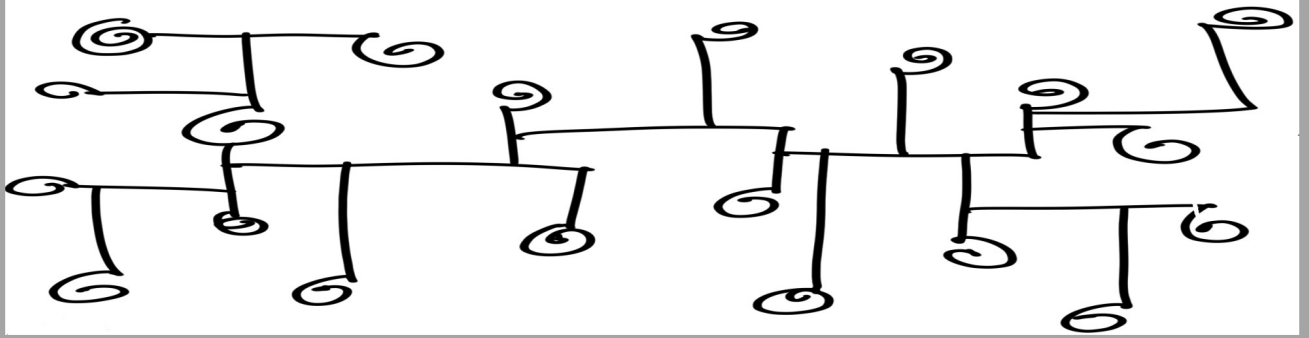




::RFP::
(GERMI/SRW/2015/CMPDI/012)

**Gujarat Energy Research and
Management Institute (GERMI)**



**Request for Proposal for Manufacture, Supply,
Installation, Commissioning, Integration with existing
Micro-grid solution, and Comprehensive Maintenance
for 5 years of the Auto-Changeover panel at CMPDI
Campus, Ranchi**

Issued:

30 October, 2015

Last Date of Submission:

6 November, 2015

Correspondence Address:

**1st Floor, Energy Building
Pandit Deendayal Petroleum
University Campus, Raisan
Gandhinagar 382 007, Gujarat
INDIA**

Phone: (+91) (79) 2327 5361

Fax: (+91) (79) 2327 5380

Email: information@germi.org

Request for Proposal

Ref. No. GERMI/SRW/2015/CMPDI/012

30 October, 2015

Dear Sir,

Gujarat Energy Research and Management Institute (GERMI), in collaboration with Central Mine Planning and Design Institute Limited (CMPDI), a Coal India Limited subsidiary, are undertaking a project for design, development and demonstration of a microgrid system for optimization and control of multiple sources of power supply. This is a crucial and landmark pilot project for establishment of microgrids with the long term vision of improving power quality, remote electrification as well as reducing carbon footprint through maximizing renewable energy utilization and improving energy efficiencies.

We invite all organizations with considerable background of Manufacturing, Supplying, Installing, Commissioning, Integrating and Comprehensive Maintenance of Autochangeover panel for such microgrid projects (mentioned in paragraph above) to submit bids through this RFP No. GERMI/SRW/2015/CMPDI/012 dated 30 October, 2015 as per the various provisions of this RFP.

We request you to kindly go through this RFP and carefully adhere to all the terms and conditions, Amounts, Dates, procedures, Instruction to Bidders, Scope of Work etc. of this RFP for your bid to be considered responsive. Kindly clarify any doubts by contacting the appropriate officer indicated in this RFP within the time period indicated. Your offer may please be submitted by 2 November, 2015.

(Sd/-)

Prof. (Dr.) T. Harinarayana
(Director, GERMI)

Sign and Stamp

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1. Important Dates and Amounts

1.1. Important Dates

1.1.1.	Date of issuing of RFP	:	30 October, 2015
1.1.2.	Last date for requesting clarification pertaining to this RFP	:	4 October, 2015, 5:00 pm
1.1.3.	Last date of submission of Bid	:	6 November, 2015, 11:00 am
1.1.4.	Date of Opening of Technical Bid	:	6 November, 2015, 11:30 am
1.1.5.	Date of Opening of Financial Bid	:	7 November, 2015, 11:00 am
1.1.6.	Letter of Award (LoA)	:	13 November 2015 (tentative)

1.2. Important Amounts

1.2.1.	Cost of Purchase of RFP	:	NIL
1.2.2.	Earnest Money Deposit (EMD)	:	Rupees Fifteen Thousand only (INR 15,000/-) via irrevocable Bank Guarantee or Demand Draft as per the provisions given in this RFP valid for a period of ninety (90) days from the last date of submission of the Bid.
1.2.3.	Bank Guarantee against advance payment	:	20% of EPC Cost Price (ECP)

---End of Section---

2. Bid Submission Checklist

Sr.	Document	Attached? (Yes / No)	For Official Use
1.	Covering Letter as per format given in Annexure 1: Format of Covering Letter for Submission of Bid		
2.	Earnest Money Deposit as per format given in Annexure 2: Format of Earnest Money Deposit or Demand Draft		
3.	Duly filled this Bid Submission Checklist attached with the Covering Letter		
4.	List of Similar Projects as per format given in Annexure 3: List of Similar Projects with necessary attachments		
5.	Summary of Audited Financial Statements as per format given in Annexure 4: Format of Summary of Audited Financial Statements		
6.	Financial Bid in a separate envelope as per format given in Annexure 6: Format of Financial Bid		
7.	Signed and sealed copy of this RFP as an acknowledgement of unconditional acceptance.		

--- End of Section ---

3. Introduction

3.1. Gujarat Energy Research and Management Institute

Gujarat Energy Research and Management Institute (GERMI), an ISO 9001: 2008 certified institute, is a Centre for Excellence in industry learning, research & development and education. It is set up to develop human resource assets to cater to both renewable and non-renewable energy sectors, improve knowledge base of policy makers and technologists, and provide a competitive edge to leaders to compete in the global arena. GERMI was brought into existence and is promoted by Gujarat State Petroleum Corporation Limited (GSPC), a Government of Gujarat Undertaking.

GERMI has already established specialized research, education, management and training institutes, and is continually expanding its horizons to cater to the allied energy sectors. GERMI is a registered Society and a Trust under the Societies Registration Act, 1860 and the Bombay Public Trust Act, 1950. GERMI is a recognized Scientific and Industrial Research Organization (SIRO) by the Department of Scientific and Industrial Research (DSIR), Government of India.

GERMI solar and renewable energy mandates include:

- Techno-commercial/ regulatory advisory and support at various levels to governments to undertake renewable energy programmes and projects;
- Techno-commercial support to both private and government undertakings for establishing solar and allied renewable power and manufacturing projects;
- Fundamental and applied research in the field of energy ranging from functional materials and devices to commercial-scale project performance including auditing;
- Both vocational and professional training along with allied activities to proliferate the trainings by providing institutional support.

3.2. Central Mine Planning and Design Institute Limited

Central Mine Planning and Design Institute Limited (CMPDI) is a Government of India enterprise having its corporate headquarters at Ranchi in the State of Jharkhand, India. It is a fully owned subsidiary of Coal India Limited (CIL) and a Schedule-B company. It is a Mini Ratna (Category II) company since May 2009 and ISO 9001 certified since March 1998. It is also on way for ISO 27001 certification for its information security management.

In 1972, CMPDI was originally conceived and proposed by a joint study group with Polish experts as a comprehensive planning set-up under one roof for entire Indian mining industry, which was then operating on a rudimentary planning system. This was also the time when Indian coal-industry was being nationalized to enable it to support the high growth of energy sector required for speedy industrial growth of the country in the coming years.

To keep pace with the growth and latest technological developments in the mineral and mining industry, there is need for a consultant who can facilitate selection of appropriate strategy- options to operate in today's competitive environment.

CMPDI stands as a symbol of a specialist consultant for all those who are in the mineral and mining sector. With three and a half decades of experience and expertise in mineral exploration, mine planning and design, infrastructure engineering, environment, mineral beneficiation and management services. CMPDI is truly a unique, multi-disciplinary and dynamic consulting organization of this century. CMPDI functions through its corporate headquarters at Ranchi and its Regional Institutes (RIs) numbered 1 to 7 located at Asansol, Dhanbad, Ranchi, Nagpur, Bilaspur, Singrauli, and Bhubaneswar respectively-along with various field units and exploration camps.

CMPDI has more than 700 multidisciplinary technical professionals who combine innovation and initiative to deliver fast and effective solutions in planning, implementation and management of projects. It is equipped with modern laboratory facilities for undertaking various analytical works to supplement its services. It operates through its headquarters at Ranchi, the capital city of the State of Jharkhand, and seven strategically located Regional Institutes spread over six states. Besides its own strength, CMPDI has the access to vast resources available with its principal, Coal India Limited which is world's largest coal producing company. The company is recognized as 'preferred' consultant by Indian and overseas clients including government and private sector, United Nations agencies and international financial institutions.

