

TENDER FOR DEVELOPMENT AND IMPLEMENTATION

OF

**Unified SAFAR Online Visual Application
Portal
(USOVAP)**

**INDIAN INSTITUTE OF TROPICAL METEOROLOGY,
DR. HOMI BHABHA ROAD, PASHAN, PUNE-411008.**

TENDER ENQUIRY No:C-50.47/SAFAR-II

**TENDER FOR
DEVELOPMENT OF**

Unified Online Visual Portal

**INDIAN INSTITUTE OF TROPICAL METEOROLOGY,
AT DR. HOMI BHABHA ROAD, PASHAN, PUNE-411008**

NAME OF WORK : TENDER FOR DEVELOPMENT OF
**Unified SAFAR Online Visual
Application Portal**
AT INDIAN INSTITUTE OF TROPICAL
METEOROLOGY, DR.HOMI BHABA ROAD,
PASHAN, PUNE-411008

PERIOD OF ISSUE OF BIDDING DOCUMENT : FROM 7.8.2013 TO 19.8.2013

LAST DATE AND TIME FOR RECEIPT OF BIDS : 20.8.2013 TIME 12.30 HOURS

TIME AND DATE OF OPENING OF TECHNICAL BIDS : 20.8.2013 TIME 15.00 HOURS

PLACE OF OPENING OF TECHNICAL BIDS : INDIAN INSTITUTE OF TROPICAL
METEOROLOGY, DR.HOMI BHABHA
ROAD, PASHAN, PUNE-411008

OFFICE INVITING BIDS : INDIAN INSTITUTE OF TROPICAL
METEOROLOGY

COMPLETION PERIOD : TWO MONTHS FROM THE DATE
OF RECEIPT OF L.O.I.

Salient Features

Name of Work	Design, development and deployment of a Unified SAFAR Online Visual Application Portal (USOVAP)
Period of Completion	Two months from the date of receipt of LOI

The Director, Indian Institute of Tropical Meteorology, reserves the right to accept/reject any one /all the tenders without assigning any reason thereof.

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COMPUTER ENGINEER
FOR DIRECTOR

INDIAN INSTITUTE OF TROPICAL METEOROLOGY PUNE 411 008 (INDIA)

GENERAL TERMS & CONDITIONS

TENDER ENQUIRY No:C-50.47/SAFAR-II

- 1) The Tenderers are requested to give detailed sealed tender in their own forms in two Bids i.e.

Part-I Technical Bid.

Part-II Commercial Bid

Both the bids addressed to
The Director,
Indian Institute of Tropical Meteorology,
Dr. Homi Bhabha Road, NCL Post,
Pashan, Pune – 411 008, INDIA.

- 2) You have to submit two separate bids in two separate envelopes and you may keep both the bid envelopes in an envelope for sending to us.
One envelope will contain only the **TECHNICAL DETAILS** of the Project.
Another envelope will contain only the financial bid in which price, maintenance, AMC, CMC, etc. and any other information, which has financial implications, will only be given.
- 3) Please indicate page nos. on your quotation ex. If the quotation is containing 25 Pages, please indicate as 1/25, 2/25, 3/25 -----25/25.
- 4) Tenders addressed to the Director, Indian Institute of Tropical Meteorology, Pune 411008 are to be submitted for each item in duplicate in double cover, under two bids system. Superscripted with Tender No..... for purchase of “Unified SAFAR Online Visual APPLICATION Portal” – Qty 01 Set due on
- 5) The Technical bids will be opened on the specifies due date in presence of tenderers who wish to be present and the financial bids of only those bidders will be opened whose technical bids are found suitable by us.
- 6) Date and Time of opening for Part-II (commercial bid) will be intimated only to pre-qualified and technically acceptable Tenderers at a later date.
- 7) This tender is **not transferable**.
- 8) Fax / E-mail / Telegraphic / Telex tenders will not be considered**
- 9) Pre-qualification criteria for selection of technically qualified firm:**
- Please see Annexure-1 - the Technical Specifications document.
- 10) Installation and Training is to be provided to the concerned scientists / personnel of IITM.
- 11) Cost of the items should be mentioned clearly in the Commercial Bid (Part-II) only. The optional and any other essential items / services required for the maintenance of the project for the next five years should also be specified in the offer separately.

