Punjab Engineering College (Deemed to be University) Chandigarh Sector 12, Chandigarh 160012



E-tender Document for Purchase of

Solar PV Simulator

SECTION I: INVITATION FOR E - TENDER

- 1. The Punjab Engineering College (Deemed to be University), Chandigarh invites e-bids from eligible bidders for purchase of Solar PV Simulator
- 2. Interested eligible Bidders may obtain further information from EED, Punjab Engineering College (Deemed to be University), Sector 12, Chandigarh-160012, India.
- 3. The bidding document can be downloadable from institute website http://www.pec.ac.in & Chandigarh administration web site http://etenders.chd.nic.in
- 4. All bids must be accompanied by an EMD as specified in the bid document and must be delivered to the office address mentioned below by the date and time indicated below.
- 5. Bids will be opened in the presence of Bidders' representatives who choose to attend on the specified date and time.

TABLE - 1

S.	Name of the Work	EMD	Performance Security
No.			Deposit
	Purchase of Solar PV Simulator AS PER TABLE-3 OF SECTION III		
1		30,000.00	@ 5% of the value of
			the contract

TABLE - 2 Time Schedule

I	Date of publication	
I	Downloading of e-tender document	Start date: 20/01/2020
		End date: 04/02/2020
III	Date of submission of e-tender	Start date: 20/01/2020
		End date: 04/02/2020
IV	Physical submission of EMD	Start date: 20/01/2020
	·	End date: 04/02/2020
V	Opening of Technical Bid (online) and meeting	Date: 05/02/2020
	for scrutiny of technical bid and declaring	
	eligible bidders.	
VI	Opening of Financial Bid of only eligible	To be informed after checking eligibility
	technically qualified bidder as determined by	of Bidders
	the Committee.	
VII	Place of opening of bids	Electrical Engg. Deptt
		Punjab Engineering College (Deemed to
		be University),
		Sector 12, Chandigarh 160012
VIII	Address for communication	Electrical Engg. Deptt Punjab Engineering
		College (Deemed to
		be University),
		Sector 12, Chandigarh 160012

Important Notes:

I.	Bidders shall have to submit their bids on-line in Electronic Format with Digital
	Signatures.
II.	All terms and conditions, instructions to bidder regarding e-tendering process etc. may kindly be seen from the Detailed Notice Inviting Tender (DNIT) available on Chandigarh Administration website (http://etenders.chd.nic.in) or on the Punjab Engineering College (Deemed to be University) institute website (www.pec.ac.in).
III.	The bidder has to submit the original documents in physical form such as EMD, eligibility documents and other desired documents on the date fixed for the same as above. The failure will entail summarily rejection of its tender.
V.	The Director PEC, Chandigarh reserves the rights to reject or accept any or all tenders without assigning any reasons.

Director,Punjab Engineering College (Deemed to be
University), Sector-12, Chandigarh

