering system shall be wall mounted. Current terminal connection must be shorted when the CT terminal connections at metering terminal been open. The meter mounting provision in such way that can be installed in the panel projection as well as flush mounting by using panel mounting kit.	Please clarify the requirement as per clause we understand the requirement is of wall mounting Meters. In the Wall mounting Meters the CT terminal shorting can be achieved through Test Terminal Block.	The same will be as per tender documents.
36.	Specification Annexure-I Clause 5.1 "Display" The display of the meter shall indicate direct values (i.e. without having to apply any multiplying factor) of measured / computed parameters as per the meter configuration during commissioning. The display values shall accompany suitable legends, signs and OBIS code for identification. The meter shall have Graphical LCD with backlight for proper depicting of values in user friendly manner like values with unit, OBIS codes, negative signs, favorite page etc.	Bidder requested that all required display parameter as per specification can be avail on linux based display also, so please allow the linux based LCD also, please amend the clause with the meter shall have Graphical/linux LCD. Linux based LCD fulfill the all requirement as per specification of display.	The same will be as per tender documents.
37.	Specification Annexure-I Clause 5.10 (ii) 2 nos. sealing arrangement between top cover and front cover.	Meter should have only one cover which called top cover and, so please delete the clause top cover and front cover , two nos. of cover is not required	Meter should have one cover in the meter box, however, same will be as of site conditions.
38.	Specification Annexure-I Clause 5.11 The marking on every meter shall be in accordance with IEC. The basic marking on the meter name plate shall be as follows:	Please amend this requirement as "The marking on every meter shall be in accordance with IS 14697. The basic marking on the meter name plate shall be as follows: " The Marking of the Meter name plate shall be as per IS 14697 Cl 7.1 Name Plate Marking	The same will be as per tender documents.
39.	Specification Annexure-I Clause 5.23 The metering system shall normally operate with the power drawn through the auxiliary AC or DC supply. The metering system design should enable the auxiliary supply to be switched automatically between the AC and DC voltage, depending upon their availability.	Please amend this clause as "The metering system shall normally operate with the power drawn through the VT power supply. The metering system design should enable the auxiliary supply to be switched automatically, depending upon their availability. "	The same will be as per tender documents. VT Loading will be avoided.
40.	Specification Annexure-I Clause 5.29 "_____Meter shall have adequate memories to store 450 days	Please amend this clause as" Meter shall have adequate memories to store 45 days load survey data for 10 parameters with 15	450 days will be read as 90 days.

	load survey data for 10 parameters with 15 minute block" "____ it can store values of 10 parameters on 5 minutes integration period basis (SIP) for 150 days."	minute block" "It can store values of 10 parameters on 5 minutes integration period basis (SIP) for 22 days." It seems that there is typographical error for No of Load survey days. Since the ABT system is online monitoring system so all the data will be available on Data Center so this requirement shall be amended.	150 days will be read as 35 days.
41.	Specification Annexure-I Clause 5.30 Billing parameters: "____bill dates. Up to max 53 billing dates can be configured."	Please amend this clause"____bill dates. Up to max 6 billing dates can be configured."	The same will be as per tender documents.
42.	Specification Annexure-I Clause 5.31 Daily midnight parameters: The meter shall store the configured energy parameters at predefined time in a day. Maximum 100 days data can be stored.	Please amend this clause"____5.31 Daily midnight parameters: The meter shall store the configured energy parameters at predefined time in a day. Maximum 35 days data can be stored."	In the clause: "Maximum 100 days" is hereby replaced with "Maximum 35 days"
43.	Specification Annexure-I Clause 5.32 Data Communication Capability: Simultaneous communication over all ports shall be available. These communication modes shall support configuration of the meter locally or from remote, as applicable.	Please amend this clause as per IS 15959, clause 4.3 Requirement of Simultaneous communication	The same will be as per tender documents.
44.	Specification Annexure-I Clause 5.32 Data Communication Capability: (line-8) ABT Meter shall have GPRS modem inside the terminal cover which shall be connected with RS232 port. (line-23) , RS232, RS485 ports shall be modular and hot swappable pluggable	Please amend/delete this specific requirement of Modem placement in Terminal Cover and RS232.RS485. Ports shall be modular and hot swappable The objective of RRVUN is to read meter data online through GPRS from external Modem, The Bidder proposed Modem placed anywhere in Metering Panel shall also be accepted. This requirement seems to be proprietor feature so for competitive bidding this requirement shall be deleted.	The same will be as per tender documents.
