Tender Enquiry Document

for

Purchase of Micro grid for Gopali Ashram

For & On Behalf of
SRIC IIT KHARAGPUR

On E-Tender Basis

Tender No. IIT/SRIC/EE/UIR/WP2.2/CC/20-21/EQ-6

Sponsored Research and Industrial Consultancy (SRIC)
Indian Institute of Technology Kharagpur
Kharagpur - 721302
Email: cc@ee.iitkgp.ac.in
# Table of Contents

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Section</th>
<th>Title</th>
<th>Page No</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Section I</td>
<td>Notice Inviting Tender &amp; List of Equipment</td>
<td>03</td>
</tr>
<tr>
<td>02</td>
<td>Section IA</td>
<td>Time schedule of Tender</td>
<td>04</td>
</tr>
<tr>
<td>03</td>
<td>Section II</td>
<td>Instructions to Bidders and General terms and Conditions</td>
<td>05</td>
</tr>
<tr>
<td>04</td>
<td>Section III</td>
<td>General (Commercial) Conditions of Contract</td>
<td>13</td>
</tr>
<tr>
<td>05</td>
<td>Section IV</td>
<td>Special Conditions of the Contract</td>
<td>16</td>
</tr>
<tr>
<td>06</td>
<td>Section V</td>
<td>Schedule of Requirements</td>
<td>17</td>
</tr>
<tr>
<td>07</td>
<td>Section VI</td>
<td>Proforma for Technical Bid</td>
<td>20</td>
</tr>
<tr>
<td>08</td>
<td>Section VII</td>
<td>Price Bid Form</td>
<td>21</td>
</tr>
<tr>
<td>09</td>
<td>Section VIII</td>
<td>Proforma for Financial Bid</td>
<td>22</td>
</tr>
<tr>
<td>10</td>
<td>Section IX</td>
<td>Performance Security Guarantee Bond</td>
<td>24</td>
</tr>
<tr>
<td>11</td>
<td>Section X</td>
<td>Bid Security Self Declaration Form</td>
<td>26</td>
</tr>
<tr>
<td>12</td>
<td>Section XI</td>
<td>Undertaking</td>
<td>27</td>
</tr>
<tr>
<td>13</td>
<td>Section XII</td>
<td>Checklist for the Tenderer</td>
<td>28</td>
</tr>
</tbody>
</table>
Indian Institute of Technology Kharagpur
Sponsored Research and Industrial Consultancy

SECTION – I

No. IIT/SRIC/EE/UIR/WP2.2/CC/20-21/EQ-6                                          Date: 07/01/2021

Invitation for Bids / Notice Inviting Tender

(E-Procurement Mode)

Indian Institute of Technology Kharagpur is set up by the Act of parliament called The Institutes of Technology Act 1961 and it is declared as Institutions of National Importance and Institutions of Eminence. Sponsored Research and Industrial Consultancy (SRIC) is a Research and Industrial Consultancy unit of Indian Institute of Technology Kharagpur. On behalf of Sponsored Research and Industrial Consultancy, INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR (IIT KGP) e-tender are invited from all domestic manufacturer having registered office in India, who fulfil the criteria mentioned in the tender documents for Supply of Micro grid for Gopali Ashram. The list of equipment and their specifications are given in Section V.

Complete Tender Documents can be downloaded from the website “https://eprocure.gov.in/eprocure/app” from 07 January, 2021 to 01 February, 2021 up to 12:00 HRS. IIT KGP -SRIC shall open the Technical Bids Electronically on the specified date and time at IIT KHARAGPUR (SRIC).

Interested eligible all domestic manufacturer having registered office in India may submit their bids online at https://eprocure.gov.in/eprocure/app in Two-Bids system (i.e. Technical Bid and Price Bid) in prescribed proforma. All the documents in support of eligibility criteria etc. are also to be scanned and uploaded along with the Tender Documents. Tenders sent by any other mode will not be accepted. No tender documents will be accepted after the expiry of stipulated date and time for the purpose under any circumstances what so ever.

The Competent Authority at IITKGP-SRIC reserves right to cancel the tender at any time or amend/withdraw any of the terms and conditions contained in the Tender Document, without assigning any reason, thereof.

IITKGP-SRIC reserves the right to accept either in full or in part any tender and to reject any or all offers without assigning any reason thereof.

Dated: 07/01/2021                                           Dean (SRIC)
Indian Institute of Technology Kharagpur
Sponsored Research and Industrial Consultancy

SECTION - IA

Critical Information

Submission of a proposal in response to this notice shall be deemed to have been done after careful study and examination of this document with full understanding of its terms, conditions and implications.

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Information</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>01.</td>
<td>Tender Number and Date</td>
<td>IIT/SRIC/EE/UIR/WP2.2/CC/20-21/EQ-6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Date: 07/01/2021</td>
</tr>
<tr>
<td>02.</td>
<td>Last date for submission of written queries for</td>
<td>25.01.2021</td>
</tr>
<tr>
<td></td>
<td>clarifications to the email id:</td>
<td><a href="mailto:cc@ee.iitkgp.ac.in">cc@ee.iitkgp.ac.in</a></td>
</tr>
<tr>
<td>03.</td>
<td>Date of Release of response to clarifications on</td>
<td>07.01.2021</td>
</tr>
<tr>
<td></td>
<td><a href="http://www.iitkgp.ac.in">www.iitkgp.ac.in</a></td>
<td></td>
</tr>
<tr>
<td>04.</td>
<td>Last date for submission of Tender (Online only)</td>
<td>01.02.2021 (12:00 HRS)</td>
</tr>
<tr>
<td>05.</td>
<td>Contact details</td>
<td>DR. CHANDAN CHAKRABORTY</td>
</tr>
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<td>DEPARTMENT OF ELECTRICAL ENGINEERING</td>
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<td>INDIAN INSTITUTE OF TECHNOLOGY</td>
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<td></td>
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<td>WEST BENGAL, INDIA - 721302</td>
</tr>
<tr>
<td>06.</td>
<td>The date and time for opening of Technical Bid</td>
<td>02.02.2021 (12:00 HRS)</td>
</tr>
</tbody>
</table>
A. INTRODUCTION

DEFINITIONS

“The Purchaser” means the DEAN (SRIC), (IIT KGP-SRIC) INDIAN INSTITUTE OF TECHNOLOGY KHRAGPUR, KHRAGPUR, SRIC

“The Bidder” means the individual or firm who participates in the tender and submits bid

“The Agency” means the individual or firm rendering the services under the contract.