CHECKLIST FOR TENDER DOCUMENT

S. No.	Checklist Tick	(Yes/No)		
1.	Whether name of the firm/organization & address and telephone/mobile number/fax number on letter pad of the company/firm have been mentioned	Yes/No		
2.	Whether EMD as mentioned in Table-1 of Section I in the shape of Demand draft/ Banker Cheque/ FD/ PBG in favour of Director, PEC University of Technology, payable at Chandigarh has been attached? If yes, DD/B.C Nodatedandname of the Bank)	Yes/No		
3.	Whether Income tax return (Self attested) of the last two assessment years attached?	Yes/No		
4.	Whether Document showing experience of providing similar items in reputed institutes/Departments/College/ research labs etc. in INDIA in last three years and providing satisfactory performance certificate from such institutes/Departments/College/ research labs etc. is attached (Annexure 2.3 of SECTION II).			
5.	Whether Document showing current details of similar equipment's being rendered which will be available for inspection by our officials.(Annexure 2.4 of SECTION II)			
6.	Do you agree to provide 90 days validity of tender as per point 4 of Section-VI?	Yes/No		
7.	Whether attested photocopy of PAN/TAN Card is attached?	Yes/No		
8.	Whether name, address, contact number, designation/capacity of person signing tender document is attached?	Yes/No		
9.	Do you comply the specification and details given in SECTION IV	Yes/No		
10.	Whether attested photocopy of Registration Certificate attached?	Yes/No		
11.	Whether Affidavit of not being Black Listed has been attached? (Annexure 2.2 of SECTION II)	Yes/No		
12.	Covering letter (Annexure 2.1 of SECTION II) is attached	Yes/No		
13	Do you agree to provide the equipment in 50 days from the date of supply order?	Yes/No		
14.	Do you agree that no advance payment will be made by the PEC in view of condition No. 7 of SECTION-VI?	Yes/No		
15	Do you agree to provide the items F.O.R. Punjab Engineering College (Deemed to be University) Sector-12, Chandigarh?	Yes/No		
16	The Annual turnover of the company for the last three years is Rs. 1 Crore?	Yes/No		
17	Rate Reasonability Certificate for the current FY attached?	Yes/No		
18	Proprietary Certificate (if applicable) is attached?	Yes/No		
19	Authorization Certificate (if applicable) is attached?	Yes/No		

Place:	Signature of Tenderer
Dated:	Full Name of the Tenderer
Address:	

PUNJAB ENGINEERING COLLEGE (DEEMED TO BE UNIVERSITY), CHANDIGARH SECTION II TERMS AND CONDITIONS OF CONTRACT

1. Qualifications for Tendering: Tenderers should possess the following qualifications:

The Bidder should be either OEM/Authorized service partner of OEM/OEM Dealer

2. Scope of Work

Supply of Solar PV Simulator as per table 3 of section III.

3. Earnest Money Deposit:

- i. Tender have to be accompanied by an Earnest Money Deposit (EMD) of Rs.30,000.00 (Rs. Thirty thousand only) in form of FDR/Demand Draft/Bank Guarantee from any commercial Bank in favor of Director, Punjab Engineering College (Deemed to be University) Chandigarh which shall be valid for 45 days beyond final bid validity period. Tender without earnest money shall be considered unresponsive and rejected.
- ii. Performance security @ 5% of the total value of contract will be obtained from the successful bidder awarded the contract in the shape of Fixed Deposited Receipt or, DD or bank guarantee from a commercial bank which should be valid for period of 60 days beyond the completion of obligations of the supplier including warranty. Performance security is to be forfeited and credited to the institute in the event of breach of contract obligation by supplier in terms of relevant contract.

4. Opening of tenders:

The PEC will open all bids, in the presence of Bidders' representatives who choose to attend, at 12:00 PM on 05/02/2020 and in the following location:

EED

Punjab Engineering College (Deemed to be University) Sector 12 Chandigarh 160012

The Bidders' representatives who are present shall sign a register evidencing their attendance. In the event of date of opening of Tender being declared a holiday, the due date of opening of the Tender will be the next working day at the same hours and venue.

5. An affidavit as per specimen enclosed as Annexure – 2.2 of SECTION II should accompany the tender. The tenderer who has been black-listed or his/her tenders have ever been cancelled or any legal proceedings have ever been initiated/pending or any penalty has ever been levied on account of delay or non-completion of supply order by any State/UT/Central Government, his/her tender will be out rightly rejected. A scanned copy of affidavit shall be uploaded online and in physical form along with EMD.

- **6.** The bidder shall submit the covering letter (Annexure 2.1 of SECTION II) duly signed by the authorized signatory.
- 7. The details of EMD, specified in the tender documents, should be the same as submitted online (scanned copies) otherwise tender will be rejected.
- **8.** The conditional bids shall not be considered and may be rejected out rightly in very first instance.
- **9.** The financial bids through e-tendering of only those bidders shall be opened who will qualify in the technical bid criteria.
- 10. The bidder shall submit Proprietary article certificate of OEM
- 11. The bidder shall submit Rate reasonability certificate to the extent that the rates quoted by the firm are the same and not higher than those quoted with other government, public sector or private organizations during the financial year 2019-20.
- **12.** The bidder shall submit Audited copies of Financial Statements / Balance Sheets for last three financial years i.e. 2016-17, 2017-18 and 2018-19 and shall also submit the ITR for last three years with minimum turnover annually of Rs 50,00,000.
- 13. The bidder shall submit Self-attested copies of PAN/TAN Card/GST.
- 14. The bidder shall submit Authorization certificate from OEM

ANNEXURE – 2.1 From	
	
Subject: Submission of Tender for purchase of Solar PV Simulator	
Dear Sir,	
With reference to your above-mentioned notice inviting tenders, I/We hereby offer to Simulator as per table 3 of section III for Punjab Engineering College (Deemed Chandigarh.	_
I/We shall supply the above said item truly and faithfully as set forth in the terms the tender document. I/We shall be responsible for all complaints as regards to profession of the Director, Punjab Engineering College University), Chandigarh shall be final and binding on me/us. A FDR/DD No Dated drawn on	roduct and in case (Deemed to be
intended for the prescribed amount of Rs.	(Rupees
Only) in favor o	f Director, Punjab
Engineering College (Deemed to be University), Chandigarh, payable at Chandig earnest money as desired.	garh is enclosed as
I/WE shall have no claim to the refund of earnest money / performance security this tender in the event of my/our non-compliance of the contract, provided implemented within the period of validity of my/our tender.	
I/We further understand that my/our earnest money shall stand forfeited in case supply of equipment's/service/violation of any term, or if I/We withdraw my/stage during the period of validity. My/Our tender shall remain valid for a period the last date prescribed for submission of the tender against the above-mentione tender along with terms and conditions with relevant columns and annexure dury/our attestation and with each page of the tender paper including the enconditions signed by me/us (in the capacity of sole owner/general or special att submitted for your favorable consideration.	our tender at any of 120 days from ed notice. My/Our aly filled in under closed terms and orney attached) is
I/We have read the terms and conditions carefully and have signed the same absolute and unqualified acceptance.	e in token of our
Thanking you,	
Place	Yours faithfully,
	Signatures Date with stamp & Full Address

ANNEXURE - 2.2

(To be furnished on non-judicial stamp paper duly attested by the 1st Class Magistrate or Notary Public)

AFFIDAVIT

SECTION III "Technical Bid"

TABLE 3 List of components required

S.No.	Description	Qty.
S.No. 1.	Solar PV Simulator Open Circuit Voltage (Voc): 0-360 V DC Short Circuit Current (Isc): 0-30 A DC Total Output power: 3KW IV curve with minimum number of data points should be 1024 with 16-bit linear interpolation to enerate the required I-V curve accurately. Real time analysis of PV inverter's MPPT tracking & data record Shadow creation through software feature, Dynamic PV Curve simulation through real weather data, EN 50530	Qty.
	& sandia labs data, RS232 and USB interface for PC control & I/O Interfaces, Short Circuit, Over temperature,	
	Over current, Over voltage, Over Power Protection	

ANNEXURE - 2.3

Details of previous similar equipments installed in India

(Attach self-attested photocopies of the work order and original certificate of satisfactory performance):

S	Type of	Date of	Name and Address of	Value of the	Name of the
No.	Equipment	Installation	the Organization with	Equipment (In Rs.)	contact person
			reference letters		& Mobile No
1					
2					
3					
4					

Place:	SIGNATURE OF THE TENDERER
Date:	with stamp

ANNEXURE - 2.4

Details of previous similar equipment(s) (Last three years) installed in India by you and which will be available for inspection by our officials (Attach self-attested photocopies of the work order and original certificate of satisfactory performance):