3.3. About the Project

GERMI is undertaking a joint research and development project with CMPDI to establish a microgrid at the CMPDI campus, Ranchi (this "Project"). The primary objectives of this Project are to:

- Successfully integrate multiple sources of renewable energy in the CMPDI campus while maximizing renewable energy utilization;
- Reducing the carbon footprint by minimizing diesel consumption and any possible energy efficiency measures;
- Improve the power quality while also ensuring economic feasibility;
- Ensure replicability of similar projects to institutional, commercial, rural and other similar settings throughout the country.

Under the current situation, CMPDI campus is supplied electricity at 11 kV, 3-phase, 50 Hz by the local Distribution Company and metered at the same voltage level. The power supply is then stepped down to 415 V and distributed internally within the CMPDI campus to various buildings and load centres. CMPDI campus has a maximum electricity demand to the tune of 500 kW, and the consumption of this campus is approximately 2 Million Units (MU) per year.

Due to regular outages in electricity supply from the grid, CMPDI campus also maintains one diesel generator of 500 kVA and two diesel generators of 250 kVA each. Typically, one diesel generator is kept online depending on the time of the day and day of the week. The diesel generator starts up within a couple of seconds of the power outage. Further, the diesel generator only supplies power to the critical loads on campus.

Currently, solar rooftop photovoltaic (RTPV) system aggregating to the tune of 190 kW has been installed. For microgrid installation, smart meters have also been installed at Grid incomers, Critical and non-critical loads, Diesel Generator sets and Solar RTPV systems to understand Demand and

Supply pattern. A System Integrator (SI) has been appointed by GERMI to supply, install, commission, operate and maintain the Microgrid system at CMPDI, Ranchi.

It is through this Microgrid framework, further sophistication can be achieved by automating the substation. Hence an auto-changeover panel has been proposed by CMPDI and GERMI jointly to integrate with ongoing installation process of Microgrid at CMPDI, Ranchi.

---End of Section---

4. Instruction to Bidders

4.1. General

- 4.1.1. The Bidder shall bear all the costs associated with the preparation and submission of the Bid and GERMI shall, in no case be responsible or liable for these costs regardless the conduct or outcome of the bidding and contracting process. The Bidder is expected to examine all instructions, forms, terms and conditions in the Bid.
- 4.1.2. GERMI reserves the right to cancel any or all the Bids at any point of the bidding process as per its discretion without assigning and giving any reason thereof. GERMI also reserves right to rescind the process of this RFP at any time before placement of the order for the said Scope of Work herein.
- 4.1.3. The Bidder shall prepare the Bid based on the information furnished and terms and conditions provided in the RFP. However, the Bidder is advised to visit the project site(s) and examine the site(s) to obtain all information as deemed necessary for preparation of the Bid.
- 4.1.4. The Bid shall also contain all the information asked in this RFP with supportive data wherever necessary.
- 4.1.5. Failure to furnish all information required by the RFP or submission of a Bid not substantially responsive to the RFP will be at the Bidder's risk and may result in rejection of the Bid.
- 4.1.6. Failure to comply with all amounts and timeline indicated in this RFP shall automatically make the Bid liable for rejection.
- 4.1.7. The Bid submitted is to be signed by a person who is a duly authorized by the Bidding organization.
- 4.1.8. This RFP is non-transferable. Each bidder shall submit only one RFP by himself.
- 4.1.9. At any time prior to the deadline for submission of Bids, for any reason, whether at his sole initiative or any response to a clarification requested by a Bidder, GERMI may modify the RFP by amendment(s) thereto. The amendment(s) will be notified publically and/ or in writing to all prospective Bidders.
- 4.1.10. The prospective Bidder requiring any clarification shall write to GERMI on or before the last date for such clarification as indicated in Clause 1.1.2 so as to ensure timely response by GERMI and timely submission of the Bids.
- 4.1.11. **Bid Validity:** The Bids shall be kept valid for at least ninety (90) days from the last date of submission of Bid. A Bid with validity for a shorter period than the above may be rejected by GERMI. If required, GERMI may solicit the Bidder's consent to an extension of the period of Bid validity.
- 4.1.12. **Deviations:** No deviations shall be taken by the Bidder to the RFP especially with regard to inclusive but not limited to the Scope of Work and the terms and conditions. Bids with any deviation are liable to be summarily rejected.
- 4.1.13. **Language of correspondence and Bid:** The Bid prepared by the Bidder and all correspondence and documents relating to the Bid exchanged between the Bidder and GERMI shall be written in English language only.
- 4.1.14. All communication/ correspondence may be directly submitted to:

The Director

Gujarat Energy Research and Management Institute

1st Floor Energy Building, Pandit Deendayal Petroleum University Campus

Gandhinagar, Gujarat 382 007, INDIA

Phone: (+91) (79) 2327 5372

Fax: (+91) (79) 2327 5380

Mobile: (+91) 97129 64 450

Email: Souvnik.r@germi.res.in

4.2. Eligibility

- 4.2.1. Bidders demonstrating sufficient experience in Manufacture, supply, installation, commission and maintenance of Autochangeover similar to the one to be implemented under this RFP through Engineering Procurement and Commissioning (EPC) shall qualify to bid for this RFP.
- 4.2.2. The Bidder shall have undertaken at least three (3) Similar Projects of Capacity (500 kW or above). Similar projects shall include the "Scope of Work" as required under the provision of this RFP as per Annexure 3: List of Similar Projects.
- 4.2.3. Bidder shall have average turnover in the past 3 financial year (i.e. 2012-13, 2013-14, 2014-15) greater or equal to Rs. 5 crores and shall submit the details of the same as per Annexure 4: Format of Summary of Audited Financial Statements.

4.3. Earnest Money Deposit

- 4.3.1. Bidder shall be required to submit Earnest Money Deposit (EMD) in the form of Bank Guarantee as per the format specified in Annexure 2: Format of Earnest Money Deposit. The EMD can also be in the form of a Demand Draft in favour of Gujarat Energy Research and Management Institute payable at Gandhinagar valid for a period of ninety days (90) from the last date of submission of Bid.
- 4.3.2. The EMD shall be from any bank specified in the same annexure.
- 4.3.3. GERMI shall not be liable to pay any interest on the Bid Security deposit made and the same shall be interest free.
- 4.3.4. The EMD of unsuccessful bidders shall be returned once the Successful Evaluated Bidder accepts the LoA issued.
- 4.3.5. The EMD of Successful Evaluated Bidder shall be returned once it provides the Advance Payment Bank Guarantee to GERMI.
- 4.3.6. The EMD of Successful Evaluated Bidder can be forfeited if it delays to accept the LoA within the stipulated period, and the contract shall be allotted to next best bidder.

4.4. Bid Deadline

- 4.4.1. Any Bid received by GERMI after the last date for submission of Bid as indicated in Clause 1.1.3 shall be summarily rejected. GERMI shall not be responsible for any delay in submission of the Bid whether caused by the Bidder or and other third party.
- 4.4.2. Any change in the last date for submission of the Bid shall be intimated to the Bidders accordingly.

4.5. Submission of the Bid

- 4.5.1. The Bid prepared by the Bidder shall be submitted in two separate envelopes:
Envelope-1 shall comprise of Technical Bid and 'un-priced' Financial Bid.
Envelope-2 shall comprise of the duly filled-up Financial Bid.
- 4.5.2. Number of Copies to be submitted:
Envelope-1 (Technical Bid and 'un-priced' Financial Bid):
Printed Copy – **1 Original + 1 Copy**
Envelope-2 (duly filled-up Financial Bid):
Printed Copy – **1 Original + 1 Copy**
- 4.5.3. Envelope-1 (Technical Bid and 'un-priced' Financial Bid) shall contain the following details and documents:
- Technical Proposal: Covering letter for submission of Bid with confirmation that the Bidder has completely understood the RFP and agrees to all the provisions in the RFP as per the format given in Annexure 1: Format of Covering Letter for Submission of Bid.
 - List of Similar Projects carried out by the Bidder as per the format given in Annexure 3: List of Similar Projects. The Bidder shall annexe a letter of award for such projects; brief note on the nature of the projects; certificate of satisfactory completion of the projects or status of the projects; outcomes or results of the projects; and any other information deemed necessary by the Bidder.
 - Financial credentials of the Bidder including its turnover for the last three years certified by a practicing Chartered Accountant as per Annexure 4: Format of Summary of Audited Financial Statements.
 - If required, GERMI may ask for any information or clarification, or even invite the Bidder for discussion while evaluating their Technical Bid.
- 4.5.4. Envelope-2 (Financial Bid) shall contain only the duly filled up and signed Financial Bid as per format enclosed in Annexure 6: Format of Financial Bid.
- 4.5.5. Envelope-1 and Envelope-2, containing the above information shall be sealed individually and labelled clearly on top of the envelopes as follows:
- "Envelope-1: (ORIGINAL) Technical Bid for Manufacture, Supply, Installation, Commissioning, Integration with existing Micro-grid solution and Comprehensive Maintenance for 5 years of the Auto-Changeover panel at CMPDI Campus, Ranchi."
 - "Envelope-1: (COPY) Technical Bid for Manufacture, Supply, Installation, Commissioning, Integration with existing Micro-grid solution and Comprehensive Maintenance for 5 years of the Auto-Changeover panel at CMPDI Campus, Ranchi."
 - "Envelope-2: (ORIGINAL) Financial Bid for Manufacture, Supply, Installation, Commissioning, Integration with existing Micro-grid solution and Comprehensive Maintenance for 5 years of the Auto-Changeover panel at CMPDI Campus, Ranchi."
 - "Envelope-2: (COPY) Financial Bid for Manufacture, Supply, Installation, Commissioning, Integration with existing Micro-grid solution and Comprehensive Maintenance for 5 years of the Auto-Changeover panel at CMPDI Campus, Ranchi"
- The Envelope -1 can have two small envelopes inside as Envelope-1 (Original) and Envelope - 2 (Copy). Similarly Envelope -2 can further have two small envelopes inside as Envelope-2 (Original) and Envelope -2 (Copy).
- 4.5.6. All the above envelopes shall be placed in a general sealed envelope

