PunjabEngineering College Chandigarh Sector 12, Chandigarh 160012



E-tender document

For purchase of

Upgradation of Low Subsonic Wind tunnel

at

Aerospace Engineering Dept.

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SECTION I: INVITATION FOR E-TENDER

FOR PURCHASE OF Upgradation of Low Subsonic Wind tunnel

- 1. The Punjab Engineering College, Chandigarh invites e-bids from eligible bidders for supply of the Upgradation of Low Subsonic Wind tunnel as per Table-1
- 2. Interested eligible Bidders may obtain further information from Aerospace Engineering Department, Punjab Engineering College, Sector 12, Chandigarh 160012, India.
- 3. The bidding document can be downloadable from institute website http://www.pec.ac.in.
- 4. All bids must be accompanied by anEMDas 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. No.	Name of the Equipment	EMD	Performance Security
			Deposit
1	Upgradation of Low Subsonic Wind tunnel	15,000	@ 2% of the total value
			of the contract

TABLE-2 Time Schedule

I	Date of publication	
I	Downloading of e-tender document	Start date:18.10.19
		End date: 08.11.19
III	Date of submission of e-tender	Start date: 18.10.19
		End date: 08.11.19
IV	Physical submission of EMD and other	Start date: 18.10.19
	necessary pre-qualification documents	End date: 08.11.19
	(scanned copies)	
V	Opening of Technical Bid (online) and	Date: 11.11.19; 11 AM
	meeting 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	Dept. of Aerospace. Engineering,
		Punjab Engineering College,
		Sector 12, Chandigarh 160012
VIII	Address for communication	Head,
		Aerospace Engineering Department
		Punjab Engineering College,
		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 institute website (www.pec.ac.in).
	The bidder has to submit the original documents in physical form such as EMD, &
III.	affidavit of non being black listed on the date fixed for the same as above. The
	failure will entail summarily rejection of its tender.
	The undersigned reserves the rights to reject or accept any or all tenders without
IV.	assigning any reasons.

Director,

Punjab Engineering College, Sector-12, Chandigarh

PUNJAB ENGINEERING COLLEGE, CHANDIGARH SECTION II TERMS AND CONDITIONS OF CONTRACT

- 1. Tenderers are advised to study all technical and commercial aspects, instructions, forms, terms and specifications carefully in the tender document. Failure to furnish all information required in the tender document or submission of a bid not substantially responsive to the tender document in every respect will be at the tenderers risk and may result in the rejection of the bid.
- 2. The tenderer should indicate specifically the Basic Price, Taxes/Excise duty, other duties (if any) and levies chargeable. No additional information will be entertained after due date.
- 3. The tenderers should give their quote in Indian currency only keeping in mind that our institute (i.e. Punjab Engineering College) is exempted from the payment of custom and excise duty. Only custom & excise duty exemption certificate will be issued.
- 4. The Bidders shall have to submit their Bids online in Electronic Format with Digital Signatures. For participation in the e-tendering process, the Bidders need to register themselves on http://etenders.chd.nic.in/nicgep. On registration, they will be provided with a user ID and a system generated password enabling them to submit their Bids online using Digital System Certificates (DSC).
- 5. Tenders without digital signatures will not be accepted by the Electronic Tendering System. No Tender will be accepted in physical form and in case, it has been submitted in the physical form only, it shall be rejected out rightly.
- **6.** Bids will be opened online as per time schedule mentioned in e-tender notice (**SECTION I Table 2**).
- 7. Before submission of online bids, bidders must ensure that self-attested scanned copies of all the necessary documents as mentioned in SECTION III "Technical Bid" and SECTION V "Financial Bid" of this tender document have been uploaded with the bid, failing which their bids may be out-rightly rejected and will not be considered.
- 8. It is mandatory for all the bidders to upload all the documents mentioned under tender document.
- 9. Bidderis required to upload scanned copy of EMD as specified in the tender documents and send original along with other hard copies of desired documents to be sent in technical bid envelope.
- 10. The details of EMD and tender cost specified in the tender documents should be the same as submitted online (scanned copies) otherwise tender will be rejected.
- 11. The conditional bids shall not be considered and may be rejected out rightly in very first instance.
- 12. The financial bids through e-tendering of only those bidders shall be opened who will qualify in the technical bid criteria.
- 13. 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.
- 14. Downloading and submission of Tender will be done by E-tendering process through the online website of Chandigarh Administration http://etenders.chd.nic.in/nicgep.
- 15. EARNEST MONEY DEPOSIT (EMD): The Tender should be accompanied with Earnest Money as mentioned in the Table-1 of SECTION I to be paid in the shape of A/C payee demand draft/banker cheque/FDR/bank gurantee from any Commercial Bank in favor of Director, Punjab Engineering College Chandigarh which shall be valid for 180 days. No firm/tenderer will be exempted from submission of EMD. The EMD deposited by the tenderer in respect of another similar tender will not be considered against this tender. Apart from

