



RAJASTHAN URJA VIKAS NIGAM LIMITED
(A Government of Rajasthan Undertaking)
Corporate Identity Number (CIN)-U40104RJ2015SGC048738
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NOTICE INVITING TENDERS

(Only through e-procurement)

NIT No. 02/RUVNL/2022 Dated 17.10.2022

“Load Forecasting, RE (Wind & Solar) Generation Forecasting and Schedule Optimizer” for the State of Rajasthan

Superintending Engineer (PP), RUVNL invites “Online Tenders” (e-tendering) for **“Load Forecasting, RE (Wind & Solar) Generation Forecasting and Schedule Optimizer” for the State of Rajasthan.** Tender Papers & Specifications may be downloaded from Web site <http://eproc.rajasthan.gov.in> and <https://energy.rajasthan.gov.in/content/raj/energy-department/rajasthan-urja-vikas-nigam-ltd-/en/home.html#> (For view, download and online submission). Tender fee may be paid along with submission of tender in EMD cover, for respective tender. “All the relevant documents of tender to be submitted physically will be received only by Registered Post A.D. or Speed Post addressed to: The Superintending Engineer (PP), RUVNL, 1st Floor, HUDCO Building, Jyoti Nagar, JAIPUR . **“NO COURIER SERVICE OR HAND DELIVERY” will be allowed.**

Sr. No.	DESCRIPTION	Particulars
1	Tender No	
2	Name of work	“Load Forecasting, RE (Wind & Solar) Generation Forecasting and Schedule Optimizer” for the State of Rajasthan
4	Tender Fee	Rs. 11,800/- (incl. GST @ 18%) to be made online directly through RTGS and NEFT. <u>Bank Details:</u> State Bank of India, Account No.: ‘61310230971’ IFS Code: SBIN0031026
4	E.M.D	The payment of EMD i.e., Rs.10,00,000/- (Rs. Ten lakhs Only) can be made online directly through RTGS and NEFT or through Bank Guarantee
5	Duration of contract	02 (Two) years from the date from which the contract shall become effective, extendable up to 12 months
6	Pre-bid meeting	At 15.00 Hrs on 31.10.2022
7	Online (E-tendering) tender/offer submission last date (This is mandatory)	Up to 16:00 Hrs. of 07.11.2022
8	Physical submission of all the relevant documents, last date up to 15:00 hours. By R.P.AD or SPEED POST only.	Up to 15:00 Hrs. of 11.11.2022
9	Date of opening of Tender fee, EMD cover and QR bid physical as well as online opening at 17:00 Hours.	Up to 16:00 Hrs. of 11.11.2022
10	Date of opening of Price Bids:	Shall be intimated separately
11	Prices	Firm
12	Validity	180 Days from the date of Opening of Technical Bid

IMPORTANT:

1. All the relevant documents as per requirement of the Tender also to be submitted physically along with the Tender Fee, EMD cover in sealed cover on OR before due date and time. All such documents should be strictly submitted by R.P.AD / speed post only. Otherwise, the offer will not be considered and no any further communication in the matter will be entertained. The tender in physical form is to be submitted in single copy. **(Price bid are not to be submitted with the physical documents).**
2. Any deviation found in Data / Details / Documents between online offer (E- tendering) and physically submitted documents (Tender document fee, EMD, Technical and commercial documents etc.) of bidder, offer of the same bidder will not considered and no further communication in the matter will be entertained. Physical copy is for technical evaluation & reference only and tender will be evaluated on Data / Details / Documents of the online offer. **For any discrepancy between online & physical bid, online bid will be considered as final.**
3. It is mandatory for all the bidders to submit their tender documents by both forms viz. on – line (E-tendering) and physically in schedule time. If tender documents submitted in only any one form, say either by online or physically, in that case the same tender will not be considered.
4. **The bidders are required to fill up all the online annexure / forms. This is intended for transparency and speedy evaluation of the bids. Instead of simply confirming / attached in bid / refer physical offer, the Bidder shall fill in the particulars against appropriate place in respect of each line appearing in each online annexure. Wherever required, bidder shall invariably have to submit supporting authentic documents in the physical bid.**
(In the absence of required details in the online annexure, the purchaser has every right to evaluate the bids accordingly and bidder cannot raise any objection against any point during evaluation.)
5. **RUVNL at its discretion may call selected bidder for negotiation.**
6. Bidders are requested to remain in touch with the website for any amendment / corrigendum or extension of due date etc.

Any technical questions, information and clarifications that may be required pertaining to this enquiry should be referred to: The SUPERINTENDING ENGINEER (PP), RUVNL, 1st Floor, HUDCO Building, Jyoti Nagar, JAIPUR .

RUVNL reserves the right to reject any OR all tenders without assigning any reasons thereof.

Yours faithfully,

Superintending Engineer (PP)
(RUVNL)

(TENDER DOCUMENT)

NIT No. **02/ RUVNL/2022/ dated 17.10.2022**

**NOTICE INVITING TENDER FOR
Load Forecasting, RE (Wind & Solar) Generation Forecasting
and Schedule Optimizer for the State of Rajasthan**

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1. INTRODUCTION

RUVNL on behalf of Rajasthan Discoms (JVVNL, AVVNL and JdVVNL) intends to engage well established and experienced consultancy firm through e-tender under two part bid system for providing consultancy services to RUVNL, to prepare, plan and advise on Energy Portfolio Management with an overall objective of providing 24x7 quality power to all consumers while minimizing the power purchase cost.

RUVNL intends to engage well established and experienced firms, who can forecast the demand and RE generation and implement energy/ load management & its cost optimization system in RUVNL as per the best practices available, suggest ways and means for institutional strengthening of its operations,

RUVNL is taking operations at present with the following responsibility:

- i. Maintaining merit order dispatch.
- ii. Demand and RE (Solar & Wind) forecast on day ahead and intra-day basis.
- iii. Forecasting demand based on seasonal, special events load requirements etc.
- iv. Preparing net availability by getting data of SGS, ISGS (LTA, MTOA, STOA) from RLDC's web site and SLDC web portal.
- v. Maintaining demand and supply balance in the state.
- vi. Procuring and selling day ahead and real time power as per demand supply situation.
- vii. Preparing the differential bid for Buy and Sale of power in Energy Exchanges.
- viii. Co-ordination with generation, distribution and State Load Dispatch Centre to ensure smooth operations of Transmission and Distribution System as per Grid code.
- ix. Preparing various reports related to trade in exchange, power surrender, load shedding etc.

2. TIMELINES & Instruction to Bidders

S. No.	Events	Date & Time	Location
(i)	Date of downloading of tender specification	17.10.2022 to 11.11.2022 (16.00 hrs)	http://eproc.rajasthan.gov.in
(ii)	Deposit of RISL Processing Fee & Earnest Money	Upto 10.11.2022 (17.00 hrs)	RUVNL Office of the Sr. AO, RUVNL, 1 st Floor, HUDCO Building, Jyoti Nagar, Jaipur
(iii)	Seek Clarification Start Date	17.10.2022	
(iv)	Seek Clarification End Date	27.10.2022	

(v)	Pre Bid Meeting date	31.10.2022	
(vi)	Last date & time of submission of electronic bid	Upto 11.11.2022 (16.00 hrs)	http://eproc.rajasthan.gov.in
(vii)	Opening of Non Financial Bid	Upto 11.11.2022 (17.00 hrs)	http://eproc.rajasthan.gov.in
(viii)	Date & time of presentation		Tentatively within a week from date of opening of the technical part of the tender. Date & time will be intimated through e-mail separately at least 2 (two) days in advance.
(ix)	Opening of Financial Bid	To be decided after opening of Non-Financial Bid. To be intimated to the eligible Bidders through e-mail separately.	http://eproc.rajasthan.gov.in

- (i) The bidders are requested to submit their bids prior to last date of submission to avoid Non-submission of their bids up to prescribed date due to non-availability of / hanging of website at last moments. The date of submission of bids will not be extended if system is hang up in last hours or congestion.
- (ii) The bidder will have to deposit prescribed EMD in the form of Bank Guarantee in favour of Chief Engineer (RUVNL), Jaipur up to stipulated date & time in the office of the Sr. Accounts Officer (RUVNL), Jaipur and obtain a receipt thereof. Sr. Accounts Officer (RUVNL) will be the custodian of the EMD. Although the EMD amount appearing in the online tender corresponds to the total tender quantity but the bidders may fill the amount as applicable to the quantity offered by them and rest of the amount may be entered as exemption under the exemption button shown in the on line tendering system.
- (iii) The bidder will have to submit prescribed RISL Processing Fee amounting to Rs. 1000/- by DD/Banker's Cheque in favour of M.D, RISL payable at Jaipur up to stipulated date & time in the office of Sr. Accounts Officer (RUVNL), Jaipur and obtain acknowledgement thereof. The processing fee will be sent to RISL by Sr. AO (RUVNL), Jaipur.
- (iv) The bidders who are interested in bidding can download tender documents from <http://eproc.rajasthan.gov.in> up to the stipulated date & time.
- (v) Bidders who wish to participate in this tender will have to register on <http://eproc.rajasthan.gov.in> (bidders registered on eproc.rajasthan.gov.in before 30.09.2011 needs to register again). 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, Safecrypt, 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.
- (vi) 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 .
- (vii) Bidders are also advised to refer “Bidders Manual” available under “Downloads” section for further details about the e-tendering process.

(viii) The online tenders will have to be digitally signed and submitted in time specified on <http://eproc.rajasthan.gov..>

3. PERIOD OF CONTRACT

The period of contract would normally be 24 (Twenty-Four) months from the date from which the contract shall become effective. However, Project implementation duration maximum up to 90 days may be considered on request of successful bidder. The performance of the bidder will be reviewed at the end of first year and basis of which the contract will be continued further. Further, the period of contract may be extended for another 12 months on the same rates and terms and conditions through mutual consent.