“The Services” means all activities related to conduct & performance of contractual obligations under the contract.

“The Advance Purchase Order/ Letter of intent” means the intention of IIT KGP – SRIC to place the Purchase Order on the bidder.

“The Purchase Order” means the order placed by IIT KGP-SRIC on the Supplier/ Agency signed by IIT KGP-SRIC including all attachments and appendices thereto and all documents incorporated by reference therein. The purchase order shall be deemed as “Contract” appearing in the document.

“The Contract Price” means the price payable to the Supplier/ Agency under the purchase order for the full and satisfactory performance of its contractual obligations.

“Acceptance “is a process of accepting satisfactory services rendered by “Supplier/ Agency” by IIT KGP- SRIC.

1. ELIGIBILITY CRITERIA

The invitation of bids is open to all domestic manufacturer having registered office in India who fulfil the criteria as specified below:

(I) The Bidder shall be registered legal entity under relevant act. and a copy of each of registrations shall be attached with the bids.

(II) Minimum Five (5) years’ experience in the field of supply of laboratory equipment.

(III) Average Annual Turnover of at least \textbf{15,00,000 INR} during last 3 financial years i.e. 2017-18, 2018-19 and 2019-20 is required. (Copy of Audited Annual Accounts of the organization for the financial year 2017-18, 2018-19 and 2019-20 shall be uploaded with the bid as proof in this regard).

(IV) Copy of acknowledgement of filing of Income Tax Return for the financial year 2016-17, 2017-18 and 2018-19 shall be uploaded with the bid.

(V) Must have supplied similar equipment to laboratories of State or Central Government Institutions or reputed Educational or Research Institution and proof of such supplies should be produced.
(VI) It should have PAN, TIN number and GST Registrations (proof in this regard shall be upload with the bid)

(VII) It should not have been blacklisted by the Government Organizations, GOI, Autonomous bodies. Undertaking in Section XI in this regards has to be uploaded.

(VIII) Registration Certificate/Certificate of incorporation, if any, including the certificate of MSME/NSIC/Other EMD Exemption Document etc.

(IX) Authorized dealer Certificate from Manufacturer if the agency is a dealer.

(X) Bidders should not be associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Purchaser to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods to be purchased under this Invitation of Bids.

2. COST OF BIDDING

The bidder shall bear all costs associated with the preparation and submission of the bid. The Purchaser will, in no case, be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

3. BID DOCUMENTS

3.1 The services required to be rendered, bidding procedures and contract terms and conditions are prescribed in the Bid Documents. The Bid documents include:
   a) Notice Inviting Tender & List of Equipment - Section - I
   b) Time Schedule of Tender - Section IA
   c) Instructions to Bidders and General terms and Conditions - Section II
   d) General (Commercial) Conditions of Contract - Section III
   e) Special Conditions of the Contract - Section IV
   f) Schedule of Requirements - Section V
   g) Proforma for Technical Bid - Section VI
   h) Price Bid Form - Section VII
   i) Proforma for Financial Bid - Section VIII
   j) Performance Security Guarantee Bond - Section IX
   k) Bid Security Self Declaration Form - Section X
   l) Undertaking - Section XI
   m) Checklist for the Tenderer - Section XII

3.2 The Bidder is expected to examine all instructions, forms, terms and specifications in the Bid Documents. Failure to furnish all information required as per the Bid Documents or submission of the bids not substantially responsive to the Bid Documents in every respect will be at the bidder’s risk and shall result in rejection of the bid.
B. PREPARATION OF BIDS

Bidder should take into account any corrigendum published on the tender document before submitting their bids.

4. DOCUMENTS COMPRISING THE BID

The bid prepared by the bidder shall comprise the following components (these will also be used for determining the eligibility criteria)

4.1 Documentary evidence established in accordance with the eligibility criteria explained above that the bidder is eligible to bid and is qualified to perform the contract if the bid is accepted.

4.2 Bid Security Self Declaration Form at a prescribed format shall be furnished.

4.3 A bid form and price schedule completed in accordance with the guideline.

4.4 Bidder shall furnish a clause-by-clause compliance to the requirements and commercial conditions demonstrating responsiveness to terms and conditions. In case of deviations, a statement of deviations and exceptions of provisions of the contract and commercial conditions shall be given by the bidder. **A bid without clause-by-clause compliance of terms and conditions shall not be considered.**

4.5 The Copy of Audited Annual Accounts of the organization for the financial year 2017-18, 2018-19 and 2019-20 in support of an average annual turnover of at least **15,00,000 INR** during last 3 years i.e. 2017-18, 2018-19, 2019-20 shall be uploaded.

4.6 Registration Certificate of the company as per eligibility criteria.

4.7 Income Tax Return for three financial years i.e. 2016-17, 2017-18 and 2018-19.

4.8 GST Registration Certificate.

4.9 Copy of PAN of the Company/ firm.

4.10 Lists of clients with reference in minimum five firms with name, designation and contact details.

4.11 Self-certification of full-fledged office infrastructure.

4.12 Brief on supply of laboratory equipment handled during last five years.

4.13 List of offices/branches in India/West Bengal with address and contact details.

4.14 Email id and phone number of the contact person of the firm.
5 BID FORM

The bidder shall submit the bid form in their own Stationery and by using only prescribed format. Use of any other format, the bid may be liable for rejection.

6 BID PRICES

6.1 The bidder shall give FOR destination price, inclusive of all Levies & Taxes for laboratory equipment for IIT KGP-SRIC. The basic unit price and all other components of the price need to be individually indicated against the services it proposed to supply under the contract as per price schedule given in Section VIII.

6.2 Prices indicated in the Price Schedule shall be entered in the following manner:

   i. The Basic Unit Price Excise duty, GST, Freight, Forwarding, Packing, Insurance, Commission to Indian Agents and any other Levies/Charges already paid or payable by the Agency shall be quoted separately item wise.

   ii. The supplier shall quote as per price schedule given in Section VIII for all the items given in schedule of requirement.

6.3 A bid submitted with an adjustable price quotation will be treated as non-responsive and rejected.

6.4 The price quoted by the bidder shall remain fixed during the entire period of contract and shall not be subject to variation on any account.

6.5 “DISCOUNT, if any, offered by the bidders shall not be considered unless they are specifically indicated in the price schedule. Bidders desiring to offer discount shall therefore modify their offers suitably while quoting and shall quote clearly net price taking all such factors like Discount, free service, etc, into account”.

6.6 The price accepted by the IIT KGP-SRIC for the supply of equipment will be inclusive of Levies and Taxes.

7 Guarantee/Warranty:

   Comprehensive onsite warranty is required as per the technical specifications mentioned in Section-V, Page No. 18. Warranty period will start from the date of installation of items. In case at installation stores / part of stores are found defective / damaged during or after delivery to consignee, the supplier will replace or repair the store under warranty at consignee’s location in India free of cost or if any case it is required to send back to foreign manufacturer / supplier should bear the cost. Bank Guarantee equivalent to the cost of equipment is required to be submitted before lifting the store. All expenses in this regard will be borne by the supplier.

8 BID SECURITY

8.1 The Bidder should submit the Bid Security Declaration as per Format specified in Section X and it should be notarized along with the tender.

8.2 After accepting Bid Security declaration, if bidder withdraw or modify their bids during the period of validity, they will not be allowed to participate to any tender of IIT Kharagpur for a period of 1 (one) year from the date of notification issued by IIT Kharagpur.

Signature of the Tenderer
Date with Seal
9 PERIOD OF VALIDITY OF BIDS

9.1 Bid shall remain valid for 90 days after the date of opening of bids prescribed by IIT KGP-SRIC. A bid valid for a shorter period shall be rejected by IIT KGP-SRIC as non-responsive.

9.2 In exceptional circumstances, IIT KGP-SRIC may request the consent of the bidder for an extension to the period of bid validity. The request and the response thereto shall be made in writing. The Bid Security Self Declaration as per Clause 8 shall also be suitably extended. A bidder accepting the request and granting extension will not be permitted to modify his bid.

C. SUBMISSION OF BIDS

10 Information for Bidder on e-Procurement

10.1 Tender Documents may be downloaded from Central Public Procurement Portal http://eprocure.gov.in/eprocure/app. Aspiring Bidders who have not enrolled/registered in e-procurement should enroll/register before participating through the website http://eprocure.gov.in/eprocure/app. The portal enrolment is free of cost. Bidders are advised to go through instructions provided at ‘Instructions for online Bid Submission’.

10.2 Help for Service Providers, FAQ, Information about DSC and Bidders Manual Kit containing the detailed guidelines for e-Procurement system are also available on Central Public Procurement Portal.[https://eprocure.gov.in/eprocure/app]

10.3 It is mandatory for all the bidders to have a valid Class-II/Class-III Digital Signature Certificate (in the name of person having power of attorney to sign the Bid) from any of the licensed Certifying Agency (Bidders can see the list of licensed CA’s from the link www.cca.gov.in) to participate in e-Procurement of IIT KHARAGPUR.

10.4 It is mandatory for the bidders to get their firm/company registered with e-procurement portal https://eprocure.gov.in/eprocure/app to have user ID & password.

10.5 Bidder should log into the site well in advance for bid submission so that he/she upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.


10.7 The tender documents shall be submitted online in the prescribed format given on the websites and technical bids received online shall be opened as per NIT or Corrigendum thereof. No other mode of submission is acceptable. Detailed credentials as per the requirement of eligibility criteria and all tender papers except Bill of Quantities are to be submitted in “Technical Bid”.

Signature of the Tenderer
Date with Seal
10.8 Bill of Quantities with rates duly filled in are to be submitted in the format provided online in the name of “Financial Bid”.

10.9 Bidders cannot submit the tender after the due date and time of e-bid submission. Time being displayed on Central Public Procurement Portal https://eprocure.gov.in/eprocure/app (“Server System Clock Time”) shall be final and binding on the bidder. e-Bids are required to be submitted by bidders, only as per the Indian Standard Time (IST) and not the time as per their location/country.

10.10 The bidders are advised to submit their e-bids well before the e-bid due date. IIT KHARAGPUR shall not be responsible for any delay in submission of e-bids for any reason including server and technical problems.

10.11 The Technical and Financial Bid shall be digitally signed by the Authorized Signatory of the bidder & submitted “on-line” only. The authorized signatory of the bidder must be in possession of Power of Attorney before submitting the digitally signed bid. Scanned copies of various documents can be prepared in .pdf file format.

10.12 A standard BoQ format has been provided with the tender document to be filled by all the bidders. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. Bidders are required to download the BoQ file, open it and complete the blue colored (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.

10.13 The server time (which is displayed on the bidders’ dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.

10.14 All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done.

10.15 The uploaded tender documents become readable only after the tender opening by the authorized bid openers.

10.16 Upon the successful and timely submission of bids, the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.

10.17 Kindly add scanned PDF of all relevant documents in a single PDF file of compliance sheet.
GENERAL TERMS AND CONDITIONS:

1. BID OPENING AND EVALUATION

1.1 OPENING OF BIDS BY SRIC, IIT KGP

1.1.1 IIT KGP-SRIC shall open the Technical Bids Electronically on 02/02/2021 at 12:00 HRS IIT Kharagpur (SRIC).

1.1.2 The date fixed for opening of bids if subsequently declared as holiday by SRIC, IIT KGP the revised date of schedule will be notified. However, in absence of such notification, the bids will be opened on next working day, time and venue remaining unaltered.

1.1.3 The financial bid will be opened only for bidders declared eligible and selected after techno-commercial evaluation. The financial bid will be opened on a date fixed after evaluation of techno-commercial bids and will be intimated to all eligible bidders in advance.

2. CLARIFICATION OF BIDS

In case any bidder requires any clarification, bidder can feel free to raise their query on or before the date given in SECTION-1A of the tender document. Release of response to clarifications on queries shall be available in the Institute’s website www.iitkgp.ac.in. in by the respective principal investigator.

All interested bidders shall follow the institute’s website and CPP Portal at regular intervals for clarifications / corrigendum if any.

