



GOVERNMENT OF PAKISTAN
Pakistan Meteorological Department
Meteorological Complex, Headquarter (Camp) Office
University Road Karachi

INVITATION TO BID

Pakistan Meteorological Department, Met. H.Q's Camp Office Karachi, a Scientific and Service providing Department, (Project Funds " Installation of Weather Surveillance Radar at Sukkur") invites sealed bids from the original manufacturers /authorized distributors /suppliers/Contractors etc., registered with Income Tax and Sales Tax Departments for supply of Automatic Weather Station (F.O.R Basis)

2. Bidding documents, containing detailed terms and conditions, method of procurement, procedure for submission of bids, bid security, bid validity, opening of bid, evaluation criteria, clarification / rejection of bids, performance guarantee etc. are available for the interested bidders at www.ppra.org.pk or www.pmd.gov.pk which can be downloaded **free of cost**.

The bids, prepared in accordance with the instructions in the bidding documents, must reach at Indent and Purchase Section, Met. Headquarter's Camp Office, Met. Complex, University Road, Karachi. . Bids will be opened the same day on **29-09-2021** Closing at 11:00 a.m.

(SARFARAZ)
Project Director
for Director General
Ph.# 021 99261425



GOVERNMENT OF PAKISTAN
Pakistan Meteorological Department
Meteorological Complex, Headquarter (Camp) Office
University Road Karachi

TENDER NOTICE NO. 1 (2021-22)

Pakistan Meteorological Department, Karachi (**Project Funds "Installation of Weather Surveillance Radar at Sukkur"**) invites sealed quotations from reputable firms registered with the Sales Tax & Income Tax Departments for supply of following items.

S. No.	Description of items	Quantity	Dates & time
01.	Automatic Weather Stations (on F.O.R. Karachi Basis)	05 Nos.	29-09-2021 (Closing at 11:00 a.m.)

Terms and conditions:

1. Quotation under sealed cover clearly written the name of item on the envelope should reach this office on or before the above mentioned date up to **11:00 PST** & will be opened on the same date at **11:30 PST**.
2. Department reserves the right to accept or reject any items or all tender as per PPRA rules.
3. The tender must be accompanied with a Pay Order of 2% earnest money including all taxes (refundable) in favour of **Director General, Pakistan Meteorological Service, Karachi**.
4. PMD, Karachi will follow the PPRA rule of single stage two envelope procedure
5. Tender documents (Free of cost) can be downloaded from websites: www.ppra.org.pk or www.pmd.gov.pk

(SARFARAZ)
Project Director
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FOR SUPPLY ON F.O.R BASIS

DETAILED SPECIFICATION

Automatic Weather Stations(Qty. 05 Nos.)

S/No	Item	Specification
1.	Data Logger	<ul style="list-style-type: none"> • Operating System: Open source with web-browser interface. • Capability to Store and transmit sensors data as per WMO standards. • Sensors library should be up to date and inclusive of all types of state of the art sensors. • Separate configuration and display software. • Processor: 32 bits or better with A/D Converter • External GSM/GPRS modem for data transmission via GSM/GPRS network with FTP protocol and reception acknowledgment enabled. SIM Card: 3 V or 1.8 V with external antenna. Data Logger should have external SD memory card for data storage up at least one (01) year. • Rust proof casing with capacity to house 65 AH battery inside along with logger and charge controller etc. • Operating Temperature: -30 to +60 °C • Operating Voltage: 12V DC (solar/battery)
	Communication Port	<ul style="list-style-type: none"> • serial ports RS 232, RS 485, SDI, 2 USB, 1 LAN Ethernet port 10/10 M bits
	Watchdog Timer	<ul style="list-style-type: none"> • Simultaneous communication on all ports. • System reset upon microprocessor failure.
02.	Solar Panel	<ul style="list-style-type: none"> • Photo voltaic solar panel to charge batteries from solar energy, 12 Volt and min Watt power as per aws requirements. • Capable of keeping the battery afloat round the year.
03.	Charge Regulator and battery	<ul style="list-style-type: none"> • 30 ampere with MPPT technology, with all voltage and charging programmable features. • Dry type, 65 AH battery
04.	a) Wind Speed Sensor according to WMO b) Wind Direction Sensor	<p>The required wind speed sensors should have dirt and water resistant construction and corrosion resistant materials with the following specifications and requisite mounting hardware and cable:</p> <ul style="list-style-type: none"> • Type of sensor: 03 Cup type, First Class • Classified according to IEC 61400-12-1 EDITION 2.0 (2017-03)

