

**J&K ENTREPRENEURSHIP DEVELOPMENT INSTITUTE
(JKEDI)**

**JLN UDHYOG BHAWAN
RAILHEAD COMPLEX, JAMMU**

TENDER DOCUMENT

FOR

**SUPPLY, ASSEMBLING, FIXING, HOISTING IN PLACE,
INSTALLATION, TESTING & COMMISSIONING OF
HVAC SYSTEM**

IN CANTEEN

AT

JKEDI PREMISES, SEMPORA, PAMPORE, KASHMIR

**ARCHITECTS/CONSULTANTS
NAQUSHBANDI & ASSOCIATES
203 DR ALI JAN PLAZA, M.A.ROAD, SRINAGAR, J&K 190001**

J&K Entrepreneurship Development Institute (JKEDI)
Sempora, Pampore, Kashmir

NIT No: JKEDI/P&PR/Adv/12/14

Dated: 16.02.2012

TENDER NOTICE FOR HVAC WORKS

Sealed tenders affixed with Rs.5/- Revenue Stamps are invited from Manufacturers, Registered, Licensed, Authorised Dealers/Agents etc with valid credentials for Supply, Assembling, Installation, Commissioning and Testing, complete job of HVAC works for Canteen in JKEDI premises at Sempora, Pampore, Kashmir. HVAC works also include the requisite Electrical and Civil works in order to make the system functional and fully operational.

Detailed Tender Document along with necessary Technical Details, Specifications and Bill of Quantities (BOQ) etc can be obtained from the office of the Director, JKEDI, Sempora, Pampore and Ground floor, JLN Udhyog Bhawan, Jammu against a Demand Draft of Rs. 1000/- (Rs. one thousand only) payable to Director, JKEDI Srinagar/Jammu. Tender Notice and Tender Document can also be downloaded from the website www.jkedi.org. Tender documents thus downloaded from the website shall be accompanied by DD of Rs 1000/- (Rs. one thousand only) at the time of submission. All tenders must accompany earnest money deposit in the form of a CDR/FDR for Rs 40,000/- (Rs. forty thousand only) pledged to the Director, JKEDI, Srinagar/Jammu. Tender documents can be obtained from above sources from 18th Feb to 2nd March, 2012 during office hours, on all working days.

S.No	Name of Work	Estimated cost of work (Rs in lakhs)	Earnest Money (Rs)	Time of completion of work
01	Supply, Assembling, Installation, Commissioning and Testing complete job of HVAC system (Heating & cooling) of Hitachi, Career, LG or equivalent make, in canteen of JKEDI premises including relevant civil and electric works at Sempora, Pampore, Kashmir.	20.00	40,000.00	30 days

Tenders in two cover pattern (Cover-A and Cover-B), as described in detailed Tender Notice and Tender Document, should be addressed to the Director, JKEDI, Sempora, Pampore, Kashmir and must reach his office at Pampore by 5th March, 2012 upto 2.00 p.m. in person or through Registered/Speed Post. Cover-A of the tenders received shall be opened on the same day at 3.30 P.M. in presence of the tenderers who wish to be present. Incomplete tenders or tenders reaching after the scheduled date and time shall not be entertained.

Director

System Requirements

1. General

- 1.1 The system design, basis of design, estimated requirements and other relevant data are outlined in this section. The detailed specifications and specific requirements are outlined in the subsequent sections. The contractors shall be required to undertake Supply, Assembling, fixing, hoisting in place, Testing and Commissioning complete job of HVAC system (Heating as well as Cooling) of Hitachi, Carrier, LG or equivalent make.

2. Location

- 2.1 The Proposed HVAC is to be installed at the proposed Entrepreneurship development Institute, Sempora, Pampore, Kashmir.

