



**TAMILNADU SCIENCE AND
TECHNOLOGY CENTRE**
(Established by Government of Tamilnadu)
Gandhimandapam Road, Chennai - 600 025.

Advertisement No.01/P1/2013

NOTICE INVITING TENDERS FOR THE SUPPLY OF PACKAGE AIRCONDITION SYSTEM

Sealed tenders are invited from reputed Manufacturers / Suppliers / Agencies who are capable of supplying, installing and commissioning of Package Air-condition system to the Periyar Science and Technology Centre, Chennai. The system complete with accessories should be supplied, installed and commissioned with proper ducting arrangements. The tender documents can be downloaded free-of-cost from the following web sites: <http://tenders.tn.gov.in> and <http://tnstc.gov.in>. The filled in tender documents with all credentials may be submitted to this office till 03.30 p.m. of **28.06.2013**. Completed techno-commercial bids will be received upto 03.30 p.m. of **28.06.2013**. The bids will be opened at 4.00 p.m. on the same day in the presence of the bidders who submitted their offer.

DIPR/2880/TENDER/2013

EXECUTIVE DIRECTOR



Tamilnadu Science and Technology Centre

(Established by Government of Tamilnadu)

Gandhimandapam Road, Chennai 600 025

**TENDER DOCUMENT FOR THE
SUPPLY, INSTALLATION, TESTING AND COMMISSIONING
OF PACKAGE AIR CONDITIONER WITH
DUCTING ARRANGEMENT**

AT

**Hall of Nuclear Energy
Periyar Science and Technology Centre
Gandhimandapam Road, Chennai 600 025**

TAMILNADU SCIENCE AND TECHNOLOGY CENTRE, CHENNAI – 600 025.

TENDER - GENERAL CONDITIONS

01. The rates should be quoted in whole rupees and must be expressed in figures and in words. The rates for each item should be independent of other items.
02. The rates should be written clearly and legibly without any erasure or overwritings.
03. If artificially highest rates are tendered, this Centre will not consider any subsequent claim for compensation. The tenderers are advised to satisfy themselves that the rates tendered by them are for the items for which tenders have been invited.
04. No representation towards revision of rates once accepted will be considered.
05. The contractor shall inspect the facilities before quoting the rate for the work.
06. The tenderers are responsible to furnish all the required particulars along with the tender. No correspondence will be made on this account from this office.
07. The officer of this Centre may suggest changes to any item of work and the contractor shall carryout such modifications without any extra cost.
08. No advance payment will be made towards cost of materials or for any purpose.
09. Each tender should remit a sum of Rs.25,000/-(Rupees Twenty five thousand only) towards Earnest Money Deposit by means of a Demand Draft drawn in favour of the Executive Director, Tamilnadu Science and Technology Centre, Chennai. Earnest Money Deposit remitted in any other form will not be accepted and such tenders will be rejected without further notice. Tenders received without Earnest Money Deposit or found to be defective in any other respect will be rejected and Earnest Money Deposit refunded to unsuccessful tenderers in due course.

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10. The Earnest Money Deposit received from the successful tenderers will be retained till the contract period is over. On no account the deposit of previous contract be taken as an authority to permit the tenderer to submit his tender without depositing fresh Earnest Money Deposit.
11. The tenderers should enter into Stamp agreement with the Executive Director, Tamilnadu Science and Technology Centre, within 10 days of receipt of the order of acceptance of their rates in a stamped paper to a value of Rs.20/- or duly affixing an adhesive stamp to that value.
12. The agreement should be in the prescribed form which will be supplied by the Tamilnadu Science and Technology Centre, Chennai-600025.
13. The tenderers should clearly understand that no variation of the terms and conditions contained herein will be made under any circumstances and that the tender is an admission that they have read and understood the terms and conditions contained therein and the tender is expressly made subject to the same.
14. If the tenderer fails to execute the agreement within the stipulated time, the requirements will be met by giving the contract to the next bidder and the extra cost if any will be recovered from the tenderer.
15. The penalty for failure to pay the security deposit and execute the agreement bond within the time specified above will entail forfeiture of the earnest money deposit paid by them. The Earnest Money Deposit is also liable to be forfeited if the tenderer withdraws in the middle of the contract period.

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16. The work should be completed within the time stipulated and failure on the part of the contractor to commence the work or stops in the middle or using materials which do not conform to approved standards or which is found defective in any other way or breach of any of the conditions stipulated will entail enforcement of one or more of the following conditions.
 - a. Cancellation of order in part or whole
 - b. Forfeiture of Security Deposit / Earnest Money Deposit in whole or to the extent necessary
 - c. Recovery of losses incurred if any.
 - d. Recovery of extra cost if any incurred in getting the work done through other sources, by adjustment from the money due to the defaulter.
 - e. Extra cost over and above the amount due if any will be recovered from the tenderer as arrears of revenue.
17. The Executive Director, Tamilnadu Science and Technology Centre reserves the right of rejecting any or all of tenders without assigning any reasons, thereof, in writing or otherwise at any time.
18. Tenders submitted in the form other than the one supplied by this office and without the payment of the prescribed fee will be rejected.
19. Failure to furnish the required Earnest Money Deposit will entail disqualification and such tenders will be rejected.
20. Income Tax at the rate of 2% of the value of work plus Education Cess on Income tax at 2% or at the rates fixed from the time to time will be deducted from the contractor's bills at the time of payment.

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21 GUARANTEE

The tenderer should give one year Guarantee period from the date of completion of the work. During the Guarantee period, the tenderer should attend the fault at this own cost and risk.

22. PAYMENT OF COSTS.

The terms payments for the purchase of listed items & Accessories.

- a. 90% of the total cost of system will be paid after installation.
- b. The balance 10% will be retained during the guarantee period as performance guarantee and will be paid after the successful completion of the guarantee period. Alternatively, if the successful Tenderer gives an irrevocable Bank guarantee valid of the guarantee period in lieu of the balance 10% Tamilnadu Science and Technology Centre /Purchaser shall reserve the right to accept the same and release the 10 % payment. Tenderers quoting commercial terms other than those indicated will be liable for rejection.

23. Annual Maintenance Contract

The post guarantee annual maintenance charges (AMC) are applicable after completion of the guarantee period. The annual maintenance charges agreed to in Rupees and the % rate per annum on the basic cost of listed items excluding software sales tax, other levies and charges etc., shall be quoted.

The AMC is payable once in a half year, for year, for the half year beginning from the date from which guarantee period has lapsed, in advance against invoices/ bills to be preferred by the successful Tenderer. The Successful Tenderer should agree to provide comprehensive maintenance of the listed items, which shall include preventive and corrective maintenance at the location.

The successful tenderer should execute an AMC Contract. The maintenance also include replacement of all defective parts. The equipment which is down should be restored to good working condition within 48 hours. Otherwise the successful tenderer shall be liable for a penalty of 1% per week of the breakdown period on the total price of the item under AMC contract. The purchaser reserves the right to terminate the maintenance contract in the event of unsatisfactory maintenance and claim damages for non-fulfillment of the contract.

24. Only those agreeing with the above conditions, may offer their tenders.

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TECHNICAL SPECIFICATIONS

Supply, Installation, Testing and Commissioning of Package
Air-conditioner with Ducting arrangement for

Periyar Science and Technology Centre, Chennai - 25

ANNEXURE - I

S.No	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
1	Supply, installation, testing & commissioning of 8.5TR air-cooled ceiling suspended ductable type split air conditioning units with energy efficient scroll compressor and microprocessor control panel with ancillary in the items like catch-air drier, liquid line valve & vibration pads etc. at the proposed Hall of Nuclear Energy and outdoor units installed at terrace floor	4	Nos		
2	Supply & Laying of refrigeration piping using hard drawn copper piping as below				
2.1	1 - 1/8" dia suction Gas line with insulation	80	Rmt		
2.2	5/8" dia Liquid gas Line	80	Rmt		
3	Supply & laying of flexible Canvas mouth connection	4	Nos		
4	Supply, Fabrication and installation of 20mm thick PAL Pre insulated ducts (Factory fabricated sheets) in accordance with the approved shop drawings complete with all accessories like flanges, suspension rods, anchor bolts, GI bolts & nuts, etc., as required.	150	m ²		
5	Supply & fixing of Extruded aluminium spot grill with MS colour damper for supply air path.	3	m ²		
6	Supply & fixing of volume control damper	LOT	1		
7	Supply & laying of electrical control cabling using copper flexible cable, as below fabrication & erection of 22 SWG GI ducting with necessary fasteners & supports for collars				
7.1	3C x 2.5 sq mm	100	Rmt		
7.2	3C x 1.5 sqmm	100	Rmt		
	Total				

ANNEXURE - II

Sl.No.	Description	Unit	Condition Details
1.	Location		Periyar Science and Technology Centre Chennai-25
2.	Total area	Sft	5000 Sft.
3.	Height	Ft.	15.00
4.	Total Occupancy Load	Nos	300
5.	Appx. Heat Dissipation Load Consideration	HP	5.00
6.	Lighting Load	Watts	5000
7.	Inside design condition	Deg C	22 + /- 2
8.	Outside design condition	Deg C	39.4
9.	Dehumidified air quantity	Cu.Ft / Min	10270.00
10.	Ton of Refrigeration	TR	34.00
11.	Relative humidity	%	55 + /- 5

ANNEXURE - III

1. It is proposed to install 8.5 TR x 4 air-cooled ceiling suspended ductable type split air-conditioning units with energy efficient scroll compressor & microprocessor based control panel in the Nuclear Power Gallery and outdoor units will be proposed to install at terrace floor.
2. To offer refrigerant piping using hard drawn copper piping from each indoor unit to outdoor unit.
3. To offer electrical control cabling using copper flexible cables, from each indoor unit to outdoor unit.
4. To offer factory made pre-insulated rectangular ducting with necessary fasteners, suitable to operate 17 TR x 1 & 8.5 TR x 2 AC units.
5. To offer Extruded aluminium powder coated grills & GI constructed volume control dampers to handle above capacity units.