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No. I&P/Repair/Radar/Mangla/24-25

Government of Pakistan

Ministry of Aviation

PAKISTAN METEOROLOGICAL DEPARTMENT

(Indent and Purchase Section)

Sector H-8/2, Post Box No. 1214, **Islamabad, Pakistan**

URL: <http://www.pmd.gov.pk/>

PRE-QUALIFICATION NOTICE THROUGH PPRA E-PADS

Pakistan Meteorological Department invites the applications for pre-qualification of firms registered with sales tax/ income tax departments and are on Active Tax Payer List (ATL) of FBR for the following repair work during the financial year 2024-25 under PPRA rules detail is as under.

Sr. No.	Name of Work
01	Repair of Doppler Weather Surveillance Radar (DWSR), Mangla

Schedule for collection, submission and opening of pre-qualification documents / proposals is as under:

Collection and submission of documents (free of cost through the concerned websites)	Till Thursday 26 th of September, 2024 by 11.30 Hrs. through PPRA EPADS
Time and place of opening of sealed proposals	On Thursday 26 th of September, 2024 by 12.00 Hrs. at R&D Hall PMD Headquarters, H-8/2 Islamabad.

The bid received within stipulated date and time, will be opened by the committee on the same day (as mentioned above), in the presence of the bidders or their authorized representatives.

The procuring agency reserves the right to accept or reject any or all proposal(s) in accordance with rule 33 of PPRA Rules 2004 (as amended time to time)

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

(Dr. Irfan Ur Rashid)

Meteorologist

Pakistan Meteorological Department

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CRITERIA FOR PRE-QUALIFICATION FOR THE REPAIR OF DOPPLER WEATHER SURVEILLANCE RADAR (DWSR), MANGLA

Sealed bids are invited from the firms, Government departments, Contractors, Companies/ Joint ventures registered on sales tax/ income tax departments and are on active tax payer list (ATL) of FBR for repair work of subject radar during the financial year 2024-25

TERMS & CONDITIONS:

1. For pre-qualification, parties having experience, capability and resources may apply alongwith following information and documents.
 - i) Name of Firm alongwith postal address, phone and fax number.
 - ii) Experience Record.
 - iii) Current works in progress.
 - iv) Financial position/ capabilities: -
 - a) Bank Statement of last two years
 - b) No. and amount of bank guarantees already given.
 - c) Credit/ loan limit with any bank
2. The relevant documents may be obtained from the websites i.e. www.pmd.gov.pk, www.eprocure.gov.pk (EPADS) as well as www.ppra.org.pk.
3. For the purpose of pre-qualification, following criteria shall be followed: -

Criteria	Requirement
REQUIREMENTS FOR FOREIGN FIRM	
Years of experience in the field of engineering especially related to repair and installation of Radars	At least 10 years mandatory with list of 3 radar projects executed for repair / installation clearly mentioning date of award of contract and date of completion along with authentic clients and accessible contact information (Email, Fax, WhatsApp, Websites).
REQUIREMENTS FOR LOCAL FIRM	
The local representative/partner must be registered with Pakistan Engineering Council and any other quality assurance organization.	Numbers of PEC registered engineers, C.V s of all the technical and administrative staff along with office addresses. Any other quality assurance certificate obtained as local firm.
Demonstrable managerial/executer capacity.	If the firm has self-demonstrable/executer capacity, then must share the team profile working on Radar repairs, and list of 3 radar projects executed for repair / installation.
Sound financial position of at least PKR 300 million transactions during the last two years.	Mandatory for local firm
In case of collaboration, the local firm must have original sole representation certificate with Radar manufacturing OEM.	Mandatory for local firm

4. Pre-bid briefing maybe given to pre-qualified firms explaining the Technical as well as Financial Criteria.
5. Bidding Process shall be conducted through **Single Stage Two Envelope Bidding Procedure**.

Terms of Reference (TOR)
Essential Repair of Mangla Weather Radar

1.Introduction

The purpose of this TOR is to outline the requirements for the repair of the PMD's Mangla weather radar by repairing/replacing its parts/segments with latest available technology. This radar system is critical for monitoring and forecasting the floods in catchments of river Jehlum, and require both maintenance and technological enhancements to ensure optimal performance and reliability.