S	Type of	Date of	Name and	Value of	Name of	Remarks
No.	Equipment	Installation	Address	the	the	
			of the	Equipment	contact	
			Organization	(In Rs.)	person &	
			with		Mobile No.	
			reference			
			letters			
1						
2						
3						
4						

Place:	SIGNATURE OF THE TENDERER		
Date:	with stamp		

PRE-QUALIFING CRITERIA

First cover titled as "Technical Bid" should contain the Self-attested scanned copies of following with consecutive Sr. No.:-

- 1. Name of the firm/organization & address Contact person name and telephone/ Mob. No./Fax. No./ on letter pad of the company/firm.
- 2. Earnest money deposit as mentioned in Point 3 of SECTION II of this tender document.
- 3. Audited copies of Balance sheet Financial Statements for last three financial years i.e. 2016-17, 2017-18 and 2018-19.
- 4. Self-attested copies of PAN/TAN Card.
- 5. OEM Authorization certificate
- 6. Certificate of acceptance of terms & condition of the Tender Document.
- 7. Registration Certificate of the company issued by the competent authority
- 8. Affidavit of not being Black Listed (Affidavit as per Annexure 2.2 of SECTION II)
- 9. Covering letter (Annexure 2.1 of SECTION II)
- 10. Proprietary article certificate of OEM
- 11. Rate reasonability certificate to the extent that the rates quoted by the firm are the same and not higher than those quoted with other government, public sector or private organizations during the financial year 2019-20.
- 12. Income tax return 3 years + minimum turnover (Rs.50,00,000) as decided by the DPC.
- 13. If firm quote NIL charges, the bid shall be treated as unresponsive and will not be considered.
- 14. Document showing experience for providing similar equipment to reputed institutions etc. in last three years.

NOTE: All the above mentioned documents should be duly in order and are essential to qualify at Technical Bid Stage.

SECTION IV

FINANCIAL BID

SECOND COVER TITLED AS "FINANCIAL BID" CONSIST OF

Financial (Price) Bid for purchase of Solar PV Simulator for Punjab Engineering College (Deemed to be University), Sector 12, is to be submitted online in excel sheet provided.

Notes:

- 1. Rate should be quoted in Indian Rupees only exclusive of Taxes/Levies as per Indian law.
- 2. The Institute is registered with the Dept. Of Scientific & Industrial Research (DSIR) for purpose of availing custom duty exemption in terms of Govt. Notification no. 51/96-Customs dated 23.07.1996, Notification no. 47/2017-Integrated Tax (Rate) dt: 14/11/17, Notification no. 45/2017- Central Tax (Rate) dt:- 14/11/17, Notification no. 45/2017- Union Territory dt: 14/11/17 as amended time to time.

FINANCIAL BID

SECOND COVER TITLED AS "FINANCIAL BID" CONSISTS OF

Financial (Price) Bid for Solar PV Simulator to be supplied by the bidder in the Punjab Engineering College (Deemed to be University), Sector 12, and Chandigarh is as follows:

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Tender Inviting Authority: Director, Punjab Engineer	ering College (Deemed to be	University), Chandigar
160012		
Equipment Name:		
Contract No: PEC/CED/		

Bidder Name:

Table -4 Cost of requirement for Solar PV Simulator

5	S.No	Description of Work	Qty	Unit	Total Price excluding Taxes
	1				

- 1. Rates should be quoted in INR excluding taxes.
- 2. The institute is registered with the dept. of Scientific and Industrial Research (DSIR) for purpose of availing custom duty exemption in terms of Government Notification No. 51/96-Customs Dated 23 July 1996, Notification No. 47/2017- Integrated Tax (Rate) 14/11/17, Notification No. 45/2017- Central Tax (Rate) dated 14/11/17, Notification No. 45/2017- U.T. Tax (Rate) dated 14/11/17 as amended from time to time.

