



राजीव गांधी पेट्रोलियम प्रौद्योगिकी संस्थान  
जायस, अमेठी-229304  
उत्तर प्रदेश, भारत

**RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY  
JAIS, AMETHI- 229304  
UTTAR PRADESH, INDIA**

**e-TENDER NOTICE**

**For**

**“Procurement of Solar Panel with Accessories”**

Rajiv Gandhi Institute of Petroleum Technology (RGIPT), Jais, Amethi, Uttar Pradesh has been established through an Act of the Parliament by the Ministry of Petroleum and Natural Gas (MoPNG), Government of India in 2008.

The Institute has been accorded the eminence of being an Institution of National Importance on the lines of the IITs. The Institute is associating with leading International Universities/ Institutions specializing in Petroleum Technology and Energy.

The Institute invites online bids for the **Procurement of Solar Panel with Accessories**.

### **CRITICAL DATE AND INFORMATION**

<b>Name of Work</b>	Procurement of Solar Panel with Accessories
<b>Tender No.</b>	RGIPT/JAIS/PCRA/2022-23/01 dt 22 Aug 2022
<b>Date of Issue/publication of Tender Notice</b>	23 Aug 2022 1500 Hrs
<b>Bid Document Download Date &amp; Time</b>	23 Aug 2022 1600 Hrs
<b>Pre-Bid Meeting Date, Time &amp; Venue (All queries shall be discussed in the Pre- Bid Meeting.)</b>	30 Aug 2022 1500 Hrs
<b>Bid Submission Start Date &amp; Time</b>	23 Aug 2022 1700 Hrs
<b>Last Date and time of submission of Bids</b>	08 Sep 2022 1200 Hrs
<b>Date and time of opening of Technical Bids</b>	09 Sep 2022 1400 Hrs
<b>Date and Time of Interview/Presentation</b>	Shall be intimated through email.
<b>Bid Address to the</b>	The Director Rajiv Gandhi Institute of Petroleum Technology, Mubarakpur, Mukhtia, Bahadurpur Post: Harbanshganj, Jais, Amethi – 229304
<b>Chairman Purchase Committee</b>	Name: Prof. (Dr.) A.S.K. Sinha Rajiv Gandhi Institute of Petroleum Technology, Mubarakpur, Mukhtia, Bahadurpur Email: director@rgipt.ac.in Contact Nos. +91 9335660220
<b>Technical Specification</b>	Name: Dr. G. N. Tiwari, CO-PI Email: gntiwari@ces.iitd.ernet.in Contact Nos. 9968344488 Dr. Praveen Kumar Srivastava Email: pksrivastava@rgipt.ac.in Contact Nos. +91 9140780903

**Notes:**

1. Details regarding the tender are available on website of the Institute <https://www.rgipt.ac.in> and **CPP Portal** Tender document may be downloaded from above mentioned websites. Bidders are therefore, requested to visit the websites regularly to keep themselves updated. Any Addendum/Corrigendum will be displayed on the aforesaid websites only.
2. For submission of e-Bids, bidders are required to get themselves registered with CPP Portal.
3. The **HARD COPY** of original Bid documents (Only Technical Bid documents) along with payment proof pertaining to EMD and Tender processing fee to be sent to the Institute at the address indicated below on or before bid opening date/time as mentioned in critical date sheet.
4. Tender documents received in incomplete shape or beyond the stipulated period shall not be entertained under any circumstances. The authority reserves the right to accept or reject any or all tenders without assigning any reason thereof.
5. Earnest Money Deposit (EMD) of **Rs. 18,758/-** (Exempted in case of MSME registered, certificate to be enclosed) in the form of NEFT/Demand Draft, Fixed Deposit Receipt, Bankers Cheque issued by any Nationalized Bank in favour of “**Rajiv Gandhi Institute of Petroleum Technology, payable at Jais**”.

**Bank Account Details of the Institute:**

**Name: Rajiv Gandhi Institute of Petroleum Technology**

**Bank: Bank of Baroda**

**Address: RGIPT Campus, Bahadurpur Jais, Amethi.**

**Account No. 59480100000001**

**IFSC Code: BARB0JAICAM (5<sup>th</sup> Character is ZERO)**

**ADDRESS OF THE INSTITUTE:**

RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY, Mubarakpur, Mukhtia More, Bahadurpur, Post: Harbanshganj, Jais, Amethi, Uttar Pradesh 229304, Website: [www.rgipt.ac.in](http://www.rgipt.ac.in)

## **INTRODUCTION**

Rajiv Gandhi Institute of Petroleum Technology (RGIPT), Jais, Amethi, Uttar Pradesh has been established through an Act of the Parliament by the Ministry of Petroleum and Natural Gas (MoPNG), Government of India in 2008.

The Institute has been accorded the eminence of being an Institution of National Importance on the lines of the IITs. The Institute is associating with leading International Universities/ Institutions specializing in Petroleum Technology and Energy.

The prime objective of the Institute is to provide education, training, and research to roll out efficient human resources, and to meet the growing requirements of the Petroleum and Energy sector.

The main campus of the Institute is located at Jais, Amethi, Uttar Pradesh and B. Tech., M. Tech., MBA and Ph.D. programmes from there. The Institute has set two centres, namely- Assam Energy Institute (AEI), Sivasagar and Energy Institute, Bengaluru (EIB) to offer Diploma and M. Tech. programmes respectively.

## **INSTRUCTIONS FOR ONLINE BID SUBMISSION (GUIDELINE FOR BIDDER):**

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at: <http://eprocure.gov.in/eprocure/app>.

### **1. Registration**

- (a) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <http://eprocure.gov.in/eprocure/app>) by clicking on the link “Online bidder Enrollment” on the CPP Portal which is free of charge.
- (b) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- (c) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- (d) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sift/ nCode / eMudhra etc.), with their profile.
- (e) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC’s to others which may lead to misuse.
- (f) Bidder then logs in to the site through the secured log-in by entering their user ID/Password and the password of the DSC/ e-Token.

### **2. Searching for Tender Documents**

- (a) There is various search option built in the CPP Portal, to facilities bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, location, Date Value, etc. there is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
- (b) Once the bidders have selected the tenders they are interested in, they may download the required documents/tender schedules. These tenders can be moved to the respective ‘my Tenders’ folder. This would enable the CPP Portal to intimate the bidders through SMS/e-mail in case there is any corrigendum issued to the tender document.
- (c) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification/help from the Helpdesk.

### 3. **Preparation of Bids**

- (a) Bidder should consider any corrigendum published on the tender document before submitted their bids.
- (b) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents-including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- (c) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document/schedule any generally, they can be in PDF/XLS/RAR/DWF/JPG formats. Bid document may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- (d) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificate etc.) has been provided to the bidders. Bidders can use “My space” or “Other Important Documents” area available to them to upload such documents. These documents may be directly submitted from the “My space” area while submitting a bid, and need not be upload again and again. This will lead to a reduction in the time required for bid submission process.

### 4. **Submission of Bids**

- (a) Bidder should log into the site well in advance for bid submission so that they can 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.
- (b) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- (c) Bidders are required to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BOQ format with the tender document, then the same is to be download and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white 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.
- (d) 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.
- (e) 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. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers public keys. Overall, the

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

(f) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.

(g) Upon the successful and timely submission of bids (i.e. after Clicking “Freeze Bid Submission” in the portal), 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.

(h) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid, this acknowledgement may be used as an entry pass for any bid opening meetings.

5. **Assistance to Bidders**

(a) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.

(b) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24\*7 CPP Portal Helpdesk.

### LIST OF DOCUMENTS TO BE UPLOADED

1. Bidder should take into account notifications, corrigendum published, if any on the tender document before submitting their bids.
2. Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Any deviations from these may lead to rejection of the bid.
3. The two-bid system will be followed for this tender. In this system, online offer should be submitted under **TWO-BID System** in two separate e-packets i.e. **“Technical eBid”** and **“Financial eBid”**.

