

REGISTERED/IMMEDIATE

Heavy Industries Taxila
 ASRF Taxila Cantt, Pakistan
 Tel : 051- 931577 Extn:63125
 Fax : 051- 9315022
 RT-05A/ Dev/1xTest Bench
 ASRF dated 04 Apr 2022

To: M/s _____

Subject: **Tender Inquiry – FOR**

1. You are requested to please forward your offer of Development of Harness Test Bench as per the following:-

Ser	Part No	Nomenclature	A/U	Qty
a.	As per Anx-A		Nos	1

Instructions to Bidders

2. Rates will be quoted on FOR basis. Offer best competitive price while submitting your quotation.
3. Over writing and cutting of any nature in the quotation will not be accepted.
4. Part-I and Part-II quotations will be enclosed in separate sealed envelopes for each tender inquiry. For identification purpose, the words “TECHNICAL QUOTATION PART-I WITHOUT PRICE” and COMMERCIAL QUOTATION (PART-II) WITH PRICE” shall be written in BLOCK CAPITAL LETTERS on the respective sealed envelopes which will be placed in a large envelope bearing complete details of the tender inquiry as under :-

BID**REGISTERED**

TENDER INQUIRY NO. RT-05/A/Dev/1x Test Bench/EM/ASRF dated 04 Apr 2022

TO BE OPENED ON 1030 Hours on 22 Apr 2022

To: DEPUTY ASSISTANT DIRECTOR (EM BRANCH) ASRF HEAVY INDUSTRIES
 TAXILA

FROM: M/s _____

Note: Forward your bids not later than at **10:00 hours on 22 Apr 2022**.

5. **Delivery of Tender**. The tender/bid will be enclosed in a sealed envelope which will be invariably marked with “Bid against Tender Inquiry No. **RT-05A/Dev/1x Test Bench/EM/ASRF dated 04 Apr 2022** and complete address. The tender if brought by hand, will be handed over to security staff on duty at ARDIC/ASRF Gate for placing the same in the bid box (available at the gate). The bid will not be brought by hand by any firm while visiting the office of Assistant Director (EM Branch). Moreover if required endorsements are found missing, the bid will be liable for rejection.

6. The bid must be dropped in the bid box, latest by 10:00 hours on **22 Apr 2022**, at ARDIC/ASRF Gate. The bid will be opened same day at 10:30 hours in the presence of the available representative of the firms in Heavy Industries Taxila. No bid will be entertained / considered after **1000 hours**, on the aforementioned date.
7. All papers must be signed and stamped and items not quoted / quoted must be mentioned clearly.
8. All clauses/terms mentioned in this inquiry will be considered accepted by the bidding firms, even if no reference to them is given in the respective offers.
9. **Postal Order for Rs. 200/-** (Rupees Two Hundred) in favour of MD ASRF, HIT Taxila Cantt, will invariably be enclosed with the technical offer, failing which the bid will be ignored.
10. Firms are instructed NOT to send Telex and Fax bids. Such bids/offers would not be accepted.
11. Please confirm receipt of the tender inquiry immediately and also intimate your participation or otherwise in this tender inquiry. In case any firm does not wish to bid, then it should return the tender inquiry documents at the earliest.
12. HIT reserves its right to cancel the bidding process with reason but without any obligation to justify such a reason.
13. **Delivery Period:** The Tester will be required to be delivered at ASRF HIT within 15 x months after signing of contract.
14. The offered price quoted must be firm, final and inclusive of all taxes, packing, handling charges etc and delivery at HIT Taxila cantt.
15. **Offers must remain valid for 120 days** from the date of opening of the tender.
16. The store will be packed in standard grade, worthy of transportation by the means adopted.
17. This inquiry may not be taken as an indication of subsequent supply order and does not in any way commit HIT to purchase the items offered.
18. Warranty period will be 2 years from the date of Last CRV / CRC.
19. In case of failure to supply the stores within the stipulated periods, liquidated damages at the rate of 2% but not less than 1% of amount involved per month and maximum value not more than 10% of contracted store value or a part there-of will be levied.

20. **Payment Terms**

- a. Payments will be made by either by CMA (DP), Rawalpindi through cheque against pre-receipted bills (duly affixed with revenue stamps) along with professional tax certificates (attested photocopies) of the suppliers after delivery and acceptance of stores.
- b. Partial payments against partial deliveries will be not allowed.
- c. The payment to the registered person is linked with active taxpayer status of the supplier as per FBR data base. If any registered supplier is not on active Taxpayer list, his / her payment will be stopped till he / she files his / her mandatory returns and appears on ATL of FBR.