3. Scope of work

The work proposed under this tender includes Supply, Installation, Testing and Commissioning, complete job of modular type **Air-cooled Ductable ACs with anti corrosive gold fin coil, Internal overload protected 3 x 5.5 Tr. Scroll Compressor for providing Safeties like HP cutout, LP cutout, Electrical Panel with Single phase preventor for phase reversal and phase imbalance, contactors, Electronic Contoller, Time delay in IDU & ODU, between compressors start, User friendly features like Self diagnostic functional, Auto restart, group control, Corded remote operated etc.**, suitable for Cooling complete as per specifications along with Refrigerant piping, drain piping, insulation, electrical wiring etc. for the above project. The system shall be combined with strip heaters to cater to specified heating requirements of the area.

- 3.1 Outdoor units of nominal capacity as per manufacturer's standard suitable for operating with R-22 refrigerant. Power point with MCCB of suitable capacity is to be provided (160 Amperes MCCB for 49.5 Tr.unit) within the range of 5 meters from the outdoor unit. Power cable from MCCB to the unit will also be in scope of HVAC Contractor.
- 3.2 It is proposed to provide the fresh air to all the Air-conditioned areas.
- 3.3 The work shall also include chasing of walls for piping, rough plaster to seal the chases, embedding of drain piping under floor, wiring from electrical point up to unit etc. and make good the affected surfaces/areas.

4. Design Consideration

- 4.1 It is proposed to provide a system which is :
- i. Flexible
 - ii. Energy efficient
 - iii. Cost effective
- 4.2 The system for the air conditioning of the building shall be:
- i. Ceiling Concealed Ductable Split system.

5. System Design

- 5.1 It is proposed to provide to use Air cooled inverter type system with multiple scroll compressor.

8. **Power Requirement**

8.1 The power requirement of the whole system will be 90 KW.

9. **Estimated cost**

9.1 Estimated cost of the project will be Rs. 20.00 Lacs/- (twenty lacs Only.)

SCHEDULE OF EQUIPMENT PROPOSED

S.No.	Description	Unit	Condition of Services
1.	<u>Ceiling Concealed Ducted Split (Air-cooled Unit)</u>		
1.1	<u>Outdoor Unit (With Constant Scroll Compressor)</u>		
1.1.1	Type	--	CCDS - ODU
1.1.2	Quantity	Nos.	16.5 Tr. x 3
1.1.3	Capacity (cooling)	Tr.	49.5
1.1.4	Connectable No. of possible indoor unit	Nos.	1 each
1.1.5	Air entering condenser	Deg CDB	35
1.1.6	Electric Supply	--	-- 415 V/3 Ph/50 Hz --
1.2	<u>Indoor Units</u>		
1.2.1	Type	--	CCDS – IDU
1.2.2	Capacity (Cooling)	TR	16.5
1.2.2	Quantity of units	Nos.	3
1.2.4	Electric Supply	--	-- 220 V/1 Ph/50 Hz --

Issue of Tender Document and Opening of Tenders:

- A) Date of issue of tender document is from Feb 18, 2012 to March 02, 2012 during office hours on all working days.
- B) Tender document can be obtained from the office of the Director, JKEDI, Sempora, Pampore, Kashmir and ground floor, JLN Udhyog Bhawan, Railhead Complex, Jammu against cash payment/DD of Rupees one thousand Only (Rs. 1000/-)in favour of the Director, JKEDI, Srinagar/Jammu payable at Srinagar/Jammu (J&K). Tender documents can also be downloaded directly from JKEDI official website, www.jkedi.org . Tender documents thus downloaded shall at the time of submission accompany a demand draft for Rs 1000/- (one thousand only) in favour of Director JKEDI Srinagar/Jammu, payable at Srinagar/Jammu.
- C) The tenders (Cover-A and Cover-B, sealed in separate envelopes and both envelopes then resealed in another envelope) should be addressed to the Director JKEDI, Pampore, Kashmir and must reach his office on or before March 05, 2012 upto 2.00 PM by hand or through registered/speed post. Tenders reaching after the scheduled date and time shall not be entertained.

Details/Requirements for Submission of Tenders

The competitive Bidding shall be held in accordance with two cover bidding system i.e, Cover -A (Technical/Prequalification Bid) and Cover- B (Price Bid).

The tenders are to be furnished in two sealed covers (Cover – A and Cover – B) duly signed by the tenderer clearly superscribing the following information on them:

- 1. Envelop No (Cover – A or Cover – B)
- 2. Name of Work
- 3. Name and Address of Tenderer with Phone Numbers
- 4. Due date of Receipt of tenders

Cover A (Technical/ Pre-qualification bid)

This Envelope should contain the following:

- i) Earnest money deposit in form of CDR issued by any scheduled bank for an amount of Rs 40,000/- (forty thousand only).
- ii) Documents showing that the Tenderer is Manufacturer, Dealer, authorised agent etc for the requisite equipment/system.
- iii) Product catalogues, information brochures, specifications etc complete to describe the required equipment/systems etc in detail along with Shop drawings, Schematic drawings, as may be required to explain the system etc, wherever necessary. Tenderers are required to make the essential product information and make available failing which Cover – A shall be considered incomplete and hence invalid.
- iv) Tenderers shall be required to have well established backup units, dealers or authorised service centres with proven credentials in Srinagar for a prompt after- sale -service within and subsequent to the warranty period to take care of regular servicing requirements and complaints. Complaints and faults etc. in the systems/equipment etc supplied, installed, commissioned or created by the tenderers, must be attended to within 24 hours at the respective site after receipt of such complaint. Moreover, the tenderer who is finally awarded the work shall run the systems installed/commissioned under his own technical staff to train the concerned JKEDI officials/designated individuals in its handling for a period as may be necessary. A certificate to this effect from an authorised officer of JKEDI endorsing that the concerned staff/individuals have duly been trained to their satisfaction shall be essential for release of final payments against the tendered works. No Extra charges on account of this training shall be paid to tenderers.
- v) The tenderer must have successfully completed a single work of similar nature equivalent to the estimated cost of the advertised work during the last 3 years. Relevant documents /proofs in this regard, certified by Competent Authority must accompany Cover-A. In absence of such documents certifying satisfactory completion of a single work of above nature and cost, Cover-B shall not be entertained and the tender shall be treated as invalid.
- vi) The annual turnover of the Tenderers must be Rs 25.00 lacs (twenty five lacs) at least for the last three consecutive financial years. Documents certified by competent chartered accountants or tax authorities in this regard shall accompany Cover-A.
- vii) Original or Attested Photo copies of Latest and valid Sales Tax, Service Tax and Income Tax Clearance Certificate and TIN etc including PAN document.

- viii) Details of works of similar nature/type and magnitude carried out by the tenderer, documentary proof thereof along with performance certificate from the concerned Competent Authority and other related information as may be obligatory.
- ix) Details of other works tendered for and in hand along with the value of work, name and address of the clients in each case.
- x) Any other relevant information with regard to specific work which the tenderer would like to present.
- xi) Each page of the documents submitted should be duly signed by the tenderer or his authorized Signatory.

Cover B (price bid)

The cover B should contain:

- i) The rates quoted for the Tendered Items which should duly be pasted with transparent tape.
- ii) The rates quoted should be inclusive of all relevant taxes, octroi, freight, handling charges and/or other duties and overheads etc.
- iii) The Tenderer should quote the rates for all the items as per advertised list/quantity schedule/unit and not for any part of the items or otherwise.
- iv) Each page of the submitted price bid must duly be signed by the tenderer or his authorized signatory.
- v) This envelope shall contain only the cost offer of the tenderer which should be written clearly and legibly, both in figures and words. The tenderer should not quote in any case the cost offer anywhere, directly or indirectly in envelope-A.

The aforesaid sealed envelopes (Cover - A and Cover- B) shall then be put together in another envelope which shall also be sealed and superscribed with the name of the work. The name, address and phone numbers of the tenderer shall also be clearly written on this envelope.