#### Online Envelope No. 1: "Technical Bid" shall contain (Pdf format only)

Sl. No.	Details of Documents	Documents to be Uploaded	File Format
	<p>The EMD of Rs. 18,758/- (Rupees eighteen thousand seven hundred fifty-eight Only (Exempted in case of MSME registered, certificate to be enclosed) in the form of NEFT/Demand Draft, Fixed Deposit Receipt, Bankers Cheque issued by any Nationalized Bank in favour of <b>“Rajiv Gandhi Institute of Petroleum Technology, payable at Jais”</b>. <b>Bank Account Details of the Institute:</b> <b>Name: Rajiv Gandhi Institute of Petroleum Technology</b></p> <p><b>Bank: Bank of Baroda</b> <b>Address: RGIPT Campus, Bahadurpur Jais, Amethi.</b> <b>Account No. 59480100000001</b> <b>IFSC Code: BARB0JAICAM (5<sup>th</sup> Character is ZERO)</b></p>	Payment Receipt	.pdf
1	Technical Specification Compliance Statement	Upload Technical Specification Compliance Statement <b>on the letter head of the Company in prescribed format as given in Annexure - I</b>	.pdf



2	Manufacturer's Authorization Form	Upload <b>Manufacturer's Authorization Certificate</b> in prescribed format as given in <b>Annexure – 2</b> or Self Declaration of Manufacturing Unit	.pdf
3	Price Reasonability Certificate	Upload <b>Price Reasonability Certificate</b> on the letter head of the Company in prescribed format as given in <b>Annexure - 3</b>	.pdf
4	Declaration Certificate (Acceptance of terms & conditions of the tender) – In defined format (On the letter head of the Company) - <b>Annexure –4</b> and Declaration Sheet as per <b>Annexure - 4A</b> .	Upload Declaration Certificate (Acceptance of terms & conditions of the tender) & Declaration Sheet on the letterhead of the Company in prescribed format as given in <b>Annexure – 4 &amp; 4A</b>	.pdf
5	<b>Non-Blacklisting Declaration</b> - As on date of submission of the proposal, the Bidder is neither blacklisted by Central Government/ State Government or Instrumentalities thereof nor is any criminal case against the Bidder/ its Partners/ Directors/ Agents pending before any court of law. Non- Blacklisting Certificate on Rs. 100.00	Upload Non-Blacklisting Declaration on Rs. 100.00 non-Judicial Stamp Paper in prescribed format as given in <b>Annexure – 5</b>	.pdf

	non-Judicial Stamp Paper –In definedformat - <b>Annexure – 5</b>		
6	Copy of Firm Registration	Upload – Self Attested Copy of Firm Registration Certificate	.pdf
7	Copy of PAN Card & GST No.	Upload – Self Attested Copy of PAN Card & GST No.	.pdf

8	<b>Experience:</b> Bidder should have 3 years' experience in the selling and providing service (related Equipment) to reputed Central Government Institutes/Petroleum Engineering Colleges/ Universities/ Oil Companies/ Research Institutes/ IITs/ NITs/ IISERs	Upload <b>List of clients &amp; Purchase Orders of Supply of Solar Panel with Accessories</b> to the mentioned institutions.	.pdf
9	<b>ISO Certificate:</b> The Bidder or their OEM should possess any valid standard certification like ISO 9001:2008 & 14001:2004.	Upload valid standard certification of the Company like ISO	.pdf
10	<b>Audited Annual Accounts:</b> Bidder should enclose the copies of last 3 years Audited Annual Accounts (Balance Sheet) duly authenticated by Chartered Accountant	Upload the Self Attested Copies of last 3 years Audited Annual Accounts duly authenticated by Chartered Accountant (FY 2020-21, FY 2019-20 & FY 2018-19)	.pdf
11	<b>Annual Turnover:</b> Last three years CA certified turnover certificate ( <b><u>Average Turnover of last three years should be Rs. 30.00 lakhs (Rupees Thirty Lakhs only)</u></b> )	Upload the Self Attested Copy of CA certified Annual Turnover Certificate (FY 2020-21, FY 2019-20 & FY 2018-19)	.pdf
12	Last 3 year Income Tax Return (ITR)	Upload the Self Attested Copy of last 3 year Income Tax Return (ITR) – (FY 2020-21, FY 2019-20 & FY 2018-19)	.pdf
13	EMD Exemption -In case of exemption of EMD, the scanned copy of the document in support of exemption will have to be uploaded by the bidder during bid submission	Upload Self Attested Copy of MSME or any other valid certificate for EMD exemption	.pdf
14	<b>MOST IMPORTANT:</b> Document related to prior installation and service – At least 3 Academic and R&D National Organizations, Central and State Government Departments/ Institutions/PSU in the last 3 years.	Upload Self Attested Copies of 3 installations in Academic and R&D National Organizations, Central and State Government Departments/ Institutions/ PSU in the last 3 years. – <b>Annexure - 6</b>	.pdf

***RGIPT, Jais, Amethi reserves the right to reject the bid if any of the above listed document/s is not submitted.***

**Online Envelope 2: “Financial Bid” shall contain**

1. The Financial Bid should be filled properly in the .xls/BoQ uploaded in the CPP portal.
2. Financial bids of the technically qualified bidders only will be opened, through CPP portal.
3. Financial bids must be offered in the format attached as per Specimen BoQ and tender document.
4. In case of any mistake or error in calculations or any discrepancy in the price quoted in word and figures, the LOWEST amount will be considered for comparison. If this lowest price is not acceptable to the bidder, their bid will be rejected. In this case, RGIPT, Jais, Amethi reserves the right to forfeit their EMD.

## **SECTION-II - INSTRUCTIONS TO THE BIDDERS (ITB)**

Tenderers are advised to follow the instructions provided in the `Instructions to the Bidders for the e-Submission of the bids online.

- 1. Location of Supply & Installation of Equipment & Warranty Services:**  
Rajiv Gandhi Institute of Petroleum Technology, Mubarakpur, Mukhetia More, Bahadurpur, Post: Harbanshanj, Jais, Amethi – 229304, Uttar Pradesh.
- 2.** All the items covered in the Schedule of Requirements must be supplied within 16 weeks from the date of opening of LC (For Foreign Manufacturer) & 16 weeks from the date of placement of purchase order (For Indian Manufacturer).  
And after receipt of equipment, the same must be installed within a month's time.
- 3. Amendment to Bidding Documents:**
  - a) At any time prior to the deadline for submission of bids, RGIPT, Jais, Amethi may, for any reason, whether on its own initiative or in response to the clarification request by a prospective bidder, modify the bid document.
  - b) The amendments to the tender documents, if any, will be notified by release of Corrigendum Notice on institute website against this tender. The amendments/modifications will be binding on the bidders.
  - c) RGIPT, Jais, Amethi at its discretion may extend the deadline for the submission of bids if it thinks necessary to do so or if the bid document undergoes changes during the bidding period, in order to give prospective bidders time to take into consideration the amendments while preparing their bids.
- 4. Preparation of Bids**

Bidder should avoid, as far as possible, corrections, overwriting, erasures or postscripts in the bid documents. In case however, any corrections, overwriting, erasures or postscripts have to be made in the bids, they should be supported by dated signatures of the same authorized person signing the bid documents. However, bidder shall not be entitled to amend/ add/ delete/ correct the clauses mentioned in the entire tender document.
- 5. Forfeiture of EMD:**
  - a) In case of the bidder whose offer is accepted, the EMD will be returned on submission of Performance Security.
  - b) The successful bidder, on award of contract/ order, must send the contract/ order acceptance in writing, within 20 days of award of contract/ order, failing which the EMD will be forfeited and the order will be cancelled.
  - c) If the bidder withdraws the bid during the period of bid validity specified in the tender.
- 6. Period of validity of bids:**
  - a) Bids shall be valid for minimum 180 days from the date of submission. A bid valid for a shorter period shall stand rejected.
  - b) RGIPT, Jais, Amethi may ask for the bidder's consent to extend the period of validity. Such request and the response shall be made in writing only. The bidder is free not to accept such request without forfeiting the EMD. A bidder agreeing to the request for extension will not be permitted to modify his bid.

**7. Deadline for Submission of Bids – online only:**

- a) The Bid documents shall be neatly arranged. They should not contain any terms and conditions, printed or otherwise, which are not applicable to the Bid. ***The conditional bid will be summarily rejected.***
- b) Bids must be received by RGIPT, Jais, Amethi before the due date and time at the address specified in the tender document.
- c) RGIPT, Jais, Amethi may extend this deadline for submission of bids by amending the bid documents and the same shall be suitably notified on its website.
- d) RGIPT, Jais, Amethi shall not be responsible and liable for **the delay in receiving the bid** for whatsoever reason.

**8. Bid Opening & Evaluation of Bids:**

- a) The technical bids will be evaluated in two steps.
  - i. The bids of eligibility bidders only will be evaluable based on eligibility criteria mentioned in the tender document.
  - ii. The technical bids of only the shortlisted eligible bidders shall be evaluated based on technical specifications stipulated in the tender document.
- b) The bidders whose technical bid is found to meet both the requirements as specified above will qualify for opening of the financial bid.
- c) The duly constituted Purchase Committee shall evaluate the bids. The Purchase Committee shall be empowered to take appropriate decisions on minor deviations, if any.
- d) **MOST IMPORTANT: A point system will be followed for evaluation of bids and the bids scoring a minimum threshold mark will qualify for the price bid.**
- e) The bidder's name, bid prices, discounts and such other details considered as appropriate by RGIPT, Jais, Amethi, will be announced at the time of opening of the commercial bids.