21. HIT reserves the right to increase / decrease the quantity of tester, placed on the tender without any reference to the firm.

22. The supplier shall furnish 5% performance bank guarantee within one month from the date of signing of the contract from scheduled bank in Pakistan against the total value of contract excluding taxes/duties. This bank guarantee must remain valid for 2x years after the issuance of last CRV/CRC. Bank guarantee will be released after completion of warranty period of tester.

23. **All Firms participating in the tender will deposit maximum up to 2% bid security and not more than Rs.1.0 Mn of total quoted value in the shape of CDR / bank guarantee addressing to Director Procurement Heavy Industries Taxila. The bid security will be provided in Original by the firms in commercial envelope and photocopy of the same CDR without mentioning amount should be attached with technical quotation (without amount will be ensured by the firms), failing which the bid will stand rejected.** The bid securities will be returned as under:-

- a. **Unsuccessful Bidders.** Within 15 days of completion/announcement of the bid evaluation result.
- b. **Successful Bidders.** Upon submission of 5 % PBG.

24. The net offered price will be inclusive of 17 % GST as imposed by Government of Pakistan. The offers without mentioning of 17% GST will not be considered. The GST will always be mentioned separately to the base price.

25. Integrity pact will invariably be involved/invoked when the total value of the contract exceed 10 Million as specified in PPRA Rule 2002-2004.

26. In case of any dispute regarding the terms and conditions and the quality of stores, the decision of the Chairman HIT will be considered as final and binding on the suppliers/firms.

27. In case, the contracted firm fails to execute the order within the stipulated time and does not materialize the supply of ordered stores, the supply order/contract would be cancelled at the firm's risk and expense. Expenditure incurred on the re-purchase of offered stores will be recovered from the defaulting firm, under existing procedures.

28. Inspection of the store will be carried out at HIT Taxila Cantt.

Eligibility Criteria

29. Firms should not be blacklisted or defaulted anywhere within or outside Pakistan. In this regard firm should provide **"No Blacklisting" and "No Litigation" (affidavit on judicial stamp as per Annexure 'B' and 'C', duly attested by Notary Public, to be provided).**

30. Only FBR registered suppliers / persons who are on Active Taxpayer List (ATL) of FBR are eligible to supply goods/services to government departments. Thus the bidders will submit a certificate to this regard along with the technical bid.

31. Country of Origin: All countries except India, Israel, Taiwan.

32. In case of indigenously / locally manufactured item, the firms should have relevant experience and capacity of manufacturing these parts and should be duly qualified by Quality Control Department of ASRF Capacity for manufacturing of parts will be verified by a team ex ASRF during technical scrutiny of offer.

33. Confirmation of the part numbers and nomenclatures of required parts along with soft copy of same in MS Excel, MS WORD & PDF format. The confirmation to fulfill the technical specifications related to each item must be highlighted in the technical bid.

34. In the case of FOR imported items, the firms are responsible to provide evidence of the agency agreement/certificate of conformance, principal proforma invoice (in original and without price) and OEM certificates of all the items being quoted against this tender inquiry along with countries of origin. The firms will clearly indicate that all the parts used in the manufacturing (in case of assembling) are brand new from current production. Confirmation to fulfill technical specifications related to imported items on FOR basis must be highlighted in the technical bid.

35. Confirmation of the validity period of the quote, delivery period and warranty period.

36. a. **Qualification Criteria.** Performance and Technical Evaluation will be used as qualification criteria with 50% passing marks in each group / main head. Out of qualified bidders, best evaluated bid will be ascertained having Performance/Technical Evaluation weightage 70% & Price Evaluation weightage 30%:-

Cat	Mks	% Weight age	Remarks
Performance Evaluation	30	70	• Minimum 50% to qualify in each Group / Main head.
Technical Evaluation	70		
Price Evaluation	100	30	

(i) **Marks Distribution Qualification Matrix**

Ser	Description	Maximum Points
a	Performance Evaluation	
1)	Financial Soundness	15
2)	Past Experience/ Previous Record	15
3)	Past Performance	20
b	Technical Evaluation criteria	50
Total		100

- (ii) **Financial soundness.** Credit marks for financial soundness of the firm shall be on the basis of following qualifications:-

Ser	Description	Max Points	Explanation for Marks Obtained	Remarks
(1)	Annual turnover of last 3 x Financial Years	2.5	Marks will be calculated as per the formula:- Formula Score = $\frac{(Y1+Y2+Y3)}{3X} \times 2.5$ *(Y1,Y2,Y3 respective annual turnovers of last three years) X= Last purchased rate / estimated value of the quoted items available with HIT.	Audit reports for last three financial years to be provided for minimum of up to Rs.5 Min. Bank Statement showing transactions of equal amount will be applicable for these reports.
(2)	Working Capital of last 3 x Financial years	2.5	Marks will be calculated as per the formula:- Formula Score= $\frac{(Y1+Y2+Y3)}{3(x/2)} \times 2.5$ Y1, Y2 and Y3 being respective working capitals of last three years. X/2= Half of the last purchased rate / estimated value of the quoted items available with HIT.	

