

TENDER DOCUMENTS

Spares of Weather Surveillance Radar and Wind Profiler



No. I&P /Spares/Radar/Wind Profiler/ 25-26

Pakistan Meteorological Department

Sector H-8/2,

Islamabad,

November, 2025

Tender Notice

Sealed Tenders are invited on F.O.R Islamabad basis Through PPRA EPADS from reputed Suppliers / Authorized Dealers registered with Income Tax and Sales Tax Departments for supply of the following Laboratory Items/ Equipment/ Spares in order to enhance accuracy, reliability, and environmental safety:

S. No	Items Name	Closing Date & Time	Bid Opening Date & Time
1.	Spares of Weather Surveillance Radar and Wind Profiler	17-12-2025 at 10:30PST	17-12-2025 at 11:00PST

Terms and Conditions:

1. Bid Security (2% of the Offer) in shape of Bank Draft / Pay Order in favor of D.G. Met. Services, Islamabad should be submitted with the Bid.
2. The quantity of the items can be increased/ decreased subject to funds availability.
3. Incomplete or late received offer will not be considered, closing date and time of Bid is 17th December, 2025. at 1030PST and opening date and time is 17th December, 2025 at 1100PST.
4. The Procuring Agency reserves the right to cancel the bidding process at any stage without assigning any reason.
5. The successful bidders will furnish performance guarantee in the shape of CDR/Pay Order/Bank Draft @ 5% of his supply order in favour of D.G. Met. Services.
6. Method of Single Stage Two Envelope Bidding Procedure under Rule 36(b) of Public Procurement Rules, 2004 will be used.
7. Bidding documents having detailed specifications are available free of cost at the website www.pmd.gov.pk PPRA EPADS www.eprocure.gov.pk as well as www.ppra.org.pk

Note: All Firms are directed to quote their Bids online through PPRA E-PADS as well as original Bids must be submitted in hard forms to I&P Section, PMD Headquarters office, Islamabad

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Section 1

Specifications

WEATHER SURVEILLANCE RADAR

1. Introduction: -

Pakistan Meteorological Department (PMD) is an Executive Department of Government of Pakistan, Ministry of Defence (Defence Division), Islamabad. PMD provides valuable meteorological & seismological services to different stakeholders in the country including private and public sector.

Weather Surveillance Radar (WSR) is used to detect, track, and analyze weather phenomena such as rain, snow, hail, and storms. It helps meteorologists to monitor atmospheric conditions in real time and predict severe weather events like thunderstorms, cyclones, floods etc.

SPARES REQUIRED FOR ISLAMABAD WEATHER SURVEILLANCE RADAR

Sr. No.	Item	Specification/Model	Qty
1.	Encoder for Azimuth	RA1-N4096-05CI	02
2.	Encoder for Elevation	RA1-N4096-05CI	02
3.	Elevation Motor	DTMT-B5530	02
4.	AZ Motor	TS4515N4022E200	02
5.	Brush for Slip ling (for power)	MPSW30048	48
6.	Brush for Slip ling (for signal)	MPSW30048	48
7.	Radar Power Amplifier	AL28-2.85S-25	05
8.	Radar Power Amplifier	CAH-984	05
9.	TX Cont	CGK-201	01
10.	Pulse Distor	CFF-728A	
11.	AZ Timing Belt	600-EV5GT-20	05
12.	EL Timing Belt	402-3GT-9	05
13.	Antenna Card	S/P INTF (CHW-92)	01
14.	AC Servo Driver	TSE-16A-20T	01
15.	AC Servo Driver	TAD8110N724E115	01
16.	Antenna Controller Signal Interface Card	CMH-2357	01
17.	Antenna Controller CPU	DVE-SH7780-PBF	01
18.	Antenna Controller SIO	CDF-513-1	01
19.	Transmitter SIO/PIO	CMH-2301M	01
20.	Transmitter Power Moni	CCN-391M	01