3. SELECTION PROCEDURE

3.1 Agencies found to fulfil eligibility conditions will be considered after verifications of eligibility criteria mentioned in Section II.

3.2 The bidders shall be evaluated as per criteria mention in the tender documents.

3.3 Financial bids of the selected agencies only shall be opened.

4. Evaluation of Bids

4.1 The technical bids will be evaluated in two steps

The bids will be examined based on eligibility criteria stipulated at Section-II-1 to shortlist the eligible bidders.

The technical bids of only the short listed eligible bidders shall be evaluated based on technical specifications stipulated.

The bidders whose technical bid is found to meet both the requirements as specified above will qualify for opening of the financial bid and will be informed about the date and time of the opening of the financial bid.

The duly constituted Tender Evaluation Committee (TEC) shall evaluate the bids. The TEC shall be empowered to take appropriate decisions on minor deviations, if any.

The bidder’s name, bid prices, discounts and such other details considered as appropriate will be announced at the time of opening of the financial bids.
4.2 Comparison of Bids

Only the short-listed bids from the bid evaluation shall be considered for commercial comparison.

The Financial bids will be evaluated on the basis of prices quoted. Taxes will not be considered at the time of evaluation of the Financial Bid.

The contract will be awarded to lowest evaluated bidder.

4.3 Bidder selected will be offered contract as per clause 8, Section-II of the Tender Document.

4.4 SRIC-IIT KGP reserves the right to offer the contract to a qualified bidder.

4.5 SRIC-IIT KGP’s decision in regard to evaluation & selection shall be FINAL and binding on the Agency and same shall not be challenged by the agency before the Court.

5. CONTACTING SRIC, IIT KGP

5.1 No bidder shall try to influence SRIC, IIT KGP on any matter relating to the bid.

5.2 Any effort by a bidder to influence SRIC, IIT KGP in SRIC, IIT KGP’s bid evaluation, bid comparison or contract award decision shall result in the rejection of the bid.

6. AWARD of Contract

6.1 IIT KGP- SRIC shall evaluate as the most suitable by those eligible bidders whose offers have been found technically, commercially and financially acceptable and evaluated as the most suitable by SRIC, IIT KGP.

6.2 Award of work shall be considered on the basis of requirement as assessed by SRIC, IIT KGP.

6.3 A purchase order will be issued by SRIC, IIT KGP to the successful bidder.

6.4 The Agency should supply the equipment as early as possible after the award of purchase order.

6.5 Upon the successful bidder furnishing of performance security pursuant to clause 2 Section III, IIT KGP-SRIC shall discharge the bid security in pursuant clause to 8, Sec II.

6.6 The selection of the agency will be at the sole discretion of the SRIC, IIT Kharagpur.

7. SRIC, IIT KGP’s RIGHT TO ACCEPT ANY BID AND TO REJECT ANY OR ALL BIDS

IIT KGP –SRIC reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids, at any time prior to award of contract without assigning any reason whatsoever and without thereby incurring any liability to the affected bidder or bidders on the grounds of SRIC, IIT KGP’s action.

8. JURISDICTION

This tender and or the contract or work order issued under this tender shall be governed by Laws of India and shall be exclusive jurisdiction of courts at Medinipur, West Bengal.
GENERAL (COMMERCIAL) CONDITIONS OF CONTRACT

1. APPLICATION

The general condition shall apply in contracts made by IIT KGP-SRIC for the procurement of goods/services.

2. PERFORMANCE SECURITY

2.1 The successful bidder shall be required to deposit 3% of the total value of the order as performance security, within 14 days of issue of Purchase Order/letter of intent in the form of D.D*/Pay Order*/Fixed Deposit Receipt*/ Bank Guarantee (performance security bond prescribed in Section VIII) from commercial bank drawn in favour of “IIT Kharagpur, payable at Kharagpur” and the bank guarantee shall remain valid for 60 days beyond the date of completion of all contractual obligation of supplier including warranty obligation for the equipment/goods.

2.2 The amount of performance security so withheld will be discharged after the warranty period is over.

2.3 If the contractor fails or neglects any of the bid obligations under the contract it shall be lawful for IITKGP-SRIC to forfeit either whole or any part of performance security furnished by the bidder as penalty for such failure.

2.4 The proceedings of performance security shall be payable to IITKGP-SRIC as compensation for any loss resulting from Supplier/Agency’s failure to complete its obligation under the contract.

2.5 The performance security bond shall be extended suitably in the event of extension of period of contract or till all obligations under the contract has been satisfied.

*Performance Security will not be carrying any interest.

3. PAYMENT TERMS

100% Payment on bill basis after supply, satisfactory installation, commissioning and performance of the equipment at Kharagpur and after satisfactory certification by respective principal investigator (P.I.).

4. PRICES

4.1 The rates quoted for the equipment shall be for free delivery and installation at IITKGP-SRIC (designated Laboratories/Department/Centre/Schools)

4.2 Prices charged by the supplier for goods delivered and services performed under the contract shall not be higher than the price quoted by the supplier in his bid.

4.3 Prices will be fixed at the time of issue of purchase order as per taxes and statutory duties applicable at that time.
4.4 In case of reduction of taxes and other statutory duties during the scheduled delivery period, purchaser shall take the benefit of decrease in these taxes/duties for the supplies made from the date of enactment of revised duties/taxes.

4.5 In case of increase in duties/taxes during the scheduled delivery period, the purchaser shall revise the prices as per new duties/taxes for the supplies, to be made during the remaining delivery period as per terms and conditions of the purchase order.

4.6 Any increase in taxes and others statutory duties/levies after the expiry of scheduled delivery date or award of contract/work order shall be to the supplier account. However, benefit of any decrease in these taxes/duties shall be passed on to the purchaser by the supplier.

5. **CHANGES IN PURCHASE ORDERS**

5.1 SRIC, IIT KGP may, at any time, by a written order given to a Supplier/ Agency, make changes within the general scope of the contract related to terms & references, enlarging the scope, analysis or specifications.

5.2 If any such change causes an increase or decrease in the cost of, or the time required for the execution of the contract an equitable adjustment shall be made in the contract price or delivery schedule, or both, and the contract shall accordingly be amended. Any proposal by the Supplier/Agency for adjustment under this clause must be made within thirty days from the date of the receipt of the change in order.