“Bid for Manufacture, Supply, Installation, Commissioning, Integration with existing Micro-grid solution and Comprehensive Maintenance for 5 years of the Auto-Changeover panel at CMPDI Campus, Ranchi.”

4.5.7. All envelopes shall clearly indicate the name and address of the Bidder.

4.5.8. All Bids shall be addressed to:

The Director,
Gujarat Energy Research and Management Institute
1st Floor Energy Building,
Pandit Deendayal Petroleum University Campus,
Gandhinagar, Gujarat 382 007
INDIA

4.5.9. All pages of the Bid submission including this RFP shall be duly signed and stamped by the Bidder as a mark of acceptance of all terms and conditions.

4.6. Bid Price

4.6.1. The price quoted by the Bidder shall be all inclusive considering the total Scope of Work as indicated in the RFP.

4.6.2. Bid price shall be quoted in Indian rupee only.

4.6.3. The Financial Bid shall be inclusive of all taxes and duties indicated in the tables in Annexure 6: Format of Financial Bid.

4.6.4. The price quoted in Indian Rupees shall be written both in words and figures and in case of any discrepancy between the two, prices in words shall be valid and binding.

4.6.5. The Financial Bid shall include EPC Cost Price, CMC from 2nd year to 5th year as per Annexure 6: Format of Financial Bid.

4.7. Bid Opening and Evaluation

4.7.1. The authorized representatives of GERMI will open Envelope-1 (Technical Bid and ‘un-priced’ Financial Bid) in the presence of the Bidders or of their representatives who choose to attend the opening, on the last date for submission of bid at GERMI.

4.7.2. Any Bidder who has not complied with the condition of this RFP shall be liable for rejection.

4.7.3. Upon evaluation of the Technical Bids, Envelope-2 (Financial Bid) of only the technically qualified Bidders will be opened.

4.7.4. Envelope-2 (Financial Bid) of the technically qualified Bidders will be opened on the date and time indicated in Clause 1.1.5 and will be considered for evaluation.

4.7.5. The Successful Evaluated Bidder shall be the technically qualified bidder with the lowest value of sum of ECP and Total CMC Cost (For Evaluation Column) as per Annexure 6: Format of Financial Bid.

4.8. Right to Accept or Reject Any or All Bids

4.8.1. GERMI is not bound to accept the lowest or any bid and may at any time by notice in writing to the Bidders terminate the bidding process.

- 4.8.2. GERMI may terminate the contract if it is found that the Contractor is blacklisted on previous occasions by the any of the Departments/ Institutions/ Local Bodies/ Municipalities/ Public Sector Undertakings, etc.

4.9. Negotiations with Bidders

- 4.9.1 L1 shall be selected based on the Evaluation mentioned in section 4.7 Bid Opening and Evaluation, however, the selection of Contractors for negotiations could be held up to L3 bidder. In cases where the L1 bidder refuses to further reduce his offered price and the L2 or L3 bidders come forward to offer a price which is better than the price offered by L1 bidder, then that bidder out of L2 and L3 will be considered as L1 bidder. However, in such a situation, the original L1 bidder shall be given one more opportunity to match the discovered price. In case of acceptance, it would be treated as the L1 bidder.
- 4.9.2 The Bidder is not allowed to revise the price, before opening of the Financial bids, once it is submitted to GERMI.
- 4.9.3 The merit order of L1, L2, L3 bidder will be decided as described in Section: Bid Opening and Evaluation. The work as a whole will be allotted in a single part to the bidder who is finally evaluated as L1, however, the decision of Director GERMI shall be final in this regard.

4.10. Award of Contract

- 4.10.1. GERMI shall award the contract to the Successful Evaluated Bidder now known as “The Contractor” whose Bid has been found to be responsive and who is eligible and qualified to perform the Scope of Work satisfactorily as per the terms and conditions incorporated in the RFP.
- 4.10.2. GERMI shall intimate Successful Evaluated Bidder for commencement of work through a Letter of Award (LoA).

4.11. Fraudulent Practices

- 4.11.1. The bidders may please note that GERMI shall not entertain any correspondence or queries on the status of the bids received against this RFP. Bidders are advised not to depute any of their personnel or agents to visit GERMI’s office for making such inquiries.
- 4.11.2. Any effort by a bidder to influence GERMI on the bid evaluation, bid comparison or contract award decision may result in the rejection of the bidder's bid.

---End of Section---

5. Scope of Work

5.1. The project

5.1.1. The Scope of work for the contractor is to Manufacture, Supply, Install, Commission, Integrate with the existing microgrid solution and Comprehensive Maintenance for 5 years the Auto-changeover panel (called “the project”) at CMPDI, Ranchi.

5.2. Existing Microgrid Solution

5.2.1. The SI is offering a microgrid solution at site to improve the power quality, reduce diesel consumption, seamless transition between Grid and Local generating sources and uninterrupted Solar rooftop PV system generation. The components for the same include:

- i. Voltage stabilizes (2 * 500 kVA)
- ii. UPS of 250 kVA capacity with battery backup (5 mins at 100% load)
- iii. Fuel governors at DGs to optimize fuel consumption
- iv. Load nodes to connect/disconnect critical loads during grid outage
- v. Green sense (SI’s patented microgrid suite) for real time monitoring and control.

5.2.2. The proposed microgrid solution is to get commissioned later this year. The idea of the project is to install, commission and integrate the Autochangeover panel in parallel with microgrid activity and a subsequent Comprehensive Maintenance period of 5 years after the certification by GERMI of successful integration.

5.3. Auto-Changeover Panel

5.3.1. On site we have an existing manual changeover panel. This panel is to be replaced by the auto-changeover panel. The technical specification of the Auto-changeover and the circuit diagram is in the Annexure 7: Technical Specifications of Autochangeover panel. The Auto-changeover panel is to be installed in the Substation of the campus in place of the old manual changeover panel.

5.3.2. The Auto-Changeover is to perform the duties:

- i. Automate power distribution without human intervention.
- ii. Auto-changeover panel to house a Programmable Logical Controller (PLC) to turn on and off the DG as per requirement
- iii. Synchronize the DGs namely 2 no. of 250 kVA (DG #1 and DG #3) and 1 no. of 500 kVA (DG #2).
- iv. The DG is to synchronize with the UPS of 250 kVA capacity.
- v. PLC to have the intelligence to turn off the UPS once the DG is turned on.
- vi. PLC to have communication port to get integrated with the microgrid controller at the site.

5.3.3. On site we have Auto Mains Failure (AMF) panels which automatically starts the DGs. GERMI proposes a PLC to do the same instead of the AMF as below:

- i. DG operation as per the load immediate before outage. E.g. power consumption, immediate before the outage was 650 KVA – now upon the outage DG#1 and DG#2 are to be triggered to be ON. Similarly, if power consumption, immediate before the outage was 400 KVA – now upon the outage DG#2 is to be triggered to be ON. And if power

consumption, immediate before the outage was 200 KVA – upon outage the DG#1 is to be triggered to be ON.