21.	Transmitter Coaxial Switch	ARD22024	01
22.	DC Power Supply Unit	HWS15A-5	02
23.	DC Power Supply Unit	HWS80A-24	02
24.	DC Power Supply Unit	HWS30A-15	02
25.	DC Power Supply Unit	HWS50A-5	02
26.	Oscillator	NXPLOS-I-0209-04033	01
27.	DRSP RX Module	CMA-1030	01
28.	DSP Unit	CDC-1449-4	01
29.	DRSP TX Burst Module	CBM-979	01
30.	Batteries for the UPS	12V7AH	08
31.	Radar Task Controller with Latest Linux OS and necessary Software	<p>CPU : Intel Xeon Single Processor (2.4GHz Clock or higher, 10MB Cache, Quad Cores or more) or equivalent</p> <p>RAM :16GB or more</p> <p>Hard disk: 2TB (7,200RPM or higher, 3Gbps SATA or higher) × two (2) Drives or more (1 Drive: Cold Standby)</p> <p>Optical media drive : DVD±RW Multi drive × one (1) Drive</p> <p>LAN interface :10BASE-T, 100BASE-TX and 1000BASE-T, one (1) port or more</p> <p>LAN arrester : for surge protection, RJ45 interface</p> <p>Graphics Card: (DDR3, 2GB, 128bit)</p> <p>Monitor display: Colour LCD type, 21.5 inches or more</p> <p>Input power: AC 230V, single phase, 50Hz</p> <p>Accessories : English Keyboard, Mouse</p>	01
32.	Data and Protocol converter with Latest Linux OS and necessary	CPU : Intel Xeon Single Processor (2.4GHz Clock or higher,	01

	Software	<p>10MB Cache, Quad Cores or more) or equivalent</p> <p>RAM :16GB or more</p> <p>Hard disk: 2TB (7,200RPM or higher, 3Gbps SATA or higher) × two (2) Drives or more (1 Drive: Cold Standby)</p> <p>Optical media drive: DVD±RW Multi drive × one (1) Drive</p> <p>LAN interface :10BASE-T, 100BASE-TX and 1000BASE-T, one (1) ports or more</p> <p>LAN arrester : for surge protection, RJ45 interface</p> <p>Graphics Card: (DDR3, 2GB, 128bit)</p> <p>Monitor display: Colour LCD type, 21.5 inches or more</p> <p>Input power :AC 230V, single phase,50Hz</p> <p>Accessories : English Keyboard, Mouse</p>	
33.	Data Analyzing Unit with Latest Linux OS, J-BIRDS and necessary Software	<p>CPU: Intel Xeon Single Processor (2.4GHz Clock or higher, 10MB Cache, Quad Cores or more) or equivalent</p> <p>RAM :16GB or more</p> <p>Hard disk: 2TB (7,200RPM or higher, 3Gbps SATA or higher) × two (2) Drives or more (1 Drive: Cold Standby)</p> <p>Optical media drive : DVD±RW Multi drive × one (1) Drive</p> <p>LAN interface :10BASE-T, 100BASE-TX and 1000BASE-T, one (1) ports or more</p> <p>LAN arrester : for surge protection, RJ45 interface</p> <p>Graphics Card: (DDR3, 2GB, 128bit)</p>	01

		<p>Monitor display: Colour LCD type, 21.5 inches or more</p> <p>Input power: AC 230V, single phase, 50Hz</p> <p>Accessories : English Keyboard, Mouse</p>	
34.	Repair Workbench	<ol style="list-style-type: none"> 1. DC Power Supply Adjustable Linear Power Regulated Bench Switching 2. Rework Station + Soldering Station, Intelligent 2 in 1 Station Air Pump Type with Digital Display. (Adjustable Soldering station temperature range: 100 ~ 500°C, Rework Station: 100 ~ 500°C) 3. Trinocular Stereo Microscope. Magnification: Total 3.5X—180X. Digital Camera: HD 1080P 10MP. Output interface: HDMI output + USB output 4. PCB thermal imaging camera. (Temperature Range:0°C~400°C) 5. Helping Hands Flexible 6 Arm Tool with Torch & Magnifier. 	01
35.	CCTV Camera with DVR	<p>2 MP CMOS; Resolution: (1920 (H) × 1080 (V)); (2.8 mm Lens); Angle Adjustment:(Pan: 0° to 360°, Tilt: 0° to 75°, Rotation: 0° to 360°); Day/Night Mode:(Auto/Color/BW (Black and White))</p>	05
36.	Hard disk drive	500-GB SSD, internal	05
37.	External HDD	4TB SSD	02
38.	Electric Water Pressure Washer	160 Bar or higher	01
39.	Network Attached Storage (NAS) Raid-5	16 TB	01
40.	Batteries for the UPS	12V7AH	08