6. **Liquidated Damage Clause**

The Liquidated Damages shall be levied, for delay in supply beyond the contractual delivery date at the rate 0.5% per week subject to maximum of 5% of contract value of the stores the delivery of which is delayed, for each month or part of a month.

7. **FORCE MAJEURE**

7.1 If, at any time, during the continuance of this contract, the performance in whole or in part by either party of any obligation under this contract is prevented or delayed by reasons of any war, or hostility, acts of the public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restrictions, strikes, lockouts, or act of God (hereinafter referred to as events) provided notice of happenings of any such eventuality is given by either party to the other within 21 days from the date of occurrence thereof, neither party shall by reason of such event be entitled to terminate this contract nor shall either party have any claim for damages against other in respect of such non-performance or delay in performance, and deliveries under the contract shall be resumed as soon as practicable after such an event come to an end or cease to exist, and the decision of SRIC, IIT KGP as to whether the deliveries have been so resumed or not shall be final and conclusive. Further that if the performance in whole or part of any obligation under this contract is prevented or delayed by reasons of any such event for a period exceeding 60 days, either party may, at its option, terminate the contract.
7.2 Provided, also that if the contract is terminated under this clause, SRIC, IIT KGP shall be at liberty to take over from the contractor at a price to be fixed by SRIC, IIT KGP, which shall be final, all unused, undamaged and acceptable materials, bought out components and stores in course of manufacture which may be in possession of the contractor at the time of such termination or such portion thereof as SRIC, IIT KGP may deem fit, except such materials, bought out components and stores as the contractor may with the concurrence of SRIC, IIT KGP elect to retain.

8. TERMINATION FOR DEFAULT

8.1 SRIC, IIT KGP may, without prejudice to any other remedy for breach of contract, by written notice of default, sent to the Supplier/Agency, terminate this contract in whole or in part,

(a) If the Supplier/Agency fails to deliver satisfactorily any or all of the goods & services within the time period (s) specified in the contract, or any extension thereof granted by IIT KGP-SRIC.

(b) If the Supplier/Agency fails to perform any other obligation(s) under the Contract;

and

(c) If the Supplier/Agency, in either of the above circumstances, does not remedy his failure within a period of 15 days (or such longer period as SRIC, IIT KGP may authorize in writing) after receipt of the default notice from SRIC, IIT KGP.

8.2 In the event SRIC, IIT KGP terminates the contract in whole or in part to SRIC, IIT KGP may procure, upon such terms and in such manner as it deems appropriate, services similar to those undelivered and the Supplier/Agency shall be liable to SRIC, IIT KGP for any excess cost for such similar supplies. However, the Supplier/Agency shall continue the performance of the contract to the extent not terminated.

9. REJECTION:

In the event that any of the stores supplied by the Contractor is found defective in material or workmanship or otherwise not in conformity with the requirements of the Contract specifications, the purchaser shall either reject the stores or request the Contractor, in writing, to rectify the same. The Contractor, on receipt of such notification, shall either rectify or replace the defective stores free of cost to the purchaser. If the Contractor fails to do so, the purchaser may at his option either –

a) replace or rectify such defective stores and recover the extra cost so involved from the Contractor, or

b) terminate the Contract for default as provided under clause 8 above, or

(c) acquire the defective stores at a reduced price considered equitable under the circumstances. The provision of this article shall not prejudice the Purchaser’s rights
10. REPLACEMENT:

If the stores or any portion thereof is damaged or lost during transit, the Purchaser shall give notice to the Contractor setting forth particulars of such stores damaged or lost during transit. The replacement of such stores shall be effected by the Contractor within a reasonable time to avoid unnecessary delay in the intended usage of the Stores. In case the purchaser agrees, the price towards replacement items shall be paid by the purchaser on the basis of original price quoted in the tender or as reasonably worked out from the tender.

11. TERMINATION FOR INSOLVENCY

SRIC, IIT KGP may at any time terminate the Contract by giving written notice to the Supplier/Agency, without compensation to the Supplier/Agency. If the Supplier/Agency becomes bankrupt or otherwise insolvent as declared by the competent court provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to SRIC, IIT KGP.

SECTION - IV

Special conditions of the Contract:

1. The special conditions of the contract shall supplement the ‘Instructions to the Bidders’ as contained in Section II & "General Conditions of the Contract" as contained in Section III and wherever there is a conflict, the provisions herein shall prevail over those in Section II and Section III.

2. If the date fixed for opening of bids is subsequently declared as holiday by the Government of India, the revised schedule will be notified. However, in absence of such notification, the bids will be opened on next working day, time and venue remaining unaltered.

3. Purchaser reserves the right to disqualify such bidders who have a record of not meeting contractual obligations against earlier contracts entered into with the purchaser.

4. Any clarification issued by purchaser in response to query raised by prospective bidders shall form an integral part of bid documents and it may amount to amendment of relevant clauses of the bid documents.

5. Purchaser reserves the right to blacklist a bidder for a suitable period in case he fails to honour his bid as per bid declaration form.

6. The bidder has to arrange demonstration of the product to be supplied at his own cost.

7. The Agency shall be responsible for compliance of all applicable laws, codes, statutory Regulations & established practice as required for performance of services under this contract. Whether now in force or which may hereinafter come in force during the currency of the contract and or extension thereof.