2.Objectives

- (i) To repair the radar system by replacing the parts/segments having latest technology to improve performance and capabilities.
- (ii) To ensure compliance with WMO standards and regulatory requirements.

3.Proposal Submission Requirements

- (i) Detailed proposal outlining approach, methodology, and timeline.
- (ii) Budget breakdown and pricing structure.

4.Scope of Work

- (i) Diagnostic evaluation of the current radar systems to identify faults and areas for improvement.
- (ii) Calibration and testing of the replaced equipment/segments to ensure they meet specified performance criteria.
- (iii) Training of personnel on the use and maintenance of said system.
- (iv) Radar parts replacement and transmission room alteration as per equipment requirements should be treated as single solution, and project should be delivered on turn-key basis.

(a) **Repair/replacement of Parts in Antenna/Servo Controller System**

- (i) (Antenna System) replacement
 - Mechanical
 - leveling
 - Drive module
 - Servo motor
- (ii) Pedestal Unit
- (iii) Antenna Radome
- (iv) Servo control Unit complete

(b) **Repair/replacement of Parts in Transmitter Unit**

- (i) Modulator Unit
- (ii) Transmitter Power Supplies

(c) **Repair/replacement of parts in Receiver/RSP/RCP**

- (i) Radar Signal Processor
- (ii) Radar Control Processor
- (iii) Integration with radar system

(d) Repair/Replacement of Software/Networking Components

- (i) Radar Control Software
- (ii) Radar control workstation with its electricity Backup system
- (iii) Data Display System (workstation + software)
- (iv) Networking standalone system
- (v) Integration of Data with other Radar (Composite image generation)
- (vi) Software Minimum performance specifications (Range, resolution, accuracy, scheduler & filters etc.).

(e) Repair/Replacement of Power Conditioning Equipment

- (i) Replacement of existing Diesel Generator system with hybrid system
- (ii) Radar UPS Batteries (2 Hours Backup) + workstations UPS (Online) with batteries
- (iii) Lighting and Surge Protection for Transformer + shifting to shelter room
- (iv) Complete Electrical wiring distribution of entire building along with proper earthing, Lighting & surge protections.

(f) Training

- (i) Radar daily/weekly/monthly/quarterly/annual maintenance
- (ii) Trainer qualification, experience information
- (iii) Training Manuals
- (iv) Schedule/Timeline
- (v) Completion certificate

5. Deliverables

- (i) Detailed schematic of the radar systems.
- (ii) List of repaired components and backup.
- (iii) User manuals, technical documentation and software for the repaired/replaced systems.
- (iv) SAT documentation and execution.

6. Firm's/Company's Requirement

- (i) Technical qualifications and experience of entire team.
- (ii) References and case studies of similar projects with contact details.
- (iii) Point wise compliance with TOR specifications.

Annex-1: List of Equipment to be repaired / replaced

S.No.	Item	Description
1.	Antenna assembly	Parabolic antenna with pedestal
		AZ/EI Servo,
		Encoder assembly,
		Drive module,
		Slip ring set
2.	Transmitter	Modulator unit + power supplies including High voltage
3.	Receiver	Digital Radar Signal Processor
		Radar Control Processor
		DRSP & RCP Integration
4.	Software	Radar control software with workstation
		Radar Product display software with workstation
		Networking standalone system
5.	Power Conditioner	Complete new Electrical Wiring distribution along with earthing lighting & surge protection for radar/building/transformer
		Radar UPS Batteries (2 Hours Backup)
		Workstation UPS with Batteries (Online)
		Replacement of the old generator system with a hybrid system

CHECKLIST

Sr. No.	Pre-Requisite Documents to be provided by the Firms/ Bidders	Yes/ No
1.	NTN No. with copy of certificate	
2.	GST No. with copy of certificate	
3.	Date of Establishment	
4.	Copy of Active Taxpayer List	
5.	Vendor No.	
6.	Bank Name and Account No.	
7.	Stamp paper/ Declaration of Non- Black Listing	
8.	Signature and Stamp on Tender Documents on each page	
9.	Proof of Financial Soundness/ copy of bank statement for the last six months	
10.	Address of Firm	
11.	Landline Telephone / Fax Numbers and other Contact Details	
12.	List of Clients	

Name of
Bidder/ Firm: _____

Signature: _____

Date:

Seal: