

MINUTES OF PRE-BID MEETING

GeM Bid No: NIT No. - GEM/2024/B/5588857 dated 08-11-2024.

NOTE TO: All Bidders

Subject: MoM of Pre-Bid meeting on RFP for Development, Implementation & AMC (05 years) of National RCO Portal.

A pre-bid meeting against Request for Proposals (RfP) called for Development, Implementation & AMC (05 years) of National RCO Portal was held on 18th Nov'2024 at Bureau of Energy Efficiency, Conference Hall, 4th floor, Seva Bhawan, New Delhi, 110066. More than 15 participants from 09 different organizations attended this meeting.

Following bidders were present at the pre-bid meeting:

- a) IDAM INFRASTRUCTURE ADVISORY PVT. LTD
- b) RV Solutions Private Limited
- c) Luminous Infoways
- d) CRISIL
- e) PwC
- f) Deloitte
- g) Coforge Limited
- h) REConnect Energy Solutions Limited
- i) Inventive Software Solutions

It has been decided to make following amendments/clarifications to the aforesaid RfP as tabulated below.

Type of Response	Existing clauses/provisions in RFP & Description	Amended clause/provisions and Clarifications
Corrigendum	<p>5.1 Pre-qualification Criteria:</p> <p>7. The bidder must have experience of at least Two Projects for Software Development and Maintenance of a national level portal in power sector operating in any Government Department / PSU / public listed company within India, in last 5 Years, from the date of original bid opening. Such Software shall be in operation for minimum of one Year.</p> <p>8. The bidder shall have experience of Software Development work and maintenance of national level portal in power sector in any Government / PSU / any Public Listed Company during the last five years from the original date of bid opening, as per the following:</p>	<p>7. The bidder must have experience of at least Two Projects for Software Development and Maintenance of a National/State level portal in power/energy sector operating in any Government Department / PSU within India, in last 5 Years, from the date of original bid opening. Such Software shall be in operation for minimum of one Year.</p> <p>8. The bidder shall have experience of Software Development work and maintenance of National/State level portal in power/energy sector in any Government / PSU/ any Public Sector Company during the last five years from the original date of bid opening, as per the following:</p>

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Corrigendum	<p>5.3 Team Structure and Qualifying Criteria for personnel</p> <p>1. Project Manager (should be Power Domain Expert)</p> <p>a) B.E. / B. Tech in electrical or equivalent or higher.</p> <p>d) Should have experience of at least Two Project of Software development and Maintenance of Transactional (data) portal operating on 24x7 basis, with least permissible down-time.</p>	<p>1. Project Manager (should be Power Domain Expert)</p> <p>a) B.E./ B. Tech in electrical/ electronic/ mechanical or equivalent or higher</p> <p>d) Should have experience of leading and / or managing at least Two Projects involving Software development and/or Maintenance of Transactional (data) portal.</p>
Corrigendum	<p>6.1 Technical Evaluation Criteria:</p> <p>4. Bidder's Experience (Number of Projects) in Development / Maintenance of Software in the below mentioned areas, in power sector at NLDC/RLDC/SLDC/RPC/STU/Discom/BEE / in Power Utilities in last 5 years from the original date of bid opening.</p> <p>Software in the following Areas:</p> <p>Renewable Energy Certification / Renewable Consumption obligation</p> <p>Scheduling and Dispatch of Power</p> <p>Sharing of Inter-State Transmission Charges and Losses / Point of Connection Tariff</p> <p>Deviation Settlement Mechanism/Energy Accounting</p> <p>Open Access in Electricity</p> <p>Renewable Energy Scheduling</p> <p>Power Market Energy Scheduling / Power Trading Platform</p> <p>Power Transmission Losses</p> <p>Forecasting of Renewable Power / Power Load Forecasting/Demand Forecasting</p> <p>Smart Grid Applications</p> <p>Demand Side Management</p> <p>Utility Billing Applications</p>	<p>4. Bidder's Experience (Number of Projects) in Development / Maintenance of Software in the below mentioned areas, in power /energy sector at NLDC/RLDC/SLDC/RPC/STU/Discom/BEE/ in Power Utilities in last 5 years from the original date of bid opening.</p> <p>Software in the following Areas:</p> <p>Renewable Energy Certification / Renewable Consumption obligation</p> <p>Scheduling and Dispatch of Power</p> <p>Sharing of Inter-State Transmission Charges and Losses / Point of Connection Tariff</p> <p>Deviation Settlement Mechanism/Energy Accounting</p> <p>Open Access in Electricity</p> <p>Renewable Energy Scheduling</p> <p>Power Market Energy Scheduling / Power Trading Platform</p> <p>Power Transmission Losses</p> <p>Forecasting of Renewable Power / Power Load Forecasting/Demand Forecasting</p> <p>Smart Grid Applications</p> <p>Demand Side Management</p> <p>Utility Billing Applications</p>