**9. Comparison of Bids:**

- a) Only the short-listed bids from the technical evaluation shall be considered for financial comparison.
- b) The bids shall be evaluated on the basis of the total prices including all taxes and duties as per the details mentioned in the financial bid.

**10. Purchase Order:**

- a) RGIPT, Jais, Amethi shall issue purchase order to the eligible bidder whose technical bid has been accepted and determined as the **lowest evaluated commercial bid based on the Grand Total**. However, RGIPT, Jais, Amethi reserves the right and has sole discretion to reject the lowest evaluated bid.

**11. Institute's Right to amend/cancel:**

- a) RGIPT, Jais, Amethi reserves the right to amend the eligibility criteria, commercial terms & conditions, Scope of Supply, technical specifications etc.
- b) RGIPT, Jais, Amethi reserves the right to cancel the entire tender without assigning any reasons thereof.

**12. Termination:**

- a) The Institute may, without prejudice to any other remedy for breach of contract may terminate the contract in whole or in parts in the event of the following:-
  - i. If the contractor fails to arrange the supply of any or all of the vehicles within the period(s) specified in the contract or any extension thereof granted by the Campus.
  - ii. If the contractor fails to perform any other obligation(s) under the contract. **In case the Contract has to be terminated, one-month advance notice in writing shall be given by either side.**

**13. Corrupt or Fraudulent Practices:**

- a) It is expected that the bidders who wish to bid for this project have highest standards of ethics.
- b) RGIPT, Jais, Amethi will reject bid if it determines that the bidder recommended for award has engaged in corrupt or fraudulent practices while competing for this contract.
- c) RGIPT, Jais, Amethi may declare a vendor ineligible, either indefinitely or for a stated duration, to be awarded a contract if it at any time determines that the vendor has engaged in corrupt and fraudulent practices during the award / execution of contract.

**14. Interpretation of the clauses in the Tender Document/ Contract Document**

- a) In case of any ambiguity/ dispute in the interpretation of any of the clauses in this Tender Document, the interpretation of the clauses by Director, RGIPT, Jais, Amethi shall be final and binding on all parties.

**Chairman, Project Purchase Committee**

### SECTION III- ELIGIBILITY AND QUALIFICATION CRITERIA

The following documents should be submitted for eligibility and qualification in technical bid-

Sl. No.	Description
	<p><b>The EMD of Rs. 18,758/-</b> (Rupees eighteen thousand seven hundred fifty eight Only) (Exempted in case of MSME registered, certificate to be enclosed) in the form of NEFT/Demand Draft, Fixed Deposit Receipt, Bankers Cheque issued by any Nationalized Bank in favour of “Rajiv Gandhi Institute of Petroleum Technology, payable at Jais”.</p> <p>Bank Account Details of the Institute:  Name: Rajiv Gandhi Institute of Petroleum Technology  Bank: Bank of Baroda  Address: RGIPT Campus, Bahadurpur Jais, Amethi.  Account No. 59480100000001  IFSC Code: BARB0JAICAM (5th Character is ZERO)</p>
1	Technical Specification Compliance Statement – <b>(On the letter head of the Company) – Annexure -1</b>
2	Manufacturer’s Authorization Form – In defined format OR Self Declaration of Manufacturing Unit – <b>Annexure – 2</b>
3	Price Reasonability Certificate – In defined format <b>(On the letter head of the Company)- Annexure – 3</b>
4	Declaration Certificate (Acceptance of terms & conditions of the tender) – In defined format (On the letter head of the Company) – <b>Annexure – 4</b> and Declaration Sheet as per <b>Annexure – 4A</b> .
5	As on date of submission of the proposal, the Bidder is neither blacklisted by Central Government/ State Government or Instrumentalities thereof nor is any criminal case against the Bidder/ its Partners/ Directors/ Agents pending before any court of law. Non-Blacklisting Certificate on Rs.100.00 non-Judicial Stamp Paper – In defined format – <b>Annexure – 5</b>
6	Copy of Firm Registration
7	Copy of PAN Card & GST No.
8	Bidder should have 3 years’ experience in the selling and providing service (related Equipment) to reputed Central Government Institutes/Petroleum Engineering Colleges/ Universities/ Oil Companies/ Research Institutes/ IITs/ NITs/ IISERs (Self Declaration) – <b>List of Clients &amp; Purchase Orders of “Solar Panel with Accessories”</b> to be submitted.
9	The Bidder or their OEM should possess any valid standard certification like ISO 9001:2008 & 14001:2004.
10	Bidder should enclose the copies of last 3 years Audited Annual Accounts (Balance Sheet and Profit & Loss A/c) duly authenticated by Chartered Accountant (FY 2020-21, FY 2019-20 & FY 2018-19)
11	Last three years CA certified turnover certificate ( <b><u>Average Turnover of last three years should be Rs. 30.00 lakhs (Rupees Thirty Lakhs only)</u></b> ) (FY 2020-21, FY 2019-20 & FY 2018-19)
12	Last 3 year Income Tax Return (ITR) (FY 2020-21, FY 2019-20 & FY 2018-19)
13	In case of exemption of EMD, the scanned copy of the document in support of exemption will have to be uploaded by the bidder during bid submission

14	<b>MOST IMPORTANT:</b> Document related to prior installation and service – At least 3 Academic and R&D National Organizations, Central and State Government Departments/Institutions/PSU in the last 3 years. <b>Annexure – 6</b>
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**MOST IMPORTANT:** PLEASE DON'T ADD OR UPLOAD ANY ANNEXURE OF PRICE IN TECHNO-COMMERICAL BID DOCUMENTS, OTHERWISE YOUR BID WILL BE REJECTED.



## **SECTION IV: GENERAL CONDITIONS OF CONTRACT**

### **1. Tender filling up and submission**

- a. Tender offer must refer to the letter/Notice inviting the Tender.
- b. The bid should be uploaded online mentioning “Procurement of Solar Panel with Accessories Bids must be submitted online against above-mentioned tender.
- c. The rates quoted should include all the components mentioned in the tender and should be valid for at- least 180 days from the date of opening of the bids. The rates must be quoted both in figures and words and overwriting should be avoided. However all cuttings/corrections must be duly authenticated.
- d. The bid submitted must not contain any ambiguity. Any such ambiguity in the quote submitted shall make it liable for rejection.
- e. The tender document is not transferable.
- f. No amendment to the bid in any form by the bidder will be permitted after opening of the tender. No conditional offers shall be accepted.
- g. Submission of bid will bind the bidder to the acceptance of all conditions specified in the tender document.
- h. Canvassing in any form is forbidden and will be a criterion for disqualification.

2. **EMD (Earnest Money Deposit):** The EMD of Rs. 18,758/- (Rupees eighteen thousand seven hundred fifty eight Only) (Exempted in case of MSME registered, certificate to be enclosed) in the form of NEFT/Demand Draft, Fixed Deposit Receipt, Bankers Cheque issued by any Nationalized Bank in favour of “Rajiv Gandhi Institute of Petroleum Technology, payable at Jais”.

Bank Account Details of the Institute:

Name: Rajiv Gandhi Institute of Petroleum Technology

Bank: Bank of Baroda

Address: RGIPT Campus, Bahadurpur Jais, Amethi.