S/No	Item	Specification
	according to WMO	<ul style="list-style-type: none"> • Measuring range: 03 to 75 m/s • Starting threshold: < 0.4 m/s • Linearity: R,0.99999 • Accuracy: $\pm 1\%$ from the measured value or $< \pm 0.2$ m/s • Relative Humidity: 0-100% • Wind load: Approx. 100N @ 75m/s • Survival speed: 80 m/s (min. 30 minutes) <p>The required wind direction sensors should have dirt and water-resistant construction and corrosion resistant materials with the following specifications and requisite mounting hardware and cable.</p> <ul style="list-style-type: none"> • Type of sensor: TMR-Sensor, Tunnel Magneto Resistance • Measuring range: 0 to 360 Deg. • Delay distance, 1.8 m (acc. To ASTM D 5366-96) • Accuracy: ± 0.75 Deg. • Output 16 bit serial synchronous • Operating temperature: -30°C to $+80^{\circ}\text{C}$ • All occurring situations of rel. humidity incl. dew moistening. • Relative Humidity: 0-100%
05.	Combined Air Temperature and Humidity Sensor with Shield according to WMO	<p>a) <u>Temperature Sensor according to WMO</u> The required temperature sensors should have dirt and water-resistant construction and corrosion resistant materials with the following specifications and requisite mounting hardware and cable:</p> <ul style="list-style-type: none"> • Measurement range: -40°C to $+60^{\circ}\text{C}$ • Output: Pt 100 1/3 DIN 4 wires • Accuracy: $\pm 0.1^{\circ}\text{C}$ <p>b) <u>Relative Humidity Sensor according to WMO</u></p> <ul style="list-style-type: none"> • Continuous measurement relative humidity sensor; • Range: 0- 100% • Accuracy: + 1% RH full range • Excellent linearity and sensitivity with fast response and long-term stability. • Requisite Cable: 5m • Operating temperature range: -40°C to $+60^{\circ}\text{C}$
06.	Atmospheric Pressure Sensor according to WMO	<ul style="list-style-type: none"> • Range: 500 – 1100 hPa • Solid State • RS-485 or linear analog output voltage / current • Accuracy: +0.35 hPa accuracy. • Power supply +10 to 30V DC (reverse polarity protected) • Weatherproof PVC casing IP65.

S/No	Item	Specification
07.	Rain Gauge according to WMO standard	<p>Type of Sensor: 225 mm diameter steel type, Tipping bucket / read switch mechanism. The bucket tips for each 0.2 mm of precipitation empties and operates the output switch. Switch: Rugged Magnetic Proximity Switch Accuracy: +0.5% at 0.5 in./hr (1.27 cm/hr.) +2% at 2 in./hr (5.08 cm/hr) to 60 mm/hr. Mounting with three mounting legs; with requisite cable. Stainless Steel Housing Stainless steel fasteners. Sensitivity: 0.2mm Switch closer time: 10 millisecond.</p>
08.	Solar Radiation Sensor according to WMO	<ul style="list-style-type: none"> • Type: Pyranometer type solar radiation sensor “first class” according to ISO9060. • Cosine corrected high-stability silicon photovoltaic type to measure direct and reflected solar radiation. • With calibration certificate, leveling base and requisite cable. • Should be able to measure 0 – 2000 W/m² • Accuracy of ±5% for sensor range calibrated in accordance between 450 and 550 W/m² • Drift ±2% change over a 1 year period, threshold 0.1 W/m² • Operating temperature range of -40°C to +80°C and 100% RH • Should have required cable, made of weatherproof anodized aluminum with acrylic diffuser and stainless steel hardware or aluminum anti corrode. • 03 years replacement warranty after 3 months of validation period.

