

INDIAN INSTITUTE OF TROPICAL METEOROLOGY, PUNE

Dr. Homi Bhabha Road, Pashan, Pune – 411008

**TENDER NOTICE NO-IITM/RAD/01/2011
PRE QUALIFICATION TENDER FOR SELECTION OF CONTRACTOR FOR
RADIANT COOLING PROJECTS AT IITM, PUNE.**

The Indian Institute of Tropical Meteorology, Pune is an Autonomous Research Institute under the Ministry of Earth Sciences, Government of India. The Institute has to engage a contractor for radiant cooling system with non-refrigerated water cooling for a proposed building 18000 sq.ft. approx. with 3 levels.

In this connection contractors with works related to radiant cooling experience are requested to collect the Pre-Qualification Tender Form from the Institute (workshop) or download form from institute's website (<http://www.tropmet.res.in>) and submit the completed form along with company profile in sealed cover super scribed "**Pre Qualification Tender for Appointment of Radiant cooling Contractor.**", addressed to, **The Director, Indian Institute of Tropical Meteorology (IITM), Dr. Homi Bhabha Road, Pune-411008** along with D.D. of Rs.1000/- (One Thousand only) in favour of Director,IITM Pune by **08-03-2011 upto 13.00hrs. which will be opened on same day at 15.00 hrs.**

The Director IITM, Pune reserves the right to accept any or all the prospective application in full or part thereof without assigning any reasons whatsoever and his decision on all matters in this regard shall be final and binding

**Mech. Engineer
for Director**

Email: abraham@tropmet.res.in

**INDIAN INSTITUTE OF TROPICAL METEOROLOGY, PUNE
DR. HOMI BHABHA ROAD, PASHAN, PUNE – 411008
(Ministry of Earth Sciences, Government of India, New Delhi)**

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Note: In case of the application form down loaded from Institute's website, the tender fee shall be enclosed along with their application in the form of Demand Draft drawn in favour of Director, IITM Pune payable at Pune along with their application. Application form without Tender fee will not be accepted.

**Mech. Engineer
for Director**

PROJECT HIGHLIGHTS

M/s. IITM (Indian Institute of Tropical Meteorology, Pune) is setting up a Research Center for Climate Change, at IITM Premises, Pune.

As the Building is proposed for Research on Climate Change, M/s. IITM has expressed their desire to set up the same, with the least amount of Power Consumption for Maintaining Indoor Conditions. The proposed Building is 18000 SqFt. approx., with 3 Levels.

In order to meet this tall demand, a System using "Radiant Cooling" and "Non Refrigerated" Cooling is proposed.

The proposed System will achieve Indoor Temperature by Cooling the Floor / Roof / Ceiling by Embedding PEX Piping in the RCC, and circulating Water in the Pipes. This will cool the RCC Mass and reduce Radiant Surface Temperature of Floor & Ceiling.

No False Ceiling is proposed in occupied Areas to take advantage of Radiant Ceilings.

The Concrete Mass is used to store Cooling Effect by Operating the System even during the Nights to take advantage of Lower Ambients, and use the "Flywheel" Effect of the Large Mass at Lower than Room Temperature.

Air for shared Load of Air conditioning will be drawn into an Earth Pipe Heat Exchanger, to be pre-cooled, by contact with the Constant Temperature Earth, at 4 M below Surface.

After this precooling, the Air shall be further cooled in an Air Handling Unit with Water Coils. Cooled Water to the Coils will be supplied from a "Non Refrigerant" Cooling System, along with Supply to the "Radiant Slab".

Air will be distributed to each occupied Area at Lower than Ambient Temperature, and will be directed directly on to occupants, to achieve adequate Velocity. Masonary Ducting from below Ground to connect to each Floor shall be used.

The Air will over flow into the Central Area and get Exhausted from the Top most part of the Building.

The Cooling System for Water shall comprise of a Cooling Tower, with "Certified" Performance to cool Water to within 2 deg.C of Ambient WBT.

A Cascaded Indirect Cooler, using the same cooled Water, shall be used to pre-cool Cooling Tower Air Inlet, to reduce the WBT and hence cool Water to below Ambient WBT, especially in summer.

Two Cooling Towers of 75% Capacity are proposed to ensure to lower Water Temperature.

With this System, in Pune, where WBT does not exceed 24 deg.C in Monsoon, and around 20 deg.C in Summer. The "Operative Temperature" Indoors, shall be maintained below 25 deg.C except Monsoon when the Temperature can drift upto 27 deg.C "Operative Temperature". No Controls are proposed to take Maximum Advantage of Float available with Ambient Variations.

A Monitoring System is proposed to record various Temperature for Fine Tunning the System later.