Rs. In figures	_
Rs. In words	only)

SECTION VI

GENERAL TERMS AND CONDITIONS

1. Clarification of Bidding Documents

A prospective Bidder requiring any clarification of the bidding documents may notify the PEC in writing or by telex or cable or fax at the PEC's mailing address indicated in the Invitation for Bids. The PEC will respond in writing to any request for clarification of the bidding documents which it receives no later than 15 days prior to the deadline for submission of bids prescribed by the PEC.

2. Amendment of Bidding Documents

At any time prior to the deadline for submission of bids, the PEC may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the bidding documents by amendment.

In order to allow prospective bidders reasonable time in which to take the amendment into account in preparing their bids, the PEC, at its discretion, may extend the deadline for the submission of bids.

3. Language of Bid

The bid prepared by the Bidder, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the PEC, shall be written in English language. Supporting documents and printed literature furnished by the Bidder may be in another language provided they are accompanied by an accurate translation of the relevant passages in the English language in which case, for purposes of interpretation of the Bid, the translation shall govern.

4. Period of Validity of Bids

Bids shall remain valid for 120 days after the deadline for submission of bids prescribed by the PEC. A bid valid for a shorter period shall be rejected by the PEC as non-responsive.

5. Warranty

The entire system shall be in warranty (from OEM) for a period of one year from complete commissioning & handing over the system.

6. Payment

Payment for Goods and Services shall be made in Indian Rupees only as follows:

- 1. On Final Acceptance
- 2. 100 percent of the Contract Price shall be paid on the Successful Installation & Training

The Supplier's request(s) for payment shall be made to the PEC in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and the Services performed, and by documents, submitted and upon fulfillment of other obligations stipulated in the contract.

Payment shall be made in Indian Rupees only.

No advance payment will be made. Payment will be released after satisfactory receipt of goods/material, demonstration/training and installation

8. Documents comprising the Bids

The Bids prepared by the Tenderers shall comprise of following components:

- Bid to be furnished as per the format for technical specifications.
- Technical literature for each product/service, covering full technical specifications.
- Bid prices should be quoted item wise as per format provided in excel sheet only duly signed and complete as per the format.
- Maximum educational discount as could be offered should be mentioned.

9. Cost of Tender

The tenderer shall bear all costs associated with the preparation and submission of its Bid, including the cost of presentation for the purpose of clarification of the bid, if so desired by the

PEC and the PEC will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the Tendering Process.

10. Others Terms and Conditions

- An EMD/ bid security of equipment should be submitted in form of FDR/Demand Draft /Bank Guarantee from any commercial Bank in favor of Director, Punjab Engineering College (Deemed to be University) Chandigarh that shall be valid for 45 days beyond final bid validity period. Tender without earnest money shall be considered unresponsive and rejected.
- A Performance security @ 5% of the total value of contract will have to be deposited by the successful bidder awarded the supply order in form of Fixed Deposited Receipt or Bank Guarantee from a commercial bank which should be valid for 60 days beyond the completion of warranty/contract period.
- Performance Security will be forfeited and credited to the institute (Punjab Engineering College (Deemed to be University), Chandigarh) in the event the supplier does not honor the warranty/contract and other terms and conditions of the tender.
- Please quote delivery period also. It should be less than 30 days from the date of supply order.
- All legal disputes will be subject to Chandigarh Jurisdiction and will be interpreted under Indian Laws.
- The Director Punjab Engineering College (Deemed to be University) reserves to himself the right to reject any or all tenders without assigning any reasons.
- The firm who has been blacklisted by Centre/State Govt/UT/Boards/Corporations/any government authority/Punjab Engineering College (Deemed to be University) are not eligible for the Tender.
- The penalty will be charged @ 0.5% of the total cost of equipment per week till the complete installation of equipment, mentioned in the purchase order if delivery date is extended by the PEC.
- All the rates will be FOR, Punjab Engineering College (Deemed to be University), Chandigarh.
- The institute being a premier Education and Research Institute funded by Chandigarh Administration, discounts as applicable to Research Institute/Educational Institutes may be provided in the Tender.
- The bidders shall not be allowed to change, alter or modify the bids after expiry of the deadlines for the receipts of bids.
- In a tender, either Indian agent on behalf of the Principal/(Original Equipment Manufacturer) OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same tender for the same item/ product.
- If an agent bids on behalf of the Principal/OEM, the same agent shall not bid on behalf of another Principal/OEM in the same tender for the same item/ product.
- Situation in which EMD/Performance security will stand forfeited if a bidder withdraws its bid during the period of bid validity specified by the bidder on the bid form (SECTION VII), and in case of successful bidder, if the bidder fails to supply the software or to furnish performance security in accordance with the tender.

- Bids received after the due date will not be considered.
- In case, any free gift scheme / cash scheme is launched by the company same will be offered by the vender to Punjab Engineering College (Deemed to be University), Chandigarh free of cost. Generally the bid offer will be received /opened on the day as specified in the schedule. If the scheduled date is declared as a holiday, then the tender shall be received / opened on the next working day at the same time.
- The institute has been exempted from custom and central excise duty. Tender validity should be 120 days from the opening of tender.
- All the terms and Conditions of this tender document are acceptable to me /us.

Signature of Bidder

PERFORMANCE SECURITY FORM

(on Non-Judicial Paper)

BANK GUARANTEE BOND FOR PERFORMANCE WARRANTY

То

The President of India, through the Director Punjab Engineering College (Deemed to b Cha

	niversity), Sector-12, garh-160012
Dear Si	r,
Sub:	
1.	You, on behalf of President of India, have entered into a contract with reference No with (herewith after referred to "as the contractor") for the development, fabrication and supply of (herein after referred to as stores) for the price and on the terms and conditions contained in the said contract.
2.	In accordance with the terms of said contract the Contractor has undertaken to produce a Bank Guarantee for Rs being 10% of (Rs) of the total value of the said stores supplied to you for the due fulfillment of its obligations to the President of India for due performance as per the contract during warranty period.
3.	In consideration thereof, we happily expressly, irrevocably and unconditionally undertake and guarantee as principal obligors on behalf of the contractor that in the event that the President of India submits a written demand to us that the contractor has not performed according to the contractual obligations included in the said contract, we will pay you on the written demand, without demur and without reference to the contractor any sum up to a maximum amount of Rs
4.	receipt of your written request making reference to this guarantee and on demand. This guarantee shall not be revoked without your express consent and shall not be affected by your granting any indulgence to the contractor, which shall include but not be limited to postponement from time to time of the exercise the same in any manner at any time and either to forbear or to enforce any covenant continued or implied in the said contract or any other course remedy or security available to you, and our Bank shall not be released from its obligations under this guarantee by your exercising any of your rights with reference to matters aforesaid or any of them or by reason of any other indulgence shown by you or by any other matter or thing whatsoever which under law would, but for this provision, have the effect of relieving our bank from its obligation under this guarantee.
5.	Not withstanding anything herein contained, our liability under this guarantee is restricted to Rs. (Rupees.) and the guarantee shall remain in force upto and including the day of being reported to us by you returned to us duly discharged.

	Unless a demand or claim undersaid expiry date as prorights under this guarante liabilities hereunder.	vided above or unless th	nis guarantee is exte	ended by us all your		
We, lastly undertake not to revoke this guaran currency except with the prior consent from your office in writing.						
Not	with standing anything con	tained herein:				
i.	Our liability under this I	Bank Guarantee shall no	t exceed Rs	(Rupees		
ii.	This Bank Guarantee sh	all be valid upto				
iii.	We are liable to pay to Guarantee only and only					
Branch issuance Origina the bene	e has been fulfilled or upor il Bank Guarantee is essenti eficiary.	Office n expiry of this guarante al for invoking the gua	e Address, once to ee whichever is ear rantee with specific	he purpose of the clier. Even return of c request letter from		
Wittnes	ss:	,Signature				
Wittnes	ss:	,Signature				
For	Bank		For	Bank		
Authori	ized Signatory		Autho	rized Signatory		