(3)	Bank Credit Line	5	Full marks will be given to the bidders whose Bank credit lines issued by firm's concerned bank will be equal to or higher than X. Marks of remaining bidder will be calculated as per given formula:- $\text{Score} = \frac{X1}{X} \times 5$ X1= Bank Credit Line X = Last purchased rate / estimated value available with HIT.	
(4)	Litigation History where decision went against the firm	-	Marks for firms with no litigation history. One mark will be deducted for each litigation where decision went against the firm.	
	Total	10		

- b. **Past Experience/ Previous Record**. Credit marks for experience shall be awarded on the basis of following qualifications:-

Ser	Description	Max Points	Explanation for Marks Obtained	Remarks
(i)	Projects of similar nature and complexity i.e. Procurement of Indigenous Development of 24x assemblies completed in last 3 years with HIT.	5	3 years (1 marks per contract Maximum 2.5 marks per year)	
(ii)	Status of enlistment with Government Organizations (Attested copies of Registration certificates to be enclosed).	2.5	Not registered firms be awarded 1 gratis Marks	
	Total	7.5		

- c. **Past Performance**. Credit Marks for past performance shall be awarded on the basis of following criteria:-

Description	Max Points	Maximum Points	Remarks
(i) Contracted store supplied beyond DP in last 3 years with HIT (data will be attached duly verified from the concerned procurement agency).	2.5	Marks of bidders will be calculated as per given formula:- X1 = Total value of last 3 years' contracts. X2 = Total value of last 3 years' contracts completed within DP first go. Formula: $\text{Score} = \frac{X2}{X1} \times 2.5$	
(ii) Quantum of rejections of items in the last 3 years contracts with HIT (data will be attached duly verified from the concerned procurement agency).	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: $\text{Score} = \frac{X2}{X1} \times 2.5$	
(iii) Timely provision of docus/ bank guaranties / bid security money against HIT contracts (data will be attached duly verified from the concerned procurement agency).	2.5	X1 = Total no of contracts concluded in last 3 years'. X2 = Total number of timely provided bank guaranties/ bid securities against the total no of contracts in last 3 years. Formula: $\text{Score} = \frac{X2}{X1} \times 2.5$	
(iv) No of contracts / items with HIT still pending beyond DP (data will be attached duly verified from the concerned procurement agency).	2.5	1 marks would be deducted for each contract in hand, which is pending beyond DP over 2 months	
(v) Risk and Expense action against firm approved / litigation history against the firms	2.5	1x marks will be deduction of those firms whose against Risk and expense action approved / litigation history	
Total	12.5		

d. **Project's Technical Evaluation criteria**

Credit Marks on technical specification parameters will be granted as per following:-

Ser	Evaluation Factor Sand Description		Rang	Max Points	Remarks
(a)	<u>Human Resources:</u>			10	
	(i)	Number of PhDs on payroll in relevant field	1 Mark for each PhD, Maximum 3 Marks	3	
	(ii)	Strength of Engineers (BSc) on payroll in relevant field	10 - 20 20 - 30 30 - 40 >40	4 5 6 7	
(b)	<u>Firm's Technically Capability/ Past Experience:</u>			5	
	Team ex ASRF will be visit firm's premises to witness on around facilities / setups of R & D of firm.				
(c)	<u>Monitoring of R&D activities/ Hardware/ Software Design</u> Qualification of technical proposal shall be assessed to ensure the efficacy of developed FCS,GCS,SSAL and Elec Harness Test Bench in order to determine its viability. Assessment of the development approach by bidder will be carried out on following guidelines:-			85	
	(i)	Bidder shall identify the material of Harness Test Bench Hardware.		15	
	(ii)	Development plan and methodology of Harness Test Bench.		10	
	(iii)	Proposed indigenous design / Block Diagram of hardware and software to be dev.		10	
	(iv)	Bidder to info about firmware design capability with diagram showing communication.		10	
	(v)	Teflon wire/cable for internal wiring be used to cater for fire hazards.		5	
	(vi)	Conformal coating of cards be ensured.		5	
	(vii).	Firm commitment to provide BOM of relevant product/ assembly including list of components along with data sheet, PCB Gerber files, software/firmware/ programme of programmable ICs/ microcontrollers and processors, component layout diagram, device drivers, schematic diagrams, design diagram of casing,		15	