INSTRUCTION TO BIDDERS **TERMS AND CONDITIONS**

[All pages (Form of Quotations & Terms & Conditions) are mandatory to be signed /stamped, failing which the bid may be rejected.]

1. Any addition, deletion or modification of any clause of the procurement terms & conditions of PMD by any vendor will not be acceptable and may lead to rejection of the bid.
2. Only registered Suppliers, who are on Active Taxpayers List (ATL) of FBR, are eligible to participate in tender. Please also attach the Certificate supporting the Active Taxpayer as per requirement of FBR.
3. The supplier is well established firm /company in the business of relevant field with sound financial status.
4. The contract will be executed and handed over in satisfactory conditions up to the entire satisfaction of PMD.
5. **The bidder is required to furnish in form of Pay order equivalent to 2% of the total Bid price as Earnest Money in favor of “Director General Meteorological Services, Karachi Any bid not accompanied by Earnest Money shall be rejected without any right of appeal.**
6. Part / Advance payments is not allowed.
7. After opening of bids PMD, Karachi will examine the bids for completeness as per tender documents.
8. Purchase order will be awarded to the lowest and technically recommended bidder.
09. PMD, Karachi will follow the PPRA rule of **single stage two envelope procedure:**
 - The bid shall comprise a single package containing **two separate envelopes**. Each envelope shall contain separately the **financial proposal** and the **technical proposal**;
 - The envelopes shall be marked as “**FINANCIAL PROPOSAL**” and “**TECHNICAL PROPOSAL**” in bold and legible letters to avoid confusion;
 - Initially, only the envelope marked “**TECHNICAL PROPOSAL**” shall be opened;

- The envelope marked as **“FINANCIAL PROPOSAL”** shall be retained in the custody of PMD, Karachi without being opened;
- The procuring agency shall evaluate the technical proposal in a manner prescribed in advance, without reference to the price and reject any proposal which does not conform to the specified requirements;
- During the technical evaluation no **amendments** in the technical proposal shall be permitted;
- The financial proposals of bids shall be opened publicly at a time, date and venue announced and communicated to the bidders in advance;
- After the evaluation and approval of the technical proposal the procuring agency, shall at a time within the bid validity period, publicly open the financial proposals of the technically accepted bids only. The financial proposal of bids found technically nonresponsive shall be returned un-opened to the respective bidders;
- The bid found to be the most advantageous bid shall be accepted.

10. Guidelines for Technical Evaluation;

- I. Brief Profile of firm/company on company letter head (maximum 02 pages)
- II. Related work experience in Years
- III. List of Clients
- IV. All interested bidders are required to submit the samples (in case where the samples are required) well before opening of tender.
- V. Technical Evaluation will be done on the basis of sample provided and other parameters as mentioned. Any sample not meeting Standard shall be rejected and financial bid will be opened for technically accepted bids only.
- VI. Any vendor who failed to bring sample alongwith technical bid shall be rejected.

11. Bidders cannot challenge the finding of the evaluation or ask for reason of disqualification.

12. The bid should be submitted in a sealed envelope up to **September 22, 2021** on or before **1100PST** and will be opened on the same date **at 1130PST** in the presence of available bidders.

13. The envelope should be marked as under;

Project Director
Pakistan Meteorological Department
Meteorological Complex, University Road, Karachi.
Tel: 021-99261425, 9261410Ext:211

14. The envelope shall also bear the word **“CONFIDENTIAL”** and following identification quotation of **“Tender Notice No. RD-2(3)/2021-22/I”**.