Account No. 59480100000001

IFSC Code: BARB0JAICAM (5th Character is ZERO)

3. The earnest money deposit (EMD) shall be submitted in Indian currency only. The bid security should remain valid for a period of 45 days beyond the final bid validity period.
- a) The EMD of the unsuccessful bidders will be returned after final award of the Job to a successful bidder/ acceptance of the tender and within reasonable time not exceeding six months from the date of opening of Tender. The EMD will carry no interest.
  - b) The EMD will be forfeited if the bidder withdraws his offer before finalization of the tender.
  - c) The EMD of successful bidder will be returned after the submission of Performance Security.
  - d) The firms registered with DGS&D, MSME & NSIC, if any, are exempted from payment

of EMD provided such registration includes the item they are offering which are manufactured by them and not for selling products manufactured by other companies. **(Latest Copy must be submitted online for claiming exemption).**

4. **Performance Security:** The successful bidder will provide “Performance Security” for an amount of **3% of the contract value** in the form of valid Account payee Demand Draft/ FDR from any of the scheduled bank favouring “Rajiv Gandhi Institute of Petroleum Technology” payable at RGIPT, Jais, Amethi Campus Branch. Performance security should remain valid at least for a period of 60 days beyond the date of completion of all contractual obligations of supplier (**Total Period of FDR/Demand Draft – Warranty Period plus 60 days**). Thereafter the security will be returned, provided there is no defect in the equipment supplied. (As per notification no. RGIPT/Jais/Admin/46/2021)

The company before the opening of letter of credit (LC) or wire transfer shall submit the performance security. The company shall submit the performance security at the rate of three percent (3%) of contract value in Indian Rupees in the form of demand draft or FDR, issued in the favor of **Rajiv Gandhi Institute of Petroleum Technology**” payable at **Bank of Baroda**, RGIPT, Jais campus branch, Amethi from any of the scheduled bank. (As per notification no. RGIPT/Jais/Admin/845/2020)

The performance should remain valid at least for a period of 60 days of beyond the date of completion of all contractual obligations of supplier. (As per notification no. RGIPT/Jais/Admin/845/2020)

5. **Bid Validity:** The bid must be valid for 180 days from the date of opening of Technical Bid.
6. **Price bid submission:** In case of imported equipment, price (quote) shall be in two parts –  
(a) CIF – (Cost, Insurance, Freight) price upto Airport in Foreign currency, and  
(b) from Airport to destination (RGIPT, Jais, Amethi) in Indian currency. The components covered in this schedule consist of custom duty; custom clearance charges; freight charges, & Installation and training charges etc, which will be reimbursed in Indian currency to the Indian counterpart as per actual (Up to the maximum limit quoted in the bid), on submission of the original supporting bills duly certified and stamped by the Chairman PCRA Project Purchase Committee.

7. **Technical Bid Evaluation Criteria:**  
**A point system will be followed for evaluation of bids and the bids scoring a minimum threshold mark will qualify for the price bid.** The Financial bid will be opened only of those firms, who will be found technically qualified after evaluation of their technical bids.

**Financial Bid Evaluation Criteria:**

The order will be awarded to the vendor, who fulfills all the technical specifications & conditions mentioned in the tender document for Technical Bid and **whose rate is L1 in grand total in Financial Bid.** Evaluation of Lowest bid will be calculated on the total price of all items tendered for basic equipment along with accessories, packing & forwarding, Installation & Commissioning, GST and other charges etc. as mentioned in the tender (**Bidder must submit the technical bid & financial bid separately**).

The Purchase Order (PO) to import any equipment shall be placed on the name of ‘foreign principal’ only in foreign currency.

8. **Special Instructions:**  
a) Non-receipt of quote in foreign currency for imported equipment may lead to the rejection of their bid without assigning any reason thereof.

- b) RGIPT shall provide custom/excise duty exemption certificate and GST exemption certificate on request by the bidder.
- c) RGIPT, Jais, Amethi avails custom duty exemption in terms of Government Notification No. 51/96-Customs dated 23 July, 1996, and Central Excise Duty Exemption in terms of Government Notification No. 10/97-Central Excise dated 01 March, 1997, as amended time to time.
- d) RGIPT, Jais, Amethi avails GST concession under notification No. 47/2017 Integrated tax (rate) dated 14 November 2017, as amended time to time.

9. **Payment terms:**

- a) **In Indian Currency Payment Terms** - 80% payment will be released against successful supply of equipment at site i.e Rajiv Gandhi Institute of Petroleum Technology, Jais, Amethi and balance 20% after installation & commissioning of the equipment and subject to submission of original Bill/ Invoice as certified by the Chairman, PCRA Project purchase committee.
- b) **In Foreign Currency payment Terms** -80% payment by an irrevocable letter of credit favouring Principal Company and for compliance of payment term, two weeks prior to dispatch of the equipment on submission of letter from Principal Company confirming that the equipment is ready for dispatch, receipt of documents without any discrepancies & Copy of 110% Insurance and balance 20% will be paid after satisfactory installation and commissioning as certified by the Chairman, PCRA purchase committee.

**Reimbursement of Expenses in Indian Rupees:** The Institute will reimburse the expenses in Indian Rupees related to custom duty, custom clearance charges, transportation charges upto RGIPT, Jais, Amethi to the Indian Counterpart after the installation and commissioning of equipment at site (Upto maximum limit defined in the bid) i.e Rajiv Gandhi Institute of Petroleum Technology, Jais, Amethi – 229304 and subject to submission of original bill certified by the Indenter.

10. **Clearance and delivery:** On arrival of shipment/consignment, the supplier is required to arrange custom clearance and transportation of the consignment up to RGIPT, Jais, Amethi premises. The Tenderer/ bidder will do all types of clearance work and formalities to deliver/provide the equipment at the site of installation. The expenses incurred will be reimbursed on actual basis not exceeding the quoted amount. Institute will provide all types of documentary support including Customs Duty exemption certificate. The custom duty, custom clearance charges, transportation charges etc. will be reimbursed in Indian Rupees on subject of submission of documentary proof. This may be included in your quotation as a separate item. Principals will themselves have to procure any requisite permission from the Govt. of country of origin of equipment.

11. **Part Shipment not allowed:** Part Shipment will NOT be allowed.

12. **Insurance:** For delivery of goods at the purchaser's premises, the insurance shall be obtained by the supplier in an amount equal to 110% of the value of the goods from "warehouse to warehouse" (final destinations) on "All Risks" basis including War Risks and Strikes. The insurance shall be valid for a period of not less than 3 months after installation and commissioning. If orders placed on CIF/CIP basis, the insurance should be up to RGIPT, Jais, Amethi.

13. **Bank Charges:** All the bank charges within India will be borne by the Institute and outside India will be borne by the Supplier.

14. **Site Preparation:** The supplier shall inform to the Institute about the site preparation, if any, needed for the installation of equipment, immediately after the receipt of the purchase order. The supplier must provide complete details regarding space and all the other infrastructural requirements needed for the equipment, which the Institute should arrange before the arrival of the equipment to ensure its timely installation and smooth operation thereafter. The supplier shall visit the Institute and see the site where the equipment is to be installed and may offer his advice and render assistance to the Institute in the preparation of the site and other pre-installation requirements.
15. **Resolution of Disputes:** The dispute resolution mechanism to be applied pursuant shall be as follows:
- i. In case of Dispute or difference arising between the Purchaser and a domestic supplier relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Indian Arbitration & Conciliation Act, 1996, the rules there under and any statutory modifications or re-enactments thereof shall apply to the arbitration proceedings. The dispute shall be referred to The Director, Rajiv Gandhi Institute of Petroleum Technology, Jais, Amethi and if he is unable or unwilling to act, to the sole arbitration of some other person appointed by him willing to act as such Arbitrator. The award of the arbitrator so appointed shall be final, conclusive and binding on all parties to this order.
  - ii. In the case of a dispute between the purchaser and a Foreign Supplier, the dispute shall be settled by arbitration in accordance with provision of sub-clause (a) above. But if this is not acceptable to the supplier then the dispute shall be settled in accordance with provisions of UNCITRAL (United Nations Commission on International Trade Law) Arbitration Rules.  
The venue of the arbitration shall be the place from where the order is issued.
16. Live working product Demo of same or similar item is necessary (at the cost of bidder) for all the bidders, if asked for, within the ONE week of opening the technical bid.
17. **Printed Conditions of the Company – Not Acceptable to the Institute:** RGIPT does not accept the printed conditions of any Tenderer. It will be ignored without any reference; hence tenderers should withdraw such printed conditions if they have any. RGIPT shall accept only unconditional tender.
18. **Technical Deviations – Sole discretion of RGIPT for consideration:** If technical deviations furnished by the Tenderer are not agreeable to RGIPT, the offers may be ignored. However it will be solely at discretion of RGIPT to consider the technical deviations OR not for considering the Tenderer. No correspondences of the Tenderer will be entertained in this matter.
19. **Price Validity:** The price quoted by the bidder shall remain valid till the supply is completed. During the tenure of the supply period, no price increase will be considered, except for change in statutory levies imposed by Centre Govt. / state Govt. or Local authorities.
20. **Warranty:** As specified in the Technical Specification.
21. **Delivery:** The timely delivery of “Solar Panel with Accessories” is the essence of contract. The supply should be completed with the specified delivery. Delivery shall be completed must be supplied within 16 weeks from the date of opening of LC (For Foreign Manufacturer) & 16 weeks from the date of placement of purchase order (For Indian Manufacturer).
22. **Bid Acceptance and Rejection:**
- a. RGIPT reserves the right to reject the bid without assigning any reason whatsoever.

- b. RGIPT does not bind itself to accept the lowest or any quotation and reserves the right to reject any or all without assigning any reason.

