



HEAVY INDUSTRIES TAXILA

ARDIC

Bid No.5647/IT-104/Dev/AR dated 14 Oct 202

Standard Bidding Documents

For

“Development of Active Protection System”

(Single Stage Two Envelope Method)

Bid Submission: **on or before 14 Nov 2024 at 1030 hours**

Bid Opening: **14 Nov 2024 at 1100 hours**

**ADVANCED RESEARCH DEVELOPMENT AND INFORMATION CENTER (ARDIC)
HEAVY INDUSTRIES TAXILA
TAXILA CANTT**

TABLE OF CONTENTS

Ser	Forms		Detail	Page No	
				From	To
1.	Tender Notice		Procurement / development of items	3	3
2.	Section – A (General Contract Conditions)				
	a.	Invitation to Bids	Letter to firm for invitations of their bids	4	5
	b.	General	General instructions to the firms	6	11
3.	Annexes				
	a.	Annexure A	Schedule of Requirement & Delivery	27	30
	b.	Annexure B	Evaluation Criteria	31	33
	c.	Annexure C	Financial Proposal	34	34
	d.	Annexure D	Certificate of Eligibility	35	39

HEAVY INDUSTRIES TAXILA
PROJECT ARDIC

TENDER NOTICE

1. Sealed tenders are invited from reputed firms possessing NTN certificates for supply of under mentioned items. Procurement will be carried out in the light of PPRA and MoDP rules: -

Tender No.	Nomenclature	A/U	Qty	Delivery Period	Collection of Tender Documents	Date and Time of Tender	
						Submission	Opening
IT-104	Development of Active Protection System Details as per Annexure "A"			12 x months after signing of contract	Available on PPRA Website	1030 hours on 14 Nov 2024	1030 hours on 14 Nov 2024

**Note: Annexure if not found can be obtained from ARDIC, Heavy Industries Taxila on any working day before deadline.*

2. Bidder must submit the following document along with check list attached at Section – C at time of submission of tender: -

- a. Photocopy of Registration / Pre-qualification / Indexation letter issued by the HIT.
- b. Copy of Registration certificate issued by Sales Tax Department
- c. Copy of NTN certificate.
- d. Audit report of last 3 x FYs.
- e. Attested Bank Statement for last 01 x year.
- f. Attested copy of CNIC of Managing Director / Chief Executive Officer.
- g. Trade link between firm and OEM (in case of distributor / agent).
- h. Certificate on a judicial paper worth Rs 100 duly attested by Oath Commissioner that firm is neither defaulter nor blacklisted by any Govt Org directly or indirectly.
- i. Detail of list of contracts last 3 x FYs / works experience with Govt / Semi Govt Org.
- j. Copy of registration letter with Govt / Semi Govt organization (if any).
- k. Postal order of Rs 2,000/- should be enclosed with Technical Bid in favour of Managing Director ARDIC.

For further Information

Deputy Assistant Director (Procurement)
Tel: 051-9315333 (Extension: 63045)
E-mail: snpar@hit.gov.pk

HEAVY INDUSTRIES TAXILA
PROJECT ARDIC

INVITATION TO BIDS

Bid No. 5647/IT-104/Dev/ARDIC dated 14 Oct 202

“Development of Active Protection System”

Date: 14 Oct 202

1. This Invitation to Tender (IT) follows the Procurement Notice (PN) or Procurement Advertisement (PA) for the subject development which will appear in 2 x newspaper (1 x English and 1 x Urdu).
2. The Heavy Industries Taxila (ARDIC) now invites sealed bids from eligible Suppliers for the Development of Torsion Bar. The complete original bids (both technical & commercial) properly filled in and enclosed in sealed envelope(s) must be delivered as under: -

<u>Ser</u>	<u>Activity</u>	<u>Response</u>	<u>Remarks</u>
a.	Bid submission	1030 hours on 14 Nov 2024 2024	<u>By Post.</u> Deputy Assistant Director (Procurement), ARDIC, Heavy Industries Taxila, Taxila Cantt <u>By Hand.</u> Tender Box available at Gate ARDIC Gate.
b.	Bid Opening (Technical)	1100 hours on 14 Nov 2024 2024	Venue Advanced Research Development and Information Center (ARDIC) HIT Taxila
c.	Bid Submission Address	ARDIC Gate, Heavy Industries Taxila, Taxila Cantt	Drop Tender document in Tender Box before deadline.

3. All bids must be accompanied by a Bid Security / Earnest Money in the form of Call Deposit Receipt (CDR), Bank Draft (BD) or Pay Order (PO) in favour of Managing Director (ARDIC), Heavy Industries Taxila as per the instructions provided in this IT.
4. Firms shall nominate an authorized representative, on the firm's letterhead, with authority to conduct all business for and on behalf of the firms during the bidding process, and in case of award of contract, during the execution of contract. Appointment of the Lead Member shall be subsequently confirmed by submission of a valid Power of Attorney before signing of the contract by the firm winning the contract.
6. This IT consists of 22 x pages and comprises following forms: -

- a. Section – A. Invitation letter and general instructions to the firms.
 - b. Annexure's
7. Firms will fill and return, with their offers along with Annexures duly stamped / signed by the authorized person / signatory.

Yours faithfully,

Deputy Assistant Director (Procurement)
Advanced Research Development and Information Center (ARDIC)
Heavy Industries Taxila, Taxila Cantt

GENERAL INSTRUCTIONS

Mandatory Conditions for the IT

1. This IT contains some **MANDATORY CONDITIONS** (marked in bold capitals), which if not agreed in essence shall render the offer Null-and-Void without any legal ramification to the offered. No counter-offer of any **MANDATORY CONDITION** shall be accepted.

- a. No reference, written / oral will be made in the Bidding Documents or during the bidding process, of any previous contract concluded between the firm and the Procuring Agency or the firm with any other Procuring Agency inside or outside the territory of Pakistan.
- b. Any deviation (except for the **MANDATORY CONDITIONS**) due to non-acceptance of IT conditions should be highlighted alongwith the firm's changed offer / conditions. Bid may, however, be liable to rejection due to non-acceptance of any one or more conditions outlined by the Purchaser in this IT.

Eligibility of Firms

2. The bidding shall be conducted in line with the procedure as elaborated in the DPP&I-35 and any Regulations, Regulatory Guides, Procurement Guidelines or Instructions issued by the MoDP (from time to time) and is open to all the potential bidders. Eligibility criteria laid down in the DPP&I-35 will be followed strictly. Bidder will render a certificate as per format at **Annexure D** that the firm is neither defaulter / blacklisted by any Government Organization directly or indirectly nor any investigation / interrogation was ever carried out against the firm by any Pakistani or overseas intelligence / investigation agency; and the firm is fully eligible as per the DPP&I-35 (Revised 2019) to offer bid. Key points are as under: -

- a. **Ineligible Countries**. India and Israel.
- b. **Ineligible Firms**. A firm will be ineligible if: -
 - (1) Declared bankrupt / insolvent;
 - (2) Payments in favour of the firm is suspended in accordance with the judgment of a court of law;
 - (3) Legal proceedings are instituted against a firm involving an order suspending payments and which may result in declaration of bankruptcy or in any other situation entailing the total or partial loss of the right to administer and dispose of the property;
 - (4) The firm or its management / administration is convicted, by a final judgment, of any offence involving professional conduct;
 - (5) Firm is blacklisted and debarred due to corrupt and fraudulent practices, or performance failure or breach of bid securing declaration.
 - (6) A firm which has defaulted on two or more contracts with any of the Services HQ and DPEs until the satisfactory conclusions of the contract.

**Note: Administrative / legal action will be taken against an ineligible firm, if it participates in the tender.*

Preparation and Delivery of Bid

3. **Validity of Bid (MANDATORY Condition)**. Bids shall be valid for **180 x days** extendable to 180 x days from the date of opening of the Financial Proposal. This must be indicated in the Technical as well as the Financial Proposals.

4. **Late Submission**. Bids received after the appointed time will NOT be entertained and regarded as "POST BID OFFER". The appointed time will, however, fall on the next working day in

case of closed / forced holiday. HIT will not accept any excuse of delay occurring in the postal services.

5. **Delivery of Bids.** The firms shall submit offer in two separate envelopes i.e. Technical Proposal envelope, Financial Proposal envelope.