- ii. PLC to sync the DGs in operation.
- iii. PLC to sync the UPS available on site.
- iv. PLC to turn off the UPS once DG is turned on.
- v. Bus coupler and ACB are to be operated as per below conditions:

Power Supply		ACB Status						
TR-1	TR-2	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Mains	Mains	TR-1 Supply	DG-1	TR-1 Supply	DG-3	TR-2 Supply	DG-2	Bus Coupler
ON	ON	ON	OFF	ON	OFF	ON	OFF	OFF
ON	OFF	ON	OFF	ON	OFF	OFF	OFF	ON
OFF	ON	OFF	OFF	OFF	OFF	ON	OFF	ON
OFF	OFF	OFF	ON	OFF	ON	OFF	ON	ON

TR-1: Transformer 1
 TR-2: Transformer 2
 DG-1: Diesel Genset 1
 DG-2: Diesel Genset 2
 DG-3: Diesel Genset 3

- vi. The bidder is to assemble the Autochangeover as per the BOQ provided in Annexure 7: Technical Specifications of Autochangeover panel. The bidder has to abide to the Quantity described in the table in Annexure 6. However, the scope would not be limited to supply of those material only. The objective of the project is to provide the features indicated in section: Auto-Changeover Panel, the Bidder can increase/ decrease its BoQ in order to meet all the objectives.

5.4. Deliverable 1: Delivery of Autochangeover panel at site

- 5.4.1. The contractor shall deliver the Autochangeover panel at site in 4 weeks from the date of issuance of LoA.
- 5.4.2. The Contractor shall make necessary arrangement to place the equipment at Substation at its desired location.
- 5.4.3. GERMI and CMPDI will acquire necessary permissions for installation at site.
- 5.4.4. All necessary permissions shall be acquired by GERMI from CMPDI.

5.5. Deliverable 2: Installation, Commission and Integrating the Auto-changeover panel with existing Microgrid solution at site

- 5.5.1. The Subsequent Installation, Testing, Commission and Integration of the Auto-changeover panel with the existing Microgrid Solution shall be executed by in 6 weeks from Date of issuance of LoA whichever is earlier.
- 5.5.2. The contractor shall make necessary arrangements in installing, charging, testing, commissioning and integration of the autochangeover at the site.

---End of Section---

6. General Terms and Conditions

6.1. Bank Guarantee

- 6.1.1 The Contractor should provide an unconditional and irrevocable Advance payment bank guarantee as per the format given in Annexure 5: Format of advance payment bank Guarantee, within a period of 7 (seven) days from the date of issuance of LoA.
- 6.1.2 The validity of the advance payment bank guarantee shall be for a period atleast 3 (three) months.
- 6.1.3 The advance payment bank guarantee can be forfeited if the Contractor is not able to deliver the desired equipments or instruments at Site within an appropriate period or as per the schedule of work provided by the Supplier.

6.2. The Contractor's Team

- 6.2.1. The Bidder shall nominate a person as the "Chief Coordinator and Technical Expert" having 5 years experience in relevant area to the Scope of Work of this RFP. The Curriculum Vitae of the Chief Coordinator and Technical Expert shall be included in the Bid.
- 6.2.2. The Contractor's Team shall be approved by GERMI. Further, the Contractor shall not change any team member from its team without prior approval from GERMI.

6.3. Materials and Workmanship

- 6.2.1 All materials/hardware and workmanship shall have minimum one (1) year warranty or more in case the original manufacturer provides the same. It shall be of the best quality and workmanship capable of satisfactory operation under the operating and climatic conditions as may be specified. Unless otherwise specified, they shall conform in all respect to the latest edition of the relevant Bureau of Indian Standard (BIS) specification wherever Indian specifications apply or British Standard (BS) or International Electro-technical Commission (IEC) or internationally accepted standard.
- 6.2.2 The Contractor shall supply and deliver all equipment and materials for installation at Site. The Contractor shall arrange for transportation, loading and unloading and safe storage of materials at project site at its own cost and risk.
- 6.2.3 If the Contractor offers equipment manufactured in accordance with other international well recognized standards, it shall, in that case, supply a copy in English of the Standard Specification adopted and shall clearly mention in what respect such standard specification differs from Indian Standard Specifications. The plant, equipment, and materials offered by the Contractor should comply with one consistent set of Standards only as far as possible.
- 6.2.4 No deviation in foreign exchange rate shall be admissible at any point of time after submission of the Bid.

6.4. Packing and Marking

- 6.3.1 The Contractor shall be responsible for securely protecting and packing the plant and equipment as per prescribed standards in force to withstand the journey and ensuring safety

of materials and also arrival of materials at destination in original condition and good for contemplated use. Packing case size and weight shall take into consideration the remoteness of the goods' final destination and absence of heavy material handling facilities at all points in transit.

- 6.3.2 Packing lists of materials shall be provided in each package to facilitate checking up of the contents at the destination.
- 6.3.3 In order to import any items, associated with the Project, from abroad or from any other state in India, the Contractor shall have to arrange any clearance, permission, if required at his own risk, from any Government (Government of State and Government of India) or any Government (Government of State and Government of India) controlled organization for transportation of materials from manufacturing shop to delivery at any site. Necessary certificates, if so required, shall be issued by GERMI within reasonable time after getting written request from the Bidder along with the necessary documents substantiating necessity of such approvals. Disposing of all packing material is the responsibility of the System Integrator only and should be done appropriately.

6.5. Power to Vary or Omit Work

- 6.4.1 No alterations, amendments, omissions, additions, subtractions, or variations of the work (hereinafter referred to as "Variations") under the contract shall be made by the Contractor except as directed by GERMI.

6.6. Insurances

- 6.6.1. The responsibility of all types of applicable and required insurance coverage for the Bidder's personnel, material, equipment, etc. deployed for the scope of services shall rest with the Bidder and in no way GERMI shall be responsible for any liability or damages, whatsoever.

6.7. Delivery of Equipment

- 6.6.1 The Contractor shall deliver the equipments of the System in accordance with the terms of the Contract at the time(s) to the place(s) and in the manner specified in the Contract. The Contractor shall comply with instructions that may be given by GERMI from time to time regarding the transit of the material.
- 6.6.2 Notification of delivery or dispatch in regard to each and every consignment shall be made to GERMI immediately after dispatch or delivery from the manufacturing works. The Contractor shall supply to the consignee Invoice in triplicate and packing account of all stores delivered or dispatched by it.
- 6.6.3 In case of any occurrence of loss or damage in transit, it shall be the liability of the Contractor to initiate or pursue the claim with insurance company. It should take immediate steps to repair the damaged apparatus or replacement there to.

6.8. Liabilities during Transit

- 6.7.1 The Contractor shall be responsible for loss, damages or depreciation to goods, equipment, and machineries up to delivery at Site.

6.9. Deduction from Contract Price

- 6.8.1 All costs, claims, damages or expenses, which GERMI may have paid for which the Contractor is liable, will be deducted by GERMI from deposited bank guarantees or from any money due or which become due to it under this Contract or any contract are being executed elsewhere with GERMI.
- 6.8.2 Any sum of money due and payable to the Contractor, as per the Contract Agreement, may be appropriated by GERMI and set off against any claim of GERMI, for the payment of a sum of money arising out of or under any other contract made by the Contractor with GERMI. It is an agreed term of the Contract that the sum of money, withheld or obtained under this clause by GERMI, will be kept withhold or retained as such by GERMI or till this claim arising out of in the same Contract is either mutually settled or determined by the arbitrator, or by competent court, as the case may be, and that the Integrator shall have no claim for interest or damages whatsoever on this account or any other account in respect of any sum of money withheld or retained under this clause and duly notified as such to the Contractor.

6.10. Timeline

- 6.10.1 The Contractor shall adhere to the timeline below till the start of the Comprehensive Maintenance Period.

Sr. No.	Stage	Reference from Zero Date ("D") + Weeks
1.	Letter of Award (LoA)	D
2.	Delivery of Autochangeover at site	D+4
3.	Installation, Commission and Integration with the existing microgrid solution	D+6

6.11. Liquidated Damages ("LD") for Delay

- 6.11.1 1 % of ECP per week up to a maximum of 10%. Any delay after 10th week, GERMI will have the right to hand over the Scope of Work to a new contractor.

6.12. Payment Schedule

- 6.12.1. Payments shall be made to the Consultant as follows (also Refer: Annexure 6: Format of Financial Bid)

Sr. No.	Deliverable		Payment Amount
a)	Advance Payment upon acceptance of issuance of LoA against Bank Guarantee.	:	20% of EPC Contract Price (ECP)
b)	Upon completion of "Deliverable 1: Supply of Autochangeover panel at site	:	30% of ECP

c)	Upon completion of “Deliverable 2: Install, Commission and Integrate the autochangeover panel with existing Microgrid Solution.	:	40% of ECP
d)	Comprehensive Maintenance Contract (CMC) Period begins	:	Year 1: CMC-1 Year 2: CMC-2 Year 3: CMC-3 Year 4: CMC-4 Year 5: CMC-5

6.13. Mode of Payment

6.13.1. All invoices, accompanied with appropriate project update report shall be paid to the Contractor within thirty (30) days or receipt of Invoice.

6.14. Defect Liability

6.13.1 The Defect Liability Period shall be Twelve (12) months from the date of successful integration of the panel with the existing microgrid solution (“Defects Liability Period”). The Contractor shall also be undertaking the CMC of the Autochangeover panel for 5 years beyond the Defect Liability Period and consequently shall be required to rectify any defects that emerge during the operation of the system during Defects Liability period and the entire term of CMC.

6.15. Intellectual Property

6.15.1. Any and all works of authorship, inventions, discoveries, processes, machines, manufactures, compositions of matter, formulas, techniques, computer programs, systems, software, source code, firmware, object code, hardware systems, mask works, trade secrets, proprietary information, schematics, flow charts, databases, customer lists, marketing plans, product plans, business strategies, financial information, forecasts, trademarks, service marks, brand names, trade names, compilations, documents, data, notes, reports, findings, recommendations, designs, drawings, sketches, notebooks, ideas, concepts, technical data and/or training materials, and improvements to or derivatives from any of the above, whether or not patentable, or subject to copyright or trademark or trade secret protection, shall be collectively termed as “Intellectual Property.”

6.15.2. All Intellectual Property arising out of the Contractor’s services towards fulfilling the Scope of Work and the rights thereto (“Intellectual Property Rights”) free and clear of any encumbrance, shall be owned by GERMI.

6.16. Tools and Tackles

6.14.1 The Contractor shall provide technically suitable tools and tackles for installation & erection of Autochangeover panle and machineries conforming to relevant BIS safety and technical standards for proper execution of work. GERMI, in no way, shall be responsible for supply of

any tools and tackles for implementation of the work and also to carry out operation and maintenance activities.

6.17. Manuals

6.15.1 The Contractor shall supply all necessary erection and commissioning manuals, O&M manuals etc. as and when required. Two sets of test results, manuals etc. shall be submitted by the Contractor on completion of the work.

6.18. Safety Measures

6.16.1 The Contractor shall have to provide necessary and adequate safety measures including personal protective equipment and precautions to avoid any accident, which may cause damage to any equipment/ material or injury to workmen. GERMI shall not be responsible for any such accidents.

6.19. Hazardous Material

6.17.1 Any hazardous material used during construction or used as part of the plant has to be taken back by the supplier for recycling or dumping purpose after its operating/ working life, so that it may not affect the environment or any living being. The Contractor shall comply with Jharkhand State Pollution Board regulations.

6.20. Stoppage of Work

6.18.1 GERMI shall not be responsible and not liable to pay any compensation due to stoppage of work as a reaction from local public due to any undue action on the part of the Contractor causing annoyance to local people.

6.21. Warranty

6.19.1 The components/ equipment to be provided by the Bidder in the technical Bid as per the format in Annexure 7: Technical Specifications of Autochangeover panel, shall have a minimum warranty of 1 year or more if the original manufacturer of materials provides the same.

6.19.2 In case of any defect being detected, the Contractor shall depute their engineer on site within 48 Hrs maximum and shall get it corrected within that period, whatsoever the nature of the defect without any additional charges in the warranty period. The warranty period also includes replacement with spares.

6.22. Indemnity

6.22.1. GERMI and CMPDI shall indemnify the Contractor in respect of all claims, damages or injury or damage to any representative of GERMI or CMPDI and/ or property assigned to this Project.

6.23. Contract Validity

6.23.1. The order given to the Contractor shall be valid till the successful integration of the panel with the existing Microgrid solution and certification by GERMI regarding the same.

6.24. Cancellation/ Termination

6.24.1. GERMI at its discretion reserves the right to cancel/ terminate the contract partly or wholly or reduce the Scope of Work, at its discretion, by giving ten (10) days notice without assigning reasons during the tenure of the Contract, which shall be binding to the Contractor and the Contractor shall be paid fees only for the actual work carried out based on discussion, agreements, justification, documents, etc.

6.24.2. Whereas, against scope reduction, if any, the justified reduction in contract price shall be bided, discussed and agreed and accordingly contract price shall be amended.

6.25. Governing Law

6.25.1. The Order shall be governed by Law of India. The Gandhinagar/ Ahmedabad courts shall be the exclusive jurisdiction.

6.25.2. In case of the arbitration, the place of Arbitration shall be Gandhinagar/ Ahmedabad.

6.26. Construction of Contract

6.24.1 The Contract shall in all respect be construed and operated, as a Contract as defined in the Indian Contracts Act, 1872, and all the payments there under shall be made in Indian Rupees unless otherwise specified.

6.27. Comprehensive Maintenance of Autochangeover panel

6.27.1 The Contractor shall undertake CMC of the autochangeover after its successful integration at site. The CMC shall be such that the 1st year should be free as per 1 year Warranty Clause (refer Warranty). The CMC for the year after till the end of 5th year has to be quoted as per Annexure 6: Format of Financial Bid). A separate work order shall be placed for CMC Contract by GERMI or CMPDI as per the price quoted.

6.28. Risk Purchase

6.26.1 If the Contractor fails, on receipt of the LoA, to take up the work within a reasonable period or leave the work Site after partial execution of the work, GERMI shall have the liberty to get the work done through other agency at the Contractor's own risk and additional cost if any. If the situation, so warrants, to compel GERMI to cancel the LoA placed on the Contractor, it shall be liable to compensate the loss or damage, which GERMI may sustain due to reasons of failure on Contractor's part to execute the work in time.

6.29. Confidentiality

- 6.29.1. All reports, drawings, diagrams, designs, specifications, material lists, flow sheets, patterns and other documents collected / prepared in connection with the services hereunder shall at all stages be termed as Confidential Information and remain the property of GERMI and while in the custody of the Contractor shall be fully available to GERMI and its duly authorized representatives.
- 6.29.2. Similarly all the drawings, design, calculations, specifications, lists, photographs, soft copies, CD's and other technical documents including operation and maintenance manuals, etc. pertaining to the project, furnished by the Contractor shall also be a part of the Confidential Information and be the properties of GERMI and shall be delivered to GERMI on completion of the work.
- 6.29.3. On completion of the assignment, all Confidential Information shall be delivered by the Contractor to GERMI.
- 6.29.4. The Contractor/ Bidder shall hold in confidence this assignment and all activities relating to the Project and all documents and other information whether technical or commercial which is of a confidential nature supplied by or on behalf of GERMI relating to the design, construction, insurance, operation, maintenance, management and financing of the Project and shall not, save as required by law or appropriate Competent Authorities disclose the same to any third party without any written approval from GERMI.
- 6.29.5. Literature, drawings, reports, instruction manuals etc. of different manufacturers, suppliers, bidders and other Confidential Information, which are made available to the Contractor shall be used exclusively for the project activities only and shall not be used for any other purpose. The same shall also be carefully preserved by the Contractor till the completion of the project and returned to the Company in good condition, prior to closing of the contract.

6.30. Arbitration

- 6.29.1 All questions, disputes or differences whatever which may at any time arise between the parties to this contract in connection with the contract or any matter arising out of or in relation thereto shall be reported to Jharkhand Public Works Contract Dispute Arbitration Tribunal and provision of Jharkhand Public Work Contract Disputes Arbitration and Tribunal Act 1996 shall be applied as updates time to time.
- 6.29.2 The Integrator shall ensure that the work under this Contract shall continue with its obligations as per this RFP during arbitration proceedings and dispute and no payments due from or payment by GERMI shall be withheld on account of such proceedings except to the extent which maybe in dispute.

---End of Section---

Annexure 1: Format of Covering Letter for Submission of Bid

[Covering Letter shall be on the official letterhead of the Bidder.]

[Reference No.]

From:

[Address of the Bidder]

[Telephone No., Fax No., Email]

[Date]

To:

The Director

Gujarat Energy Research and Management Institute

1st Floor Energy Building,

Pandit Deendayal Petroleum University Campus

Gandhinagar, Gujarat 382 007

INDIA

Sub: Technical Bid for Manufacture, Supply, Installation, Commissioning, Integration with existing Micro-grid solution and Comprehensive Maintenance for 5 years of the Auto-Changeover panel at CMPDI Campus, Ranchi

Ref: Your RFP No. GERMI/SRW/2015/CMPDI/012 dated 30 October, 2015

Dear Sir,

I, [Name of Authorized Representative], the authorized representative of [Name of Company], having read, examined and understood in detail the RFP for Manufacture, Supply, Installation, Commissioning, Integration with existing Micro-grid solution and Comprehensive Maintenance for 5 years of the Auto-Changeover panel at CMPDI Campus, Ranchi hereby submit our Bid comprising of Technical and Financial Bids.