4. QUALIFYING REQUIREMENTS FOR BIDDER

Sr. No.	Type	Description	Evaluation
1	Entity	The Bidder should be a company registered under the Companies Act, 1956 and/or 2013 OR Partnership firm registered under LLP Act 2008 as on the date of original bid opening. Bidder shall be Registered for GST and Income Tax in India	1.Certificate of Incorporation or Article of Association 2. Copy of relevant certificates
		The Bidder should have at least 15 (fifteen) IT professionals and 10 (ten) power sector professionals having permanent full-time employment directly on its own payroll working in India having minimum qualification of B.E./ B.Tech./MBA as on the date of original bid opening	Employer certification as on the date of original bid opening
		The Bidder should have valid Capability Maturity Model Integration CMMi Level 5 certification or above at the time of submission of the Bid	Copy of relevant certificate
		The bidders or any of its associates / subsidiaries/ parent entity should be having unblemished record and must not be blacklisted or declared ineligible for any reasons including but not limited to corrupt & fraudulent practices by any state/ central government/ PSU/ financial institutions / multilateral funding agencies / IDA	The bidder should provide an undertaking (self-certificate) that the bidder is not presently blacklisted for fraudulent or corrupt practices as per the format provided
		The Bidder should have valid Goods and Service Tax Identification Number (GSTIN) and valid PAN Number	GSTIN Registration Certificate, Copy of PAN card

Sr. No.	Type	Description	Evaluation
		Joint venture, consortium, or association are not allowed to bid	Undertaking by the authorized signatory that the Bidder is bidding in its individual capacity without the support of any JV/Consortium
2	Technical experience in implementation	The Bidder should have experience in implementing technology enabled solution as a lead bidder in Indian Power Utilities with at-least one assignment of having value of more than INR 2 Cr. during last 3 years, or two assignments of having value of more than INR 1.25 Cr. each during last 3 years or three assignments of having value of more than INR 1 Cr. each during last 3 years and have completed the work successfully for providing the consultancy services as a lead bidder for short term, medium-term, long-term energy planning/power demand forecasting/power scheduling/RE (Solar & Wind) Forecasting for at-least one continuous year to any DISCOM/SLDC/RLDC/STU in the last five years (i.e. FY 2016-17 onwards). Any ongoing assignments having successfully completed one year of operation as on date of original bid opening would also be considered.	Completion Certificate from client. Detailed credentials, documentary evidence-Copy of Work Order / Purchase Order / Contract Agreement and Go-Live/Completion certificate/Ongoing Certificate Note: Pilot Projects / pro-bono projects shall not be considered
		The bidder should have experience of over 5 years of providing consultancy services in Indian power sector.	Copy of work order and work completion certificates mentioning the nature of work, the period during which the work was done for at least one contract awarded prior to April 2012. In case of non-availability of work completion certificate, the final payment receipt with the copy of invoice raised shall be submitted
		The bidder as a lead bidder must have experience of successfully completing engagement of assisting at-least one (1) power Distribution Utilities / State Electricity Boards / Electricity Department in the area of Power Distribution/Power Purchase Cost Optimization on retainership basis for a continuous period of 12 months (1 year) in the last five (5) years. (Work must have not completed before 1st April 2017). Note: Retainer experience means the contract or work order issued by utility/ department on Retainership basis having pre-defined contract period with availability of on-site presence of staff on continuous basis. The works which are purely milestone/ deliverable based such as ARR, Reforms, restructuring etc. will not qualify	Supporting documents like Work Order / Letter of Award (LoA) / Contract agreement / Completion Certificate for each assignment mentioning the nature of work, the period during which the work was undertaken. In case of non-availability of work completion certificate, the final payment receipt with the copy of invoice raised shall be submitted Note: Pilot Projects / pro-bono projects shall not be considered

Sr. No.	Type	Description	Evaluation
		under Retainership. Assignments exclusively for field level works and just preparation for DPRs on behalf of Discoms under erstwhile RGGVY/ RAPDRP/ IPDS/ DDUGJY schemes without having additional scope of Discom related work shall not be considered.	
3	Financial Strength	The Bidder should have positive Net worth and Minimum Annual Turnover of more than INR 1.5 Cr. in any two years during the last five (5) financial years from consulting/ advisory business in India related to scheduling and monitoring of power for State Utilities	Copy of annual Audited balance sheets and profit and loss statements for the last three financial years (i.e. 2018-19, 2019-20, 2020-21) along with CA Certificate indicating turnover during the last three financial years from consulting/advisory business in India. CA Certificate indicating net worth of the company during the last three financial years (i.e. 2018-19, 2019-20, 2020-21)

5. **FORMAT OF BID**

All papers of the bid shall be neatly typed and shall be signed by the bidder, or a person or persons duly authorized by the bidder to sign the contract. The letter of authorization in the format Annexure-2 shall be submitted with the bid. All pages of the bid shall be initialed by the person or persons signing the Bid.

5.1 The bids shall be submitted in two parts i.e. Part-I – Technical Part and Part-II – Financial Part. The bidder shall submit / upload/ fill their bids online (e-tendering mode) as under:

4.2.1 **Part-I: Technical Part**

The Bank Guarantee/Demand Draft of EMD shall be placed in separate sealed envelope clearly mentioning the NIT No. and be submitted in the office of Superintending Engineer (PP), RUVNL, 1st Floor, HUDCO Building, Jyoti Nagar, Jaipur before the scheduled date

and time of submission of bids. Details also have to be uploaded online.

Prospective bidders are required to upload one set of complete documents falling under this category as per list given in Clause 9.4 below.

4.2.2 **Part-II: Financial Part**

The second part will consist of the Financial Bid in format **Annexure-9** to be filled up through online (e-tendering mode) only. As such no hard copy of financial bid needs to be submitted.

6. **SCOPE OF WORK**

As per electricity grid code, regulations and its amendments time to time from Hon'ble commission, to maintain grid discipline and grid security leads to requirement of load forecasting and renewable generation forecasting. In the Rajasthan State, the load of the system is widely varying with climate condition and social occasion. Further, Rajasthan has significant development of RE (wind and solar) generation in the system. Electricity generation from wind farm and solar plant depends on wind speed, direction, temperature, humidity, radiation etc. Due to variable and uncertain nature of such weather parameters, electricity generation from RE power plant also become variable, intermittent and uncertain.

In view of above, conventional generators have to be regulated to cope up variation of renewable generation to maintain drawl from ISGS as per DSM (Deviation settlement Mechanism) regulation.

RUVNL in Rajasthan is responsible for optimum scheduling and dispatch. Accurate load forecasting, RE (wind & solar) generation forecasting, and scheduling optimization mechanism can optimize uses of conventional generator resources, fully accommodation of RE generation into grid and compliance of DSM.

The contract will require the selected bidder to provide Complete integrated solution online web-based application of "Load Forecasting, RE (Wind & Solar) Generation Forecasting and Schedule Optimizer" inclusive of trend, analysis, summary, various reports etc. as per the requirement. All function shall be in 5/15-minute block-wise in MWh (5-minute scope is taken looking to the regulatory aspect of system operation of 5 minute in future).

Following Output shall be provided by bidder:

5.1 **POWER AND ENERGY DEMAND and RE FORECASTING FOR RUVNL**

Forecasting Module: - The forecasting module to be utilized by the selected bidder should be able to provide an automated solution and should conform to the latest technologies and practices of power sector. The software to be utilized for the purpose should be capable to analyze, compute, generate and provide block wise demand on Intra-day, Day ahead, Week Ahead and Year ahead (month wise) basis, block wise expected power surplus/deficit scenario based on power availability from different sources including that from Renewable Energy sources. The methodology to be used for the forecast should also be capable of taking into consideration the changes in weather conditions, seasonal change, historical profile of demand, availability of power etc. RUVNL shall endeavor to facilitate unrestricted demand data in 15 min time blocks consolidated for the state, preferably for 3-5 years.

Similarly, RUVNL shall endeavor to facilitate actual solar and wind data in 15 min time blocks for the state, preferably for 3-5 years.

Bidders to carry out detailed study of the data and accordingly provide the forecast.

a) Short Term Forecast

The selected bidder would generate State level RE and demand/ load forecast across varying time horizon from Day Ahead to up to Week Ahead for all time blocks. The short-term forecast module would generate forecast for each and every time block at the following level of granularity:

- i. Intra Day Load Forecast: Intraday load forecast on rolling basis (in line with the prevailing practices of power utilities). Bidder to develop provision for uploading data in its software.
 - a. Forecast of Load and forecast of wind & solar generation in MW in 96 blocks for intraday.
 - b. Intraday forecast shall be revised at every 1.30 hrs. starting from 00.00 hrs. i.e. 16 revisions in a day for load forecast and wind generation forecast.
 - c. Intraday forecast shall be revised at every 1.30 hrs. starting from 00.00 hrs. i.e. 9 revisions in a day for solar generation forecast.
 - d. Nos. of blocks in case of solar generation is to be considered from 29th block (07.00 hrs.) to 76th block (19.00 hrs.), both inclusive, i.e. total 48 blocks instead of 96 blocks
 - e. The Bidder is bound to provide enough revision with a reasonable

implementable time cap. Total No. of revisions may be reduced or increased, in future as per requirement or any other regulation. However, actual admissible revisions can only be decided solely by RUVNL and bidder has to adhere.

ii. **Block wise Day Ahead Load Forecast**

- a. Forecast of Load and forecast of wind & solar generation in MW in 96 blocks for next days starting from 00.00 hrs. to 24.00 hrs. (i.e. 96 blocks / day)
- b. Day ahead forecast shall be provided on or before 10.00 hours (morning) every day for next day.

iii. **Day wise Week Ahead Load & RE Forecast on block-to-block basis.**

- a. Forecast of Load and forecast of wind & solar generation in MW in 96 blocks for next 7 days. (i.e. 96 blocks / day and 672 blocks / week) e.g. on Monday - From Tuesday (00.00 hrs.) to next Monday (24:00 Hrs.). On Tuesday- From Wednesday (00.00 hrs.) to Tuesday (24:00 Hrs.), and so on,
- b. Any other time interval/manner as may be required.

b) Medium Term Forecast

The Medium-Term forecast model shall be customized based on the local conditions of Rajasthan and will be capable of generating the following:

- a) Season Ahead RE and Load Forecast: Generic Monthly Load profile (block wise) for a typical day, for each month, for next 12 months.
- b) Year Ahead RE and Load Forecast: Demand Forecast for up to next three years for Rajasthan overall with Monthly and Annual Load Duration curves.
- c) Any other report related to Medium Term load forecast.

c) Long Term RE and Load Forecast

The selected bidder will also provide every year a long-term load forecast which will have a time horizon of more than 3 years and up to 10 years or more as per requirement. The bidder will also renew its forecast every quarter on rolling basis. Requirement of Thermal power to fulfill base demand and required RE integration to fulfill the RPO and demand requirement.