- a. **Technical Proposal.** The offer should contain all the relevant specifications. "Technical Proposal", "Tender Number" and "date of opening" should be clearly marked on the face of the envelope. Soft copy of the Technical Proposal will be provided inside the Technical Proposal envelope. Copy of the muted bid security / Earnest Money envelope (hiding the actual amount) will be placed inside the "Technical Proposal" envelope.
- b. **Financial Proposal.** Only one copy of the offer (in original) indicating prices quoted in figures as well as in words along-with essential literature / brochure as per itemized cost for format at "**Schedule to Price Section - B**" be provided. "Financial Proposal", "Tender Number" and "date of opening" should be clearly marked on the face of the envelope. The actual bid security / Earnest Money showing the amount will be placed inside the envelope of the "Financial Proposal".
- c. Both these offers will be sealed in separate envelopes, each bearing the stamp / signature of the bidder. Thereafter both the envelopes (Technical Proposal and Financial Proposal) along with the Bid Security envelope will be placed in one envelope (second cover) duly sealed, stamped, and signed. This cover should bear the address of Heavy Industries Taxila, IT number and date, and IT opening date. It should be addressed to following: -

To: Assistant Works Manager
Deputy Assistant Director (Procurement) - Tender Document
ARDIC Gate, Heavy Industries Taxila
Tel: (051) 9315333 (63045)
E-Mail: snpar@hit.gov.pk

- d. **Postal Order.** Postal order of Rs 2,000/- should be enclosed with Technical Bid in favour of Managing Director (ARDIC)

Participation and the Opening of IT

6. **Participation in Bid Opening.** IT will be opened in the presence of the firms, who choose to attend on the assigned time, date and place.

- a. Firms should send a representative with the knowledge of the content of the Bid who shall verify the information read out from submitted documents. Failure to send a representative or to point out any un-read Information by the firm's representative shall indemnify the Procuring Agency against any claim or failure to read out the correct information contained in the Bid.
- b. Representative should be a responsible authority and permitted signatory, competent to negotiate and sign the contract on the behalf of the supplier / firm, if required.
- c. The firms' representatives shall sign attendance sheet as proof of their attendance. Omission of firm's signature on the record shall not invalidate the contents and affect the record.

7. **Opening of Tender.** Tender will be opened as per the procedures laid down in DPP&I-35 / HIT and at least thirty (30) minutes after the time specified for the submission of tender. In case of closed / forced holidays, tender opening time will be considered the same on the next working day.

- a. Technical Proposal i.e. without prices will be opened on the day of tender opening and will be sent for the Technical Scrutiny.
 - b. The "Financial Proposal" will be opened, when the Technical Proposal is accepted by the technical authorities. The date of opening for "Financial Proposal" will be intimated to the firm in advance.
 - c. The Financial Proposal will be returned to the firm un-opened along with the Bid Security / EM if the Technical Proposal is not technically accepted.
8. **Withdrawal of Offer.** Bidder cannot withdraw the offer before signing of the contract and within the validity period of offers. Any firm withdrawing its offer within the validity period can be placed under embargo for upto three year and the Bid Security / EM will be forfeited. Any change in the original IT condition will also be construed as withdrawal of offer.
9. **Rights Reserved.** HIT reserves the full rights to accept, reject or cancel all the offers including the lowest without assigning any reason.

Acceptance of Bids

10. Bids technically approved by the Technical Scrutiny Committee will be accepted. In addition, Bids not opened and not read out at the tender opening shall not be considered further for evaluation.

Bid Security / Earnest Money (EM)

11. The Bid Security / EM will be in the form of a CDR / Bank Draft / Pay Order in the favour of Managing Director (ARDIC), Heavy Industries Taxila, for the amount in Pakistan Rupees for FOR cases or equivalent US\$ for FOB cases. Bid Security in the form of crossed cheque / cheques shall be liable for rejection. The bid security will be equivalent to 2% of the quoted value subject to the maximum ceiling of Rs. 0.500 million.

12. The muted Bid Security / Earnest Money envelope will be opened with the Technical Proposal. Technical Proposals received without Muted Bid Security / Earnest Money or not as per the stipulated amount shall be liable to rejection.

13. **Return of Bid Security / Earnest Money.** In case a firm not qualifying during the technical scrutiny, its Financial Proposal (unopened) along with the Bid Security/ Earnest Money will be returned within 60 x working days on receipt of the Technical Scrutiny Report. In case a firm qualifies during the technical scrutiny, the Bid Security / Earnest Money will be returned after signing of the contract and on submission as well as confirmation of the Performance Bank Guarantee and Advance Bank Guarantee.

14. **Evaluation of Firm / Qualification Criteria.** Qualified Bidder as per evaluation criteria at Annexure "B" will be awarded the Contract. Participating firms should meet the scoring mentioned at Annexure B and ensure provision of relevant documents and data.

Terms of Payment.

- a. 100% payment on accepted goods within one month of delivery will be made by the CMA (DP) Rwp / CMA (HIT) Taxila Cantt to firm on production of required documents.
- b. Partial payment against partial deliveries will NOT be allowed.