15. If the vendor fails to deliver the goods / services to Central Meteorological Store, Karachi in time then the penalty will be charged as under:-

- a. 1% per day of the invoice price for 5 working days.
- b. 2% per day of the invoice price for further 5 working days.
- c. If the vendor fails to deliver the goods / services during the extended period then the purchase / work order may be cancelled, earnest money and payment may be forfeited.

16. If the delivered goods / services are not according to the required quality standards / specifications, the same shall be liable to be rejected after inspection. The vendor would be required to supply as per requirements, otherwise the purchase / work order will be cancelled after due date with confiscation of earnest money.

17. Deduction of Income Tax and any other tax will be deducted at source according to Government prevailing rules.

18. Payment will be made on submission of Invoice in the name of "Pakistan Meteorological Department, Karachi" with a copy of delivery challan (s) after the complete order has been supplied, inspected and accepted which includes delivery / installation, and PMD acceptance / inspection thereof.

19. Price should be quoted on F.O.R (Pak Rupees).

20. Offer should be valid for at least **90 days**. Withdrawal or any modification of the original offer within the validity period shall entitle PMD to forfeit the earnest money in favor of the PMD and / or put a ban on such vendor participation in PMD tenders / works.

21. It is the sole responsibility of the agent / supplier / manufacturer to comply with the applicable laws, be national or international.

22. In case of any dispute, decision of the Chairman Purchase Committee will be final and binding upon the parties.

23. The PMD reserves the right to modify the quantities of goods / services at any time before the award of purchase / work order.

24. PMD, Karachi reserves the rights to accept or reject the bid if;

- Received without earnest money
- Received later than the date and time fixed for tender submission
- The tender is unsigned/ unstamped
- The offer is ambiguous
- The offer is conditional
- Offer is made by the unauthorized agent/ supplier
- The offer is from a firm, which is black listed by any Govt. Office.
- The offer is received by telephone/fax.
- Any unsigned / ambiguous erasing, cutting / overwriting etc. is made.

25. The bidder should furnish a certificate as worded below in token of acceptance of all the terms and conditions of the tender. Otherwise the tender will not be considered under any circumstances.

- a) Please quote the rates on the company letter head, otherwise your bid may be rejected.
- b) Terms & Conditions should be attached with Technical and Financial bids, otherwise your tender/bid(s) may be rejected.

26. I / We The undersigned certify that the terms and conditions as contained in the documents vise, “ Terms and Conditions for Tender Notice of PMD, Karachi are accepted and that in the event of selection of my/our rate the agreement in the prescribed form will be entered into.

- Company / Vendor

Name:.....
.....

- Postal

Address:.....
....

- Tel. & Mobile:.....

- Email:.....

- NTN#:.....

- GST#:.....

Signature: _____
(Participating Firm)

(SARFARAZ)
Project Director
for Director General
Pakistan Meteorological Department

Stamp: _____

GENERAL / SPECIAL CONDITIONS OF CONTRACT/PURCHASE ORDER

- a) In case of placement of contract supplier is required to pay STAMP DUTY to Government of Sindh or require to submitted STAMP PAPER @0.35% of the contract value to this office under Article 15(a) of the Schedule to the Stamp Act, 1899.
- b) Successful Tenderer / Firm is required to submit 2% Earnest Money of the total contract value including all taxes, this amount will be converted into Security Deposit, and firm will deposit the remaining 3% amount of security deposit, required other than Earnest Money amount available with Department within 5 days, time failing which the Earnest Money will be forfeited and risk purchase effected at the cost of such defaulting firm.

DELIVERY TIME OR COMPLETION SCHEDULE

1-Delivery of Stores: Stores is required on F.O.R Karachi basis at C.M.S, Karachi within one month from the date of contract on free delivery to consignee basis, including all Taxes and other charges livable, if any.

- 2- If the vendor fails to deliver the goods / services to Central Meteorological Store, Karachi in time then the penalty will be charged as under:-
 - a. 1% per day of the invoice price for 5 working days.
 - b. 2% per day of the invoice price for further 5 working days.
 - c. If the vendor fails to deliver the goods / services during the extended period then the purchase / workorder may be cancelled, earnest money and payment may be forfeited.