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	<p>>= 3 Projects: (15 Marks)</p> <p>2 Project: (10 marks)</p> <p>1 Project: (5 marks)</p> <p>5. Bidder having experience of projects in multiple Fields in any Power industries involving Government Department / PSU / Private Power Utilities in last 5 years from the original date of bid opening.</p> <p>Field:</p> <p>a) Renewable Energy Certification/Renewable Consumption obligation/ Forecasting of Renewable Power / Power Load Forecasting/ Renewable Energy Scheduling</p> <p>b) Scheduling and Dispatch of Power/Open Access in Electricity/ Power Market Energy Scheduling / Power Trading Platform/Utility Billing Applications</p> <p>c) Sharing of Inter-State Transmission Charges and Losses / Point of Connection Tariff/Energy Accounting / Deviation Settlement Mechanism / Power Transmission Losses</p> <p>d) Smart Grid Applications/Demand Side Management</p> <p>>= 3 Field : (15 marks)</p> <p>2 Field : (10 marks)</p> <p>1 Field : (5 marks)</p>	<p>>= 5 Project : (15 Marks)</p> <p>3 Project : (10 marks)</p> <p>1 Project : (5 mark)</p> <p>5. Bidder having experience of projects in multiple Fields in any Power/energy industries involving Government Department / PSU / Private Power Utilities in last 5 years from the original date of bid opening.</p> <p>Field:</p> <p>a) Renewable Energy Certification/Renewable Consumption obligation/ Forecasting of Renewable Power / Power Load Forecasting/ Renewable Energy Scheduling</p> <p>b) Scheduling and Dispatch of Power/Open Access in Electricity/ Power Market Energy Scheduling / Power Trading Platform/Utility Billing Applications</p> <p>c) Sharing of Inter-State Transmission Charges and Losses / Point of Connection Tariff/Energy Accounting / Deviation Settlement Mechanism / Power Transmission Losses</p> <p>d) Smart Grid Applications/Demand Side Management</p> <p>>= 5 Field : (15 Marks)</p> <p>3 Field : (10 marks)</p> <p>1 Field : (5 mark)</p>
Corrigendum	<p>6.1 Technical Evaluation Criteria:</p> <p>The bidder having following valid Certification in addition to ISO 27001. (5 marks for each certificate subject maximum of 10 marks)</p> <p>1) ISO 20000-1 (Information Technology Service Management): (4 Marks)</p> <p>2) ISO 9001 - Quality Management System :(3 Marks)</p>	<p>The bidder having following valid Certification in addition to ISO 27001. (maximum 10 marks)</p> <p>1) ISO 20000-1 (Information Technology Service Management):(4 Marks)</p> <p>2) ISO 9001 - Quality Management System : (3 Marks)</p>

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	3) CMMi Level 3 Certification or above :(3 Marks)	3) CMMi Level 3 Certification : (2 Marks) OR 3) CMMi Level 5 Certification : (3 Marks)
Clarification	<p>7.8 Conditions for consortium:</p> <p>Work Experience shall be met collectively by all the associates/subsidiaries of the JV/Consortium.</p> <p>The financial criteria shall be considered only for the Lead Bidder and not for any associates/subsidiaries of the JV/Consortium.</p>	<p>It was requested to specify avenues / purpose of the JV such as certification, qualification, manpower etc.</p> <p>It is hereby clarified that the purpose of the JV is for the complete execution of work for the entire contract period.</p>
Clarification	<p>5.3 Team Structure</p> <p>Form A3 (Bill of Quantity), and</p> <p>Format for financial proposal</p> <p>Requirement of Resident Engineer (as mentioned in above referred clauses)</p>	The resident engineer stationed at BEE is needed for the entire Development Period, as well as for the entire AMC Period. Cost of the resident engineer for the entire AMC period be shall included in the AMC period costing.
Corrigendum	<p>Scope of Work:</p> <p>Functional Requirement:</p> <p>V. The database shall be My SQL database.</p>	The database shall preferably be My SQL database and any open-source software such as PostgreSQL, MongoDB, Cassandra etc. can also be considered.
Corrigendum	<p>Scope of Work:</p> <p>Functional Requirement:</p> <p>IX. RCO web portal shall have integration with all modes of payment systems and payment gateway etc. to pay all sort of fees/charges such as registration fee, compliance fee etc. for all obligated DCs.</p>	RCO web portal shall have integration with all modes of payment systems and payment gateway etc. to pay all sort of fees/charges such as registration fee, compliance fee etc. for all obligated DCs. BEE will provide the Payment Gateway details for integration.
Clarification	<p>Scope of work:</p> <p>Functional Requirements</p> <p>Some of the State/UT's have their own portal for RCO obligation monitoring. The present scope of work will include development of Interface using API</p>	BEE will provide coordination support to get API for State/UT's that may have their own portal.

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	applications, etc. with state/UT RCO portal for fetching the RCO data from these portals.	
Clarification	<p>Section-A: Functional Requirements</p> <p>Vii. RCO web portal shall have Integration with SMS gateway. Obligated DCs shall get various notification/OTP on registered Mobile Number & Email Id.</p> <p>viii. RCO web portal shall have Integration with WhatsApp Business API based services to send notification / messages to be registered obligated DCs.</p>	<p>Hiring of SMS & WhatsApp Messaging and Email service will be under the scope of the bidder. Bidder may hire the services in the name of BEE if they so prefer.</p> <p>As an indicative approximation, number of recipients for WhatsApp and SMS messages is approximately 1,000,000 per annum each. However, this number shall be scalable to meet the client's requirements as needed.</p> <p>However, bidders need to follow the technical specification and accordingly decide the modalities and volumes for SMS and WhatsApp integration.</p> <p>BEE will also share draft RCO rules for basic and indicative understanding of operational requirements. These Rules are in the process of being developed and may undergo changes.</p>
Clarification	<p>Section-A: Functional Requirements:</p> <p>There should be a provision to customise the dashboard for individual user for analysis on their own format or requirement.</p>	<p>Dashboard functionality will be tailored according to Role-Based User Access groups.</p>
Clarification	<p>Section-A: Functional Requirements:</p> <p>XX. Interface using API applications, etc. with the scheduling software applications of RLDC/NLDC for fetching of ISGS share/LTA/MTOA data and Interface using API applications, etc. with the NOAR (National Open Access Registry), GOAR (Green Open Access Registry) platform for fetching of STOA data. This data is required for calculating the RCO obligation fulfilment of a state/UT.</p>	<p>BEE will provide coordination support to get API.</p>

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	XXI. Development of any software required for ease of data transfer and integration between state/UT RCO portal, the REC Web portal, the scheduling software applications of RLDC/NLDC, and the NOAR, GOAR platform.	
Corrigendum	Section-A: Functional Requirements XXVII.The application shall be developed within five months from the date of award of the contract.	The basic features of the portal shall be ready and will go live within 4 months of accepting the LOA. However, the advanced features of the portal will be concurrently developed by the bidder (within a maximum of 11 months).
Clarification	Section-A: Functional Requirements: VII. RCO web portal shall have Integration with SMS gateway. Obligated DCs shall get various notification/OTP on registered Mobile Number & Email Id. viii. RCO web portal shall have Integration with WhatsApp Business API based services to send notification / messages to be registered obligated DCs.	Bidders need to follow the technical specification and accordingly choose the best suitability of using IT technology/software. However, it may be noted that the used software/tool shall be scalable to meet the client requirement.
Clarification	Configuration of Server: The vendor is expected to take care of all the integration/ coordination related to portal to the main and backup server which would be cloud server (MeitY Empaneled virtual Public Server), taking due care of all the cyber security issues.	The Bureau of Energy Efficiency (BEE) anticipates the configuration sizing of the Cloud Service Provider (CSP) to be 7 TB at a minimum, including both the application server and the database server for both DC and DR. However, Bidders need to follow the technical specification and accordingly choose the best suitability of using IT technology/software including cloud server capacities. It should be noted that the used technology/software/tool shall be scalable to meet the client requirement. BEE will also share draft RCO rules for basic and indicative understanding of all operational requirements. Please note that these Rules are in the process of being developed and may undergo changes.