23. **Late Receipt of Bids**: No bids will be accepted or considered after the due date and time.
24. **Liquidity Damage Clause**: RGIPT, Jais reserves the right to levy penalty @ of 0.5 % of order value per week of delay in supply and /or installation, beyond the schedule as mentioned in this tender document subject to maximum of 5% of the order value. RGIPT, Jais reserves the right to cancel the order in case the delay is more than 06 weeks. The delay in delivery and/or installation not attributed to supplier viz. delay in site preparation, delay in submission of required documents etc. and the conditions arising out of Force Majeure will not be considered for the purpose of calculating penalties.
25. **Ship to**  
Prof. (Dr.) A.S.K. Sinha  
Chairman,  
PCRA Project purchase committee  
Rajiv Gandhi Institute of Petroleum Technology  
Ground Floor, Administrative Building  
Mubarakpur, Mukhetia More, Bahdupur  
POST: Harbanshganj, Jais, Amethi – 229304 Uttar Pradesh
26. **Withdrawal of Tender**: The Institute reserves the right to withdraw the tender at any stage of tendering process with the approval of the Competent Authority.
27. **Replacements of Goods Broken, Damaged or Short**: If whole or part of the goods/equipment supplied against the order is found defective/non-functional or without specification the supplier will have to replace the defective goods/equipment to make equipment operational within a reasonable time (not exceeding two months from the date of intimation to the supplier or the Indian Agent), failure to which the supplier will have to refund the full cost of the equipment including freight, Insurance etc.
28. **Force Majeure**: RGIPT, Jais may consider relaxing the penalty and delivery requirements, as specified in this document, if and to the extent that, the delay in performance or other failure to perform its obligations under the contract is the result of a Force Majeure. Force Majeure is defined as an event of effect that cannot reasonably be anticipated such as acts of God (like earthquakes, floods, storms etc.), acts of states / state agencies, the direct and indirect consequences of wars (declared or undeclared), hostilities, national emergencies, civil commotion and strikes at successful Bidder's premises or any other act beyond control of the bidder.
29. **Arbitration**: All disputes/claims of any kind arising out of supply, commissioning, acceptance, warranty maintenance etc. under this Contract, shall be referred by either party (RGIPT, Jais or the bidder) after issuance of 30 days' notice in writing to the other party clearly mentioning the nature of dispute to the Sole Arbitrator appointed by RGIPT, Jais. The arbitration proceedings shall be conducting in English and as per the provisions of Indian Arbitration and Conciliation Act, 1996. The decision of the Arbitrator shall be final and binding on both the parties.
30. **Jurisdiction**: The disputes, legal matters, court matters, if any shall be subject to Raebareli/ Amethi jurisdiction only.
31. A bid submitted with false information will not only be rejected but the vendor may also be debarred for participation in future tendering processes.

32. Authorized representative may choose to be present at the time of opening of quotation at their own cost.
33. **Only one PRICE BID should be submitted for the above equipment. A bidder who submits more than one PRICE BID, shall be disqualified and considered non-responsive.**

Project purchase committee

**TECHNICAL SPECIFICATIONS COMPLIANCE STATEMENT**

Online Tenders from reputed Original Equipment Manufacturers/ Authorized Dealers for procurement of **Solar Panel with Accessories**

are invited by the Rajiv Gandhi Institute of Petroleum Technology, Amethi- 229304 in **Two-Part Bid System** as per specifications mentioned below:

**Please mention the brand and model no. & name of the equipment**

Sr No.	Quantity	Description
1	01	<p><b>Solar Photovoltaic thermal (PVT) System</b></p> <p><b>1. Semi-Transparent (Glass to Glass) Photovoltaic thermal (PVT) Modules</b></p> <p>1.1 The c-Si PVT module with a minimum capacity of 250 Wp each, with an effective area of about approx. 2m<sup>2</sup> Packing factor should be less than 1. Total minimum Capacity should not be less than 1000Wp. The module type be qualified as per IEC 61215 or any other latest edition for crystalline silicon. SPV module conversion efficiency should be equal to or greater than 15% under STC. Modules must qualify to IEC 61730 Part I and II for safety qualification testing.</p> <p>1.2 The PVT module shall perform satisfactorily in humidity up to 100% with a temperature between 05 °C to 80 °C.</p> <p>1.3 The predicted electrical degradation at the end of the period of 5 years shall not be more than ten (10) per cent of the full rated original output.</p> <p>1.4 Other general requirement for the PVT modules and subsystems shall be the following:</p> <p>a) The peak-power point voltage and the peak-power point current of any supplied module and/or any module string (series connected modules) shall not vary more than 3% from the respective arithmetic means for all modules and/or for all module strings, as the case may be.</p> <p>b) Except where specified, the front module surface shall consist of impact resistant, low-iron and high-transmission toughened glass of international standards quality.</p> <p>c) The module frame, if any, shall be made of MS duly painted/Aluminium electro plating which shall be used for mounting the modules. The structure should be so designed and durable to withstand for at least 5 years without corrosion and damage.</p> <p>d) The module shall be provided with a junction box with either provision of external screw terminal connection or sealed type and with arrangement for provision of by-pass diode. The box shall have hinged, weatherproof lid with captive screws and cable gland entry points or may be of sealed type and IP65 rated.</p> <p>e) PVT modules should have maximum 10% degradation in performance/output over 2 years.</p> <p>f) The PVT module (packing factor approximately 0.8) must have 2 years warranty against material defect or craftsmanship.</p>

g) Each PVT module to be used is desired to have RFID. The following information must be mentioned in RFID to be used on each module: -

## **2. Flat Plate Structure for Semi-Transparent PVT module**

- 2.1 Flat plate structure for semi-transparent PVT module will be similar to those of conventional flat plate collector.
- 2.2 Structural material shall be MS duly primer and painted, nuts and bolts. Structures shall be supplied complete with all members to be compatible for allowing easy installation at the rooftop site.
- 2.3 The structures should be of suitable size to hold PVT modules and properly designed to allow easy replacement of any module.
- 2.4 Structure shall have fixed angle of inclination to the horizontal as per the site conditions.
- 2.5 Each PVT module frame structure shall be so fabricated as to be fixed on the roof top. The structure should be capable of withstanding a minimum wind load of 160 km/hr after grouting & installation or better. Grouting material for SPVT structure shall be as per M15 (1:2:4) concrete specification
- 2.6 The structures shall be designed for simple mechanical and electrical installation. There shall be no requirement of welding or complex machinery at the installation site. If prior civil work or support platform is essential to install the structures, the supplier shall clearly and unambiguously communicate such requirements along with their specifications in the bid. Detailed engineering drawings and instructions for such prior civil work shall be carried out prior to the supply of Goods. It may be mentioned that the roof should not have any damage because of installation.
- 2.7 The supplier shall specify installation details of the Semi-transparent PVT modules and the support structures with appropriate diagrams and drawings. Such details shall include, but not limited to, the following;
  - a) Determination of true south at the site.
  - b) PVT module connected in series with tilt angle equal to latitude (26.1541°) with the horizontal, with permitted tolerance.
  - c) Details with drawings for fixing the modules with flat plate collector structure.
  - d) Details with drawings of fixing the junction/terminal boxes.
  - e) Interconnection details inside the junction/terminal boxes.
  - f) Structure installation details and drawings.
  - g) Electrical grounding (earthing).
  - h) Inter-panel/Inter-row distances with allowed tolerances and
  - i) Safety precautions to be taken.

The array structure shall support SPVT modules at a given orientation and absorb and transfer the mechanical loads to the rooftop columns properly. All nuts and bolts shall be of very good quality stainless steel.

**3. Absorber:** Absorber shall consist of riser, header and absorber sheet. The diameter of riser shall be 12.7 mm  $\pm$  0.5 mm and made of copper only. An even spacing is requested between each raiser. Absorber sheet shall be made of copper. Collector box insulation shall be provided at back and sides. Insulating material used for the setup should be made up of CFC free PUF or thick rockwool.

**4. Assembly of collectors:** The load of the absorber should not be on the



insulation. It should be taken by the collector box. Glazing shall be fixed on the collector box by using EPDM/Neoprene/Synthetic rubber channels. A typical example is by retaining the glazing with the help of self-tapping screws and aluminum angle retainer fixed on the top of the box it shall ensure that the screws are not touching the glass edge.

**5. Gasket for flanges:** - 3 mm thick gasket of Neoprene/synthetic rubber gasket shall be used for sealing the joints between flanges.

**6. Collector support frame:** - The structure should be in a position of withstand a wind velocity of 160 km/hr shall be made with firm angle Iron will have vertical support at top and bottom edge of the inclined plane of the collector.