16. **Security Deposit / Performance Bank Guarantee (BG).** PBG will be provided from any scheduled Bank of the State Bank of Pakistan on Call Deposit Receipt (CDR), Bank Draft (BD), Pay Order (PO) or judicial stamped paper / e-stamp paper worth Rs 100.00 in favour of CMA (HIT) / CMA (DP). Provision of following unconditional and irrevocable BGs is a **MANDATORY CONDITION**: -

- a. **Advance Bank Guarantee (if any).** ABG, if any, equivalent to the amount of the advance payment (maximum upto 20% of the contract value) **within _____ of the signing of the**

contract. The ABG will be enforceable from the date of issuance and remain valid for 60 x days beyond the CRV of the last CRC.

- b. **Performance Bank Guarantee (PBG)**. PBG equivalent to **5%** of the total contract value will be provided by the supplier along with the signed copy of the contract. The PBG will remain valid for upto 60 x days beyond the delivery period of last CRC / CRV
- c. **Warranty Bank Guarantee (WBG)**. WBG equivalent to **5%** of the total contract value will be provided 30 x days before the expiry of the delivery period. Return of PBG will be contingent upon submission of WBG. WBG will remain valid for upto 60 x days beyond the warranty period of the last lot.

Note: *Procuring Agency may retain PBG as WBG.*

17. **Warranty/ Guarantee**

- a. All goods/stores offered will be brand new, from the production year onwards in accordance with the approved drawing and specifications; and all the latest modifications / up-gradation will be incorporated in the equipment. The materials used, whether or not of his manufacture, should also be in accordance with the latest design and specifications.
- b. All goods/stores supplied under the contract shall have no defect, arising from design, materials, or workmanship.
- c. The warranty / guarantee will be provided on Warranty / Guarantee Form DPL- 15 / Letter of Guarantee and will be applicable for **12 Months** from the date of issuance of last CRC.

18. **Force Majeure**

- a. The Parties (purchaser and supplier) will not be held responsible for any delay (e.g. delay in delivery of stores, delay in due payments etc) occurring in execution of the contract due to event of force majeure such as acts of God, War, Riots, Civil Commotion, Lockouts, Act of Foreign Government and its agencies and disturbance directly affecting the parties and events or circumstances on which the parties has no control. In such an event occurring at the supplier's end, the supplier shall inform the purchaser within 15 days of the happening and within the same timeframe about the discontinuation of such circumstances / happening in writing. Non-availability of raw material for the manufacture of stores or of export permit for the export of the contracted stores from the country of its origin or any third party license and exchange rate fluctuations after signing of the contract shall not constitute force majeure.
- b. Where the case of force majeure causes delay in the delivery of respective stores, and/or services or any other delivery and should such delay exceed a period of 6 (six) months, only purchaser shall have the right to terminate the contract. In case of termination by the buyer, the supplier shall deliver the items which, as of the effective date of termination, have been finished or items which are on the production line and are due to be completed within a specific timeline to be rendered by Supplier in writing.
- c. Any of the above-mentioned event or pandemic etc already occurring before the signing of the contract will not be considered as force majeure.

19. **Liquidated Damages / Late Delivery (LD)**. In the event of delay for more than 21 days in delivery of any task as per contract at Supplier's fault, the Supplier shall inform the purchaser before expiry of such delivery/completion period giving reasons / justification for it. The purchaser shall have the right to take following actions: -

- a. Cancel or terminate the contract as per the termination clause of this IT and purchase undelivered stores from elsewhere at the risk and expense of the Supplier, and/or.
- b. If the Purchaser agrees with the justification of delay provided by the Supplier, the Purchaser may extend the delivery period without imposing the LD charges. Such extensions will only be limited to two times. Third extension will be with LD.
- c. LD will be imposed when the Competent Purchase Officer is satisfied that the failure to supply the stores or complete the task within the scheduled delivery/ completion period has been for reasons within the control of the Supplier, and/or if the government has suffered loss for reasons of belated delivery. These LDs, if imposed, will be recovered upto maximum of 2% but not less than 1% (depending on the merit of the case as decided by Procuring agency) of the value of stores/supplied/ completed late per month or a part of a month for the period exceeding the original delivery/completion period, subject to the provision that the total LDs thus imposed will not exceed 10% of the total value of the late delivered stores and services etc.
- d. The purchaser's decision under this clause shall NOT be subjected to arbitration.