2. Conclusion: -

Weather Surveillance Radar is a vital tool for real-time weather monitoring and disaster preparedness. It enhances the accuracy of weather forecasts, supports public safety, and fulfills governmental and environmental requirements for reliable meteorological observation.

WIND-PROFILER SYSTEM

1. Introduction: -

A Wind Profiler is a type of radar or acoustic instrument used to measure the vertical profile of wind speed and direction at various heights above the ground. Its main purpose is to provide continuous, real-time data on atmospheric winds, which is essential for weather forecasting, aviation safety, and climate studies.

Unlike traditional surface weather stations, which only measure wind near the ground, a wind profiler observes the entire column of the atmosphere, helping meteorologists understand how winds change with altitude.

SPARES REQUIRED FOR WIND-PROFILER SYSTEM

Sr. No	Item	Specification/Model	Qty
1.	Modulator Card	Mitsubishi, VDR-MOD04-B / RS121078-G01	01
2.	Hard disk unit	02 TB SSD, 3.5" internal	02
3.	Batteries for the UPS	12V7AH	04

2. Conclusion: -

The Wind Profiler is a crucial instrument for continuous atmospheric observation. By providing accurate, high-resolution wind data at multiple altitudes, it enhances the reliability of weather forecasts, supports aviation and disaster management, and contributes significantly to climate and environmental research.

Terms & Conditions:

1. **Earnest money/ Bid Security @ 2%** for each category in the shape of Bank Draft/Pay order in favour of D.G Met. Services must be submitted with the offer.
2. Bidders must submit copies of their registration of Sales Tax and Income Tax.
3. Eligibility Criteria: Participating firm must be, fully experienced and registered with Govt. Authorities (FBR etc.).
4. Bidder must submit on stamp paper
 - (i) That there are no pending liabilities in respect of the bidder/ firm against any government/semi-government department/ organization
 - (ii) That the bidder has not been black listed by any government/ semi-government department/ organization. Legal documents can be asked by the buyer, if required.
5. **BID VALIDITY:** Bids shall remain valid for a period of at least **120 days** after the date of opening of financial proposals.

In exceptional circumstances, prior to expiry of the original bid validity period, the Buyer may request that the bidders extend the period of validity for a specified additional period. The request and the responses there to shall be made in writing or by electronic mode. A bidder will not be required or permitted to modify its bid, but will be required to extend the validity of its bid security for the period of the extension.
6. All bidders are advised to comply strictly with the document specifications/ terms & conditions and no deviation shall be allowed.
7. **Prices must be quoted in Pak Rupees only including all applicable Govt. of Pakistan taxes & GST.**
8. **The successful bidders will furnish performance guarantee in the shape of CDR/Pay Order/Bank Draft @ 5% of his supply order in favour of D.G. Met. Services.**
9. The last date for the submission of tender is 17th December, 2025 at 10.30 Hours PST and will be opened on the same day at 1100 hours PST in the presence of bidders or their representatives.
10. Goods as per specifications would be **received within 90 days**, after the issuance of supply order, **and the supplier will be responsible for replacement of items**, if found defective during inspection / warranty period.
11. The quantity of the items can be increased/ decreased.
12. The Procuring Agency reserves the right to cancel the bidding process at any stage without assigning any reason.
13. Taxes will be deducted as per Government rules.
14. The payment against supply of items will be made through crossed cheque(s) in Pak Rupees by the Department to the supplier after satisfactory supply of goods and technical report submitted by the Technical Committee.
15. Any bid found in deviation / violation / without earnest money would liable to be rejected.
16. Bidding documents having detailed specifications are available free of cost at the website www.pmd.gov.pk PPRA EPADS www.eprocure.gov.pk as well as www.ppra.org.pk