45.	Specification Annexure-I Clause 5.35 Meter shall have capability and facility to compensate power transformer losses; percentage iron and copper losses shall be configured in the meter for compensation.	Please amend the clause the facility to compensate power transformer losses percentage iron and copper losses shall be configured in the software for compensation. as per IS meter required accurately within limit of 0.2s (as per IS 14697) and meter accuracy and calculation can not be changed in field but losses may be change in future also, software end calculation can be change in future with proper security.	The clause is hereby amended as: "the facility to compensate power transformer losses percentage iron and copper losses shall be configured in the software for compensation."
46.	Specification Annexure-I Clause 6.0 TAMPER DETECTION FEATURES Following additional tampers should also be provided in the meter: k) ETBC open detection	Please delete this requirement since Meters are installed in the Metering Panel with Meter Terminal Cover & Metering Panel sealed with UTILITY as well as Manufacturer seal.	The same will be as per tender documents.
47.	Price Schedule:-	As per BoQ, 57 Nos. Metering Panel is required though as per detailed requirement	The requirement mentioned in BOQ is

		it is 59Nos, please clarify the requirement	mandatory, however if any addition / deletion is required same will be made as per actual requirement of respective site.
48.	Scope of work (G) Bidder shall provide OPC connectivity at main historian for extending DSM data to another system.	please clarify the OPC connectivity is it OPC or OFC	The same will be as per tender documents.
49.	Clause no. 3. of specification System Architecture:-	Does the Application Server and Database Server is required at each power house as shown in Images for Power House -1 Power House -N, and same is asked in BOQ 9, Alternate would be to have each power house with one Monitoring & controlling system with low end workstations instead of Servers, connected with centralized Servers, Racks etc. We understand application and database server should required on every power plant (no any centralized server required, please clarify	The centralized monitoring is required at plant-level only. Centralized monitoring from all plants to one station is not required.
50.	Cyber security issues are listed as Security 1. However, in BOQ, no cyber security component is listed.	Please add in BOQ for cyber security components.	Cyber security components shall be included in supply component respectively, no separate head is required.
51.	Clause no. 3. of specification System Architecture:- All meters having TCP/IP port will be directly connected to the switch to create the LAN network and meters and finally terminated to a LAN network of the plant.	Kindly Clarify, if Meters to be connected to Plant LAN Via LAN switch? & Plant LAN already exist or separate LAN network to be designed for ABT monitoring system.	The same will be as per tender documents and separate LAN network is to be designed for ABT monitoring system.
52.	Page#8, Point#9 of specification Application will run on local network at plant level can be accessed from any location through web based link for RVUNL officers / officials only to access the application.	Any Location outside / inside plant shall require Static Public IP. Kindly clarify.	The centralized monitoring is required at plant-level only. Centralized monitoring from all plants to one station is not required.
53.	General Query	Specification for Server and Client PC is not mentioned in tender doc. Kindly provide server, Client PC specs.	Server and client PC should be of latest configuration to meet-out the requirement of tender documents.
54.	Page#27 Point#5.32 of specification ABT Meter shall have GPRS modem inside the terminal cover which shall be connected with RS232 port The modem, despite being a separate device, shall preferably be an integral part of the meter and shall be housed securely. The modem shall be "Hot Swappable" & "plug-in" type The modem shall	Modem has to be Separate device. And derive power from meter aux.	The same will be as per tender documents.

	derive the input power supply from the meter		
55.	Page#27 Point 5.32 of specification RS232, RS485 ports shall be modular and hot swappable pluggable with configurable communication support up to 56700 bps.	Request to remove the clause as modular ports will increase meter price without any value addition. Com. Port specification as per RFP below is sufficient. i)IEC 1107 optical port ii)RS485 port (should be configurable on DLMS/MODBUS)	The same will be as per tender documents.
56.	NIT:- Reverse auction shall be carried-out on Reverse Auction portal	As the bid shall be awarded to the bidder quoting lowest price, we hereby request RVUN to not conduct reverse auction.	The same will be as per tender documents.
57.	Project information (Clause no. 4.2 of GCC) - Any additional scope i.e. civil works or any other works etc. that arises due to change in site conditions shall be executed by the bidder without any additional price implication.	Bidder requested to clarify that this being contract related to metering and automation, Civil work shall not be part of scope. Request RVUN to delete this requirement from the clause.	The same will be as per tender documents. Any required civil works shall be in successful bidder's scope without any additional price implication to RVUN.