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DR. HOMI BHABHA ROAD, PASHAN, PUNE – 411008
(Ministry of Earth Sciences, Government of India, New Delhi)
TENDER NOTICE NO-IITM/RAD/01/2011

PRE QUALIFICATION FORM

- 1) i) Name of Contractor/Firm :
- ii) Postal address :
- iii) Telephone No. :
- iv) Fax No. :
- v) Mobile No. :
- vi) E-mail Address :
- 2) Name of the Contact person with Phone No. :
- 3) Please mention status:
- i) Proprietary firm: Yes/No*
- ii) Partnership firm: Yes/No*
- iii) Pvt. Ltd. Co: Yes/No*
- iv) Public Ltd. Co.: Yes/No*
- (* Strike out whichever is not applicable)
- 4) Mention the names of Partners or Directors
- 1).....
- 2).....
- 5) Annual turnover of the firm for last 3 years as Certified by the Chartered Accountant vide Form F.
- 2007-2008 Rs.
- 2008-2009 Rs.
- 2009-2010 Rs.
- 6) Whether the firm is having Valid Service tax Registrations: Yes/No
- 7) Whether the list of similar works executed is enclosed in form "A": Yes/No
- 8) Whether the list of works in hand is enclosed in form "B": Yes/No
- 9) Whether the list of Qualified Manpower is enclosed in form "C": Yes/No
- 10) Whether the Financial information is given in Form "D": Yes/No

The information given above and in the enclosed forms and annexure is true to the best of my knowledge and belief and I am fully responsible for its correctness

Date: _____

Authorized Signature

FORM B Sheet 1 No.

LIST OF TECHNICAL PERSONNEL OF THE TENDERER LIKELY TO BE APPOINTED ON THIS WORK

NAME OF WORK:

Sr. No.	Name of Persons	Designation / holding the post in the firm.	Status in the firm	Academic Qualification & experience	Remarks & any other points.
1.	2.	3.	4.	5.	6.

NOTE:-

1) Continuation sheet shall be used if required.

2) The Tenderer should produce either a copy of form No. 24 of annual return of I. T. Authority for schedule of employees attached to the latest annual report or such other proof like extract of employment tax register, to the satisfaction of tender inviting authority.

Tenderer

**Director
IITM,Pune**

FORM 'D' Sheet No. I

DETAILS OF OTHER WORKS TENDERED FOR AND IN HAND ON THE DATE OF SUBMISSION OF THIS APPLICATION

NAME OF TENDERER. :

Sr. No	Name of work	Name of organization and place of work	Work in hand			Works tendered For			REMARKS
			Tendered cost	Cost of remaining work	Anticipated date of completion	Estimated cost.	Date when decision is Expected.	Stipulated period for completion.	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.

NOTE: - The continuation sheet may be used if required.

Tenderer

The Director, IITM

FORM – ‘E’

**CERTIFICATE IN RESPECT OF COMPLETION OF
WORK BY TENDERER.**

1. Name of Tenderer. : _____
2. Name of work. : _____
3. Estimated cost put to tender. :Rs. _____
: _____
4. Period stipulated in tender : _____
for completion of work.
5. Date of work order. : _____
6. Actual Date of completion. : _____
7. If time over-run, the reasons : _____
for the same.
8. Final cost of work completed. : _____
- i) Has he started the work promptly
after issue of work order? YES / No
- ii) Has he maintained the progress:
of work as per agreement? YES / No
- iii) Quality of work :Excellent / Good / Satisfactory.**
- iv) Compensation / Penalty levied : _____**
if any, with reasons. : _____

9. Any other information about : _____
the overall performance of : _____
the Tenderer, the authority : _____
may like to mention. : _____

Tenderer

The Director, IITM

Certified that the information given above is based on the facts and figures recorded in this office through various documents and is true to the best of my knowledge and belief.

Signature and seal of Officer issuing the Certificate.

Outward No. : _____

Dated : _____

NOTE: - 1) For works costing Rs1.5 Crore and above certificate issued by the S. E. or duly countersigned by the SE/CE shall be accepted.

Tenderer

**Director
IITM,Pune**

FORM – ‘F’

FINANCIAL STATEMENT

1. Name of Contractor/ Firm : _____ (In
case of Joint Venture /
Consortium, the name
of the Consortium firm). _____

2. Summary of Assets & Liabilities :
on the basis of the audited financial
statement of the last three financial
years. (Attach copies of the audited
financial statements of the last three
financial years)

		Year 2007- 2008(Rs. In Lakhs)	Year 2008- 2009(Rs. In Lakhs)	Year 2009- 2010(Rs. In Lakhs)
A)	Authorized capital			
B)	Issued capital			
C)	Paid up Capital /Partners / Proprietor Capital.			
D)	Reserves & Surplus.			
E)	Long term liabilities.			
F)	Current liabilities & Provisions.			
G)	TOTAL (C + D + E + F)			
H)	Net Tangible Fixed Assets.			
I)	Intangible Assets.			
J)	Long term investment			
K)	Current Assets, loans & Advances.			
L)	TOTAL (H + I + J + K)			
M)	Quick Assets i.e cash & equivalent, short term investment and current receivables.			
N)	Net profit after interest and depreciation.			

Tenderer

Chartered Accountant
along with seal

The Director,
IITM

Detail Calculations for all the Ratios should be submitted on separate Annexure.			
5.	Applicants financial arrangements (Mention amount in Rupees)	:	Rs.
a)	Own Resource	:	Rs.
b)	Bank Credit.	:	Rs.
c)	Others (Specify)	:	Rs.
6.	Certificate of financial soundness from bankers of applicants together with their full address.	:	
7.	Credit Facilities :	:	
a)	Name / Address of Nationalized Bank providing credit line.	:	
b)	Total Amount of credit line (Attach certificate from the bank)	:	
8.	Approximate value of works in hand.	:	
9.	Bid capacity i.e. (Ax N x2) – B where-(shall not be less than the cost put to tender)	:	
A	Maximum of the updated values of electrical / civil Engineering works executed in one of the Preceding 3 years. The updating of the Value of work should be done at 10% per annum (compounded) by multiplying the Values with applicable factor i.e. 1.10, 1.21, Or 1.331 as the case may be.		
B	Value of existing commitment and works (on going or to be completed in the period stipulated for completion of the work in the present tender) i.e. from _____ to _____		
N	Number of years prescribed for completion of the work for which tenders are invited. = _____ Year.		

Tenderer

The Director,
IITM

1. Agencies who fulfill the following requirements shall be eligible to apply.

- I. Bidders should be a registered firm/company as per relevant norms and acts of Firm/company registrations set out by Government of India.
- II. Bidders should be into the business of HVAC installation for buildings, green building concept etc.
- III. Bidder should have PAN number, Service Tax number and TAN number.
- IV. Bidders should be at least 10 years old establishment.
- V. Bidder should have never faced penalties in form of liquidated damages or black listing.
- VI. Bidder should have adequate technically qualified and experienced engineers and associated staff and establishment required for offering expected Project Management Services. The project of similar magnitude and nature.

2. Documents to be furnished by bidders

2.1 Bidders should submit the following documents.

- a) Copy of PAN and TAN.
- b) Copy of Service Tax Number.
- c) Copy of Partnership deed/Memorandum of Articles of agreement.
- d) Copy of registration.
- e) Copy of valid ISO certification or equivalent certification.
- f) Copy of audited balance sheet for last three financial years.
- g) Copy of Solvency certificate.
- h) Copy of client certificates regarding project management services provided by bidder with details towards nature of services provided, details of project handled, approx. value of project handled etc.
- i) Copy of certification of appreciation if any.

Tenderer

The Director, IITM

2.2 Bidders may specifically indicate, whether they have handled any projects for Central Govt. /PSU and/ or they are presently handling any project for Central Govt./PSU. If so, they should give details towards type of project, value of project, time taken for completion, along with address and concerned person of such Central Govt. /PSU.

2.3 Bidders should submit their detailed profile indicating the present infrastructure available with them in terms of space, Engineers available with them, other associated staff etc.

2.4 Bidders should submit prequalification form along with Form-A, Form-B, Form-C, Form-D, Form-E and Form-F duly filled and signed by their Authorized signatory.

3. Selection criteria for pre bid qualification

3.1 Bidders who fulfill eligibility criteria will be evaluated by a Committee based on the following parameters:-

General background and experience

- (i) Average turnover from Contractor during the last 3 years.
- (ii) Relevant experience in Radiant Cooling for past 3 years.
- (iii) Manpower commitment, dedicated team and team leader, comprising qualified & experienced Engineer, Quantity Surveyor, Safety & Quality assurance Engineer, Electrical Engr, Mechanical Engr. (HVAC) etc.

(iv) Any other information provided by the firms in the form of enclosures along with their company profile shall be considered on merit.

4. Bidder should submit the completed Pre-bid Qualification applications along with tender fee in a sealed envelope with Name of the work, Notice No. and address of the applicant super scribed on the envelope so as to reach to, The Director, Indian Institute of Tropical Meteorology, Dr. Homi Bhabha Road, Pune-411008 by **08.03.2011 by 13.00 hrs.** The forms received after **08.03.2011** will not be accepted.

Applications should accompany cost of application of **Rs. 1000(Rs One thousand only)**- in the form of Demand Draft drawn in the favour of Director, IITM payable at Pune.

5. Those bidders who are considered as prequalified will be intimated in due course
6. In addition to the above, any other services you will be providing to the institute shall be indicated separately on your letter head.
7. The decision of IITM is final in selecting the Architectural firms/Consultant.
8. The Director IITM, Pune reserves the right to accept / reject any or all the application/ proposal in full or part thereof without assigning any reason whatsoever & his decision on all matter in this regard shall be final & binding.

Tenderer

**Mechanical Engineer
For Director
IITM, Pune-8**