- 12) Indicate the names of the Indian reputed Organizations where you have executed similar projects and may attach the satisfactory performance report of the equipment from user Organization.
- 13) Details of services rendered by you as well as after-sales services offered by you are to be made clear in the tender.
- 14) The Tenderer's conditions printed on the tender or otherwise sent along with the tender shall not be binding on IITM.
- 15) The vendor should have appropriate facilities and trained personnel for supply, installation, commissioning the system. Detailed information in this regard may be furnished.
- 16) **Delivery Period:** As time is the essence of the contract, Delivery period mentioned in the Purchase Order should be strictly adhered to.
- 17) Supply means "Design, development and deployment of a Unified SAFAR Online Visual Application Portal (USOVAP) ". If any charges extra for Installation, configuration, customization and training, the same should be specified in the commercial offer.
- 18) Kindly attach a copy of your latest DGS&D, New Delhi registration Certificate under the compulsory Scheme of Ministry of Finance regarding the registration of Indian Agent of foreign supplier wherever it is applicable.
- 19) a) The Tenderer is required to furnish the Permanent Account Number (PAN) Allotted by the Income Tax Department. If registered with the National Small Industries Corporation, the registration number, purpose of registration and the validity period of registration' etc. should also be provided in Technical Bid for Indian Agents.
- b) A copy of latest Income Tax Clearance Certificate from Income Tax Department (INDIA) for Indian Agents.
- 20) **The software should be supplied with source code, logic diagrams, detailed documents and the manuals including functional and operational details for the entire source code should be complete in all respects to operate the system without any problem.**
- 21) Tender must clearly indicate the features offered unit price, VAT tax, transport, transit insurance, installation charges. Institute cannot furnish any concessional certificate for exemption or reduction in VAT tax or any other duty / tax except mentioned above.
- 22) The vendor should mention the price of all the component of the project and the duties / taxes to be paid such as customs duty / excise duty / Service tax/ VAT taxes etc.

separately.

23) a) No advance can be paid.

b) For Unified Online SAFAR Visual Application Portal Project.

i. 90 % on completion and acceptance of the complete project.

ii. 10% on execution on **Bank Guarantee** from a nationalized bank valid till completion of project duration.

c) Quarterly payment for support Charges and AMC charges.

24) The prices quoted should be firm and irrevocable and not subject to any change whatsoever, even due to increase fluctuation in the foreign exchange rates and excise duty.

25) **INSTALLATION:** Bidder shall be responsible for installation / demonstration wherever applicable and for after sales service during the period of project and thereafter.

26) Acceptance tests to be prescribed later will be carried out after installation/deployment and all the modules of system will be taken over only after successful completion of the acceptance tests.

27) The tenders must be clearly written or typed without any cancellations / corrections or overwriting.

28) IITM will not be responsible:

a) For delayed / late quotations submitted / sent by Post / Courier etc.

b) For submission / delivery of quotations at wrong places other than the dispatch section, IITM, Pune.

29)The Technical Bid should accompany with complete project methodology, Bar Chart for completion of project, estimated Man Hours and relevant Technical Literature/Brochures with Warranty Terms.

30) The tender / quotation / offer submitted by you should be valid for a minimum period of **three months** from the date of opening the tender.

31) The quotation should be only in Indian Rupees.

32) **WARRANTY/GUARANTEE:**

(a) The USOVAP system should have minimum one year warranty.

(b) The Project work should be guaranteed for trouble free performance during entire warranty period.

33) After acceptance there should an Uptime of 99% under SLA, Failing which penalty shall be imposed as mentioned in pt no. 46.

- 34) No sub-contracting will be allowed for installation or maintaining the system during the project period.
- 35) You have to quote rates for AMC / CMC, if any, only in commercial bid.
- 36) Any upgrade in supplied software and associated other software during the project period should be supplied free of charge.
- 37) Discount offered should be mentioned clearly in the commercial bid only.
- 38) The Tenderers are requested to quote for Educational Institutional Prices for Softwares, since we are eligible for the same.**
- 39) This Institute is an autonomous scientific research organization under the Ministry of Earth Sciences and is a recognized centre for studies leading to M.Sc. and Ph.D. of the University of Pune and various other Universities. As such, all possible concessions / discounts / rebates applicable for educational Institutions may be given.
- 40) All the required commercial/ licensed software's required to develop the application are to be included along with the project cost.
- 41) a) Tenders, which are submitted without following the Two-Bid Offer System, will summarily be rejected.
b) Unsigned Tenders will also be rejected.
c) Part and incomplete tenders are liable to be rejected.
- 42) Software should not be deployed until the Vendor receives a firm order.
- 43) The purpose of certain specific conditions is to get or procure best service etc. for IITM. The opinion of Technical Committee shall be guiding factor for Technical short listing.
- 44) In the event the Company proposes for amalgamation, acquisition or sale of its business to any firm during the contract period, the Buyer/Successor of the Principal Company, if any, are liable for execution of the contract and also fulfillment of contractual obligations i.e. supply, installation, commissioning, warranty, maintenance/replacement of spares accessories etc. with the same cost / ordered value while submitting your bid, you may confirm this condition.
- 45) Conditional Offers will not be considered.

46) SLA and UPTIME

The Service Level Agreement should ensure 99% uptime of the application for the whole calendar year including Holidays, Additional Maintenance downtime of 01 day (Non Working Maximum up to 12 hours) will be allowed per Month, Unplanned Downtime of the Application due to reasons not accountable by IITM will be penalized at the rate of Rs. 1000/- per hour of downtime. The Amount shall be deducted from any money due or which may become due to the Vendor. The SLA shall be applicable during warranty period .

47) TERMINATION

This Contract may be terminated in whole or in part from IITM by giving 30 days notice in writing, if any of the following events occur in respect of USOVAP.

- a. If SRS is not completed within 15 days from issue of LOI, IITM reserve its right to terminate the contract and encash the performance security given. Also any time during the currency of contract, if progress found to be unsatisfactory, IITM may terminate the contract without any compensation to the contract apart from forfeiting the performance security(Bank Guarantee).
- b. Company goes into liquidation or is subject to proceeding in any court for the compulsory winding up of project, or is subject to the supervision of a court either voluntarily or otherwise.
- c. Commits any other act or omission constituting a breach of any material obligation required on its part to be performed or observed under this contract.

48) LIQUIDATED DAMAGES.

The completion of the scope of work of the contract shall be deemed to be the essence of the contract. In the event of the contractor failing to complete the job within the time specified in the contract or any extension agreed thereto, IITM shall have the right to recover from the contractor as liquidated damages a sum at the rate of 1% of contract value per week not exceeding a total of 20% of the value of the contract. The aggregate liability of the contractor under this agreement is limit to the amount of consideration received.

If the total time period of the contract exceeds one year for no fault of a contractor, the contractor will be given extension of time but without any additional cost if no change in scope of work.

- 49) All disputes are subject to exclusive jurisdiction of Competent Court and Forum in Pune, India only.
- 50) The Director, Indian Institute of Tropical Meteorology, Pune 411 008, India reserves the right to accept any tender in full or in part or to reject the lowest or any or all tenders without assigning any reason.
- 51) In case of any dispute regarding part-shipment, non-compliance of any feature etc., The Director, Indian Institute of Tropical Meteorology, Pune will be the final authority to decide the appropriate action and it will be binding on the Vendor.

Commercial Bid Format

Vendors should submit the BOQ in the following for format. Commercial rates are to be left blank in the technical bid, but other details like, description of item or services, quantities..etc are to be duly filled and submitted along with technical bid.

Commercial rates are to be quoted in INR and are to be submitted only with commercial bid. All the applicable taxes are to be considered while quoting taxes. Evaluation will be done on Total Cost of Ownership for 5 years.

Sr. No	Description	Quantity (No of items, Set, etc)	Unit Rate in INR (cost per item)	Taxes (Tax details)	Total in INR (Unit rate x Quantity + taxes)
1.	USOVAP Project Design, Development, Deployment and commissioning Charges for integrated 25 stations of Pune and Delhi (Gross)	01 (set)			
2.	Operational and maintenance contract for whole system for 5 years	01 (set)			
Total Cost of the entire Solution/Project for five years					

Optional quote:

3.	Charges for integrating set of 10 similar stations/modules each for other cities in the same application	01 (set)			
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Pl. note above contract rates should be valid 5 years if additional sets are integrated

Unified SAFAR Portal

Technical Specifications

Version No. 1.1

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1. Overview

Background

Indian Institute of Tropical Meteorology, Pune (IITM) is a premier research institute in the domain of environment and weather research.

IITM is proposing to build a portal to make available Air Quality and Weather data for various cities in India. In addition to this, the portal will also show Air Quality and Weather forecast for next 36 hours. In the first phase, cities of Delhi and Pune will be covered. In future, the project may get extended to more number of cities.

For this IITM has already successfully implemented SAFAR (System of Air Pollution Forecasting and Research) in Delhi and is in the process of implementing SAFAR in Pune.

Now IITM proposes to build a Unified SAFAR Portal by using data generated by SAFAR stations and make it available to public at large.

The document here under gives specifications of proposed system and will be used as basis for calling tenders for developing and maintaining the systems for next 5 years.

2. Requirements

Portal Features

Proposed IITM Unified SAFAR Portal should offer following features –

Public Portal Features

1. A public portal that can be accessed by any citizen to view air quality at various locations.
2. General public will not be shown concentration values of various parameters (polluting gases) as they will not understand its significance. Instead an Air Quality Index (AQI) is to be calculated and displayed
3. Dashboard based pages for graphical view of current and forecasted Air Quality Index
4. Dashboard based pages for current and forecasted weather data
5. Tree structure for locating stations in each city and area
6. Map view for locating stations in each city and area
7. Real time data display in tabular and trend formats
8. Historical data display in tabular and trend formats with ability to choose time periods
9. Ability to integrate IITM specific content and graphics in the portal
10. Multilingual capability for developing Indian language interface in future
11. Ability to develop additional dashboard widgets in future as requirements build up

Authorized Users Portal Features

1. The portal will have a section accessible to only authorized users
2. These users can view data of polluting gases
3. Real time data display in tabular and trend formats
4. Historical data (instantaneous, average, min, max, diurnal variation) display in tabular and trend formats with ability to choose time periods
5. Flagging of data (flags for percent validity, total range, measurement range, permissible range)
6. Raise alerts when permissible range is crossed and send it to specified users by SMS / email
7. Reports
 - a. Station report
 - b. Multi-station report
 - c. Parameter comparison report
 - d. Abnormal data report
8. Scheduling of reports and sending reports by email
9. Data export in CSV format
10. An Administration Tool for configuration of stations, parameters, flags etc.

Scope of work

The vendor should supply a solution to fulfill all above specifications. In order to get a cost effective solution quickly, it is preferred that the vendor uses an existing product owned by the vendor and customizes it for the given requirements. Following phases are included in the scope

- Customization of product to suit IITM Specifications
- Integration with servers
- Deployment

- Training for IITM users
- Support and maintenance for 5 years

Current project is to be implemented for following cities –

- A. Delhi – 10 stations each collecting data of pollution parameters and weather parameters
- B. Pune – 15 stations each collecting data of pollution parameters and weather parameters

Data from all above stations will be available at few servers and the proposed system should read it from these servers.

Implemented solution should be capable of being scaled up to cover other cities as when required without needing major modifications/ upgrades.

Deliverables

Following software modules should be delivered

1. Software for portal satisfying requirements stated above
2. Data acquisition software to read data as per specified intervals from –
 - a. SAFAR server at Delhi – air quality parameters
 - b. Weather data server at Delhi – weather parameters
 - c. IITM FTP Server in Pune - air quality parameters, weather parameters, forecasting data for Delhi and Pune
3. Software module for SMS Gateway connectivity for SMS alerts
4. Software module for Email server connectivity for email alerts
5. Administration utility for administration of entire portal

Server hardware, complete infrastructure, connectivity amongst all components and static IP address for this portal server will be provided by IITM.

Qualification Requirements for vendor

Vendor for Unified SAFAR Portal should fulfill following criterions

1. Company should be operating in India at least for a period of 3 years and should have presence in Pune
2. Should have executed similar projects involving real time data collection and display. Give information of at least one such project in your proposal
3. Should provide client testimonials for relevant work done
4. Should have capability of developing multiple Indian language interfaces for public portal
5. Should be capable of maintaining and supporting the portal for minimum 5 years
6. Company should have adequate quality processes in place preferably certified by a quality / standards body

INDIAN INSTITUTE OF TROPICAL METEOROLOGY

TENDER NO. C-050-47/SAFAR

**TENDER FORM FOR SELECTION OF IT COMPANIES FOR DESIGN, DEVELOPMENT &
USOVAP SYSTEM IN IITM**

1. Particulars of Applicant Company	
Name of the Company	
Registration No.	
Address	

	City		Pin
	State		E-mail *
Website Address			
Type of company	Government	Public Sector Undertaking	Private Limited
	Partnership	Public Limited	Proprietorship

* Email sent on this address will be treated as valid communication. Add a separate sheet, if necessary

2. Details of EMD (not applicable)E for this tender			
Demand Draft No.	NA	Dated- NA	Amount- NA
Drawn on (Bank & Branch)	NA		

3. Particulars of Director/CEO/Proprietor/Partner			
Name & Designation	Address	STD Code	
		Tel. No.1	
		Tel. No.2	
		Fax No.	
	City	Mobile	
	State	Pin	
E-mail			

4. **Particulars of Contact Persons**

S No.	Name & Designation	Address	Numbers
1.			STD Code
			Tel. No.
			Fax No.
			Mobile
			E-mail

2.			STD Code	
			Tel. No.	
			Fax No.	
			Mobile E-mail	

5. Location of Offices in & around Pune

S No.	Name of Head	Address		
1.			STD Code	
			Tel. No.	
			Fax No.	
		City:	Mobile	
		Pin Code:	E-mail	
2.			STD Code	
			Tel. No.	
			Fax No.	
		City:	Mobile	
		Pin Code:	E-mail	

6. Turnover for last three years (All amounts in Indian Rupees and in Lacs only)

Year	Period (Month/Year) From To	Total Turnover of the Company
2010-2011		
2009-2010		
2008-2009		

7. Certifications	Yes/No (Indicate the level wherever it is applicable)	Valid up to
ISO-9001: 2000 in software development		
Any other (Please specify)		

8. Experience	Years	Months
Software Development including preparation of SRS		

Data portal Projects		
Other IT / Software Development Projects		

Add a separate sheet, if necessary

9. Details of customers for which application Software developed or SRS prepared

Name & Address of Customer	Contact Person & Tel.No	Your own standard solution	Value (Rs. In lacs)	Duration as per contract
1				
2				
3				

9.1 Projects completed during last 2 years

1.				
2				

1.2.
1.3.
1.4.
1.5. 9.2 Projects completed prior to last 2 years

1				
2				

Add a separate sheet, if ne
Note: Attach explanatory
two pages.

10. Details of IT Professionals
No. of full time Software Professionals likely to be deployed for this project. Please attach list of software professionals along with their qualifications and experience.

11. Any other information that Applicant Company wants to give
Add a separate sheet, if necessary

12. List of Enclosures

(i)	
(ii)	
(iii)	
(iv)	
(v)	
(vi)	
(vii)	

Undertaking

This is to certify that I have gone through all the pages of the tender document. The applicant company undertakes to abide by all the terms & conditions mentioned in the EOI tender document. It is further certified that the information furnished in the tender is true and correct.

Date:

Signatures:

Place:

Name:

Designation:

Seal

In the Event of any of above information found to be false, we understand that own EOI proposal tender can be forfeit the EMD submitted for this tender.