8. Invoices should be in the name of The Dean (SRIC), IIT Kharagpur, Kharagpur-721302, Dist: Paschim Medinipur, West Bengal, India.
**SECTION – V**

**DETAILED TECHNICAL SPECIFICATIONS**

**Micro grid for Gopali Ashram**

**TECHNICAL SPECIFICATION for 28kWp Rooftop Solar Array based Micro-Grid for Gopali Ashram**

<table>
<thead>
<tr>
<th>Project Installed Capacity</th>
<th>28 kWp for School roof-top with 28 kwh (5 hrs @ 5 kW) integrated energy storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC Micro-Grid</td>
<td>3 Phase, 4 wire system, 400 V ± 5% (L-L, rms)</td>
</tr>
<tr>
<td>Energy storage type</td>
<td>Lead Acid type battery storage system</td>
</tr>
<tr>
<td></td>
<td>Ratings: 25 kWh capacity (5 hrs @ 5 kW)</td>
</tr>
<tr>
<td></td>
<td>Battery specification: 240 V (12V, 20 batteries) with 150 AH capacity</td>
</tr>
<tr>
<td>PV Inverter</td>
<td>One three Phase two level true bi-directional solar Inverter with minimum</td>
</tr>
<tr>
<td></td>
<td>capacity of 30 kVA. The inverter should have a provision to integrate battery</td>
</tr>
<tr>
<td></td>
<td>along with minimum capacity of 28 kWp PV modules.</td>
</tr>
<tr>
<td></td>
<td>Ratings:</td>
</tr>
<tr>
<td></td>
<td>• 30 kVA, nominal ac voltage is 415V line-to-line RMS, 50Hz pure sine wave</td>
</tr>
<tr>
<td>Solar module type</td>
<td>• Advanced mono-PERC 72 cells solar PV module</td>
</tr>
<tr>
<td></td>
<td>• Minimum Ratings @ STC = 400 Wp without any negative tolerance</td>
</tr>
<tr>
<td>PV panel mounting structure</td>
<td>- Hot dip galvanised</td>
</tr>
<tr>
<td></td>
<td>- PV array structure should be capable to withstand 150 km/h wind after</td>
</tr>
<tr>
<td></td>
<td>installation with PV modules</td>
</tr>
<tr>
<td></td>
<td>- Civil construction of 300mm X 300mm X 300mm for PCC cubicle</td>
</tr>
<tr>
<td></td>
<td>- Water proofing (using SIKA) for the roof is mandatory</td>
</tr>
<tr>
<td>Cleaning arrangement</td>
<td>- Water pipe and pump</td>
</tr>
<tr>
<td>Fire extinguisher</td>
<td>- 6 kg ABC type IS standard (2 nos.)</td>
</tr>
<tr>
<td></td>
<td>- Sand bucket with stand (4 nos.)</td>
</tr>
<tr>
<td>Lighting arrangement with 12-inch exhaust fan</td>
<td>One in inverter room and one in battery room</td>
</tr>
<tr>
<td>No of PV strings</td>
<td>Five numbers of PV strings, each having 14 Modules</td>
</tr>
<tr>
<td></td>
<td>Rating: 5.6 kWp (each string)</td>
</tr>
<tr>
<td>Bypassing arrangement</td>
<td>At the input side of the inverter, bypassing arrangement should be provided</td>
</tr>
<tr>
<td></td>
<td>for each string.</td>
</tr>
<tr>
<td>DC cable (module to junction box)</td>
<td>500 meters Copper cable (UPVC double insulated) is required with</td>
</tr>
<tr>
<td></td>
<td>1000V/60A ratings</td>
</tr>
</tbody>
</table>
Indian Institute of Technology Kharagpur invites online Bids (Technical bid and Commercial bid) from all domestic manufacturer having registered office in India and experienced OEM (Original Equipment Manufacturer) OR OEM Authorized Dealer

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of SPDT switches</td>
<td>To be decided according to the layout.</td>
</tr>
<tr>
<td>No of Junction box</td>
<td>To be decided according to the layout.</td>
</tr>
<tr>
<td>AC 4 Core Copper Cable</td>
<td>100 meters, 600V/40A ratings</td>
</tr>
<tr>
<td>Earthling systems</td>
<td>Two numbers of earthlings for ac side and another two numbers for dc side</td>
</tr>
<tr>
<td>Surge protection</td>
<td>- Type-II dc SPD for array junction box</td>
</tr>
<tr>
<td></td>
<td>- Type-II ac SPD 3-phase for output ac DB</td>
</tr>
<tr>
<td></td>
<td>- Type-II ac SPD 3-phase for input ac DB</td>
</tr>
<tr>
<td>Birds spike</td>
<td>It should be provided in each module according to the requirement. It should be made of polycarbonate.</td>
</tr>
<tr>
<td>Mode of Implementation</td>
<td>By EPC (Engineering, Procurement and Construction)</td>
</tr>
<tr>
<td>Project Time Frame</td>
<td>45 days from the date of purchase order</td>
</tr>
<tr>
<td>Warranty Period</td>
<td>The warrantee period of the complete PV Systems should be <strong>60 calendar months</strong> from the date of commissioning. However, the modules should have warranty for <strong>25 years</strong> with degradation of power generated not exceeding 20% of the minimum rated power over the 25 years period and not more than 10% up to initial 10 years period as per guideline of MNRE, Government of India.</td>
</tr>
</tbody>
</table>

* A complete set of tender documents may be Download by prospective bidder free of cost from the website [http://eprocure.gov.in/eprocure/app](http://eprocure.gov.in/eprocure/app).
Micro Grid Plan Layout for Gopali Ashram

**28 kWp Roof-top Vs. Storage, Grid**

- **PV String - 5**
  - Junction Box to connect PV string to 600 V DC BUS and arrangement of Bypass SPDT switch for the connection of DC-DC stage in future
  - Voc ≃ 600V, Isc ≃ 10.5 A, 14 modules in series

- **PV String - 4**
  - Junction Box to connect PV string to 600 V DC BUS and arrangement of Bypass SPDT switch for the connection of DC-DC stage in future
  - Voc ≃ 600V, Isc ≃ 10.5 A, 14 modules in series

- **PV String - 3**
  - Junction Box to connect PV string to 600 V DC BUS and arrangement of Bypass SPDT switch for the connection of DC-DC stage in future
  - Voc ≃ 600V, Isc ≃ 10.5 A, 14 modules in series

- **PV String - 2**
  - Junction Box to connect PV string to 600 V DC BUS and arrangement of Bypass SPDT switch for the connection of DC-DC stage in future
  - Voc ≃ 600V, Isc ≃ 10.5 A, 14 modules in series

- **PV String - 1**
  - Junction Box to connect PV string to 600 V DC BUS and arrangement of Bypass SPDT switch for the connection of DC-DC stage in future
  - Voc ≃ 600V, Isc ≃ 10.5 A, 14 modules in series