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Corrigendum	<p>Section-A: Functional Requirements:</p> <p>d. The application should be capable of storing all operational and system related Logs through secured API integrated with the on-premises log collector.</p>	<p>The clause shall be modified as follows:</p> <p>d. The development of application capable of storing all operational and system related Logs shall be the responsibility of the bidder and the bidder shall duly include the relevant costs in their financial proposal.</p>
Addendum	<p>Generic Query Posted by Bidder</p> <p>Bidders have requested to share the draft RCO Rules for getting better understanding of the workflows to be developed.</p>	<p>BEE will share the draft RCO rules for basic and indicative understanding of operational requirements. These Rules are in the process of being developed and may undergo changes.</p>
Corrigendum	<p>Section-A: Functional Requirements:</p> <p>Hosting environment should be on a Cloud from a MeitY empaneled Cloud Service Provider preferred to be Bharat Sanchar Nigam Limited (BSNL), RailTel Corporation of India Limited or GI Cloud (Megh Raj).</p>	<p>Hosting environment should be on a Cloud from a MeitY empaneled Cloud Service Provider preferred to be Bharat Sanchar Nigam Limited (BSNL), RailTel Corporation of India Limited or GI Cloud (Megh Raj). However, bidder may be allowed to submit bid with any other MeitY empaneled CSP.</p>
Clarification	<p>Section-A: Functional Requirements:</p> <p>XXIII. Support and coordination with NIC or any other agency related to Main and Backup Servers i.e., Cloud servers, for system software and hardware related issue for maintaining a secure repository of all the data.</p>	<p>Bidders need to follow all relevant regulatory Guidelines related to cloud storage and for maintaining secure.</p>
Corrigendum	<p>Section-A: Functional Requirements:</p> <p>XXXII. This section includes all services associated with portal such as, user level documentation, help manual, Audio video tutorial, Mobile App, SMS gateway, WhatsApp Business API, Payment Gateway, Chatbot Application, Telephonic/mobile helpdesk functionality, AI based diagnostic and predictive reporting, SOP, sharing of database architecture, source code of portal, Vulnerability Assessment and Penetration Testing (VAPT) and migration of old data to system database.</p>	<p>This section includes all services associated with portal such as, user level documentation, help manual, Audio video tutorial, Mobile App, SMS gateway, WhatsApp Business API, Payment Gateway, Chatbot Application, Telephonic/mobile helpdesk functionality, AI based diagnostic and predictive reporting, SOP, sharing of database architecture, source code of portal, Vulnerability Assessment and Penetration Testing (VAPT) and migration of old data (previous 3 years before Go Live) to system database,</p>

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		and data backup/retention for a minimum of 7 years.
Corrigendum	Operational and Maintenance of the RCO Portal: "iii. Web application security testing to be done on regular interval and latest standards for application security to be followed."	Web application security testing to be done on regular interval and latest standards as per GOI guideline for application security to be followed."
Clarification	Format for financial proposal: Other Terms and Conditions (Sl. No. 1.02) Resident Engineer for a period of development period	Resident engineer is needed for the AMC period. Cost of the resident engineer for the entire AMC period shall include in the AMC period costing
Corrigendum	"Format for financial proposal. While quoting Bid Prices, bidder shall ensure that total cost quoted for Maintenance Support and Comprehensive Maintenance Period - Mandatory shall be minimum 50% of total quoted price for development phase.	While quoting Bid Prices, bidder shall ensure that total cost quoted for Maintenance Support and Comprehensive Maintenance Period - Mandatory shall be minimum 40% of total quoted price for development phase. The average inflation rate declared by the Government of India for the past three years shall be used for the computation of cost for Maintenance Support and Comprehensive Maintenance Period (AMC) and rationalization of costs between the development phase and the AMC phase.
Corrigendum	Critical Information Last date & Mode for Submission of Proposal: 9th December 2024 by 15:00 Hrs. Through GeM only	Last date & Mode for Submission of Proposal 24th December 2024 by 15:00 Hrs. Through GeM only

It is to be noted that the following conditions shall be applicable to the Bidders:

- All issues raised by Participated bidders in pre-bid meeting held on 18.11.2024 has been tabulated & BEE acceptance/rejection of issues have been listed under "BEE responses". This document shall be treated as part of tender document. Bidders are requested to submit their offer before due date & time.
- Rest of the term and conditions and specification of the bid documents shall continue to remain same.
- In case of any unforeseen issue, raised during the bid evaluation, the decision of competent authority in BEE shall be final.