**7. Array Junction Box, Main Junction Boxes:**

The junction boxes are to be provided in the PVT yard for termination of connecting cables. The J. Boxes shall be made of FRP/Powder Coated Aluminum with full dust, water & vermin proof arrangement. All wires/cables must be terminated through cable lugs. The Junction Boxes shall be such that input & output termination can be made through suitable cable glands.

Provision of Copper bus bars/terminal blocks housed in the junction box with suitable termination threads. Provision of Hinged door with EPDM rubber gasket to prevent water entry. Single compression cable glands and Provision of earthing. Suitable capacity MOVs should be provided within the box to protect against lightning

**8. DC Distribution Board**

DC distribution panel to receive the DC output from the array field with analog measurement meter for voltage, current and power from different MJBs so as to check any failure in the array field. DC DPBs shall have sheet from enclosure of dust & vermin proof.

**9. AC Distribution Panel Board**

AC Distribution Panel Board (DPB) shall control the AC power from PCU and should have necessary surge arrestors. Interconnection from ACDB to mains at LT Bus bar to be carried out and complete equipment along with metering to be installed in the ACDB. Requirement/specifications of DCDB and ACDB may be changed as per site conditions. All switches at the circuit breakers, connectors should confirm to IEC 60947, part I, II and III and all electrical components shall be as per relevant IS and IS marked wherever available.

**10. Metering scheme**

Metering arrangement and LT Connectivity should be in conformity with the CEA (Installation and Operation of meters) Regulations 2006 and OERC order dated 26.11.2014 on "Metering/Bi-directional Metering and their connectivity with respect to roof top solar PVT projects" and subsequent amendments.

**11. Battery**

11.1 VRLA type

11.2 The battery(s) will have a minimum rating of 12V 135 Ah at C/10 rate of discharge. The voltage of battery may be selected according to the

PCU design.

- 11.3 75% of the rated capacity of the battery should be between fully charged & load cut off conditions.
- 11.4 Battery should conform to the latest BIS/ International standards. A copy of the relevant test certificate for the battery should be furnished.
- 11.5 The battery should be warranted for minimum 3 years
- 11.6 The battery should be installed inside the premises of consumers on a Battery rack of acid resistant material to bear the required battery load. The non-reactive acid proof mat should be provided around the floor space of battery bank
- 11.7 The capacity of battery bank should be for 4 hr backup. The voltage of battery may be selected according to the PCU design. The batteries should conform to IS 1651 / IS 13369/ International standards. Capacity of the battery bank shall not be less than as specified above at C10 rate.

## 12. PCU/ Inverter

The power conditioner unit/ central inverter should be provided to convert DC power produced by PVT modules, in to AC power. The power conditioning unit/inverter should be Off-Grid type. Typical technical features of the inverter shall be as follows:

Power conditioning unit with inbuilt charge controller of capacity & ratings as specified in the below for various capacity of Solar Power Plants should convert DC power in to AC power, must confirm to standards IEC 61683.

The PCU will have the following features:

- MOSFET / IGBT based MPPT charging
- Wide input voltage range
- Output voltage 230 V+ 2% of modified/ pure sine wave for single phase PCU & 440 V + 2%. for three phase PCU
- Output frequency: 50 Hz+0.5 Hz
- Capacity of PCU/ Inverter is specified at 0.8 lagging power factor
- Ambient Temp 50 degree Celsius (max.)
- Operating humidity 95% maximum

### Protections

Over voltage (automatic shutdown), Under voltage (automatic shutdown), Overload, Short circuit (circuit breaker & electronics protection against sustained fault), Over Temperature and Battery, PVT reverse polarity

### Indicators

Array on, MPPT charger on, Battery connected, charging, Inverter ON, Load on solar/ battery, Grid charger on, Load on Grid and Grid on

### Display Parameters

Charging current, Charging voltage, Voltage of PVT panels, Output voltage, Grid voltage, Inverter loading (kW) & Energy Generation (kWh) and Output frequency

- Cooling: Air Cooled
- When battery bank is fully charged, the PCU should have the feature to feed the power generated from solar to load and draw the additional power from main supply to meet the load requirements in the case load is more than solar energy produced.

- The PCU/ inverters should be tested from the MNRE approved test centres / NABL /BIS accredited testing- calibration laboratories. In case of imported power conditioning units, these should be approved by international test houses.

### **13. Cable and wires**

13.1 Cabling in the yard and control room: Cabling in the yard shall be carried out as per IE Rules. All other cabling above ground should be suitably mounted on cable trays with proper covers.

13.2 Wires: Only FRLS copper wires of appropriate size and of reputed make with IS mark shall have to be used.

13.3 Cables Ends: All connections are to be made through suitable cable /lug/terminals; Cable Marking: All cable/wires are to be marked in proper manner by good quality ferule or by other means so that the cable can be easily identified.

13.4 Any change in cabling schedule/sizes if desired by the bidder/supplier be got approved after citing appropriate reasons. All cable schedules/layout drawings have to be got approved prior to installation. All cable tests and measurement methods should confirm to IEC 60189.

#### **13.5 Cable Specifications:**

- Multi strand, annealed high conductivity copper conductor
- PVC type 'A' pressure extruded insulation
- Overall PVC insulation for UV protection and confirm to IEC 69947
- Armored cable for underground laying
- All cables shall conform to BIS standards (IS 694) and (IS 1554)
- The size of each type of cable selected shall be based on minimum voltage drop, however, the maximum drop shall be limited to 2%
- Selected cable should carry a current density of minimum 1.2Amp/Sq.mm

#### **13.6 Laying of Cables**

- All electrical cables/ wires inside the building to be fixed in accordance with specifications for electrical works.
- Proper laying of cables have to be ensured in appropriate cable trays, pipes / trenches as per site requirement.
- A.C. supply cables to be terminated at the DB / LT bus bar.
- For laying/termination of cables, latest BIS / IEC codes/standards be followed.

### **14. Lightning and Over Voltage Protection:**

The SPVT Power Plant should be provided with Lightning and over voltage protection. The aim is to reduce the over voltage to a tolerable value before it reaches the PVT or other subsystem component. There shall be the required number of suitable Lightning Arrestors (LAs) installed in the array field. Lightning protection shall be provided by the use of metal oxide varistors and suitable earthing such that induced transients find an alternate route to earth. Protection shall meet the safety rules as per Indian Electricity Act / CEA (Measures relating to Safety and Electric Supply) Regulations 2010. Necessary foundation for holding the LAs is to be arranged keeping in view the wind speed of the site and flexibility in maintenance in future. Each LA shall have to be earthed.

### **15. Danger Boards:**

Danger boards should be provided as and where necessary as per IE Rule/ CEA (Measures relating to Safety and Electric Supply) Regulations 2010 as amended up to date.

	<p><b>16. Provision of Training:</b> Necessary training may be provided for day-to-day trouble shooting of the SPVT power plant.</p> <p><b>17. Drawings &amp; Manuals</b> Copies of Engineering, electrical drawings and Installation and O&amp;M manuals in two complete sets are to be supplied. Bidders shall provide complete technical data sheets for each equipment giving details of the specifications along with make/makes in their bid along with basic design of the power plant, power evacuation, synchronization along with protection equipment. Approved ISI and reputed makes for equipment be used. For complete electro-mechanical works, bidders shall supply complete design, details and drawings for approval to OERC before progressing with the installation work. However, at tendering stage, the supplier may furnish only preliminary design &amp; drawing for evaluation purposes.</p> <p><b>18. Any other equipment required to complete the installation:</b> Any other equipment's as required to complete the installation and make the SPVT power plant run efficiently shall be provided even if not included herein and at no extra cost.</p>
	<p><b>Specification of various components of solar water heating system –Flat Plate collector (1000 lpd)</b></p> <p><b>A. Solar flat plate collector components:</b> Solar flat plate collector made of copper Absorber sheet and copper riser and header tube. Collector should be BIS approved.</p> <p><b>B. Solar flat plate collector:</b> Solar flat plate collector shall conform to IS 12933 (part 1) with admit no. 1 and 2. And IS: 12933 (part 2)/2003 and various component shall be as under:-</p> <ol style="list-style-type: none"> <li>1. Cover plate: cover plate shall be toughened glass and thickness of 4.0 mm (min) conforming to section 1 of IS: 12933 (pt-2)/2003 the solar transmittance of the cover plate shall be minimum 85percentage at near normal incidence.</li> <li>2. Collector box: collector box shall be made of aluminum section only grade, size, workmanship and finish of the material used shall be as per section-2 of IS: 12933 (pt-2)/2003.</li> <li>3. A total of twelve nos. collectors is to be installed to heat the 1000 liter water (each collectors should have area of 2 m<sup>2</sup> (Approx)).</li> </ol> <p><b>C. Absorber:</b> Absorber shall consist of riser, header and sheet for absorber. The diameter of riser shall be 12.7 mm ± 0.5 mm and made of copper only. An even spacing is requested between each raiser. Sheet for absorber shall be made of copper. Collector box insulation shall be provided at back and sides. Insulating material used for the setup should be made up of CFC free PUF or thick rockwool. In case of higher density insulation, the thickness may reduce proportionately. Collector box insulation shall conform to sec. 4 of IS 12933 (pt –2) / 2003.</p> <p><b>D. Assembly of collectors:</b> The load of the absorber should not be on the insulation. It should be taken by the collector box. Insulation should not be allowed to slide. Glazing shall be fixed on the collector box by using EPDM/Neoprene/Synthetic rubber channels the glass should be finny held, without Stain taking into account the expansions of glass. A typical example is by retaining the glazing with the help of self-tapping screws and aluminum</p>

angle retainer fixed on the top of the box it shall ensure that the screws are not touching the glass edge.