General Conditions

- i) The tenderer should carefully study the tender document and prepare his offer with all provisions of the document. He should fully acquaint himself with the tender requirements, site location and conditions and all other factors which may directly or indirectly influence the preparation of his tender.
- ii) In case the tenderer wants to be represented by someone authorised by him to follow up the tendering process/procedures and act on his behalf, he shall submit a duly executed power of attorney in original in the name of such representative/s along with its two certified copies. The power of attorney shall also include the power to refer disputes to arbitration.
- iii) Although interested firms can quote for only one of the above two tendered works, it is desirable for complete coordination during and after execution that only one agency completes both the works which are actually two parts of the same job.
- iv) On the date specified for opening of tender in the tender notice, only Cover-A shall be opened. However, Cover-B shall be opened at a suitable time and date which will be communicated to tenderers whose Cover -A is entertained.
- v) Envelope-A of all the tenderers will be opened to verify its contents as per the requirement. If the earnest money deposit and other prerequisites including all the necessary documents as mentioned above are found strictly in order, the product information will be studied with respect to the requirements of the work as specified in the tender document. Should all the information/specifications etc be found satisfactory, only then Cover-B (Envelope-B) shall be entertained.
- vi) The Cover-B of only those tenderers shall be opened whose Envelope-A is entertained and found in order as mentioned above. The contents of Cover – B shall be read out to other qualified tenderers who wish to be present, as may be necessary.
- vii) Any corrections made in the tender shall be certified with full signatures of the tenderer failing which the tender shall be treated as invalid. There should be no ambiguity whatsoever about the rates offered.
- viii) Any tender received on expiry of the prescribed date and time will not be entertained.
- ix) All the tenderers or their authorised representatives should be present in the prescribed office at the time of opening of tenders. The tenders shall however be opened at the prescribed time even if the tenderer/s fail to present themselves. Any complaint to opening of tenders in such a case will not be entertained.
- x) As soon as the acceptance of the tender is communicated to the successful tenderer, the contract shall be complete and binding upon him. A formal deed/ agreement has to be drawn by the

- tenderer within one week from the date of issue of allotment. If the tenderer backs out after the allotment or sublets the work or a part thereof, it will be considered a breach of contract and the tenderer will be dealt with under rules in vogue from time to time.
- xi) Any change in design/ specifications found necessary during execution/ installation, shall be undertaken by the tenderer on the same rates, terms and conditions as provided for such items. The rate for any extra item shall be analysed and approved by the competent authority. The same shall be binding on the tenderer.
 - xii) The tenderer shall complete the work to the entire satisfaction of the Project Authority or other designated official for the purpose. Any item/s found unsatisfactory shall have to be replaced by standard items as laid down in tender document.
 - xiii) On commissioning/completion of the tendered work/s, a competent officer or agency designated/engaged by JKEDI shall have to certify, that all works executed by the tenderer have been done to their satisfaction. Final payments against the works thus carried out shall be made only after such certificate is issued by the competent designated authority/individual. Until such certification however, an interim payment of upto 85% (eighty five per cent) of the value of total work done may be released by JKEDI authorities at their discretion. The tenderer shall run the system for as many days as found necessary by the designated authority during summers as well as winters to check efficiency of the system in all kinds of weather.
 - xiv) The successful tenderer to whom the work gets allotted shall provide one year on site warranty for all the products equipment etc supplied, installed or commissioned.
 - xv) In order to ensure satisfactory after sale service, the successful bidder after satisfactory completion of job shall be required to deposit a bank guarantee or FDR worth 10% (ten per cent) of the value of the total work done, pledged to the Director, JKEDI, Srinagar/Jammu. In case JKEDI is not satisfied with the after sale service provided by the successful bidder, the institute shall be at liberty to encash the said guarantee. Such bank guarantee/FDR, for the same value shall have to be deposited (or got renewed) by the successful bidder at the end of every twelve months from the date of completion of work.
 - xvi) JKEDI shall not be responsible for any loss due to flood, earthquakes, mutiny, violence, riot or other government action or other natural calamity etc to the men or material engaged by the tenderer during execution of work. In case of injury/death of any skilled or unskilled labour employed by the tenderer on the work, the tenderer himself shall be responsible for consequences and compensation thereof under rules in vogue in the state.
 - xvii) If the work is suspended by the Project Authority for any reason for some time, no compensation on this account shall be entertained. However, an extension in completion time may be granted in such a case purely at the discretion of the Project Authority. However, price escalation for such delay shall not be entertained.
 - xviii) Any clarification required by the tenderer in regard to the technical data given in tender document may be sort from the office of the Director, JKEDI.
 - xix) Tenders found vague in part or otherwise in whatsoever form shall not be entertained.
 - xx) The Director JKEDI reserves the right to increase or decrease the scope of work without assigning a reason thereof.
 - xxi) The Director Entrepreneurship Development Institute reserves the right to accept or reject any or all tenders without assigning any reason thereof.
 - xxii) Disputes, if any are subject to jurisdiction of Srinagar Courts only.