- **3 Phase Voltage Source**
  - Hybrid Inverter 30kVA

- **1000 V DC Cable**
  - Between PV Panels and Inverter

- **1000 V DC Cable**
  - Between Battery Storage and Inverter

- **1000 V DC Cable**
  - Between AC Load and Grid

- **1000 V DC Cable**
  - Between existing AC Grid in Gopali Ashram

**Existing AC Grid in Gopali Ashram**

**3 phase @ 345V/11kV**

**1 phase or 3 Phase AC Loads**

**Junction Box for AC Local Load and Grid Connection**

**25kWh Battery Storage**

**5 hrs @ 5kW**

**5.6 kWp, Voc ≃ 600V, Isc ≃ 10.5 A, 14 modules in series**

**5.6 kWp, Voc ≃ 600V, Isc ≃ 10.5 A, 14 modules in series**

**5.6 kWp, Voc ≃ 600V, Isc ≃ 10.5 A, 14 modules in series**

**5.6 kWp, Voc ≃ 600V, Isc ≃ 10.5 A, 14 modules in series**

**Junction Box to connect Battery Energy Storage to Inverter and arrangement of Bypass SPDT switch for the connection of DC-DC stage in future to 600 V DC Bus**

**240 V, 20 batteries @ 150 Ahr**

**5.6 kWp, Voc ≃ 600V, Isc ≃ 10.5 A, 14 modules in series**

**5.6 kWp, Voc ≃ 600V, Isc ≃ 10.5 A, 14 modules in series**

**5.6 kWp, Voc ≃ 600V, Isc ≃ 10.5 A, 14 modules in series**

**5.6 kWp, Voc ≃ 600V, Isc ≃ 10.5 A, 14 modules in series**

**3 Phase Power Grid**

**3 Phase Voltage Source**

**Hybrid Inverter 30kVA**

**Junction Box to connect PV string to 600 V DC BUS and arrangement of Bypass SPDT switch for the connection of DC-DC stage in future**

**Junction Box to connect Battery Energy Storage to Inverter and arrangement of Bypass SPDT switch for the connection of DC-DC stage in future to 600 V DC Bus**

**1000 V DC Cable**

**1000 V DC Cable**

**1000 V DC Cable**

**1000 V DC Cable**

**1000 V DC Cable**
### SECTION VI

#### TECHNICAL BIDS

Specification of the equipment / item (in detail) to be purchased

<table>
<thead>
<tr>
<th>Details of Technical Specifications</th>
<th>Whether complied with YES/NO</th>
<th>If yes, please attach Tech literature of the equipment duly printed &amp; clearly specify page No of Bulletin which specifically confirm this</th>
<th>If no, attach deviation statement</th>
<th>Remarks (if any)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Note:** Please indicate the page numbers where documents uploaded /attached. The entire tender document should be serially page numbered including enclosures.

**N.B.:**
1. All the bidders are requested to provide true statement in the columns. Concealing of facts will liable to be rejected the tender completely. No communication will be made in this regard.

2. Category of classification of the goods in its packing as per IATA definition inclusive of nature of sensitivity and volume of cargo.

3. Separate page, if required may be used for the stated information with same format.

Signature of Tenderer with office seal
SECTION - VII
Price BID FORM

No. IIT/SRIC/EE/UIR/WP2.2/CC/20-21/EQ-6 Date: 07/01/2021

To
Dr. Chandan Chakraborty
Department of Electrical Engineering
Indian Institute of Technology Kharagpur
P.O.: Kharagpur, Dist: Medinipur (West)
Kharagpur - 721302

Dear Sir,

Having examined the conditions of contract and specifications including addenda Nos. (If any) the receipt of which is hereby duly acknowledged, we, undersigned, offer to provide as per tender terms and conditions in conformity with the supply of the equipment, conditions of contract and specifications for the sum shown in the schedule of prices attached herewith and made part of this Bid.

We undertake, if our Bid is accepted, to commence deliveries within schedule time frame and to complete delivery of all the supplies specified in the contract within as per schedule calculated from the date of issue of your purchase order/RO.

If our Bid is accepted, we will obtain the performance guarantees of a Scheduled Bank for 3% of the cost of equipment.

We agree to abide by this Bid for a period of 90 days from the date fixed for Bid opening and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal Purchase Order of Contract is prepared and executed, this Bid together with your written acceptance thereof in your notification of award shall constitute a binding contract between us.

We understand that you are not bound to accept the lowest or any bid, you may receive.

We have applied and have submitted required bid security as per clause 8, section II of tender document.

Dated this ....................... day of ...................... 2020

Name and Signature ......................................................

In the capacity of ...........................................................

Duly authorized to sign the bid for and on behalf of ..............................................
## PRICE SCHEDULE FOR DOMESTIC GOODS OR GOODS OF FOREIGN ORIGIN LOCATED WITHIN INDIA

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Country of origin</th>
<th>Unit &amp; Quantity</th>
<th>Price Per Unit</th>
<th>Overall price (a+b+c+d+e+f)</th>
<th>GST tax payable, if contractual award (d)</th>
<th>Total Price (e)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ex-factory/ ex-warehouse/ ex-showroom off-the-shelf (a)</td>
<td>Excise Duty if any (b)</td>
<td>Packing and forwarding (c)</td>
<td>Transportation (d)</td>
<td>Insurance, other duties and taxes if any (other than sales tax) and incidental costs (e)</td>
<td>Incidental services (including supervision) (f)</td>
<td></td>
</tr>
</tbody>
</table>

Total bid price in Rupees: (in figures) ……………………………
(in words) ……………………………

Signature of bidder
Name
Business address

Place:
Date:

Signature of the Tenderer
Date with Seal
Note:

a) Organization will be provided DSIR Certificate (Tax exemption certification) to the Firms if required, so Firms will quote their rates accordingly.

b) In case of discrepancy between unit price and total price, the unit price shall prevail.

c) Bidder can use separate sheet, if required. But Price should be quoted at a prescribed Format. Using of any other Format, bid shall be liable for rejected.

d) Taxes as applicable and shall be paid separately. Taxes will not be taken into consideration for determining the lowest bid.

e) It is mandatory on bidder to quote all items rates in BOQ as asked for in the Tender form. Failure to adhere to the condition will lead to rejection of Tender. The bidder should quote unconditional rates neatly written without any overwriting, cutting, using white fluid etc. and duly signed and stamped on all pages.

f) Tender documents once submitted will remain with Institute and will not be returned to the bidders.
SECTION - IX