5.2 POWER AVAILABILITY ASSESSMENT AND POWER PROCUREMENT

PLANNING TO MEET THE FORECASTED DEMAND AND ADVICE FOR POWER SCHEDULING/ DISPATCH AS PER EXTANT REGULATIONS/ GUIDELINES FOR RAJASTHAN LEVEL SO AS TO FACILITATE BUY/ SALE OF POWER AS PER REQUIREMENT

- a) The selected bidder shall carry out a comprehensive assessment of availability of power in advance on daily basis from various power generating units/suppliers/traders etc. as per entitlement of Rajasthan under different Agreement(s). The selected bidder shall have to fetch and prepare the required data from information available at different platforms viz. Eltrix portal of SLDC, and RLDCs etc. on day ahead basis and on real-time basis. Based upon the demand forecast and the power availability, selected bidder would carry out analysis and prepare block wise deficit / surplus report every day in rolling manner to be updated every time block and also across any time horizon as per requirement.
- b) The selected bidder shall also carry out a holistic market strategy and advisory support to RUVNL for planning and execution of power procurement/sell in the energy exchange market by way of following MOD/least cost principle.
- c) The selected bidder shall carry out strategy for participation in different segment of Power Exchange(s) such as DAM/ GDAM/ TAM/ GTAM/ RTM /LDC etc. by advising on price and volume risk- mitigation strategies for market participation by the utility on real time basis. Activities in this module may include:
 - I. Preparation of market participation strategy on the basis of analysis of power scenario of the State and to advise for participation in different segment of Power Exchange(s) on block-to-block basis.
 - II. The module used for participation in any segment of Power Exchange(s) shall include devising risk mitigation strategies for minimizing total cost of procurement and also complementing daily dispatch of other available generation sources of the utility.
 - III. Market participation strategy so as to minimize price and volume risk.

a) Bilateral Market Participation Strategy

This module would include assistance in procurement through bilateral market, so as to manage price and volume risk associated with procurement in the market as per

regulatory provisions.

The module should provide quantum (Sale/Purchase) for a period up to 3 months ahead for following options:

- Monthly RTC
- Monthly Block-wise
- Peak/Off-Peak

This module may include:

- (i) Assessment of market conditions and risks, for a horizon of up to one year ahead.
- (ii) Price and volume risk assessment, by taking into consideration ongoing and foreseeable market conditions and regulatory provisions.
- (iii) Assessment of existing PPA terms like Penalty and Compensation, Contract Obligation etc.
- (iv) Surplus / Shortfall Optimization if the quantum is to be absorbed
- (v) Technical & Commercial constraints of contracted power
- (vi) Any other requirement related to above

b) Scheduling and Dispatch Planning

I. Schedule Optimizer:

The selected bidder would advise and prepare block-wise dispatch schedule on Day Ahead/ Intra Day etc. basis to meet the assessed deficit/surplus scenario. The suggested dispatch schedule shall be updated on continuous basis (every time block) to cater intraday variation in various governing factors viz. variation in forecasted demand, availability of power etc. All costs, constraints, etc. shall be considered to generate most optimal schedule for the dispatch so as to meet the demand at the least-cost given available resources and risks. System should be capable to generate buy/sale bid in the standard format of energy exchanges.

Some of the considerations while preparing the optimal schedule may include parameters/factors such as:

- a) Policy constraints such as notified supply hours, must-run renewable, etc.

- b) Technical constraints such as ramp-up, ramp-down, technical minimum etc.
- c) Transmission constraints considering:
 - i. Import and export capacity of each region
 - ii. ATC, TTC and TRM of each Inter-State corridors
 - iii. Short term margin available for each Inter-State corridors
 - iv. Availability of the corridor under short-, medium- and long-term sale/purchase of power
 - v. Regulatory constraints such as over-draw limits, DSM charges, etc.
- d) Existing Short Term (including Banking), Medium Term and Long Term PPA contracts and their costs (MERIT Order)
- e) Existing generation availability (schedule outages, forced outages)
- f) RE intermittency
- g) Power Exchange DAM/RTM prices

II. Price Forecasting

- a) The selected bidder would advise on rates to be quoted on spot market for transaction in the market.
- b) Forecasted MACP (Market Area Clearing Price) would be provided with an upper band and lower band for each block.

The forecast generated by the bidder for spot market shall be used in bidding strategy.

- I. The selected bidder would compile and provide the historical data of MCP & MCV for all segments of Energy Exchanges Market.
- II. The selected bidder would also provide the market information available in public domain such as top ten buyers/sellers and their cleared volumes and time blocks for each product such as DAM/GDAM/TAM/GTAM/RTM/LDC etc. in MU will also be provided for previous day.
- III. The selected bidder shall develop an automated solution to preparation and placing of bids in various products of power exchanges with proper approval process, audit trail and repository of the entire bidding process.

- IV. A dashboard shall be provided for comparing Variable Cost of all thermal generators with forecasted Exchange price.

Bidders are required to integrate data with Third parties like NRLDC, NRPC, SLDC, etc.

III. Energy accounting

- a) Energy calculations of all the power purchase / sale contracts with generators / traders would be done to cater to the different needs of the Rajasthan like knowing their total energy consumption on a particular date, verification for compensation applicability while downward revision of their schedule, etc.
- b) Verify the respective REAs considering the Rajasthan's energy account as the reference.
- c) The selected bidder shall also provide any other report relating to energy accounting and scheduling on daily basis or any other intervals required by RUVNL.

c) Network Management

I. Network Monitoring

The selected bidder shall endeavor to integrate the data communication of ELTRIX portal of RVPNL, SLDC and RLDC etc. after obtaining necessary approvals and permissions from Appropriate departments.

In case necessary approvals are not available, bidder to develop provision for uploading data in its software.

d) Database Management

- I. The selected bidder will develop a database to store all relevant information pertaining to Generators.
- II. The database will store all the static and dynamic parameters of Generators (ISGS, SGS, captives, IPPs and any other category).
- III. The outages information based on inputs from RUVNL/SLDC /DISCOMs on the level of 11 kV, 33 kV and 132/220/400 kV shall also be included in the database.

- IV. Generation Outage Report- Outage, back down particulars (block wise MW, MU) in Unit wise

5.3 RTM BIDDING SOLUTIONS INTEGRATION

- a) Assistance in RTM transactions at power exchanges on 24x7 basis which may include: -
 - I. Suggestion on block wise price to be quoted
 - II. Block wise Volume to be transacted
 - III. Compilation and submission of historical data of block wise MCV and MACP under RTM.
 - IV. Automated solution to preparation and placing of bid under RTM; and
 - V. Any other assistance related to power transaction at power exchanges
- b) The overall objective of providing above assistance shall be to minimize the overall power purchase cost without adversely affecting the power supply position of the State.

5.4 DASHBOARD / VISUALIZATION/ REPORTS OF THE FORECASTS, ACTUAL, SCHEDULE, OD/UD ETC.

The forecasting data shall be delivered with the help of proper visualization / Dashboards / Reports, which can be accessed by RUVNL and through login provisions. Dashboard / Visualization/ Reports will have provisions for query-based sorting / filter options including historical forecast / trends, the minute details of which shall be finalized with the selected bidder after discussions time to time. The Dashboard will also have the provisions of error reporting between the forecasted value and actual value.

The Dashboard should also be capable of analyzing block wise OD/UD figures with reasons thereof and to generate a report in this regard in PDF/csv/etc. format on the very next day for each preceding day.

User interface

- a) A comprehensive and scalable reporting dashboard will be made available to end users from various sections of RUVNL.

- b) Reports will be dynamically configurable based on the User Access.
- c) The system would provide web-based reporting tool which can be used for creating custom reports as required by different types of users.
- d) Reports would be exportable to various formats like pdf/excel/csv/etc. Standard report templates should be provided along with the application package.
- e) Reports would be in both graphical and tabular form.
- f) The authenticated users in the web should be able to generate reports based on date range, utility etc. Reports should be both in graphical and tabular formats.
- g) The daily report should mainly consist of (but not limited to) the following: -
 - I. Highlights of the Day Morning / Evening peak demand/Unrestricted demand of Rajasthan.
 - II. Highlights of the Day Morning/Day/Evening/Night slots minimum and Maximum RE (Solar & Wind) generation in the state of Rajasthan
 - III. Details of energy supply with source wise availability. The data for last year should also be displayed.
 - IV. Station wise daily/ monthly/yearly generation and PLF/PAF of each station of the thermal unit of CGS, SGS, CPPs and IPPs with last year comparison and from Renewable Energy Sources.
 - V. Details of station wise daily /monthly/yearly generation of hydel / ISGS / IPPs units with comparison to last year.
 - VI. 15-minute time block wise station wise generation of all SGS / IPP / ISGS / RES (Renewable Energy Source) generators,
 - VII. Details of 15-minute time block wise comparison of Entitlement and Schedule Drawl of ISGS /SGS.
 - VIII. Details of energy purchased / banking / sale by RUVNL) through bilateral / collective (LTOA/MTOA/STOA).
 - IX. The Outage, back down particulars (block wise MW, MU) in Unit wise / Station wise.
 - X. Reports related to Deviation Settlement Mechanism based on SCADA (for daily use).
 - XI. System should be able to capture each revision from RLDCs.