**E. Gasket for flanges:** - 3 mm thick gasket of Neoprene/synthetic rubber gasket shall be used for sealing the joints between flanges.

**F. Collector support frame:** - The structure should be in a position of withstand a wind velocity of 100 km/hr. And shall be made with firm angle Iron will have vertical support at top and bottom edge of the inclined plane of the collector. The vertical support shall be firmly grouted with the roof.

**G. Storage tank (Vertical, 1000 Liter capacity) :-**

- 1) Material -Stainless Steel (SS 304) / MS. All sockets/ internal flanges of the tanks should be of stainless steel .
- 2) Thickness:- Minimum thickness 1.5mmSS /5 mm for MS
- 3) Insulation and installation:- Insulation to withstand a temperature of 100 °C should be used. Thermal insulation of storage tank (100mm thick Rockwool/glasswool) to avoid heat losses. Aluminum sheet of thickness 24 SWG shall be used for cladding the tank insulation. The storage tank shall be properly installed at site using enameled coated appropriate size angle iron stands, girder, cement concrete pedestals or any other specific provision suitable to site. The external of the tank should be properly insulated so that hot water temperature does not decrease by more than 5 degrees Celsius in about 16 hrs. time. In case of higher density insulation, the thickness may reduce proportionately.
- 4) SS/MS Heat Exchanger shall be provided for maximum heat transfer.

**H. Piping:-** Material Medium class (B class) GI as per IS 1239 shall be used for piping with proper insulation.

**I. Valves/nipple/tees/bends:** - Gun metal valve, air vent valve, air release valves (ISI marked) shall be used. Nipple/tees and bends (ISI marked) of medium class GI (B class) shall be used.

**J. Instrumentation:** Temperature gauge 3 nos. (for Hot Water Storage Tank), Water meter - 1 no., Pump - 1 no. (0.5 Hp single phase motor capacity) is to be used for pumping the water through the system sufficient for a system up to 1000 lpd. Capacity

**K. CPVC Pipe** with proper insulation and clamping 400 feet for distribution of hot water.

**L. Make up tank:** The makeup tank should be made of SS304 minimum 0.8 mm thick of appropriate capacity.

**M. Operation manual:** An Operation, Instruction and Maintenance Manual, in English should be provided with the Solar Water Heater and all necessary details of the system related to proper operation and maintenance. Details of electrical wiring and circuit/ connection diagrams of the installed system will also be provided with the manual

**Note:** The overall quality of the model quoted will be evaluated during Technical Evaluation





**Place:**

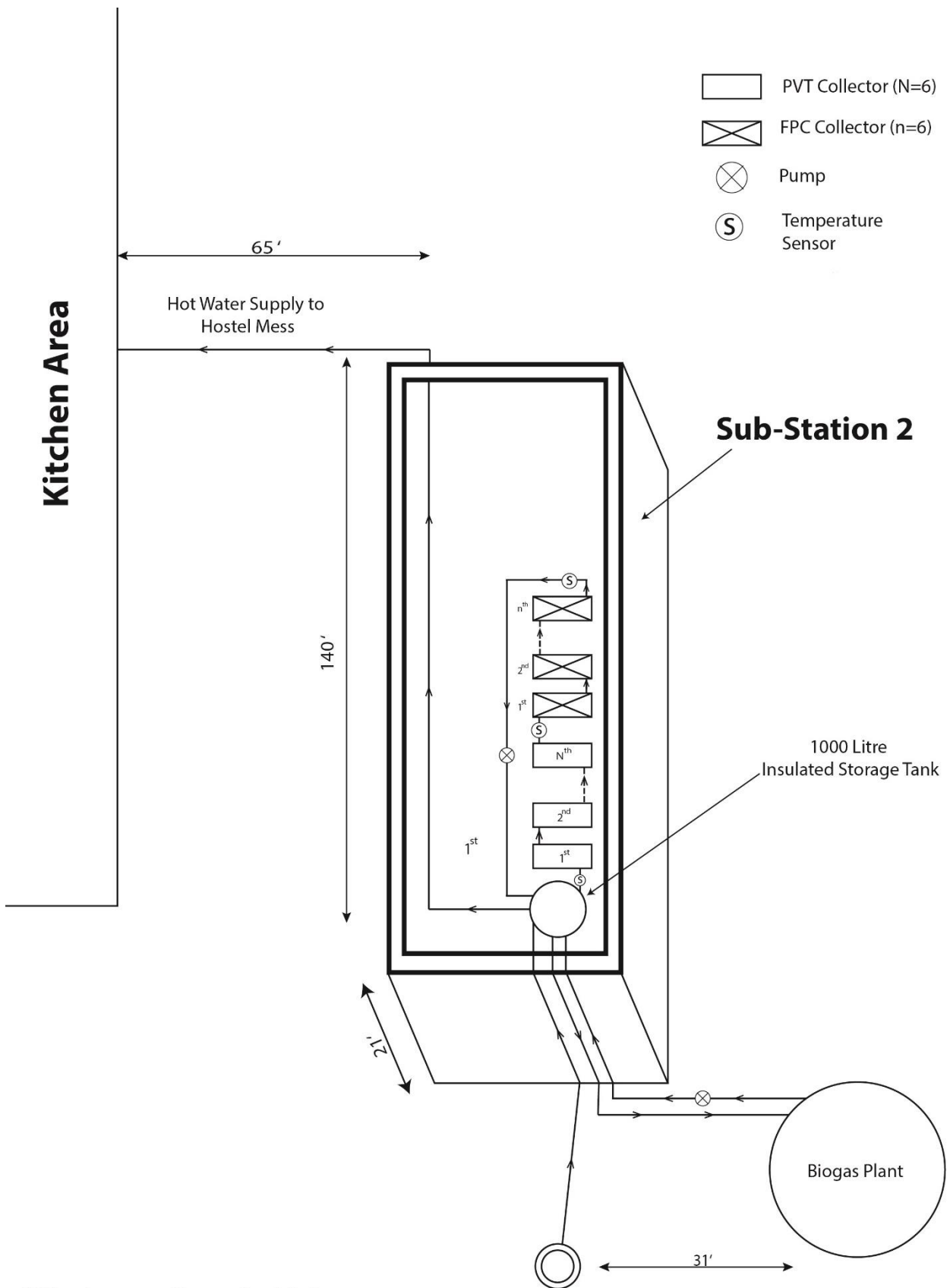
**Date:**

**Signature and seal of the Manufacturer/ Bidder**

Technical Specifications Compliance Statement of “Solar Panel with Accessories”  
should be submitted as per format given in Annexure – I (On the Company’s Letter Head)

**Kitchen Area**

-  PVT Collector (N=6)
-  FPC Collector (n=6)
-  Pump
-  Temperature Sensor



All the pipe connections are insulated  
Dimension not to scale

**MANUFACTURERS' AUTHORIZATION FORM  
(MAF)(ON THE LETTER HEAD OF THE  
COMPANY)**

[NOTE: The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be **on the letterhead of the Manufacturer** and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer. It should be included by the Bidder in its bid]

No. Dated

Date: [insert date (as day, month, and year) of Bid Submission]

Tender No.: [insert number from Invitation for Bids]

To  
The Director  
Rajiv Gandhi Institute of Petroleum Technology  
Mubarakpur, Mukhtia, Bahadurpur  
POST: Harbanshganj, Jais, Amethi - 229304

WHEREAS

We [insert complete name of Manufacturer], who are official manufacturers of [insert type of goods manufactured], having factories at [insert full address of Manufacturers factories], do hereby authorize [insert complete name of Bidder] to submit a bid the purpose of which is to provide the following Goods, manufactured by us [insert name and or brief description of the Goods], and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with the General Conditions of Contract, with respect to the Goods offered by the above firm.