- 1. Unconditional Acceptance:** We give our unconditional and irrevocable acceptance to the RFP including but not limited to all its instructions, terms and conditions, and formats attached thereto, issued by GERMI, as amended. In token of our acceptance to the RFP, the same have been initialed by us and enclosed to the Bid. We accept that all decisions made by GERMI in respect of any matter regarding or arising out of the RFP shall be binding on us. We hereby expressly waive any and all claims in respect of the Bid process and shall not carry any legal action against any of the decisions of GERMI.
- 2. Fulfillment of RFP Eligibility:** We undertake that we fulfill the requirement enabling us to become eligible for Bidding for the RFP. We also provide our unconditional consent to GERMI's any decision regarding our disqualification based on our eligibility without GERMI assigning any reasons for disqualification thereof.
- 3. Earnest Money Deposit:** We have enclosed the requisite Earnest Money Deposit of Rupees Fifteen thousand Only (Rs. 15,000/-) as per the provisions of the RFP in the form of Bank

Sign and Stamp

Guarantee No. [Bank Guarantee No.] / Demand Draft No.
[Demand Draft No. here] from [Bank name] dated [date].

- 4. **No Litigation:** We confirm that there are no litigations or disputes against us, which materially affect our ability to fulfill our obligations with regard to fulfilling our obligations as per the RFP. We also confirm that we are not blacklisted by any company, private or government.
- 5. The information submitted in our Bid is complete, strictly as per the requirements stipulated in the RFP and is correct to the best of our knowledge and understanding. We would be solely responsible for any errors or omissions in our Bid.
- 6. We confirm that all the prices, terms and conditions, etc. of our Bid are valid for acceptance for a period of ninety (90) days from the Bid Submission Deadline.
- 7. Details of the contact person representing our organization for the Bid process are as follows:

Name :
Designation :
Organization :
Address :
.....
.....
.....
Mobile :
Phone :
Fax :
Email :

All the necessary submissions are attached herein as per the formats and methods specified in this RFP as indicated in the attached Bid Submission Checklist.

Dated the [day of the month] day of [month, year] at
[place].

Thanking you,

Sincerely yours,

[signature] _____
[name] _____
[designation] _____

--- End of Section ---

Annexure 2: Format of Earnest Money Deposit

[To be on non-judicial stamp paper of Rupees One Hundred Only (INR 100/-) or appropriate value as per Stamp Act relevant to place of execution, duly signed on each page. Foreign entities submitting Bid are required to follow the applicable law in their country]

Reference No.

Bank Guarantee No.

Dated:

To:

The Director

Gujarat Energy Research and Management Institute

1st Floor Energy Building

Pandit Deendayal Petroleum University Campus

Gandhinagar, Gujarat 382 007

INDIA

Dear Sir,

WHEREAS *[Insert name of the Bidder]* with address *[Insert address of the Bidder]* having its registered office at *[Insert address of the Bidder]* (hereinafter, the "Bidder") wishes to participate in RFP No. GERMI/SRW/2015/CMPDI/012 dated 30 October, 2015 issued by Gujarat Energy Research and Management Institute ("GERMI") (hereinafter, the "Beneficiary") for Appointment of Contractor to Manufacture, Supply, Installation, Commissioning, Integration with existing Micro-grid solution and Comprehensive Maintenance for 5 years of the Auto-Changeover panel at CMPDI Campus, Ranchi.

And WHEREAS a Bank Guarantee for Rupees Fifteen thousand Only (INR 15,000/-) valid till 31 January, 2015 is required to be submitted by the Bidder along with the RFP.

We, *[Insert name of the Bank and address of the Branch giving the Bank Guarantee]* having our registered office at *[Insert address of the registered office of the Bank]* hereby give this Bank Guarantee No. *[Insert Bank Guarantee number]* dated *[Insert the date of the Bank Guarantee]*, and hereby agree unequivocally and unconditionally to pay immediately on demand in writing from the Beneficiary any officer authorized by it in this behalf any amount not exceeding Rupees Fifteen thousand Only (INR 15,000/-) to the said Beneficiary on behalf of the Bidder.

We *[Insert name of the Bank]* also agree that withdrawal of the Bid or part thereof by the Bidder within its validity or non-submission of Advance Payment Bank Guarantee by the Bidder within the stipulated time of the Letter of Award to the Bidder or any violation to the relevant terms stipulated in the RFP would constitute a default on the part of the Bidder and that this Bank Guarantee is liable to be invoked and encashed within its validity by the Beneficiary in case of any occurrence of a default on the part of the Bidder and that the encashed amount is liable to be forfeited by the Beneficiary.

Sign and Stamp

This agreement shall be valid and binding on this Bank up to and inclusive of *[Insert the date of validity of the Bank]* and shall not be terminable by notice or by Guarantor change in the constitution of the Bank or the firm of the Bidder or by any reason whatsoever and our liability hereunder shall not be impaired or discharged by any extension of time or variations or alternations made, given, conceded with or without our knowledge or consent by or between the Bidder and the Beneficiary.

NOTWITHSTANDING anything contained hereinbefore, our liability under this guarantee is restricted to Rupees Fifteen thousand Only (INR 15,000/-). Our Guarantee shall remain in force till 31 January 2015. Unless demands or claims under this Bank Guarantee are made to us in writing on or before 45 days from the date of expiry of this Bank Guarantee, all rights of the Beneficiary under this Bank Guarantee shall be forfeited and we shall be released and discharged from all liabilities there under.

[Insert the address of the Bank with complete postal branch code, telephone and fax numbers, and official round seal of the Bank]

[Insert signature of the Bank's Authorized Signatory]

Attested:

..... [Signature] (Notary Public)

Place:

Date:

INSTRUCTIONS FOR SUBMITTING BANK GUARANTEE

1. Bank Guarantee to be executed on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution. Foreign entities submitting Bids are required to follow the applicable law in their country.
2. The Bank Guarantee by Bidder shall be given from Nationalized Banks including Public Sector Banks and IDBI Bank Ltd.
3. Private Sector Banks authorized by RBI to undertake the state Government business are (i) Axis Bank (ii) ICICI Bank (iii) HDFC Bank.
4. The Banks shall be the recognized or notified by the Finance Department, Government of Gujarat from time to time.
5. The full address along with the Telex/Fax No. and e-mail address of the issuing bank to be mentioned.

--- End of Section ---

Annexure 3: List of Similar Projects

Sr. No.	Details of Client	Brief Description of the Overall Project	Scope of Work of Contractor	Work Order attached?	Completion Certificate attached?
1	[Name] [Contact Person] [Designation] [Phone, Email]			Yes / No	Yes / No
2	[Name] [Contact Person] [Designation] [Phone, Email]			Yes / No	Yes / No
3	[Name] [Contact Person] [Designation] [Phone, Email]			Yes / No	Yes / No

Notes:

1. Description of Project can be included in a separate attachment. Please note that the scope of work of the Contractor should be clearly highlighted to be considered as experience during evaluation of this RFP.
2. It is mandatory to attach Work Order if particular project experience is to be considered during evaluation of this RFP.
3. Attachment of Completion Certificate is optional, but desirable.
4. The Bidder may highlight at least three (3) projects with no limit on the maximum number of projects.

--- End of Section ---

Annexure 4: Format of Summary of Audited Financial Statements

[On the Official Letterhead of the Chartered Accountant.]

[Reference No.]

From:

[Address of the Bidder]

[Telephone No., Fax No., Email]

[Date]

To:

The Director

Gujarat Energy Research and Management Institute

1st Floor Energy Building

Pandit Deendayal Petroleum University Campus

Gandhinagar, Gujarat 382 007

INDIA

Sub: Audited Financial Statement for [Insert name of Bidder].

Ref: Your RFP No. GERMI/SRW/2015/CMPDI/012 dated 30 October 2015 ("the RFP")

Dear Sir,

This is to certify that [Insert name of Bidder] having its Registered Office at [Insert Registered Address of Bidder] with PAN No. [Insert PAN No.] are in the business of [Insert briefly the nature of the business], have recorded the following turnovers and profits:

F.Y.	Turnover (in Figures)	Turnover (in Words)
2012-13		
2013-14		
2014-15		

The above Turnovers and Net Profits are arrived from our Audit Reports for the years 2011-12, 2012-13 and 2013-14 duly submitted to the Income Tax Department along with our Audit Reports.

Hence we certify from the records submitted to us.

Thanking you,

Sincerely yours,

[Official seal of the Chartered Accountant]

Date: [Date]

Place: [Place]

.....
[Name of the Chartered Accountant]

[Address and contact information of CA]

--- End of Section ---

Sign and Stamp

Annexure 5: Format of advance payment bank Guarantee

Ref.: _____

Advance Payment Guarantee No: _____

Date: _____

To,

The Director

Gujarat Energy Research and Management Institute (GERMI)

1st Floor, Energy Building

Pandit Deendayal Petroleum University Campus, Raisan

Gandhinagar 382 007, Gujarat

INDIA

In consideration of **Gujarat Energy Research and Management Institute (GERMI)** having its registered office at 1st Floor, Energy Building, Pandit Deendayal Petroleum University Campus, Raisan, Gandhinagar 382 007, Gujarat, hereinafter called the "GERMI" (which expression shall include its successors in business and assigns thereof) having awarded the Contract to _____ a partnership firm/Sole Proprietor/a Company registered under the Companies Act,1956, having its office at _____ (complete address) _____, hereinafter called the "Contractor" (which expression shall include its successors in business and assigns thereof) vide the "Contract Agreement" dated _____ for the Scope of Work mentioned in clause 5.1 of the RFP Document and any alterations/ amendments made in the same before the date of submission of Bid for Manufacture, Supply, Installation, Commissioning, Integration with existing Micro-grid solution and Comprehensive Maintenance for 5 years of the Auto-Changeover panel at CMPDI Campus, Ranchi and having agreed to pay the Contractor as and by way of advance up to a sum of Rupees _____ being 20% of the ECP.

We, _____ Bank, hereinafter referred to as "the Bank", do at the request and on behalf of the Contractor hereby unconditionally and unequivocally agree to pay to GERMI without any demur on first demand an amount not exceeding Rs. _____ (in words) against any loss or damage, costs, to or suffered by GERMI by reason of any breach on the part of the Contractor of any of the terms and conditions of the Contract Agreement.

We, _____ Bank, further agree that GERMI shall be the sole judge whether the said Integrator has committed breach of any of the terms and conditions of the Contract Agreement and the extent of loss, damage, cost, charges and expenses suffered or incurred or would be suffered or incurred by GERMI on account thereof and we waive in favour of GERMI all the rights and defences to which we as Guarantors and/or the Integrator may be entitled to.

We, _____ Bank, further agree that the amount demanded by GERMI as such shall be final and binding on the Bank as to the Bank's liability to pay the amount demanded and the Bank undertake to pay GERMI the amount so demanded on first demand without any demur notwithstanding any dispute raised by the Contractor or any suit or other legal proceedings including arbitration pending before any court, tribunal or arbitrator relating thereto, our liability under this Guarantee being absolute and unconditional.

We, _____ Bank, further agree that the Guarantee herein contained shall remain in full force and continue to have full effect so long as the said amount remains unadjusted.

Sign and Stamp

We, _____ Bank, further agree with GERMI shall have the fullest liberty without any consent and without affecting in any manner our obligations hereunder to vary any of the terms and condition of the said Contract Agreement or to extended time of performance by the Contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by GERMI against the Contractor and to forbear to enforce any of the terms and conditions relating to the Contract Agreement and we shall not be relieved from our liability by reason of any such variation or extension being granted to GERMI or for any forbearance, act or omission of the Contractor or any such matter of things, whatsoever which under the law relating to sureties would, but for these provisions, have the effect of relieving us.

We, _____ Bank, hereby lastly undertake not to revoke this guarantee during its currency except with the previous consent of GERMI in writing.

Notwithstanding anything contained herein above:

- i. Our liability under this guarantee shall not exceed Rs. _____ (20% of the ECP),
- ii. This Bank Guarantee shall be valid up to and including ____ (date)____ (Three months from the date of acceptance of LoA/signing of Contractor Agreement),
- iii. We the _____ Bank through our local branch office at _____ (Name & Address of the Local Branch) are liable to pay the Guarantee amount or any part thereof under this Bank Guarantee only and only, if you serve upon us a written claim or demand within forty five (45) days from the date of expiry of this Guarantee.

This guarantee shall not be determined or affected by the liquidation or winding up, dissolution or change of constitution or insolvency of "the Contractor" and the Bank, but shall in all respects and/or for all purposes be binding and operative on "the Bank" until payment of all moneys payable by "the Contractor" in terms thereof.

IN WITNESS whereof, the Bank _____, through its authorized Officer, has set its hand and stamp on this _____ day of _____ at _____.

For, _____ Bank,

Signature: _____
Name: _____
Designation: _____
Address: _____

Banker's Stamp and Full address.

Dated this _____ day of _____, 2015

---End of Section---

Sign and Stamp

Annexure 6: Format of Financial Bid

[Covering Letter shall be on the official letterhead of the Bidder]

[Reference No.]

From:

[Address of the Bidder]

[Telephone No., Fax No., Email]

[Date]

To:

The Director

Gujarat Energy Research and Management Institute

1st Floor Energy Building

Pandit Deendayal Petroleum University Campus

Gandhinagar, Gujarat 382 007

INDIA

Sub: Financial Bid for selection of contractor to Manufacture, Supply, Installation, Commissioning, Integration with existing Micro-grid solution and Comprehensive Maintenance for 5 years of the Auto-Changeover panel at CMPDI Campus, Ranchi

Ref: Your RFP No. GERMI/SRW/2015/CMPDI/012 30 October, 2015 (the "RFP").

Dear Sir,

I, *[Name of Authorized Representative]*, the authorized representative of..... *[Name of Company]*, having read, examined and understood in detail the RFP for selection of Contractor to Supply, Installation & Commissioning of the Auto-Changeover panel and Integration the same with existing Micro-grid solution CMPDI Campus, Ranchi hereby submit our Financial Bid as follows:

Sign and Stamp

Table A: Price Quote for EPC Contract Price (ECP) in INR

Sr. No.	Item	Equipment rate (without taxes & duties)	Freight and transportation	Duties (if applicable)	Services Tax (if applicable)	CST (if applicable)	VAT (if applicable)	FOR EVALUATION Final rate excluding (CST/VAT)	TOTAL
		(A)	(B)	(C)	(D)	(E)	(F)	(G) = (A)+(B)+(C)+(D)	(H)= (A+B+C+D+E+F)
		(In Rs.)	(In Rs.)	(In Rs.)	(In Rs.)	(In Rs.)	(In Rs.)	(In Rs.)	(In Rs.)
(A) Hardware Components									
1	Auto-changeover panel								
TOTAL Hardware Components Cost (A) in figures									
Total Hardware Cost (A) in words:									
(B) Services									
1	General work including erection, commissioning, testing etc. of the Autochangeover panel.								
TOTAL Service Cost (B) in figures									
Total service cost (B) in words:									
EPC Contract Price (ECP) in figures (Total Hardware Components Cost (A) + Total Services Cost (B))									
ECP in Words:									

Table B: Price Quote for Comprehensive Maintenance Contract (CMC) in INR:

Sr. No.	Item	Amount (a)	VAT/CST (b)	Service Tax (C)	FOR EVALUATION Total excluding CST/VAT (d)=(a)+(c)	Total CMC (e)= (a)+(b)+(c)
1	O&M of the Autochangeover Panel for SECOND YEAR (CMC -2)					
2	O&M of the Autochangeover Panel for THIRD YEAR (CMC -3)					
3	O&M of the Autochangeover Panel for FOURTH YEAR (CMC -4)					
4	O&M of the Autochangeover Panel for FIFTH YEAR (CMC -5)					
Total CMC (CMC-1+CMC-2 + CMC-3 + CMC-4 + CMC-5)						

Table C: Bid Value

Particulars	Value (in INR)
ECP	
Total CMC	
Bid Value (ECP + Total CMC)	

Note:

1. No variation due to change in forex rate shall be admissible.
2. Payment shall be made in Indian National Rupees (INR) only. Bidder(s) has to quote their rate in INR only.

Sign and Stamp

Dated the [day of the month] day of [month, year] at [place].

Thanking you,

Sincerely yours,

Signature: _____

Designation: _____

Name: _____

Phone: _____

Seal of Company/ Organization:

Email: _____

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Annexure 7: Technical Specifications of Autochangeover panel

The Auto-changeover panel is required as per the specifications below

1. Location: Ranchi, Jharkhand
2. Three Main Incoming points from Mains power supply
3. Three incoming points from 3 Nos. of DGs (DG #1 – 250 KVA, DG#2 – 500 KVA and DG#3 – 250 KVA)
4. Programmable Logic Controller (PLC) with below logic
 - a. To synchronize the DGs, by actuating Auto Mains Failure (AMF) panel (available on site).
 - b. To ON the DGs as per priority, and
 - c. As per the load immediately available before outage,
 - d. E.g. power consumption, immediate before the outage was 650 KVA – now upon the outage DG#1 and DG#2 are to be triggered to be ON. Similarly, if power consumption, immediate before the outage was 400 KVA – now upon the outage DG#2 is to be triggered to be ON. And if power consumption, immediate before the outage was 200 KVA – upon outage the DG#1 is to be triggered to be ON.
5. On the same bus a provision is to be given to connect an online UPS of 250 KVA. This UPS is also to be synced by the PLC.
6. Also whenever DG-2 comes in picture or power supply from the Transformer (TR) - 1 is OFF, the Bus Coupler is to be synced and made it closed. This would enable the network to remain powered by either 500 KVA DG or TR-2 supplied bus.