Note: SOP on imposition of LD charges is available at HIT website (https://hit.gov.pk/tender/upload/tenders/Final_SOP_of_LD_charges_v1.10_by_Dir_Proc_final_approved.pdf).

20. **Risk and Expense.** In the event of failure on the part of the Supplier to comply with the contractual obligation, the contract shall be cancelled at the risk and expenses of Supplier.

21. **Amendment in Contract (MANDATORY CONDITION).** Amendment in contract, if required, shall be processed in writing and made with mutual agreement/consent of both the parties.

22. **Stamp Duty.** As per Stamp Duty Act 1899, Firm is liable to pay stamp duty taxes @ 0.25% (25 paise per Rs.100.00). Firm will deposit the amount on account of Stamp duty on TR / Challan form to Bank of Punjab and submit the deposit copy to this office at time of submission of Bill / Invoice.

23. **Disqualification.** Offers are liable to rejection, if: -

- a. Offer is made through Fax / Email / Cable / Telex.
- b. Received later than appointed / fixed date and time or contradicting to binding terms;
- c. Not agreeing to the MANDATORY CONDITIONS of this IT.
- d. Offers are found conditional or incomplete in any respect.
- e. Postal order as per para - 5d above is NOT attached with the offer.
- f. Manufacturer's relevant brochures and technical details on major equipment assemblies are NOT attached in support of specifications; or
- g. Bid Security NOT mentioned in the Technical Proposal.
- h. If validity of offer is NOT quoted as specified in para-3 above or made subject to confirmation later.
- i. Tender specifications / requirement not conforming in general (except MANDATORY CONDITION) which have to be agreed.
- j. Multiple offers.
- k. There is any deviation from General /Special / Technical Instructions provided.
- l. Offers (Financial / Technical) containing non-initialed / unauthenticated amendments / corrections / overwriting.
- m. Multiple rates are quoted against one item.
- n. If offer is found to be based on cartel action in connivance with other sources / participants of the tender.

Official Secret Act / Non-Disclosure Agreement

24. All matters connected with this enquiry and subsequent actions arising there from come within the scope of the Official Secret Act, 1923. The firms are requested to ensure complete secrecy regarding the documents and the stores concerned with the enquiry and to limit the number of employees having access to this information.

Redressed of Grievances

25. Any bidder feeling aggrieved by any act of this Procuring Agency after submission of bid and prior to the award of contract may lodge a written complaint to the Grievances Redressal Committee (GRC) constituted by the Procuring Agency under Rule-48 of PPRA - 2004. Composition and procedure of the GRC is as under: -

a. Composition

- (1) President. Director Technical (Dir Tech)
- (2) Members
 - (a) Member Finance (MF)
 - (b) Director Procurement (Dir Proc)
 - (c) Managing Director (ARDIC)

b. Procedure

- (1) Bidder may lodge a written complaint addressed to (Managing Director ARDIC) not later than fifteen days after the announcement of bid evaluation report under Rule - 35 of PPRA - 2021. Complaint received 15 days after the announcement of Bid Evaluation Report will not be entertained.
- (2) Decision of GRC shall be intimated to the complainant within 15 x days of filing the written complaint.
- (3) Decisions of the GRC shall be binding on all the parties.
- (4) Bidders lodging an appeal must be clear that act of lodging a complaint shall not warrant suspension of Development of procurement process.
- (5) Firm having mala fide intentions of undermining the procurement / development process by lodging a complaint shall be liable to disciplinary action.
- (6) Firms will highlight specific grievance in the complaint to be addressed and will avoid unnecessary blame game.
- (7) Complaint must be personally signed by the authorized signatory and must be delivered through registered mail on the address mentioned in this document.

Miscellaneous

26. **Address**. Address for submission of Bids and lodging complaints to the GRC is as under: -

- | | | |
|----|----------------------------------|---|
| a. | Submission of Bidding Documents. | Assistant Works Manager
Deputy Assistant Director (Procurement)
ARDIC Gate (Tender Document)
Heavy Industries Taxila, Taxila Cantt
Tel: 051-9315333 (Extension 63045)
E-Mail: snpar@hit.gov.pk |
| b. | Lodging complaints. | Managing Director (ARDIC)
Heavy Industries Taxila, Taxila Cantt
Tel: 051-9315188 |

SCHEDULE OF REQUIREMENT AND DELIVERY

1. The delivery schedule expressed as:-

Sr	Particulars/Specifications of the Stores	A/U	Qty	Remarks
1.	Lab Measurement Unit	Nos	01	As per detail Attached Appendix-I To Anx - A
2.	Radar Emulator Unit	Nos	01	
3.	Radar Sensing Unit	Nos	02	

Name of the Bidder:

**[complete name of the Bidder]*

Name and signatures

***[complete name of the person authorized to sign the Bid on behalf of the Bidder]*

Date:

(4)

Test & Measurement Support Equipment for Active Protection System

The offered suite for test and measurement of Active Protection system include following main assemblies:

- 1- Lab Measurement Unit
- 2- Radar Emulator Unit
- 3- Active Protection System Radar front end

1 Lab Measurement Unit



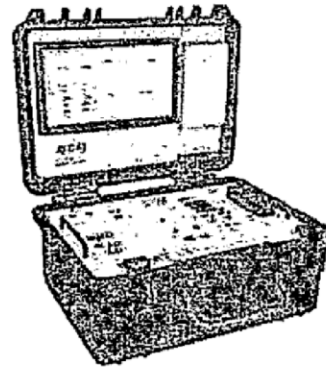
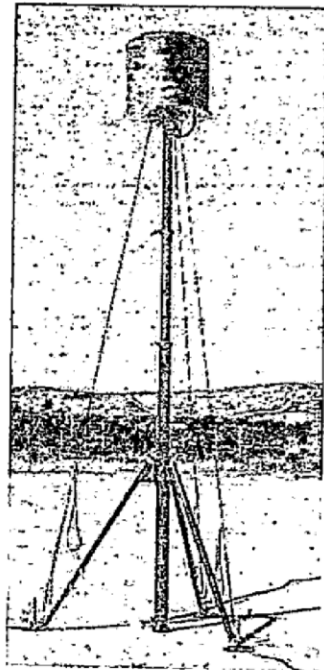
The lab-based radar measurement and replay unit is providing testing apparatus designed for detailed analysis and evaluation of radar systems. It offers a controlled environment for capturing, replaying, and analyzing radar signals, providing valuable insights into system performance and functionality.

1.1 Key Features:

- **DUT Interconnect Assembly**
 - High-quality connectors and cables that support various signal types and frequencies, ensuring compatibility with radar system.
- **DUT priming**

- Priming prepares the DUT for accurate and reliable testing by configuring its initial settings, calibrating parameters, and performing preliminary diagnostics.
- Includes connecting necessary interfaces, setting baseline operational modes, verifying functionality, and managing environmental conditions such as temperature and EMI/EMC considerations.
- **Digital/Analog Signal Measurement and Analysis**
 - This component is responsible for capturing and analyzing both digital and analog signals from the radar system.
 - Advanced signal processing tools to measure parameters such as amplitude, frequency, phase, and modulation characteristics. It supports real-time analysis and post-processing of captured data.
- **Network Analysis**
 - Network analysis evaluates the performance of the radar system's communication and signal pathways.
 - Includes vector network analyzers (VNAs) and spectrum analyzers to assess parameters like return loss, insertion loss, and S-parameters, ensuring optimal signal integrity and performance.
- **Automated Test Report Generation**
 - To document the results of the radar system evaluation in a comprehensive and organized manner.
 - Automated report generation tools that compile data, perform statistical analysis, and present findings in a clear format. Reports include graphs, charts, and detailed descriptions of test conditions and outcomes.

2 Radar Emulator Unit



The Radar Emulator Unit emulates radar signals, providing a controlled environment for verifying RF beam patterns and radar performance. Its ability to emulate signals and verify beam patterns ensures that radar systems are tested thoroughly under controlled and repeatable conditions. This comprehensive testing approach helps in identifying potential issues early in the development process, reducing the risk of failures in real-world applications.