**Signed:** [insert signature(s) of authorized representative(s) of the Manufacturer] **Name:**

[insert complete name(s) of authorized representative(s) of the Manufacturer]

**Title/Designation:** [insert title]

**Duly authorized to sign this Authorization on behalf of:** [insert complete name of Bidder]

Dated on \_\_\_\_ day of, \_\_\_\_\_, \_\_\_\_\_ [insert date of signing]

Yours faithfully,

(Name of manufacturers)

**OR**

**SELF DECLARATION OF MANUFACTURING UNIT**



**PRICE REASONABILITY CERTIFICATE**  
**(ON THE LETTER HEAD OF THE COMPANY)**

It is certified that the rates quoted against Tender No. .... Dated .....for the items vide our bid No.

..... dated .....are exclusively for supply to ACADEMIC and RESEARCH Institutions and are not more than as charged to other Govt./PSU's for similar supplies made in recent past. If they have been approved by the Director, RGIPT and if at any stage it has been found that the quoted rates are higher than the rates applicable to supply to Government then in such condition RGIPT, Amethi, will have the right to cancel the approved rates and to take legal action against the tenderer.

Yours faithfully,

(Name of manufacturers)

(Signature with date)

(Name and designation)

Duly authorized to sign tender for and on behalf of

**DECLARATION (ACCEPTANCE OF TERMS & CONDITIONS)**  
**(ON THE LETTER HEAD OF THE COMPANY)**

1. I, ..... Son/Daughter of Shri  
.....  
Proprietor/ Partner/CEO/MD/Director/Authorized Signatory of M/s  
..... am competent to sign this tender document.
2. I have carefully read and understood all the terms and conditions of the tender and hereby convey my acceptance of the same.
3. The information/ documents furnished along with the above application are true and authentic to the best of my knowledge and belief.
4. I/ we/ am are well aware of the fact that furnishing of any false information/ fabricated document would lead to rejection of my tender at any stage besides liabilities towards prosecution under appropriate law.
5. Each page of the tender document and papers submitted by my Company is authenticated, sealed and signed, and I take full responsibility for the entire documents submitted.

Date: -----

-----

Place: -----

Signature of the Authorized Person

Full Name: -----

Company Seal: -----

### DECLARATION SHEET

We, \_\_\_\_\_ hereby certify that all the information and data furnished by our organization with regard to this tender specification are true and complete to the best of our knowledge. I have gone through the specification, conditions and stipulations in details and agree to comply with the requirements and intent of specification.

This is certified that our organization has been authorized (Copy attached) by the OEM to participate in Tender. We further certified that our organization meets all the conditions of eligibility criteria laid down in this tender document. Moreover, OEM has agreed to support on regular basis with technology / product updates and extend support for the warranty.

The prices quoted in the financial bids are subsidized due to academic discount given to RGIPT, Jais, Amethi.

We, further specifically certify that our organization has not been Black- Listed/ De Listed or put to any Holiday by any Institutional Agency/ Govt. Department/ Public Sector Undertaking in the last three years.	
1. Phone	
2. Fax	
3. E-mail	
4. Contact Person Name	
5. Mobile Number	
6. TIN Number	
7. PAN Number	
8. (In case of on-line payment of TenderFees) UTR No. (For Tender Fee)	
9. (In case of on-line payment of EMD)UTR No. (For EMD)	
10. Kindly provide bank details of thebidder in the following format: a) Name of the Bank	
b) Account Number	
c) Kindly attach scanned copy of one Cheque book page to enable us to return the EMD to unsuccessful bidder	

(Signature of the Tenderer)  
Name:

Seal of the Company

**NON-BLACKLISTING DECLARATION**

It has been certified that all information provided in tender form is true and correct to the best of my knowledge and belief. No forged / tampered document(s) are produced with tender form for gaining unlawful advantage. We understand that RGIPT, Amethi is authorized to make enquiry to establish the facts claimed and obtain confidential reports from clients.

In case it is established that any information provided by us is false / misleading or in the circumstances where it is found that we have made any wrong claims, we are liable for forfeiture of EMD and or any penal action and other damages including withdrawal of all work/purchase orders being executed by us. **Further RGIPT, Amethi is also authorized to blacklist our firm/company/agency and debar us in participating in any tender/bid in future.**

I / We assure the Institute that neither I / We nor any of my / our workers will do any act/s which is improper / illegal during the execution in case the tender is awarded to us.

Neither I/We nor anybody on my/our behalf will indulge in any corrupt activities/practices in my/our dealing with the Institute.

**Our Firm/Company/Agency is not been blacklisted or banned by any Central Government Department/ State Government Department, PSU, University, Autonomous Institute or Any other Govt. Organization.**

Date

Signature of the Tenderer

Place  
Stamp

**Note: This certificate should be executed on duly notarized ` 100/- Non Judicial Stamp Paper.**

**List of Govt. Organization/Department/Institutes**

<b>List of Government Organization/Department/Institutes for whom the Bidder has undertaken such work during last three years (must be supported with work orders)</b>		
<b>Name of the Organization</b>	<b>Name of Contact Person</b>	<b>Contact No.</b>

(Signature of the Tenderer)

Name:

Seal of the Company



## RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY

### FINANCIAL BID

#### **For Exemptions:-**

1. For Customs duty exemption in terms of Govt. Notification No. 51/96- Customs dated 23.07.1996 & 28/03 Customs dated 01.03.2003 and Central Excise duty Exemption in terms of govt. Notification No. 10/97- Central Excise dated 01.03.1997 & 28/13- Central Excise dated 01.10.2013.  
Institute DSIR Notification No. TU/V/RG-CDE (1083)/2021 dated: 09.09.2021 Valid up to 31.08.2026
2. For GST Exemption Notification No. 47/2017- Integrated tax (Rate).

**The Company can bid in Foreign Currency or Indian Currency In  
the given format**

**FINANCIAL BID – Procurement of Solar Panel with Accessories**

**(To be filled in BoQ Format on CPP Portal)**

**A. Financial Bid in Indian Currency (For indigenous equipment) :**

**I. Name of the Bidder/Tenderer: Name  
& Model No of offered goods:**

**Tender No.:**

<b>Sl. No.</b>	<b>Details</b>	<b>Total Amount (In INR)</b>
1	Basic Cost of <b>Solar Panel with Accessories</b> defined in Technical Specifications Statement of the Tender	
2	Comprehensive Cost of Warranty	
3	<b>Add:</b> Packing & Forwarding Charges, If any	
4	<b>Add:</b> Installation & Commissioning Charges, if any	
5	<b>Add:</b> Transportation Charges up to RGIPT, Jais, Amethi, if any	
6	<b>Add:</b> GST (Taxes)	
<b>Total Price (Sum of Sl. No 1 to 6) F.O.R RGIPT, Jais, Amethi Price</b>		

**Note: The Institute will provide DSIR & GST Exemption Certificate.**

**II. For Local Supplies -**

<b>Sl. No.</b>	<b>Details</b>	<b>Total Amount (In INR)</b>
1	Cost of <b>Local Supplies</b> defined in Technical Specifications Statement of the Tender Document (Please mention the items)	
2	<b>Add:</b> Packing & Forwarding Charges, If any	
3	<b>Add:</b> Installation & Commissioning Charges, if any	
4	<b>Add:</b> Transportation Charges up to RGIPT, Jais, Amethi, if any	
5	<b>Add:</b> Cost of Warranty	
6	<b>Add:</b> GST (Taxes)	
<b>Total Price (Sum of Sl. No 1 to 6) F.O.R RGIPT, Jais, Amethi Price</b>		

- I. Total Bid price in Indian Currency (Equipment Cost with accessories):  
.....In words.....
- II. Total Bid price in Indian currency (Local Supplies): .....  
In words:.....

**Grand Total (I + II) = .....**  
**In words: .....**

- a) Indian Agents Name & Address  
b) The cost of optional items shall be indicated separately  
c) In case the price quoted in Foreign Currency (Other than INR), for the purpose of comparison the Exchange Rate prevailing on the date of opening of Financial Bid will be considered.

Date  
Place

Signature of the Tenderer

Stamp

I. Total Bid price in **Foreign Currency** (Equipment Cost with accessories):  
.....In words:  
.....

II. Total Bid price in Indian currency (Local Supplies):  
.....In words:  
.....

a) Indian Agents Name & Address

b) The cost of optional items shall be indicated separately

c) In case the price quoted in Foreign Currency (Other than INR), for the purpose of comparison the Exchange Rate prevailing on the date of opening of Financial Bid will be considered.

Date

Signature of the Tenderer

Place

Stamp