ANNEXURE-A

Bill of Quantities (BOQ)

S.NO.	DESCRIPTION	QUANTITY	UNIT	BASIC RATES	
					AMOUNT
	Supply of Air-cooled Ducted Split with anti corrosive gold fin coil, Internal overload protected Scroll Compressor for providing Safeties like HP cutout, LP cutout, Electrical Panel with Single phase preventor for phase reversal and phase imbalance, contactors, Electronic Contoller, Time delay in IDU & ODU, between compressors start, User friendly features like Self diagnostic functional, Auto restart, group control, Corded remote operated etc. of Primary make Hitachi, Carrier, LG or equivalent.				
1	16.5 TR. DUCTED SPLIT A.C. (With Multiple Scroll Compressor)	3	NOS.		
	TOTAL				
	TOTAL HIGH SIDE COST (A)				

INSTALLATION COSTING (LOW-SIDE)

S.NO.	DESCRIPTION	QUANTITY	UNIT	BASIC RATES	
				RATE	AMOUNT
1	Installation,Testing and commissioning of air conditioning units including gas charging & pressure testing (CONSIDERING 25KG OF REFRIGERANT PER UNIT)				
	STANDARD INSTALLATION OF 16.5 TR. DUCTED A.C.	3	NOS.		
2	SITC of Refrigerant Cu.Piping with suction line duly insulated for 16.5 Tr. Ductables Ac's.	130	R MTR		
3	Electrical cabling between indoor & Out door Units	120	R MTR		
4	SITC of Stand for Outdoor units of Ductable Acs	9	NOS.		
5	SITC of 25mm dia Hard PVC pipe duly insulated for drain	40	R MTR		
6	SITC of GSS Ducting - Factory Fabricated Circular Duct				
6A	22 GUAGE	1000	SQ.FT		
6B	24 GUAGE	2400	SQ.FT		
7	SITC of flexible connection (Canvass)	3	NOS		
8	SITC of Supply and return air linear Aluminum powder coated grill/diffuser .	135	SQ.FT		
9	SITC of Duct thermal insulation with 6 mm Thick Nirtril Rubber (FULLY INSULATED)	2400	SQ.FT		
10	SITC of Duct acoustic lining with 6 mm fiber glass covered with 28G perforated Al sheet	1000	SQ.FT		
11	Strip heating element set complete with safety thermostats / geyser stat.		LUMPSUM		
12	Plant Room Insulation with 25mm thick Aluminium Faced Glass Wool with Cock mesh.	500	SQ.FT		
	Total				
	FINAL LOW SIDE COST (B)				
	Civil works for plant room (Brick Mas, door, Vent etc) C	LUMPSUM			
	GRAND TOTAL (A+B+C)				

Note :

THE ABOVE MENTIONED QUANTITIES ARE TENTATIVE AND WILL BE CHARGED AS PER ACTUALS APPLIED AT SITE.