Bill of Quantities to be bound to quoting Financial Bid

Sr.	Description	Qty	Unit	Remark	Make & Model
	INCOMER FEEDER -DG SETS (500 X 1 , 250 X 2 & MAINS FEEDER X 3)				
A	I/C FEEDER MAINS & DG				
1	600A, ACB, Microprocessor Release With O/L. S/C, EF, UVT, Shunt, Closing Coil, EDO Type, 4 Pole. (for TR-1 supply and DG-1 and DG-3), 5NO + 5NC Aux. Contact, 50KA	4	No.	(1), (2), (3) and (4)	
2	800A, ACB, Microprocessor Release With O/L. S/C, EF, UVT, Shunt, Closing Coil, EDO Type, 4 Pole. (for TR-2 supply and DG-2), 5NO + 5NC Aux. Contact, 50KA	2	No.	(5) and (6)	
3	400 Amp, 3-phase, 4 pole MCCB	1	No.	(8)	
B	800A, BUSCOUPLER	2			
1	800a ACB, 4pole ACB Type Bus-coupler Without Protection, Open Execution, EDO Type	1	No.	(7)	
C	GENERAL CONTROL PART FOR DG	3			
1	Static Battery Charger 240VAC/24VDC, 20A – to be charged from Mains	3	No.		
2	DG Synch Controller: Logic Building Unit (PLC) Type Auto Synchronizing, Load Sharing Relay Including Protection For Over Current In 3 Levels, With 3 Phase	3	No.		

Sign and Stamp

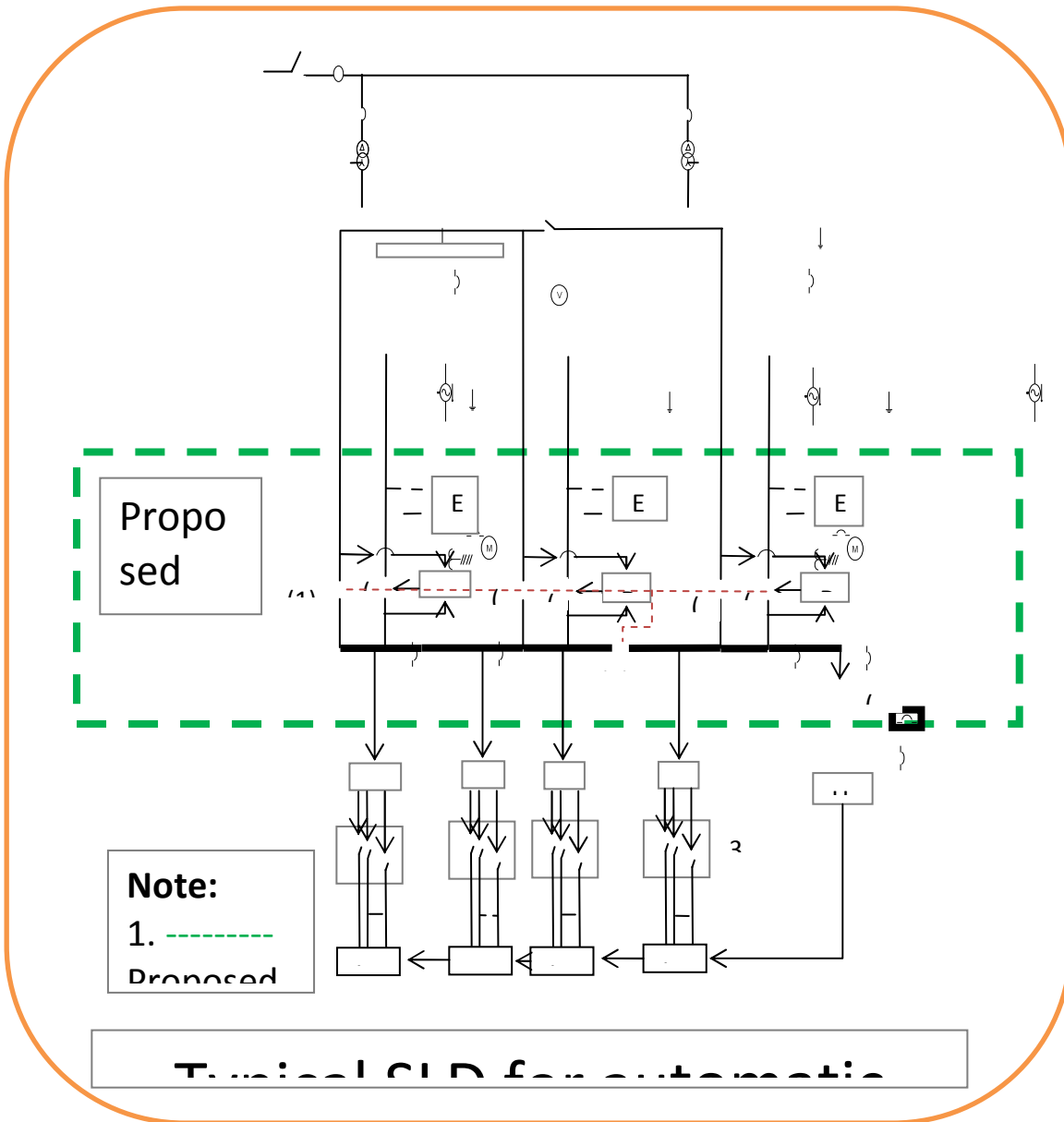
Sr.	Description	Qty	Unit	Remark	Make & Model
	Over Voltage & Under-voltage Protection, Frequency Monitoring With Under/Over Frequency Tripping.				
3	C.T 600A/5A, 500/5A, Class 1 ,15VA For Synch Relay	4	No.		
4	C.T 800A/5A, 500/5A, Class 1 ,15VA For Synch Relay	2	No.		
4	Led Type Indication Lamp (ON,OFF,R,Y,B , N-ON,N-OFF)	21	No.		
5	Control MCB 2A-32A , 10KA Sp For DG, Mains , Bus Feeder	30	No.		
6	Neutral Link	6	No.		
7	Control Switch 2 Pole 1 Way (Control Supply)	3	No.		
8	Control Switch 1 Pole 2 Way 6A (Auto/Manual/Off)	3	No.		
9	Control Switch 1 Pole 2 Way 6A (Auto/Manual/Off)	2	No.		
10	Aux. Contactors 9A (Qty Approx) With Sufficient Add On Blocks	22	No.		
11	Electronic Hooter	3	No.		
12	Control Wire 1.5 Sqmm , C.T Wire 2.5 Sqmm	3	Lot		
13	Emergency Push Button With Element	3	No.		
14	TNC - Breaker Control Switch	4	No.		
15	Push Button With Element (Start/Stop/Reset)	9	No.		
16	4 Sqmm Connector , C.T Short Link	3	Lot		
D	ALUMINIUM BUSBAR				
	3 Pole + Half Neutral Type Aluminium Busbar, I/C & O/G Of Switchgears As Per Rating. Earth Buss : As Req.	1	Lot		
E	PANEL FABRICATION DETAILS				
1	CRCA Enclosure:				
1a	Powder Coated CRCA Enclosure 14 SWG Main Frame And Support Frames, 14 SWG Doors, 16 SWG Side Walls, Partition Walls. , Base Frame: 75 X 40 Mm ISMC.	1	Set		
2	Gland Plate @ Top & Bottom: 3mm	1	Set		
3	Colour : Siemens Grey Ral 7032	1	Lot		
4	Zinc Coated Nut Bolts Of Suitable Size.	1	Lot		
5	PVC Channels	As required	Lot		
6	Aluminium Labels	As required	Lot		
7	Gasketing	As required	Lot		
8	Lugs & Ferruling	As required	Lot		

Sr.	Description	Qty	Unit	Remark	Make & Model
9	Cable Entry : Bottom , Exit: Bottom				
10	Mounting: Surface				
11	Enclosure -Indoor Type-IP42				

Sr. No.	List of Acronyms	
1.	I/C	Incomer
2.	O/L	Over Load
3.	O/G	Outgoing
4.	S/C	Short circuit
5.	EF	Earth Fault
6.	UVT	Under Voltage Trip
7.	EDO Type	Electrically Draw out
8.	NCT	Neutral Current Transformer
9.	NO	Normally Open (relay/switch)
10.	NC	Normally closed (relay /switch)
11.	ACB	Air Circuit Breaker
12.	CT	Current Transformer
13.	IP	Ingression Protection
14.	CRCA	Cold Rolled Close Annealed
15.	SWG	Standard Wire Gauge

(P.T.O.)

The Single Line Diagram of the Auto-changeover panel



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