58.	Clause no. 4.39.7 of GCC:- Additional Bank Guarantee(s)- Additional contract performance security bank guarantee limited to 20% of contract price if required shall be furnished by Bidder's.	Bidder requested to delete this clause as successful bidder is required to furnish Security Deposit equivalent to 10% of the accepted contract value. Additional bank guarantee of 20% is not a standard industry practice and shall put additional financial burden on the bidder thereby blocking bidder's cash position.	The same will be as per specification and it will be required, if it observed that supply, performance is not satisfactory as per requirement of tender documents.
59.	Clause no. 4.40.4 of GCC:- Payment towards supplies, installation and commissioning:-	Request customer to amend payment terms as below:- i. 70% (Seventy percent) payment against each supply along with 100% taxes & duties. ii. 20% (Twenty percent) payment will be made after installation, commissioning on pro rata basis. For this, supplier shall produce a certificate from engineer-in-charge of respective site along-with the invoice that all items / material have been received as per contract and required items & material have been successfully installed, commissioned and working satisfactorily at respective site. iii. Balance 10% (Ten percent) will be made after 3 months from the date of successful completion of entire system and also on fulfillment of all contractual obligations by the supplier	The same will be as per tender documents.
60.	Clause no. 4.40.4 of GCC:- Payment towards 5 years comprehensive maintenance	Bidder requested to confirm that successful bidder needs to furnish BG amounting to 10% of contract price towards AMC. Bidder further requested that such BG shall be reducing BG and the value of such BG shall	The same will be as per tender documents.

		reduced by 2% each year starting from first year of AMC.	
61.	Forms:- Procuring Entity's Right to Vary Quantities	Bidder requested to cap quantity variation as below:- Quantity variation shall not exceed 15% of the value of each item type limited to total variation of 10% of the contract value.	The same will be as per tender documents and RTPP Act & Rules.
62.	Forms:- Dividing quantities among more than one Bidder at the time of award	Bidder requested to delete this clause. Value of contract being less, it shall not be viable for the bidder to execute contract after division of scope.	The same shall be as per tender documents and RTPP Act & Rules. However, single order shall be awarded as per contract provision.
63.	Clause no. 1.4 of Specifications:- Power Supply: Meter should be powered through auxiliary supply of 60-240 V AC/DC \pm 20%, 50 Hz Or VT powered	Bidder requested to amend 80-260 V AC/DC \pm 20%	The same will be as per tender documents.
64.	Clause no. 5.1 of Specifications:- The meter shall have Graphical LCD with backlight for proper depicting of values in user friendly manner like values with unit, OBIS codes, negative signs, favorite page etc.	Customized 7 segment LCD display with backlight for depicting of values with unit, OBIS codes, negative signs will be provided. Graphical LCD is not provided in the meters offered.	The same will be as per tender documents.
65.	Clause no. 5.1 of Specifications:- The meter shall have the provision to display graphical representation of current & voltage vectors, both magnitude and angle, for each phases.		The same will be as per tender documents.
66.	Clause no. 5.27 of Specifications:- The display shall be of Graphical LCD type with colored back-lit and soft push button		The same will be as per tender documents.
67.	Clause no. 5.1 of Specifications:- 39. R-Phase Instant –Active Current 40. Y-Phase Instant –Active Current 41. B-Phase Instant –Active Current 42. R-Phase Instant –Reactive Current 43. Y-Phase Instant –Reactive Current 44. B-Phase Instant –Reactive Current	Active & Reactive current are not available as parameters in DLMS. No OBIS codes are defined for the same.	The same will be as per tender documents. Regarding OBIS codes, supplier shall have to provide the same, if available without any financial implication to RVUN.
68.	Clause no. 5.3 of Specifications:- The active energy, reactive energy, apparent energy & demands measurements shall be carried out with an accuracy of class 0.2s.	The active energy, reactive energy, shall be carried out with an accuracy of class 0.2s. Accuracy of Apparent energy and demand are not defined in IS 14697.	The same will be as per tender documents.
69.	Clause no. 5.15 of Specifications:- The meter shall have Inputs/ Outputs pulsing pins availability. This shall help in transferring the same Energy parameters being recorded inside the meters on pulse output as well for SCADA application at remote distance. Also, the pulse input shall be used for time synchronization pulse input. The meter shall have provision for remote control potential free output (240 V AC/DC @ 100 mA) which further use to operate relay.	Inputs/ Outputs pulsing pins are not available in the offered meters.	The same will be as per tender documents.