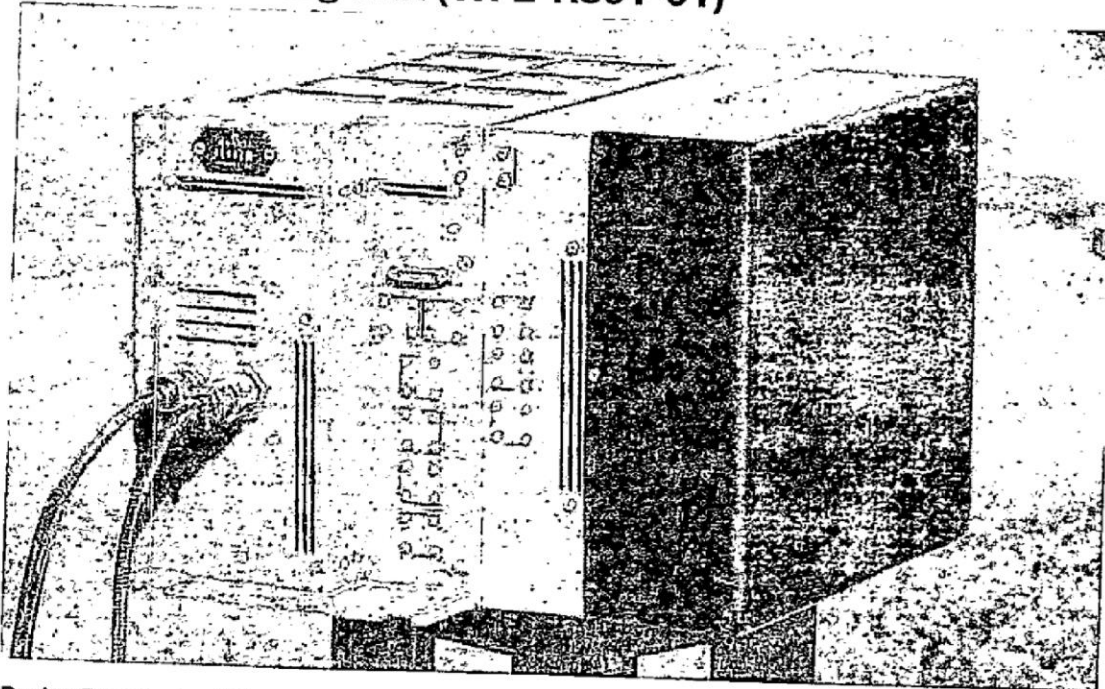
This unit plays a crucial role in the testing and optimization of radar systems, ensuring their reliability and efficiency thus allowing continuous improvement of radar systems. By enabling detailed analysis and parameter adjustments, it ensures that radar systems achieve their maximum potential in terms of accuracy, reliability, and efficiency.

2.1 Key Features

- **Signal Emulation**
 - The primary function of the Radar Emulator Unit is to replicate radar signals accurately. This allows for the testing of radar systems without the need for live signal transmissions.
- **Verification of RF Beam Patterns**
 - The unit enables verification of RF beam patterns. This is essential for ensuring that radar systems can detect and track objects accurately across their intended range and angular coverage.

- It allows for the measurement of critical performance metrics such as beamwidth, side lobe levels, and beam direction, ensuring the radar meets design specifications.
- **Performance Evaluation**
 - The Radar Emulator Unit supports extensive performance evaluation, including signal strength, resolution, and detection capabilities.
- **Optimization Support**
 - Parameter Tuning: By allowing precise control over signal parameters, the unit aids in fine-tuning radar systems for optimal performance.
 - Iterative Testing: Engineers can perform iterative testing and adjustments, using feedback from the emulator to enhance system accuracy and efficiency.
- **User-Friendly Interface**
 - Ease of Use: The unit features an intuitive interface, making it accessible for engineers and researchers to set up and conduct tests efficiently.

3 Radar Sensing Unit (WFE-R301-01)



Radar Sensing unit for early target detection and relaying target parameters to countermeasure system.

EVALUATION CRITERIA

1. **Evaluation criteria.** Past performance and Technical Evaluation will be used as qualification criteria with 50% passing marks in each category. Best evaluated bidder will be ascertained as per Quality and Cost Based Selection of PPRA Rules.

<u>Category</u>	<u>Marks</u>	<u>% Weightage</u>	<u>Remarks</u>
Technical Evaluation as per para 2 and 3	100	40%	50% Marks to qualify in each category
Financial Proposal	100	60%	100 Marks will be awarded to lowest bidder. Others will be evaluated relatively

2. **Marks Distribution / Qualification Matrix.**

Ser	Description	Maximum Points	Passing Marks
a. Performance Evaluation			
(1)	Financial Soundness	15	7.5
(2)	Past Experience / Record	15	7.5
(3)	Past Performance	20	10
Sub Total		50	25
b. Technical Evaluation			
(1)	Technical Evaluation Parameters	50	25
Total		100	50

3. Details of criteria for each of the above categories are as under

- a. **Financial Soundness.** Following parameters will be used in qualification criteria: -