- submission of EMD in physical form, scanned copy of EMD duly attested and countersigned by the firms shall also be uploaded. The EMD of unsuccessful tenders will be refunded immediately after finalization/allotment of tender. No interest will be payable on the EMD. The EMD will be forfeited, if the tenderer withdraws his/her bid after submission of the Tender. Expression of Interest without the EMD shall be rejected.
- 16. TECHNICAL BID: The tenderer should submit scanned copy of documentary proof of his/her eligibility as mentioned in SECTION III"Technical Bid" of this tender document.
- 17. Financial Bid will be opened of only those bidders who qualify in the technical bid criteria through e-tendering process.
- 18. FINANCIAL BID: The financial bid (SECTION IV) shall be quoted by the bidder through etendering. The financial bid should contain rates only. The rates should be mentioned both in figures as well as in words. Any change in rate quoted by the tenderer afterwards will entail forfeiture of earnest money deposit, cancellation of tender and blacklisting of the firm.
- 19. The bid should not contain corrections or over writing.
- 20. Performance Security Deposit: The successful tenderer will have to deposit performance security @5% of the total value of tender awarded (Table -1 of SECTION I) within 15 days of issuance of letter of intent by the competent authority to be paid in the shape of bank guaranty, from any scheduled bank in favour of Director, Punjab Engineering College Chandigarh and the security deposited in connection with any other similar tender will not be considered against this tender. Thereafter, the work order will be issued. If successful tenderer fails to submit the requisite performance security deposit within prescribed 15 days, earnest money deposit (EMD) deposited by the tenderer will be forfeited.
- 21. Tender received through e-tendering shall be opened online by the committee duly constituted by the authorities of Punjab Engineering College, as per schedule given in Tender Notice in the office of the Head, Aerospace Engineering Department, Punjab Engineering College Chandigarh. 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.
- 22. Tender is nontransferable.
- 23. The bidder shall submit the hard copy of e-tender along with forwarding letter (Annexure 2.1 of SECTION II) duly signed by the authorized signatory.
- 24. The Director, Punjab Engineering College Chandigarh reserves the right to accept or reject any or all tenders without assigning any reason.

ANNEXTURE – 2.1

From	
Subject: Submission of Tender for Purchase of Upgradation of Low Subsor	nic Wind tunnal
Dear Sir,	ne wind tuillei.
With reference to your above-mentioned notice inviting tenders, I/We hereby	-
Upgradation of Low Subsonic Wind tunnel for Punjab Engineering College, C	handigarh.
I/We shall supply the Equipment's truly and faithfully as set forth in the term the tender document. I/We shall be responsible for all complaints as regard product and in case of any dispute; the decision of the Director, Punjab I Chandigarh shall be final and binding on me/us.	rds to the quality of
A FDR NoDateddrawn on	intended
for the prescribed amount of RsOnly) in favo	
I/WE shall have no claim to the refund of earnest money / performance securithis tender in the event of my/our non-compliance of the contract, providing providing the period of validity of my/our tender. I/We further understand that my/our earnest money shall stand forfeited in comply of equipment's/service/violation of any term, or if I/We withdraw in 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-mentiatender along with terms and conditions with relevant columns and annexure my/our attestation and with each page of the tender paper including the conditions signed by me/us (in the capacity of sole owner/general or special submitted for your favorable consideration. I/We have read the terms and conditions carefully and have signed the stabsolute and unqualified acceptance.	case of unsatisfactory my/our tender at any riod of 120 days from oned notice. My/Our e duly filled in under enclosed terms and attorney attached) is
Thanking you,	Yours faithfully,
Place	<i>3,</i>
	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

I/We/M/s	are registered Company/Ltd
I/We/M/sCompany etc. as per Registration Certificate No	issued
byhaving registered office at	
	nufacturing/supply base at
do hereby declar	
have not been Black-listed, nor mine/our Tenders have	•
State/UT/Central Government or any partner or shareholder either	•
with or has any subsisting interest in the business of my/our firm	• • •
ever been initiated/pending or any penalty has ever been levied du	
work/service/supply order by any State/UT/Central Government or	by any aumority.
Place:	DEPONENT
Dated :	
Verification	
I/We do hereby solemnly declare and affirm that the above declara	ations are true and correct to the
best of my knowledge and beliefs. No part of it is false and nothing	
Place :	DEPONENT
Dated .	

SECTION III Technical Bid

SCHEDULE OF REQUIREMENTS

Offer will be accepted/uploaded in two covers under Details containing:

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 16 of SECTION II of this tender document.
- 3. Bidder should have a turnover of at least Rs. 15 Lakhsin each of the last three financial years i.e. 2016-17, 2017-18 and 2018-19. Copies of audited financial statements shall be attached.
- 4. Self-attested copies of PAN/TAN Card.
- 5. Certificate of acceptance of terms & condition mentioned in Section II and Section VI of Tender Document.
- 6. Registration Certificate of the company issued by the competent authority
- 7. Affidavit of not being Black Listed (Affidavit as per Annexure 2.2 of SECTION II)
- 8. The bidder should provide service support center at PEC Chandigarh.
- 9. Covering letter (Annexure 2.1 of SECTION II)

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

Table 3: Technical Specifications and details

Specifications for Low Speed Wind tunnel repair & upgradation work:

S.No.	Component	Details		
1.	Honeycomb structure	Present honeycomb to be replaced with aluminum or other		
		durable material.		
2.	Turbulence Screens	The present screens to be replaced.		
3.	Test Section	Test section drawings attached. Material transparent acrylic or polycarbonate with thickness not less than 5mm at top and side walls. Bottom wall can be wooden/acrylic/or equivalent. The Acrylic sides, top and bottom should be easily replaceable. Test Section frame should be Aluminum sections. There should not be any step or geometry mismatch at test section and inlet junction.		
4.	Propeller and Motor	section and inlet junction. Propeller and motor combination at diffuser outlet should be such that: • Velocity in test section is more than 60m/s • Turbulence in test section should be less than 0.5% at all velocities. • Velocity variation inside test section at a given velocity should be less than 1% • Variable speed Motor with power less than 30 hp Note: Existing motor and controller may be used to power the propeller. For more information, a visit is suggested or contact Office, aerospace engineering department • Propeller diameter (refer drawings)		
5.	Inner lining of tunnel	 Precise Motor control of 5 rpm is required. Wooden work is required and parts needs to be replaced partially. The inner wall should be very smooth and wooden finish. Durability and smoothness required. Anti-termite and anti-moisture coat required. 		
6.	Support bench	Separate support bench is required for Inlet Section Test Section Diffuser section		
7.	Load cells	Specifications 1:		

SECTION IV

FINANCIAL BID

SECOND COVER TITLED AS "FINANCIAL BID" CONSIST OF

Financial (Price) Bid for Purchase of Upgradation of Low Subsonic Wind tunnel to be delivered by the bidder in the Aerospace Engineering Department, Punjab Engineering College, Sector 12, is to be submitted online in excel sheet provided.

Notes:

- 1. Rate should be quoted in Indian Rupees only inclusive of Taxes/Levies as per Indian law except custom duty/excise duty.
- 2. The Institute is registered with the Deptt. 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 and Central Excise Duty Exemption in terms of Govt. notification no. 10/97- Central Excise dated 01-03-1997 as amended from time to time.

SECTION V

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. Opening of Bids by the PEC

The PEC will open all bids, in the presence of Bidders' representatives who choose to attend, at **11:00AM on 06.07.18** and in the following location:

Dept. of Aerospace Engineering Punjab Engineering College, 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..

6. Warranty

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

7. 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 and Satisfactory performance
- 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.
- Payments shall be made promptly by the PEC

- 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.

10. Others Terms and Conditions

- An EMD/ bid security of equipment should be submitted in form A/C payee demand draft/banker cheque /FDR/bank guarantee from any Commercial Bankvalid for 180 days from any commercial bank in favour of Director Punjab Engineering College, Chandigarh. Tender without earnest money shall be considered unresponsive and rejected.
- A Performance security of 5% of the cost of the equipment will have to be deposited by the successful bidder awarded the supply order in form of Bank Guarantee from a scheduled bank which should be valid for 180 days beyond the completion of warranty/contract period.
- Performance Security will be forfeited and credited to the institute (Punjab Engineering College, Chandigarh) in the event the supplier does not honour the warranty/contract and other terms and conditions of the tender.
- Price quoted should be inclusive of Taxes/Levies as per Indian law except custom duty/excise duty.
- TheInstitute is registered with the Deptt. 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 and Central Excise Duty Exemption in terms of Govt. notification no. 10/97- Central Excise dated 01-03-1997 as amended from time to time.
- The delivery period for supply of the material is 60 days from the date of supply order. The penalty will be charged @ 0.5% of cost of equipment per week after the expiry of delivery period, mentioned in the purchase order if delivery date is extended by the PEC.
- Detailed Catalogue should be sent along with supply of equipment.
- All legal disputes will be subject to Chandigarh Jurisdiction and will be interpreted under Indian Laws.
- The Director Punjab Engineering College 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 are not eligible for the Tender.
- All the rates will be FOR, Punjab Engineering College, 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.

- The firm is entirely responsible for any damage or losses occurred to the material in the transit. The firm will lodge all complaints regarding the damage occurred in the transit and shall bear all expenses.
- 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.
- 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 VI), and in case of successful bidder, if the bidder fails to supply the equipment or to furnish performance security in accordance with the tender.
- Bids received after the due date will not be considered.
- The tenderer is required to bring their own testing and measurement instruments which are required for the installation, commissioning and testing. These can be taken back after completion of the process.
- In case, any free gift scheme / cash scheme is launched by the company same will be offered by the vender to Punjab Engineering College, 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 agency shall arrange to provide demonstration/Training to the concerned lab staff regarding operation / maintenance of equipment free of cost.
- A technical compliance chart of the quoted product mentioning technical specifications of quoted product verses asked specifications is compulsory. Attach the compliance chart with technical bid.
- 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

To	
Punjab 1	sident of India, through the Director Engineering College, Sector- ndigarh-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
2.	to as stores) for the price and on the terms and conditions contained in the said contract. In accordance with the terms of said contract the Contractor has undertaken to produce a Bank Guarantee for Rsbeing 5% of (Rs) of the total value of the said stores supplied you for the due fulfilment 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.	
5.	effect of relieving our bank from its obligation under this guarantee. Not withstanding anything herein contained, our liability under this guarantee is restricted to Rs

	aforesaid expiry date as provided above or unless this guarant rights under this guarantee shall be prescribed and we shall be hereunder.	•
7.	This guarantee shall not be affected by any change in the cotthe contractor or for any other reason whatsoever.	onstitutions of our Bank or of
its	We, Lastly undertake not to revo	
No	ot with standing anything contained herein:	
i.	Our liability under this Bank Guarantee shall not exceed (Rupees.	
ii.	This Bank Guarantee shall be valid upto	·
iii	Guarantee only and only if you serve upon us a written cl	aim or demand on or before
issuar Origin	This Bank Guarantee shall be returned to our Name of at Office Address are has been fulfilled or upon expiry of this guarantee whicher hal Bank Guarantee is essential for invoking the guarantee with eneficiary.	s, once the purpose of the ever is earlier. Even return of
Wittn	ess:,Signature	
Wittn	ess:,Signature	
For	Bank Fo	orBank
Autho	orized Signatory	Authorized Signatory

6. Unless a demand or claim under this guarantee is made on us in writing on or before the