70.	Clause no. 5.17 of Specifications:- Reactive energy shall be available in below different registers as v) Reactive import vi) Reactive export vii) Reactive inductive viii) Reactive capacitive	Please clarify whether the requirement is for addition of various quadrants i.e v) Reactive import- Q1 +Q2 vi) Reactive export- Q3 +Q4 vii) Reactive inductive - Q1 + Q3 viii) Reactive capacitive- Q2 + Q4	Yes, Reactive energy should be available in registers as per details provided in tender documents.
71.	Clause no. 5.29 of Specifications:- Load Survey: Meter shall have adequate memories to store 450 days load survey data for 10 parameters with 15 minute block.	Can be provided for 90 days	450 days shall be read as 90 days.
72.	Clause no. 5.29 of Specifications:- It can store values of 10 parameters on 5 minutes integration period basis (SIP) for 150 days.	Can be provided for 30 days	150 days shall be read as 35 days.
73.	Clause no. 5.30 of Specifications:- Billing parameters: The predefined date and time for registering the billing parameters of shall be 00.00 hours of the first day of each calendar (billing) month. Each meter shall store the configured billing parameters corresponding to defined bill dates. Up to max 53 billing dates can be configured	Billing data can be provided for 24 resets.	The same will be as per tender documents.
74.	Clause no. 5.31 of Specifications:- Daily midnight parameters: The meter shall store the configured energy parameters at predefined time in a day. Maximum 100 days data can be stored.	Can be provided for 30 days	In the clause: "Maximum 100 days" is hereby replaced with "Maximum 35 days"
75.	Clause no. 5.32 of Specifications:- Simultaneous communication over all ports shall be available. These communication modes shall support configuration of the meter locally or from remote, as applicable. i) IEC 1107 optical port ii) RS485 port (should be configurable on DLMS/MODBUS) iii) RS232 port (for remote communication or dedicated to Modem) iv) TCP/IP Ethernet (should be configurable on DLMS TCP/MODBUS TCP)	All ports shall be on DLMS protocol. Configurable protocol to MODBUS is not supported	All ports shall be on DLMS protocol
76.	Clause no. 5.32 of Specifications:- Also the RS485 and TCP / IP shall be configured as DLMS ICS and MODBUS.		All ports shall be on DLMS protocol
77.	Clause no. 5.32 of Specifications:- ABT Meter shall have GPRS modem inside the terminal cover which shall be connected with RS232 port	Modem needs to be installed outside the meter terminal cover.	The same will be as per tender documents.
78.	Clause no. 5.32 of Specifications:- The modem shall be "Hot Swappable" & "plug-in" type so that servicing/replacement of the modem, without replacing the meter, is possible at site in live condition.	Modem needs to be connected to the meter RS 232 port thru a RS 232 cable. Plug in type modem on RS 232 is not available.	The same will be as per tender documents.

79.	Clause no. 5.32 of Specifications:- RS232, RS485 ports shall be modular and hot swappable pluggable with configurable communication support up to 56700 bps.	RS232, RS485 ports are integral part of the meter terminal block and are not modular. Also as these ports are on DLMS the ports will support 9600 bps.	The same will be as per tender documents.
80.	Clause no. 5.32 of Specifications:- For multi drop connection (Daisy chaining) networking, IN & OUT provision shall be there in RS 485 port.	RS 485 port is provided as a RJ 11 port and IN & OUT provision on 485 port is not available.	The same is acceptable with IN & OUT provision as per specifications.
81.	Clause no. 6.1 of Specifications:- Alarms for every meter should be provided for all anomalies in case of point 6.1	Alarms for all anomalies as per 6.1 is not provided. However the meter will record tamper for the events mentioned which can be downloaded.	The same will be as per tender documents.
82.	Clause no. 6.3 of Specifications:- There shall be at least eleven separate compartments for logging of different type of anomalies:	Compartments shall be as per DLMS i.e. Voltage Related Current Related Other Tamper Non roll over tampers Transaction events	The same shall be as per tender documents.
83.	Comprehensive Maintenance Contract for 5 Years	Bidder requested to amend system availability requirement from 99% to 98 %	The same will be as per tender documents.
84.	Clause no. 2. H of Specifications:- Scope of Work-Data monitoring access from central data centre of each generating station	Bidder requested to remove this requirement	The centralized monitoring is required at plant-level only. Centralized monitoring from all plants to one station is not required.
85.	BOQ ABT Meter panel size	Bidder requested to provide panel dimensions	The same will be as per actual requirement of respective sites and tender documents to accommodate the equipment spaciouly.