FORM OF CONTRACT

**GOVERNMENT OF PAKISTAN
PAKISTAN METEOROLOGICAL DEPARTMENT
METEOROLOGICAL COMPLEX, UNIVERSITY ROAD
MET. HEADQUARTER OFFICE(CAMP OFFICE)
P. O. BOX NO. 8454 KARACHI-75270**

No.RD-2(3)/A.C/497/2019-20/

Karachi, the _____, 2021

PURCHASE ORDER

SUB: SUPPLY OF _____

- Office of Issue : Director General, Pakistan Meteorological Department, Headquarter's Camp Office, University Road, Karachi.
1. Name & address of Supplier : _____
2. Supplier's Quotation No. and date. : _____
3. (a) Supplier's National Tax No. : _____
- (b) Sales Tax Reg. No. : _____
4. a) Name of Indenter/ Purchaser. : Director General, Pakistan Met. Department, Meteorological Complex University Road, Karachi.
- b) Purchaser's National Tax No. : 9010608-3
5. Tender No. & Date. : _____
6. (a) Debits in respect of deliveries raised against : Director General, Sub-Office of A.G.P.R., Karachi.
- (b) Cost debitable to Head. : 041104-Meteorology-_____
7. The Indenting/Purchasing Department. : Government Department.
8. Delivery Schedule/date of delivery : _____ or earlier.
9. Place of delivery/Terms of delivery : Free delivery to consignee at Karachi.
10. Designation and address of consignee : Met. Incharge, Central Met. Stores, Meteorological Complex, University Road, Karachi. Ph:021-99261418
11. Specification of Supply : As per description of stores given in clause No.16 of this Purchase Order
12. Payment:-
- (a) Supply of Stores and Payment : Cheque of payment will be issued by the Director General, Sub-Office of A.G.P.R, Karachi. Cheque of payment issued by the D.G.P.R, Karachi will be delivered to M/s._____, Karachi by D.D.O, Cash, Meteorological Headquarter's Camp Office, University Road, Karachi
- (b) Year of payment : 2021-2022
13. Inspection:-
- (a) Inspection Authority : Test & Inspection Committee constituted by the Director General, Meteorological Services.
- (b) Place of Inspection : Central Meteorological Stores, University Road, Karachi.
14. Special Instructions:
- a) Please note that the price has been accepted on firm and final basis and as such no increase in the price will be admissible even if any new tax/duty is levied by the Government after submission of your quotation and Purchase Order price will remain un-changed.
- b) Any loss or demurrage etc. incurred due to in-appropriate packing or non compliance of instruction contained in the Purchase Order will be your responsibility on your account.

c) _____ will remain under 01 year standard warranty.

15. You have furnished the pay order No. _____ dated _____ issued from Bank amounting to Rs. _____ and pay order No. _____ dated _____ amounting to _____ issued from the same bank submitted as security deposit. These pay orders will be returned back to you only after successful execution of the Purchase Order.

16. DESCRIPTION OF STORES:-

S. No.	Description of Store	Quantity	Unit Price with Taxes	Total Cost with Taxes.
01				
Grand Total:				

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Meteorologist
for Director General
Meteorological Services, Karachi
Ph: 021- 99261425
Fax: 021- 99261405

Copy to:-

- 1) Chairperson Inspection Committee/ P.E., NSMC, Karachi.
- 2) D. D. O., Cash, Met Headquarters, Camp Office, Karachi.
- 3) Director General, A.G.P.R. Sub Office, Karachi.
- 4) Deputy Commissioner, Commissioner Inland Revenue, Zone-V, R.T.O. III, Karachi.
- 5) Met. Incharge, Central Meteorological Store, Karachi.

Accepted & Received

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Meteorologist
for Director General
Meteorological Services, Karachi

For
Karachi. ,