PERFORMANCE SECURITY GUARANTEE BOND

In consideration of Indian Institute of Technology Kharagpur, (SRIC) (herein after called the “SRIC, IIT KGP”) having agreed to exempt ________________ (hereinafter called “the said contractor(s)’) from the demand under the terms and conditions of an agreement/(Purchase Order) No ________________ dated ____________ made between ________________ and ________________ for ________________, (hereinafter called “the said agreement”), of security deposit for the due fulfilment by the said contractor(s) of the terms and conditions contained in the said Agreement, on production of the bank guarantee for __________________ we, (name of the bank) ________________ (hereinafter refer to as “the bank”) do hereby undertake to pay to SRIC, IIT KGP an amount not exceeding __________________ against any loss or damage caused to or suffered or would be caused to or suffered by SRIC, IIT KGP by reason of any breach by the said Contractor(s) of any of the terms or conditions contained in the said Agreement or any reason of the contracts failure to perform said Agreement.

2. We (name of the bank) ________________ do hereby undertake to pay the amounts due and payable under this guarantee without any demure, merely on a demanded from SRIC, IIT KGP stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by SRIC, IIT KGP by reason of breach by the said contractor(s)’ of any of the terms or conditions contained in the said Agreement or by reason of the contractors(s)’ failure to perform the said Agreement or roll out the supply as per schedule V & parameters for failure of compliance of intellectuals property rights. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee where the decision of SRIC, IIT KGP in these counts shall be final and binding on the bank. However, our liability under this guarantee shall be restricted to an amount not exceeding __________________.

3. We undertake to pay to SRIC, IIT KGP any money so demanded not withstanding any dispute or disputes raised by the contractor(s)/Supplier/ Agency(s) in any suit or proceeding pending before any court or tribunal relating thereto our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be valid discharge of our liability for payment there under and the contractor(s)/Supplier/ Agency(s) shall have no claim against us for making such payment.

4. We (name of the bank) ________________ further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of SRIC, IIT KGP under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till expiry of 90 days beyond the date on which the warranty period of the equipment(s) expire.

5. We (name of the bank) ________________ further agree with SRIC, IIT KGP that SRIC, IIT KGP shall have the fullest liberty without our consent and without affecting in any manner our
obligations there under to vary any of the terms and conditions of the said Agreement or to extend
time of performance by the said contractor(s) from time to time or to postpone for any time or from
time to time any of the powers exercisable by SRIC, IIT KGP against the said Contractor(s) and to
forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be
relieved from our liability by reason of any such variation, or extension being granted to the said
Contractor(s) or for any forbearance, act or omission on the part of SRIC, IIT KGP or any indulgence by
IIT KGP-SRIC to the said Contractor(s) or by any such matter or thing whatsoever which under the law
relating to sureties would, but for this provision, have effect of so relieving us.

6. We (name of the bank) ____________________ lastly undertake not to revoke this guarantee
during its currency except with the previous consent of SRIC, IIT KGP in writing.
Dated the ________________ day of _______ for __________________________________

(Indicate the name of bank)
SECTION - X

Bid Security Self Declaration Form

Date: 07/01/2021
Tender No. IIT/SRIC/EE/UIR/WP2.2/CC/20-21/EQ-6

To
The Dean (SRIC)
Indian Institute of Technology Kharagpur
Sponsored Research and Industrial Consultancy
P.O.: Kharagpur, Dist: Medinipur (West)
Kharagpur - 721302

I/We The undersigned, declare that:
I/We understand that, according to your conditions, bids must be supported by a Bid Security Declaration.

I/We accept that I/We may be disqualified from bidding for any contract with the Indian Institute of Technology Kharagpur for a period of 1 (one) year from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because I/We

   a) have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or

   b) having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or reuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders.

I/We understand this Bid Security Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this ____ day of [month] [year] at [place of execution].

[Insert NAME OF BIDDER’S AUTHORIZED REPRESENTATIVE]
[Insert signatory’s legal capacity] Affiant
SECTION XI
UNDERTAKING

I hereby undertake and declare that the agency M/S................................................................. have not been black listed by any Government Organizations, autonomous bodies, Department of Government of India and Department of Government of West Bengal and any others State Government in India.

Signature of the Authorized Persons......................................................
Name & Seal of the Company

Date:
Place:
## SECTION XII

**TENDER DOCUMENT FOR PURCHASE OF Micro grid for Gopali Ashram**

**TENDER NO. IIT/SRIC/EE/UIR/WP2.2/CC/20-21/EQ-6**

### CHECKLIST FOR THE TENDERER

<table>
<thead>
<tr>
<th>Name and Address of the Tenderer:</th>
<th>List of Equipment Quoted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bid Security Self Declaration Format</td>
<td>Yes/ No</td>
</tr>
</tbody>
</table>

*Supportive Documents must enclose for fulfilling Eligibility criteria, to be submitted by the Tenderer*

| 01 | Minimum Five (5) years’ experience in the field of supply of laboratory equipment |
| 02 | Average Annual Turnover of at least **15,00,000 INR** during last 3 financial years i.e. 2017-18, 2018-19 and 2019-20 is required |
| 03 | A bid form and price schedule at a prescribed Format/ Schedule |
| 04 | Bid Security Self Declaration Form |
| 05 | Audited Financial Statement for last three financial years (i.e. **2017-18, 2018-19 and 2019-20** |
| 06 | Copy of IT Return Acknowledgement for the preceding three financial years (i.e. **2016-17, 2017-18 and 2018-19** |
| 07 | Registration Certificate/Certificate of incorporation, if any |
| 08 | Must have supplied similar equipment to laboratories of State or Central Government Institutions or reputed Educational or Research Institution and proof of such supplies should be produced |
| 09 | GST Registration Certificate |
| 10 | Copy of PAN./CIN No. of the Company |
| 11 | Authorized dealer Certificate from Manufacturer |
| 12 | Lists of clients with reference in minimum five firms with name, designation and contact details |
| 13 | Brief on supply of laboratory equipment handled during last five years |
| 14 | List of offices/branches in India, with address and contact details |
| 15 | Contact Person Mobile No. & Land Line |

---

Signature of the Tenderer  
Date with Company Seal

Signature of the Tenderer  
Date with Seal