Ser	Description	Max Points	Explanation for Marks Obtained	Remarks
(1)	Annual turnover of last Three Financial Years	5	05 Marks for Turnover of Rs. 2 Million and above. - Others will be graded relatively	Third Party generated verifiable audit reports for last three financial years to be provided for minimum of upto Rs 5 Mn (in FOR Case) Else Income Tax returns for last 3 x financial years, fully verified by ITO of the circle.
(2)	Working Capital of last three years	10	10 Marks for working capital of Rs. 5 Million or above. - Others will be graded relatively	
Total		15		

b. **Past Experience / Past Record**

Ser	Description	Max Points	Explanation for Marks Obtained
(1)	Projects of similar nature and complexity of last Three / five years. FOR – 3 year	10	3 years (1.3 mark per contract; Max 3.3 marks per year)
(2)	Status of enlistment with Govt Org (Attested copies of Registration certificate to be enclosed)	5	Full marks will be given on provision of at least 1 x Registration certificate Non-Registered firms will be awarded 2.5 gratis Marks
Total		15	

- c. **Past Performance.** Credit marks for past performance shall be awarded on the basis of following criteria. Data will be attached as per Annexure “E”. Same may be verified by the Purchaser if deemed necessary.

Ser	Description	Max Points	Maximum Points
	Contracted store supplied beyond DP in last 3 years	2.5	X1 = Total value of last 3 years' contracts. X2 = Total value of last 3 years' contracts completed within DP first go. Formula: Score= $\frac{X2}{X1} * 2.5$
	Quantum of rejections of items in the last 3 years contracts	2.5	X1 = Total value of last 3 years contracts. X2 = Total value of the passed items in first go in the last 3 years' contracts. Formula: Score= $\frac{X2}{X1} * 2.5$
	Timely provision of documents/ bank guarantees / bid security money	2.5	X1 = Total no of contracts concluded in last 3 years. X2 = Total number of timely provided bank guarantees/ bid securities against the total no of contracts in last 3 years. Formula: Score= $\frac{X2}{X1} * 2.5$
	No of contracts / items still pending beyond DP	5	1 x mark would be deducted for each contract in hand, which is pending beyond DP over 2 months

	Risk and Expense action against firm approved	2.5	0.5 x marks will be deducted against each Risk and Expense action approved
	Response to HIT Procurement queries /problems	5	½ x mark will be deducted for each advice letter issued to the firm 1 x mark will be deducted for each warning letter issued to the firm
	Litigation history where decision went against the firm	-	One mark will be deducted for each litigation history, if any, where decision went against the firm. (Affidavit on judicial stamp paper)
Total		20	

d. **Project Technical Evaluation Parameters**. Firm must provide response to in each column clearly mentioning its offer.

Ser	Description	Max Points	Remarks
(1)	Compliance to all Technical parameter of IT.	25	Mandatory Requirement
(2)	02 x Years Additional Warranty	10	Full marks will be awarded for 02 x Years and above. Others will be graded relatively.
(3)	OEM Compliance Certificate	05	
(4)	Free of Cost – Maintenance and after sale services for period of 05 x Years	10	Full marks will be awarded for 05 x Years and above. Others will be graded relatively.
Total		50	

FINANCIAL PROPOSAL**SCHEDULE OF PRICE – SUMMARY**

Ser	Description of Storesand Specification Services/ Documents	A/U	Qty	Price Per Unit (Rs)	Total Price (Rs)
1.	Lab Measurement Unit	Nos	01		
2.	Radar Emulator Unit	Nos	01		
3.	Radar Sensing Unit	Nos	02		

Inclusive/Exclusive:

Sales Tax @ _____ %

Surcharge @ _____ %

Stamp Duty @ 25 Paisa on Rs. 100

Any Other Tax: _____

Total Price _____

CERTIFICATE OF ELIGIBILITY / NON-BLACKLISTING CERTIFICATE

“It is certified that our firm is neither defaulter / blacklisted by any Government Organization directly or indirectly nor any investigation / interrogation was ever carried out against us by any Pakistani or overseas intelligence/investigation agency. It is further certified that our firm is fully eligible as per the DPP&I-35 / HIT to offer bid in this IT.”

Name of MD _____

CNIC or Passport No. _____

Signature _____

Date _____

Details of Contracts

Sr. No.	Contract No	Value	Organization	Store delivered (within DP /pending beyond DP)	Value of accepted items in first go	Provision of Bank Guarantee within timeline of contract (Yes/No)	Risk and expense against the firm (if any)	Response to the Organization
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								

Note. It is certified that above mentioned data is correct and verified from concerned procuring agency / organization. In case any information found wrong / hidden, firm may be disqualified and suitable punitive action may also be taken including confiscation of bid security money.