XII. System shall be able to capture short term contract from RLDC website.

XIII. User Interface should be created to enter the LTOA, STOA and MTOA contract from PPA/PSA of RUVNL

XIV. The system shall be able to capture all parameters (including volume and price) mentioned in the PPA/PSA.

XV. The system shall have the facility to capture the Renewable contract

XVI. Timeline for various report:

S.No	Name of the report	Description	Nature/Time delivery of report
1.	Day ahead Forecasting	Load and RE Forecast in MW for all 96 blocks on a day ahead basis	Daily (Before 10:00 am in the morning)
2.	Intra-Day Forecast	Load and RE forecast In MW across all 96 block	Rolling basis
3.	Day ahead Availability estimates across all sources including interstate generation & available allocation from ISGS in comparison to load forecasted i.e surplus/deficit	In MW across all 96 blocks	Daily (Before 10:00 am in the morning)
4.	Day Ahead Bid preparation for sale / Purchase of power.	Optimal differential bid for all 96 blocks, based on deficit/ surplus estimated	Daily (Before 11:00 am in the morning)
5.	Cost benefit analysis	For all 96 blocks based upon actual sale/purchase made as recommended by software solution for previous day	Daily (Before 10:30 am in the morning for previous day)
6.	Week Ahead Load Forecast	In MW across all 96 blocks	Daily (Before 1:30 pm in the morning on a rolling basis for next 7 days)
7.	Monthly Load forecast	In MW Day wise (Maximum/Minimum/ Average)	Monthly (on a rolling basis for next month on 20 th of current month)
8.	Annual Load forecast (up to 1 year)	In MW month wise (Maximum /Minimum/ Average)/MUs	Quarterly rolling basis for next 12 months
9	Yearly Load forecast (up to 10 year)	In MW month wise (Maximum /Minimum/ Average)/MUs	Annually rolling basis for next 12 months

S.No	Name of the report	Description	Nature/Time delivery of report
10	Daily Report	Load shedding report 220 KV GSS wise and block wise	Daily (by 00:30 AM)
		<p>Morning / evening peak demand / unrestricted demand</p> <p>Details of energy supply with source wise availability/ actual draw/ surrender</p> <p>Details of 15 minutes time block wise comparison of entitlement/actual availability/actual drawn/surrender</p> <p>Details of 15 minutes time block wise DSM (deviation settlement mechanism UI energy)/cost report</p> <p>Details of energy purchased/ banking /sale through bilateral /collective (LTA/MTOA/STOA) Details of restricted/unrestricted demand MW/MUs 15 minutes time block with graphic presentation and in format as informed time to time</p>	Daily (by 9am for previous day)
10	Generation Report	<p>Unit wise/Station wise daily/monthly/yearly generation and PLF/PAF of each unit of the thermal unit of SGS, CPPs and IPPs and from Renewable Energy Sources.</p> <p>Details of station wise daily/monthly/yearly generation of hydel/ISGS/IPPS units.</p> <p>15 minutes time block wise station wise generation of all SGS/IPP/ISGS/RES Generators</p>	Daily (by 9am for previous day)
11	Generation Outage Report	The Outage, backdown particulars (block wise MW, MU) in Unit wise / Station wise	Daily (by 9am for previous day) and during the day as per intimation received/observed of concerned generator

S.No	Name of the report	Description	Nature/Time delivery of report
12	Energy Portfolio Management Optimization Report	Strategy and Status Report for optimizing overall Energy Portfolio	Daily (by 10am)
13	Merit Order Dispatch Report	Stating the Merit Order of the Generation Stations to be Scheduled in line with the Regulatory Provisions, ECR	Daily
14	Weather forecast alerts	Day wise on rolling basis for next seven days and Alerts by WhatsApp	Daily (by 8 am and alerts as & when weather disturbance expected within next 3 hours.)

5.5 OTHER SALIENT FEATURES RELATED TO SCOPE OF WORK

- a) Selected bidder will be responsible for providing all necessary software, hardware, services and weather data or any other input required for accurate forecasting and input required to carry out power planning.
- b) All the hardware, licensed software, weather data or any other input required for accurate forecasting for the purpose of this assignment shall be responsibility of the bidder and same shall be considered by the bidder while quoting bid price. The selected bidder shall provide an “User License” to RUVNL at the time of contract execution for a validity period applicable up to completion of contract period. The selected bidder shall be responsible for timely upgradation of software as and when applicable and RUVNL shall be eligible to avail the services on “Software As A Service” basis for its users maximum up to 25 numbers. The Bidder will ensure that upon completion of contract, it will transfer all the data collected during contract period to RUVNL in usable format. Selected bidder shall provide full access to view and generate various reports to users. Selected bidder should also provide regular data backup and change proposed software application time to time as per requirements of RUVNL without any additional cost. It will be the responsibility of the selected bidder to use only licensed software.
- c) The selected bidder shall host the proposed software solution and related

services on the Cloud. The cost of hosting (till the duration of contract) on Cloud shall be borne by the selected bidder. The Cloud service provider shall be enlisted with MEITY (Ministry of Electronics & Information Technology, Government of India) as cloud service providers (CSP). The Data centre having adequate DR (Disaster Recovery data center) and DC (Data centre) capacities has to be located in India at two different Seismic zones. Selected bidder needs to do proper sizing of compute infrastructure at DC so that solution can run without any performance issues. Selected bidder shall be responsible for sufficient internet connectivity at DC and DR. The proposed application software and related services has to be hosted only in India. Selected bidder shall also be responsible for arranging testing and quality environment without any additional cost to purchaser. Selected bidder needs to provide complete support and Maintenance services of proposed solution during entire period of the contract.

- d) The proposed application software solutions and related services shall be available 24x7 during entire period of the contract failing which RUVNL shall have right to take suitable action which may include imposition of penalty or even termination of contract.

5.6 DEVIATION FOR FORECASTING

- a) Deviation will be measured with the actual SCADA data obtained by SLDC. Accordingly, Rajasthan drawl data, Generation data, wind data, solar data or any other data related to forecasting considered by SLDC will be binding to the bidder. If any major deviation in SCADA data, the final figure for any or whole blocks of day or more than days will be final as decided by SLDC only and penalty will be imposed accordingly. If ABT meter data is available on real time basis and it is given to bidder, the same will be used for accuracy evaluation.
- b) RUVNL has made full attempt to bring out all need and requirement while describing the scope of work. However, expected output is to be carried out by the bidder, using input data available with RUVNL. In any circumstances, the reason of low accuracy, due to insufficient input data availability, will not be accepted.
- c) In case of any real time load restriction decided, number of blocks and quantum of load restriction will be decided based on log sheet data by Engineer In-Charge of RUVNL /SLDC and it will be binding on the bidder. The blocks in which real time load restriction has taken place will be excluded from calculation of intra-day demand forecasting accuracy. However, it shall be on sole discretion of

RUVNL.

- d) Accuracy shall be evaluated for each time block for Rajasthan State as a whole for load, wind and solar generation forecasting.

Block wise percentage deviation will be calculated as per following formula:

Percentage Deviation in a block (Di) =

(Actual demand –Forecasted demand) x 100

Actual demand

7. PAYMENT TERMS

- a) Payment calculation
- i. Fixed Amount: it will be 40 % of contract value.
 - ii. Variable Amount: balance 60 % based on accuracy of day ahead and intraday forecast.
 - a. payment on accuracy in Day Ahead forecast. 16% to Load forecast, 8% to wind forecast and 6% to Solar forecast.
 - b. payment on accuracy in Intraday forecast. 16% to Load forecast, 8% to wind forecast and 6% to Solar forecast.
 - c. % Deviation shall be average of absolute % deviation in the blocks per day.
 - iii. Day ahead load forecast (Day ahead forecast of 10:00 hrs. shall be considered), average of absolute deviation of total 96 Nos. of blocks in a day shall be considered.
 - iv. For Wind and Solar Nos of block shall be considered as:
 - a. Day-ahead forecast:
 - I. Wind forecast (Day ahead forecast of 10:00 hrs. shall be considered) Absolute average deviation of any 72 Nos. of blocks in a day shall be considered.
 - II. Solar forecast (Day ahead forecast of 10:00 hrs. shall be considered) Absolute average deviation of any 36 Nos. of blocks during 07:00 hr to 19:00 hr in a day shall be considered.

b. Intraday forecast:

- I. Wind forecast (last revision of the day shall be considered)
Absolute average deviation of any 82 Nos. of blocks in a day shall be considered.
- II. Solar forecast (last revision of the day shall be considered)
Absolute average deviation of any 40 Nos. of blocks during 07:00 hr to 19:00 hr in a day shall be

Based on the Abs.Avg. Deviation payment shall be released as below:

Demand

S.No	Abs.Avg. Deviation	Day ahead	Intra Day
1		payment	payment
2	0 to 1 %	100% of 16% variable charges	100% of 16% variable charges
3	above 1% to 2%	80% of 16% variable charges	80% of 16% variable charges
4	above 2 to 3%	60% of 16% variable charges	60% of 16% variable charges
5	above 3 to 4%	40% of 16% variable charges	40% of 16% variable charges
6	Above 4	nil	nil

Wind:

S.No	Abs.Avg. Deviation	Day ahead	Intra Day
1		payment	payment
2	0 to 3 %	100% of 8% variable charges	100% of 8% variable charges
3	above 3% to 4%	80% of 8% variable charges	80% of 8% variable charges
4	above 4 to 6%	60% of 8% variable charges	60% of 8% variable charges
5	above 6 to 8%	40% of 8% variable charges	40% of 8% variable charges
6	Above 8	nil	nil

Solar:

S.No	Abs.Avg. Deviation	Day ahead	Intra Day
1		payment	payment
2	0 to 1 %	100% of 6% variable charges	100% of 6% variable charges
3	above 1% to 2%	80% of 6% variable charges	80% of 6% variable charges
4	above 2 to 3%	60% of 6% variable charges	60% of 6% variable charges

5	above 3 to 4%	40% of 6% variable charges	40% of 6% variable charges
6	Above 4	nil	nil

Further, the variable amount shall not be deducted in case of applicability of any condition under Force Majeure (Act of God, Direct or indirect Political/ non-political events, civil war, pandemic, epidemic etc.), unplanned outages, feeder tripping etc.

8. WORK PLAN & PROJECT IMPLEMENTATION

- a) **Work plan:** The proposed work plan shall be consistent with the technical approach, methodology and work schedule, showing understanding of the specifications and ability to translate them into a feasible working plan.

After evaluation, the successful bidder will be notified through Letter of award & the bidder will confirm acceptance of Letter of Award within 7 days.

- b) **Timelines for Project Implementation:** The work shall be executed in accordance with proposed work plan keeping in view the following timelines for deliverables:

TABLE-

<u>Sr. No</u>	<u>Description</u>	<u>Execution period</u>
i)	Placement of Letter of Award	T
ii)	Mobilization period	within T+10 days from the date of Letter of Award
iii)	Submission of Detailed (System Requirement Study)	within T+ 30 days
iv)	Installation of Hardware and Software (if any)	Within T+40 Days.
v)	Generation of reports as per deliverables	Within T+60 days
vi)	Start of Use of reports as per "deliverables" by RUVNL	By T+ 90 days or earlier when successful bidder is satisfied with the accuracy of generated reports for submission to RUVNL.
vii)	Period for providing of services as per scope of work/deliverables	24 months after T+90 days

- I. All stages of project implementation up to sr. no. vi shall be completed within

T+90 days. Beyond T+90 days, penalty for delay in project implementation shall be imposed as per clause 10.2. It is to be noted that the project shall not be extended further in any case beyond the contract period (i.e., T+90 days +24 months).

- II. Successful bidder has to set up at least one person with 2/3 years' experience in related field (minimum B. Tech/B. E qualification) for onsite presence to run the software for the contract period, round the clock having techno-commercial knowledge of forecasting, power trading, scheduling, and cost benefit analyzation solution etc. in power system. The shift operations shall be conducted on continuous basis across 03 shifts (each shift of 8 hour) in a day, for all the days including holidays. For clarity, 1 (one) person in each shift (i.e.) 3 (three) persons + 1 (one) person as standby and 1 (one) Power Sector Domain Expert in General shift.

The Project Director will be responsible for providing strategic insights and ensuring quality of delivery through regular quality reviews. The Team Leader shall hold weekly/fortnightly review with shift resources and RUVNL and ensure quality delivery of assignment.

- III. The necessary consent letter along with supporting documents i.e. Degree certificate, experience certificate duly signed and stamped needs to be submitted by successful bidders, after award of contract. However, only sitting space for successful bidder's persons shall be provided by RUVNL and all other required arrangement regarding to the work shall be made by successful bidder.
- IV. Engineer deputed for onsite support shall be responsible for operation of forecasting, schedule optimization report generation and cost benefit analyzation solution etc. in view of all aspect i.e. any kind of data communication, server function, web display function, modification / correction in model etc. He shall be capable to handle any breakdown and restore the application / model / software.

c) Training & Development: The bidder shall provide adequate training at no extra cost to the staff of RUVNL and shall impart minimum 07 days training pertaining to Forecasting, Schedule Optimization and Power Purchase Cost optimization.

9. BID PRICE

- a) The bidder shall quote its price in the format appended with this tender document for the purpose, which shall be in Indian rupees INR (both in words and figures)

and should be “FIRM”. The quoted price shall be legible and there should not be any cutting, overwriting or ambiguity in it. In case of any difference between price quoted in words and figures, the price quoted in words shall only be considered.

- b) The quoted price shall not be subject to any variation on any account, for all intents and purposes.
- c) The price quoted by the bidder shall be inclusive of all charges/costing in execution of the contract such as software related cost, manpower related cost, logistics cost etc.
- d) Prices shall be quoted excluding all applicable taxes and duties. The taxes and duties paid by the selected bidder will be reimbursed as per the prevailing norms.
- e) All the license(s)/software required for carrying out various activities as per scope of work shall be arranged by the selected bidder without any additional financial burden upon RUVNL.
- f) The Superintending Engineer concerned of Power Management Cell, RUVNL shall be the Engineer-in-charge and shall be responsible for monitoring of execution of assignments covered under this contract.

10. BID SUBMISSION, EVALUATION AND AWARD

- a) The language of the bid shall be English and so be the language of correspondence.
- b) It will be imperative on the bidders to fully apprise themselves of all local conditions and factors, which may have bearing on the execution of the Contract covered under these documents. It must be understood and agreed that such factors be properly investigated and considered while submitting the proposal.
- c) The bidders are advised to get acquainted with the power system of Rajasthan including local conditions and factors affecting the same prior to the start date so as to ensure that the selected bidder is able to execute the contract from contract execution date seamlessly. For sake of their comfort, the selected bidder may depute their team well in advance before above mentioned start date to enable the deployed resources to get fully acquainted.
- d) Bidder(s) not to have conflict of interest. Any bidder found to be having a conflict of interest shall be disqualified. The Bidders, its affiliates, subsidiaries, sister concerns including all entities under the same promoters/ promotor group/ and/or its associate company should not engage in any conflicting businesses which

may potentially impair the ability to offer independent and fair advice to RUVNL in this assignment.

The Bidder understand that engaging in the business of trading of electricity in the state of Rajasthan may pose 'conflict-of-interest' within the scope of work outlined in the tender and hence such bidders intending to participate in the tender process invited by RUVNL/Discoms; during the term of the contract; will need to undertake that it or its related parties will not directly or indirectly participate/engage in any new power purchase, sale, banking or any other trade form of short/medium term power trading that concerns RUVNL during the term of the assignment/ contract.

10.1 BID VALIDITY

Bids shall remain valid for 180 days from the date of opening of Technical Bids. In exceptional circumstances, prior to expiry of the original Bid validity period, RUVNL may request the Bidder to extend the period of validity for a specified additional period. The Bidder agreeing to the request will not be permitted to modify his Bid but will be required to extend the validity of his Bid for the period of the extension.

10.2 EARNEST MONEY DEPOSIT (EMD)

- a) The Earnest Money Deposit (EMD) amounting to Rs.10,00,000/- (Rs. Ten Lakh Only) should be drawn in the form of Bank Guarantee/Demand Draft issued by Nationalized/scheduled bank. The bidder submitting EMD in form of BG shall submit BG valid up to the bid validity period.
- b) The EMD will be refunded to the unsuccessful bidders. No bank commission or interest shall be paid on the EMD amount.
- c) The EMD shall be forfeited, if a bidder withdraws or modifies its bid after opening of the bid or in case successful bidder fails within the specified time limit to furnish the required performance security(ies). However, refusal of any bidder for extension of bid validity beyond 180 days will not invite forfeiture of EMD.
- d) Technical bid of only those bidders will be opened whose EMD deposited, in the office of Superintending Engineer (PP), RUVNL at 1st Floor, HUDCO Building, Jyoti Nagar, Jaipur on or before date and time specified in this tender document.

10.3 CLARIFICATION AND PRE-BID MEETING

- a) The Pre-bid meeting will be held on prescribed date and time at Vidyut Bhawan, Jyoti Nagar, Jaipur. The prospective Bidder(s) will submit their queries, if any, through email ([e-mail id – se.pp.ruvnl@rajasthan.gov.in](mailto:se.pp.ruvnl@rajasthan.gov.in)) at least two working days prior to the Pre-bid meeting date and may attend Pre-bid meeting personally or through their authorized representatives. Non-attendance at the Pre-bid meeting will not cause disqualification of any Bidder. RUVNL shall not be under any obligation to incorporate any modification on queries and/or suggestion by the prospective bidder.

10.4 BID SUBMISSION

- a) The bid will comprise of two parts: - PART-I TECHNICAL PART and PART-II FINANCIAL PART. The bid has to be submitted in e-mode only.
- b) EMD must be submitted in RUVNL.
- c) Each Bidder should upload receipt of online payment towards Cost of Tender document on e- procurement website
- d) Tender Annexure required for Technical Part (Annexure–1 to Annexure–8A & 8B) and Financial Part (Annexure–9) duly complete in all respect and signed by the authorized signatory shall be uploaded on e-procurement website with all requisite documents.

List of Annexure is as below:

- I. Annexure 1 - Particulars of Bidder
- II. Annexure 2 - Representative Authorization Letter
- III. Annexure 3 - Unconditional Acceptance of Terms & Conditions of Tender Document
- IV. Annexure 4 - No Deviations from The Tender Document
- V. Annexure 5 - Undertaking to be Furnished with Regard to Blacklisting/Debarment
- VI. Annexure 6 - Assignments Handled by the Bidder (FY 2016-17 onwards)
- VII. Annexure 7 – Presentation & Demonstration

- VIII. Annexure 8A & 8B - List of Manpower and CV Format
- IX. Annexure 9 - Format for Financial Part
- X. Annexure 10 - Format of EMD Bank Guarantee (EMD BG)
- XI. Annexure 11 - Format of Contract Performance Guarantee (CPG)

- e) Required supporting documents for Net Worth, Minimum Annual Turn-over, PAN, IT Return, GSTIN registration, work award letter or contract agreement along with work completion certificate or any other document in support thereof that bidder feels relevant for this tender should also be uploaded on e-procurement website.
- f) Alternative bids shall not be accepted i.e. a bidder shall submit only one bid in the bidding process. Incomplete / conditional bid(s) shall be summarily rejected.

10.5 BID OPENING

- a) Bids received will be opened in “online mode” only. At first, the technical part of the bid will be opened and will be evaluated. “Financial Part” of only those bidders will be opened who are found responsive and technically qualified by securing minimum 70% marks (minimum technical score (St) of 70 out of 100) in technical evaluation. Financial Bid of tender will be opened on a prefixed date which will be intimated to all technically qualified bidders separately.

10.6 EVALUATION OF BIDS

- a) Bid evaluation will be done under a Quality cum Cost Based System (QCBS). Technical and Financial evaluation of the bid shall be done as per criteria mentioned here in below.
- b) Criteria for Evaluation of Technical Bid. **Evaluation (100 marks)**
- I. Experience of the bidders would be evaluated on the following basis for technical score (St):

Sl. No	Criteria	Maximum Marks
	<u>Relevant Experience of the Bidders (50 marks)</u> <i>Note: Copy of Work Order / Purchase Order / Contract Agreement and Go-Live/Completion certificate/ Ongoing Certificates to be submitted.</i>	

Sl. No	Criteria	Maximum Marks
1	<ul style="list-style-type: none"> The Bidder should have Power Sector domain knowledge and background of providing services as per below: <p>The bidder should have experience of successfully providing the consultancy services as a lead bidder for power demand forecasting/power scheduling/RE (Solar & Wind) Forecasting for at least one continuous year to any DISCOM/SLDC/RLDC/STU in the last five years (i.e. FY 2016-17 onwards). Any ongoing assignments having successfully completed one year of operation as on date of original bid opening would also be considered.</p> <ul style="list-style-type: none"> 1 Project - 24 Marks 2 Projects - 27 Marks >= 3 Projects - 30 marks <p>Note: Pilot Projects / pro-bono projects shall not be considered for evaluation</p>	30
2	<p>The Bidder should have experience in implementing technology enabled solution as a lead bidder in Indian Power Utilities of having value of more than INR 2 Cr. during last 5 years (i.e. 2016-17, onwards)</p> <ul style="list-style-type: none"> 1 Project - 16 Marks 2 Projects - 18 Marks >=3 Projects - 20 Marks 	20
3	<p>Qualification and Competency of the proposed team (25 marks)</p> <p>i) Project Director (01 No) with minimum 20 years of experience in power sector and experience of working in regulatory domain/power purchase strategy (Max. 10 marks)</p> <p>ii) Team Leader (01 No) having qualification of B. Tech/B. E and experience in power sale-purchase strategy / power trading (Max. 10 marks)</p> <p>10 Years <= Exp. <= 12 Years 3 marks</p> <p>12 Years <= Exp. <= 15 Years 5 marks</p> <p>15 Years > Exp. 10 marks</p> <p>iii) Power Sector Domain Expert (01 No) having qualification of B. Tech/B. E with minimum 5 years of experience in power sector and experience of working in Discom/SLDC (Max. 5 marks)</p> <p>2 Years <= Exp. <= 5 Years 3 marks</p> <p>5 Years > Exp. 5 marks</p> <p>All proposed resources by bidder should be qualified permanent full-time</p>	25

Sl. No	Criteria	Maximum Marks
	employees directly on its own payroll and a certificate should be provided by the Employer.	
5	Demonstration of the Approach/ Methodology (25 marks)	
	Demonstration of the quality of the methodology and workplan proposed for the assignment by the Project Director and Team Leader in person (understanding of the issues and approach to be followed)	25

All consultants scoring marks equal to or above 70 marks in technical score will be shortlisted for the final scoring based on QCBS.

10.7 CRITERIA FOR EVALUATION OF FINANCIAL BID

The proposal with lowest quote shall be given a financial score of 100 and other proposals shall be given financial scores as per the formula provided below:

The lowest Financial Proposal (Fm) shall be given the maximum financial score of 100. Financial scores (Sfi) of all other Proposals shall be calculated as $Sfi = 100 \times Fm / Fi$, where "Sfi" is the financial score of bidder "i", "Fm" is the lowest price, and "Fi" the price quoted by bidder "i".

10.8 FINAL EVALUATION OF BIDS

It shall entail selection of Bidder after adding scores of Technical and Financial Parts with their respective weightages. The weightages assigned to the Technical (T) and Financial (F) Parts will be 80% and 20% respectively.

Proposals will be ranked according to their combined technical (St) and financial (Sf) scores using the weights (T = the weight given to the Technical Part i.e. 0.80 and F = the weight given to the Financial Part i.e. 0.20; T + F = 1) as following:

$$S = (St \times T) + (Sf \times F)$$

Where S is Total Score.

The bidder with the highest total score (S) shall be the selected bidder. However, in case of equal highest total scores(S) among two or more than two bidder the selected bidder shall be adjudged through draw of lottery in presence of representatives of all such bidders.

10.9 RIGHT TO AMEND THE TENDER DOCUMENT AND TO ACCEPT OR REJECT ANY OR ALL BIDS

RUVNL reserves the right to modify, amend or supplement tender document including all Schedules and Forms at any time before Bid submission deadline. RUVNL shall have right to annul the Bidding process at any time prior to award of contract, without assigning any

reason.

10.10 AWARD OF CONTRACT AND SIGNING OF AGREEMENT

- I. In normal circumstances, RUVNL will generally award the Contract to the selected bidder whose bid has been determined so as per Clause 9.8 herein above (securing highest marks in the bid evaluation criteria). A letter of award to selected bidder will be issued containing the terms and conditions to be complied with by the selected bidder. The bidder shall be allowed three months to development of application / module / software and testing of the same. The commencement date shall be issued to bidder (on satisfactory development of online web-based application / model / software) after completion of three months of development period. However, contractor can start services before three months with consent of RUVNL, if they are ready. The two-year service shall be counted from the date given in commencement letter. (It means that the project shall be remain continue for two years from the date of commencement given by RUVNL and these two year shall be consist of leap year also.) The contract value shall be considered by day wise calculation. Hence, monthly payment shall be carried out on date-to-date basis. i.e. if service is initiated by 5th April, the billing cycle shall be remain 5th April to 4th May and hence, two-year service shall considered accordingly. Further, accuracy evaluation and each financial terms shall be imposed accordingly.
- II. RUVNL reserves right to terminate the contract at any time of tender contract, if performance is not found satisfactory. Hence, performance of the service shall be reviewed every month.
- III. The selected bidder has to execute the Contract Agreement within the timeline and as per the terms communicated in the letter of award.
- IV. The contract shall not be assigned or sublet to any third party under any circumstances by the selected bidder.

11. OTHER CONDITIONS OF BID

11.1 BILLING AND PAYMENT

- I. The entire contract amount will be payable to selected bidder through monthly invoices. The monthly invoices should be submitted to the Engineer in-charge of the work in triplicate and must be accompanied with all supporting documents which may include but not limited to confirmation of availability of required manpower, data related to block wise actual drawl, forecasted demand, forecasted RE generation,

deviations etc. for the entire billing period.

- II. Upon receipt of invoices complete in all respect, the same will normally be processed within Thirty (30) working days and will be sent to the paying authority for payment after making deductions if any.

11.2 DEDUCTION

The tenderer should note that the completion time allowed for carrying out the work should be strictly observed. Any delay that may take place in development and successfully implementation of total project beyond contractual period stated shall be subject to the penalty at the rate of ½ % of the total contract value plus GST per week or part thereof, with a ceiling of 10 % of the total contract value plus GST as applicable. For calculating the delayed portion, due date of 3 months from date of award of contract given by RUVNL shall be considered.

11.3 RECOVERY OF THE LOSS SUSTAINED DUE TO FRAUD /EMBEZZLEMENT/MISAPPROPRIATION BY THE EMPLOYEES OF FIRM

In case any loss is sustained to the RUVNL due to fraud/embezzlement/misappropriation committed by the employees of the firm which could have been detected during the normal course of work but remains undetected, the firm shall be liable to pay the same to RUVNL after the termination/cancellation of the contract.

11.4 TERMINATION

In case selected bidder fails to perform its obligations mentioned under this tender document, RUVNL shall have right to terminate the contract even prior to completion of contract period i.e. 24 months. The basis for such termination may include reasons mentioned in Clause 5.5 (d) or failure in submission of forecasting data for continuous period of say three (3) days or in case error in Day Ahead/intraday load forecast is consistently unreasonable for a continuous period of thirty (30) days etc. by giving 15 days' notice. RUVNL may at its sole discretion and at any time during the evaluation of tender documents, disqualify any applicant, if the applicant:

- I. Submitted any of documents after the response deadline:
- II. Made misleading or false representations in the forms, statements and attachments submitted in the proof of eligibility requirements:
- III. Exhibited a record of poor performance such as abandoning works, nor properly completing the contractual obligations, inordinately delaying completion or financial failures etc. in any of the projects in the preceding two year:

- IV. Submitted any of documents that is not accompanied by required documentation or is non-responsive:
- V. Failed to provide clarification related thereto, when sought.

11.5 DISCLAIMER

- I. The information submitted to this may be subjected to the public release (as per RTI norms). Applicants responding to this invitation assume the risk of public disclosure. However, considering the technical IP/know-how involved in the process, the documents submitted along with bid and business critical IP related information shall not be shared to any other firm or person under RTI application.
- II. This is not to be considered as a commitment by RUVNL on Services. Please be advised that RUVNL will not pay for any information / documents provided as a result of this tender and will not recognize or reimburse any cost associated with any of document's submission.
- III. This does not entail any commitment on the part of RUVNL either financial or otherwise. RUVNL right to accept or reject any or all documents without incurring any obligation to information the effected applicant/s of the reasons.

11.6 CONTRACT PERFORMANCE GUARANTEE (CPG)

- I. The selected bidder shall be required to furnish a Contract Performance Guarantee (within 30 days of letter of award) in the form of Bank Guarantee, equal to ten percent (10%) of the total Contract Price initially valid for a period 180 days beyond the scheduled contract period. Format for CPG will be as per Annexure–11.
- II. In the event of default on the part of selected Bidder in the faithful execution, the CPG shall be forfeited by RUVNL. The forfeiture of CPG shall be without prejudice to any other rights arising or accruing to the RUVNL under relevant provision of the contract like penalty for delay or risk execution of work including suspension of business dealing with RUVNL for a specific period.
- III. No surcharge/interest shall be payable by RUVNL on CPG submitted by the selected bidder.
- IV. No fees/invoices/bills shall be paid by RUVNL till the submission of CPG.
- V. Any amount due against the selected bidder shall be recoverable from

pending amount of the concerned work order or any other purchase order/workorder /contract of the firm with RUVNL. If no payment of the firm is pending with RUVNL against any other purchase order/work order/contract, then the same shall be deducted from any CPG/EMD lying with RUVNL. In case, the total amount of EMD, Security of all purchase order/work order/contract is less than the recoverable amount, action shall be taken by RUVNL as admissible under the law e.g. filing of recovery suit & lodging of FIR etc. Moreover, the performance of the firm regarding the same shall be given due importance while placing further order on such firm.

11.7 CONFIDENTIALITY

- I. The Bidder and the personnel of any of them shall not either during the or after the expiration of this contract; disclose any proprietary or confidential information relating to the Project, the Services, this Contract or RUVNL's business or operations without the prior written consent of the owner.
- II. The selected bidder shall not use such documents, data, and other information received from RUVNL for any purposes unrelated to the Contract. Similarly, the selected bidder shall not use such documents, data, and other information received from RUVNL for any purpose other than the design, procurement, or other work and services required for the performance of the Contract.
- III. The obligation of a party under this clause, however, shall not apply to information that:
 - a) The Purchaser or Bidder need to share with the institutions participating in the financing of the Contract.
 - b) Now or hereafter enters the public domain through no fault of that party.
 - c) Can be proven to have been possessed by that party at the time of disclosure and which was not previously obtained, directly or indirectly, from the other party or
 - d) Otherwise lawfully becomes available to that party from a third party that has no obligation of confidentiality.
 - e) The above provisions shall not in any way modify any undertaking of confidentiality given by either of the parties hereto prior to the date of the Contract in respect of the Supply or any part thereof.
 - f) The provisions of Clause shall survive completion or termination, for

whatever reason, of the Contract.

11.8 FACILITIES

- I. Apart from onsite team as mentioned in evaluation criteria, other team Members shall have to visit onsite as per verbal/written requirements/instructions issued by RUVNL from time to time.
- II. RUVNL shall provide sitting space to selected bidder team at RUVNL office.
- III. No other facilities/services shall be provided by RUVNL. The selected bidder shall have to arrange necessary stationary, hardware and other equipments as required for their use on their own.

11.9 RESPONSIBILITY FOR RECORD/DOCUMENTS

The selected bidder shall be fully responsible for upkeep, maintenance and safety of the record and documents supplied by the RUVNL and also for the record/documents generated by them. On completion of the contract/job the selected bidder will return all the documents supplied to it by RUVNL and shall also hand over all the record/documents generated by it for the purpose of completion of the assigned work.

11.10 CONDUCT / REPLACEMENT OF MANPOWER OF FIRM

- I. The deputed manpower as per Clause 7 (II) herein above, the selected bidder should render their service preferably for entire contract period. If any of the manpower of the selected bidder is found guilty of any willful misconduct or incompetence or negligence then, the selected bidder shall at once remove such employee and replace him with equally qualified and competent substitute, if so, directed by RUVNL. In normal circumstances, the deployed manpower of selected bidder shall not be replaced without consent of RUVNL.

11.11 ADDITIONAL INFORMATION

All the information shall be comprehensive as far as possible to help RUVNL in properly assessing the capability of the bidder. RUVNL reserves the right to obtain additional information from the bidders including, but not limited to, affiliated entities and joint ventures of the bidders, bidder's financial strength, litigation and penalties etc., as RUVNL may deem necessary to evaluate the bidder(s) and the bids.

11.12 BID PREPARATION COST

The bidder shall be responsible for all the costs associated with the preparation of its bid and participation in pre bid meeting, presentation etc.

RUVNL will not be responsible or in any way liable for such costs regardless of the conduct or outcome of this tendering process.

11.13 INCOMPLETE /AMBIGUOUS BIDS

RUVNL reserves the right to reject any bid which is incomplete or ambiguous.

11.14 COMPLIANCE OF LAWS/ RULES/ REGULATIONS ETC.

The selected bidder shall, in all matters arising in the performance of the contract, shall comply with all extant Laws/Rules/Regulations etc. during the period of contract.

The selected bidder shall be responsible for carrying out of all of its activities within the rules and laws in force. RUVNL shall not be responsible for any of the un-lawful activity committed by the manpower deployed by the selected bidder for execution of contract. The selected bidder shall be solely liable for and shall indemnify RUVNL against all losses, expenses or claim arising in connection with any unlawful activity committed by any person employed by the firm for the purpose of assigned job.

11.15 FORCE MAJEURE

- a) For the purposes of this Contract, "Force Majeure" means an event or circumstance or combination of events and circumstances, the occurrence of which is beyond the reasonable control of either party and which materially affects the performance by either Party of its respective obligations under this agreement, provided such material and adverse effect could not have been prevented, overcome or remedied in whole or in part by the affected party. Such events may include war, riots, sabotage, civil disorder, earthquake, epidemics, quarantine restrictions, fire, explosion, storm, flood or other adverse weather conditions, or other industrial action. However, , Force Majeure shall not mean or include:
 - any event caused by the negligence or intentional action of affected Party or it's employees,
 - any event which a diligent Party could reasonably have been expected or foreseen to take into account.
- b) The selected bidder shall not be paid /reimbursed any additional cost on account of Force Majeure event.
- c) Selected bidder shall not be held responsible or be held liable or be

deemed to be liable for any action because of any failure or delay in complying with its obligations Force Majeure events provided that it has taken all reasonable precautions, due care and reasonable alternative measures, all with the objective of carrying out the obligations under this tender document.

- d) The selected bidder affected by event of Force Majeure shall take all reasonable measures to remove it's inability to fulfill its obligations with a minimum delay.
- e) The selected bidder affected by an event of Force Majeure shall notify of such event as soon as possible, and in any event not later than fourteen (14) days following the occurrence of such event, providing evidence of the nature and cause of such event, and shall similarly give notice of the restoration of normal conditions as soon as possible.
- f) The selected bidder shall take all reasonable measures to minimize the consequences of any event of Force Majeure. Neither party shall by reasons of such eventuality be entitled to terminate this contract nor shall either party have any claim for damages against the other in respect of such nonperformance or delay in performance under this contract and the awarded work shall be resumed as soon as practicable after such Force Majeure has ceased. Appropriate extension in time of completion shall be granted

11.16 DISPUTE RESOLUTION & ARBITRATION

In the case of any dispute arising upon or in relation to or in connection with the contract between the Parties, which could not get settled amicably, any party can refer the dispute for Arbitration under (Indian) Arbitration and Conciliation Act 1996 with seat of Arbitration at Jaipur.

11.17 JURISDICTION

All legal proceedings in connection with this bid document and resulting Agreement with the successful bidder shall be subject to the territorial jurisdiction of the local civil courts at Jaipur (Rajasthan) only.

Sd/-

Superintending Engineer (PP),
RUVNL , Jaipur

12. ANNEXURES

ANNEXURE – 1**(PARTICULARS OF BIDDER)**
(To be included in Technical Bid)

Name of Bidder			
Place			
Date			
Name of Authorized representative			
Designation			
Address			
Phone Number			
Mobile			
Email id			
Sl. No.	Name of Document	Details	
1	Tender Document Fee (Online Payment)	Amount Rs.	
		Transaction No.	
		Dated	
2	Details of Earnest Money Deposit	Amount Rs.	
		BG/DD No.	
		BG/DD Date	
		Name of Bank-	
		Branch -	
3	Positive Net Worth for last 03 (Three) financial years (In Crore). (To be evidenced by CA certificate)	FY 2018-19	
		FY 2019-20	
		FY 2020-21	
4	Minimum Annual Turn- over of the bidder from 'consultancy/advisory business in India' for last 03 (Three) financial years (In Crore). (To be evidenced by CA certificate)	FY 2018-19	
		FY 2019-20	
		FY 2020-21	
5	Firm Registration Certificate/ Certificate of incorporation of Company / Partnership deed of Registered partnership firm (Attach Copy)	Reg. No.	
		Reg. Date	
6	PAN No. (Attach Copy)		
7	Goods & Services Tax (GST) Registration No. (Attach Certificate copy)		

8	Income Tax Return of last three financial Year (Attach ITR Copy)	FY 2018-19	
		FY 2019-20	
		FY 2020-21	
9	Representative authorization letter (Annexure- 2)		
10	Unconditional acceptance of terms and conditions of tender document (Annexure - 3)		
11	Certificate for No deviation from tender document (Annexure - 4)		
12	Declaration on notarized affidavit regarding non- blacklisted and non-conviction from any court of law. (Annexure - 5)		
13	Assignments handled by bidder (FY 2016-17 onwards) <i>(Attach copy of work completion certificate or any other document in support thereof)</i>		
14	Presentation and Demonstration undertaking (Annexure - 7)		
15	List of manpower to be deployed at RUVNL (Attach details as per Annexure – 8A & 8B)		

Note : - Fill 'submitted' or 'not submitted' wherever applicable and attach/upload the required Annexures/ documents/ certificates/ any other supporting documents.

Authorized Signatory:

Full Name:

**Address
: (Seal)**

ANNEXURE – 2

(REPRESENTATIVE AUTHORIZATION LETTER)

(To be included in Technical Bid)

(To be furnished on official letter-head of the Bidder)

To,
The Superintending Engineer (PP)
RUVNL,
1st Floor ,HUDCO Building ,
Jyoti Nagar, JAIPUR

Sir,

Ms. /Mr. _____ is hereby authorized to sign relevant documents on behalf of the Firm in dealing with NIT No. _____. S/He is also authorized to attend meetings & submit all information related to Technical/Financial part as may be required by RUVNL in the course of processing the above said tender.

Thanking you,

Authorized Signatory

Head Signatory of Firm

Signature attested

Company Seal

Company Seal

ANNEXURE – 3

(UNCONDITIONAL ACCEPTANCE OF TERMS & CONDITIONS OF TENDER DOCUMENT)

(To be included in Technical Bid)

(To be furnished on official letter-head of the Bidder)

To,
The Superintending Engineer (PP)
RUVNL,
1st Floor ,HUDCO Building ,
Jyoti Nagar, JAIPUR

Sir,

I have carefully gone through the Terms & Conditions contained in the Tender Document of NIT No. _____ and all its subsequent addendums / clarifications / corrigendum issued from time to time.

I declare that all the provisions of this Tender Document are unconditionally acceptable to my Firm. I further certify that I am an authorized signatory of my Firm, therefore, competent to make this declaration.

Authorized Signatory:

Full Name:

**Address
: (Seal)**

ANNEXURE – 4

(NO DEVIATIONS FROM THE TENDER DOCUMENT)

(To be included in Technical Bid)

(To be furnished on official letter-head of the Bidder)

To,
The Superintending Engineer (PP)
RUVNL,
1st Floor ,HUDCO Building ,
Jyoti Nagar, JAIPUR

Sub: Submission of No Deviation Certificate

Sir,

With reference to above, this is to confirm that as per terms and conditions of NIT No. _____, we have visited site before submission of our offer and noted the Tender Document content & site conditions etc.

We also confirm that we have not changed/ modified the Bid document as appeared in the e-tendering website issued by RUVNL along with amendments etc. and in case of such observance at any stage; it shall be treated as null and void.

We hereby confirm that we have not taken any deviation from clauses together with other references as enumerated in the above referred Tender Document.

We hereby confirm our unqualified acceptance to all terms & conditions, unqualified compliance to all clauses of the bid document. In the event of observance of any deviation in any part of our offer at a later date whether implicit or explicit, the deviations shall stand null & void. We confirm to have submitted offer in accordance with instructions as provided in the bid document and as per aforesaid references

We further confirm that any deviation, variation or additional condition etc., or any mention contrary to Bidding Documents and its Amendment (s)/ clarification(s)/ Addenda/ Errata (if any) as mentioned above found anywhere in our Bid and/ or financial Bid, implicit or explicit, shall stand unconditionally withdrawn, without any cost implication to whatsoever to tenderer.

Authorized Signatory:

Full Name:

**Address
: (Seal)**

ANNEXURE – 5

(UNDERTAKING TO BE FURNISHED WITH REGARD TO BLACKLISTING/DEBARMENT)

(To be included in Technical Bid)

(To be furnished in AFFIDAVIT (On NJSP))

I, [Designation]..... M/swith
Headquarter at being their authorized signatory, do hereby solemnly
affirm and declare that M/s has not been blacklisted/debarred
or business dealing has not been suspended by any organization / PSU(s) / State/Central Govt. / utility
or any of its agencies as on date of bid submission.

If this declaration is found incorrect at any subsequent time and further I understand to compensate
RUVNL for the consequences arising out of wrong declaration.

Authorized Signatory:

Full Name:

**Address
: (Seal)**

Attested by Notary Public.

ANNEXURE - 6**(ASSIGNMENTS HANDLED BY THE BIDDER (FY 2016-17 onwards))**

(To be included in Technical Bid)

Sr. No.	Project's Name	Type of Services Rendered			Client (With complete address, contact person, telephone, email id)	Duration		Scope of Work in brief
		Demand Forecasting/ RE (Solar & Wind) Forecasting/ Power Scheduling (Yes/No)				Start date	End date	
A	B	C			D	E	F	G
1								
2								
3								
4								
5								

Note: Attach copy of work completion certificate or any other document in support thereof

Authorized Signatory:

Full Name:

**Address
: (Seal)**

ANNEXURE – 7

(PRESENTATION & DEMONSTRATION)

(To be included in Technical Bid)

To,
The Superintending Engineer (PP)
RUVNL,
1st Floor, HUDCO Building ,
Jyoti Nagar, JAIPUR

Dear Sir,

We hereby undertake to give PPT presentation explaining understanding of the assignment, its implementation plan, team to be deployed for execution of assignment and methodology proposed and demonstration regarding software solutions and its readiness for use in present assignment in the office of Superintending Engineer (PP), RUVNL, Jaipur.

Authorized Signatory:

Full Name:

**Address
: (Seal)**

ANNEXURE – 8A

(LIST OF MANPOWER)
(To be included in Technical Bid)

List of manpower proposed to be deployed for this contract at RUVNL office,Jaipur :

Sl. No.	Name of Manpower	Qualifications of proposed Manpower	Proposed Deployment Position	On Permanent Pay Roll with Bidder (Yes/No)
1				
2				
3				
4				
5				
6				
7				
8				

Authorized Signatory:

Full Name:

**Address
: (Seal)**

ANNEXURE – 8B**CV Format**

(To be included in Technical Bid)

(CV to be submitted for each proposed manpower as per CV format given below in light of the requirement under Clause No. 7 (II) and 9.6 of the tender document)

Name of Manpower proposed deployment Position	Power Sector Experience (in years)	Experience in relevant area	Experience for working in Rajasthan State (in years)
Name: Proposed Deployment Position: Project Director Team Leader/Power Sector Domain Expert	Total Experience: Assignment-1:- Firm/Company: Project: Designation: Work Performed: Demand Forecast/RE Forecast/ Power Trading/Power Scheduling/Power Sale-Purchase Strategy /Power Planning/ Regulatory matters related to Power Distribution Sector/SLDC. Period: From [Date] to [Date] Assignment-2:- Firm/Company: Project: Designation: Work Performed: Demand Forecast/RE Forecast/ Power Trading/Power Scheduling/Power Sale-Purchase Strategy /Power Planning/ Regulatory matters related to Power Distribution Sector/SLDC. Period: From [Date] to [Date] Assignment-3:-	Assignment-1:- Firm/Company: Project: Designation: Work Performed: Demand Forecast/RE Forecast/ Power Trading/Power Scheduling/Power Sale-Purchase Strategy /Power Planning/ Regulatory matters related to Power Distribution Sector/SLDC. Period: From [Date] to [Date] Assignment-2:- Firm/Company: Project: Designation: Work Performed: Demand Forecast/RE Forecast/ Power Trading/Power Scheduling/Power Sale-Purchase Strategy /Power Planning/ Regulatory matters related to Power Distribution Sector/SLDC. Period: From [Date] to [Date] Assignment-3:-	Assignment-1:- Firm/Company: Project: Designation: Location: Work Performed: Demand Forecast/RE Forecast/ Power Trading/Power Scheduling/Power Sale-Purchase Strategy /Power Planning/ Regulatory matters related to Power Distribution Sector/SLDC. Period: From [Date] to [Date] Assignment-2:- Firm/Company: Project: Designation: Location: Work Performed: Demand Forecast/RE Forecast/Power Trading/Power Scheduling/Power Sale-Purchase Strategy /Power Planning/ Regulatory matters related to Power Distribution Sector/SLDC. Period: From [Date] to [Date] Assignment-3:-

Note:

1. Separate sheets as per above format should be attached by the bidder for each proposed man power.
2. Successful bidders will be asked to submit the issued certificates for their claims regarding Educational qualification and work experience in relevant area.

Authorized Signatory:**Full Name:**
Address
: (Seal)

ANNEXURE – 9**(FORMAT FOR FINANCIAL PART)**

(To be included in Financial Bid)

Item		Amount (INR)	GST or any other taxes / duties		Total Amount (INR)
			%	Amount (INR)	
Lump sum Cost of work/ deliverables (excluding GST or any taxes / duties as applicable), if any for the contract period i.e. 24 months.	Amount in Figures				
	Amount in words				

Authorized Signatory:**Full Name:****Address
: (Seal)**

ANNEXURE – 10

Proforma of Bank Guarantee (For EMD)

The non-Judicial stamp paper should be in the name of issuing bank

Ref: _____

Date: _____

Bank Guarantee No. _____

To,

The Superintending Engineer (PP),
RUVNL, 1st Floor, HUDCO Building,
Jyoti Nagar, JAIPUR

Dear Sir,

In accordance with Invitation to bid under your NIT No. _____ M/s _____ having its Registered/Head Office at _____ (hereinafter called the 'Bidder') wish to participate in the said Bid or _____ and you, as a special favour have agreed to accept an irrevocable and unconditional Bank Guarantee for an amount of **Rs. _____** /- (Rupees _____) only valid up to _____ on behalf of Bidder in lieu of the Bid deposit required to be made by the bidder, as a Condition precedent for participation in the said Bid.

We, the _____ Bank at _____ having our Head Office at _____ (local address) guarantee and undertake to pay immediately on demand by RUVNL, the Amount of **Rs. _____** /- (Rupees _____) only without any reservation, protest, demur and recourse. Any such demand made by said 'Owner' shall be conclusive and binding on us irrespective of any dispute or difference raised by the Bidder.

This Guarantee shall be irrevocable and shall remain valid up to and including _____ @ _____. If any further extension of this guarantee is required, the same shall be extended to such required period (not exceeding one year) on receiving instruction from M/s _____ on whose behalf this guarantee is issued.

In witness whereof the Bank, through its authorized officer, has set its hand and stamp on this _____ day of _____ 20_____ at _____.

WITNESS:

(Signature/ name/ official address)

(Signature/ name/ official address)

BG shall be valid upto the bid validity period i.e. 180 days

ANNEXURE – 11

(FORMAT OF CONTRACT PERFORMANCE GUARANTEE (CPG))

Ref: _____

Date: _____

Bank Guarantee No. _____

To,
.....
.....

1. In consideration ofRUVNL..... having its Registered Office at(hereinafter referred to as the `Owner` which expression shall unless repugnant to the context or meaning there of include its successors, administrators and assigns) has awarded to M/s _____ with its Registered/Head Office _____ at _____ (hereinafter referred to as the `Consultant`) by issue of Owner's Letter of Award No _____ dated _____ (hereinafter `LoA`) and the same having been unequivocally accepted by the Consultant on _____ for providing _____ in _____ and the Consultant having agreed to provide a Contract Performance Guarantee of Rs. _____ (Rupees _____ only) to the Owner for the faithful performance of the entire contract as per the agreement executed on _____ (hereinafter `Contract`), this is to certify that at the request of the Consultant we _____ Bank Ltd., are holding in trust in favour of the Owner, the amount of Rs. _____ (Rupees _____ only) to indemnify and keep indemnified the Owner against any loss or damage that may be caused to or suffered by the Owner by reason of any breach by the Consultant of any of the terms and conditions of the said LoA and/or in the performance thereof.
 2. We agree that the decision of the Owner, whether breach of any of the terms and conditions of the said LoA and/ or in the performance thereof has been committed by the Consultant and the amount of loss or damage that has been caused or suffered by the Owner shall be final and binding upon us and the amount of the said loss or damage shall be unconditionally paid by us forthwith on demand and without demur to the Owner.
 3. We _____ Bank Ltd. further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for satisfactory performance and fulfillment in all respects of the said LoA by the Consultant i.e. till _____ from the effective date of the contract (hereinafter called the said date) and that if any claim accrues or arises against us _____ Bank Ltd. by virtue of this guarantee before the said date, the same shall be enforceable against _____ Bank Ltd, notwithstanding _____ us
- the fact that the same is enforced within six months after the said date, provided that notice of any such claim has been given to us _____ Bank Ltd., by the Owner within six months after the said date. Payment under this letter of guarantee shall be made promptly upon our receipt of notice to that effect from the Owner.
4. It is fully understood that this guarantee is effective from _____ and that we _____ Bank Ltd. undertake not to revoke this guarantee during its continuity without the consent in writing of the Owner.
 5. We undertake to pay to the Owner any money so demanded notwithstanding any dispute or disputes raised by the Consultant in any suit or proceeding pending before any court or Tribunal relating thereto our liability under this present guarantee being absolute and unequivocal.
 6. The payment so made by us under this guarantee shall be a valid discharge of our liability for payment there under and the Consultant shall have no claim against us for making such payment.

7. We _____ Bank Ltd. further agree that the Owner shall have the fullest liberty, without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract or to extend time of performance by the Consultant from time to time or to postpone for any time or from time to time any of the powers exercisable by the Owner against the said Consultant and to forebear or enforce any of the terms and conditions relating to the said LoA and we, _____ Bank Ltd., shall not be released from our liability under this guarantee by reason of any such variation or extension being granted to the said Consultant or for any forbearance by the Owner to the said Consultant or for any forbearance and or omission on the part of the Owner or any other matter or thing whatsoever, which under the law relating to sureties, would, but for this provision have the effect of so releasing us from our liability under this guarantee.

8. This guarantee will not be discharged due to the change in the constitution of the Bank or the Consultant.

9. We lastly undertake not to revoke this guarantee except with the previous consent of the Owner in writing.

“Notwithstanding anything to the contrary contained herein above:-

i. Our liability under this Guarantee shall not exceed Rs.....-

ii. This Bank Guarantee shall be valid up to.....

iii. We are liable to pay up to the guarantee amount only and only if we receive from you a written claim or demand at not later than 12 months from the said expiry date.....

Witness No. 1

Authorized Bank Representative

(Signature)

Full Name and official

Address (in legible letters)

With Bank stamp

(Signature)

Full name, designation and
address (in legible letters)

Witness No. 2

(signature)

Full name and official

Address (in legible letters)

Attorney as per power of

Attorney No. -----

Dated -----