	ICDs and complete data set if any machine learning algorithm is used. Any false information should be liable for disqualification of bid/ tender/ contract, if found at later stage. (3x marks will be deducted for each item discarded).			
	(viii). Firm's commitment to provide training / trouble shooting/ diagnostics support in documented form i.e TDPs (Technical Data Package) and submit along with product.		15	
(d)	<u>ISO Certificate:-</u> Any firm have ISO valid certificate, 2 x grace marks will be given.			
Grand Total			100	
Score in Technical evaluation = $\frac{X}{100} \times 50$				
Marks Obtain out of 100 = X				
Note: Newly participated firm or the firm having no past performance record with HIT will be given 50% marks in each category less 36 (d) above.				

37. **Logistic Support:** It is also expected that the contracting firm will provide the sureties for the 20 years logistic support in the future. The undertaking from the contracting firm will be the part of the contract to provide logistic support in the following areas:-

- a. **Training:** The comprehensive training free of cost will be given by the developer firm regarding operation, fault location and trouble shooting of developed Harness Tester. This will also encompass the use of field and base level test equipment.
- b. **Test Equipment.** The developer firm should be able to provide Test Jigs for Tester and for card/PCB level repair, after final product acceptance, through separate contract if required.

38. **TDPs.** A complete set of TDPs including detailed technical documents will be provided by the developer on completion of the development. HIT will consider the copyright protection and same will be discussed later in contracting phase with the successful bidder.

The documents to be provided should contain the following:-

- a. Technical Manual with detailed description.
- b. Drawings, Process Sheets & Schematic diagram.
- c. Acceptance Test Procedures.
- d. Performance parameters.
- e. Dimensional details.
- f. Installation details.
- g. Trouble Shooting, fault diagnoses, Repair and Maintenance Manuals.
- h. Life expectancy of components.

39. **Advance Payment.** Up to 20% advance payment of total value excluding taxes may be made to the firm against Advance Bank Guarantee (ABG) of equal amount.
40. Contracts will be awarded to **best evaluated bidder** with highest overall score based on **weightage of Cost Quality Method:-**

- | | | | |
|----|--------------------------|---|------------|
| a. | Qualification Criteria | - | 70% |
| b. | Commercial offer / Price | - | 30% |

Note: Technical / Commercial quotation must conform to IT parameters specified in this tender. The offer will be rejected there in if the said parameters are not complied with.

WM
DAD (EM Branch)
(Engr Shafiq Ullah)

<u>DEVELOPMENT OF TEST BENCH FOR A-VEH</u>					
S NO	Part No	Nomenclature	A/U	Qty Req	Remarks
1	-	FCS, GCS, SSAL and Elect assy Harness Tester	Nos	1	

TECHNICAL SPECIFICATION REQUIRED FOR FCS/GCS, ELECTRICAL ASSYS HARNESS AND SSAL TESTER

S. No	Requirements	Remarks
1	<p>The tester should be capable of performing following functional tests:</p> <ul style="list-style-type: none"> Continuity Tests through Testing End to End Connectivity Insulation Resistance Test through megger Test of Resistors 	<ul style="list-style-type: none"> When testing for continuity the previously setting values of resistances of circuit can be set from 0.2 to 100 Ohm with 0.1 Ohm interval. The test range of insulation resistance is from 1 M Ohm to 1000 M Ohm
2	Powered by rugged computer, the tester should be an automatic system. It should offer the user to perform the harness test according to the requirements of a specific cable. It must allow the user to manage a database of the test scheme that should not only store the test data but also should help the user in similar testing in future reprogrammable.	<ul style="list-style-type: none"> Essential
3	The tester should be human friendly and should involve minimum human effort for specific test.	<ul style="list-style-type: none"> Essential
4	The tester should be equipped with laser printing solution that should automatically print the test report immediately at the end of test completion with log file generating.	<ul style="list-style-type: none"> Essential
5	The test must do High and Low Voltage Test. The tester is required to do both AC and DC High and Low Voltages Tests with life cycle test.	<ul style="list-style-type: none"> 100-1000 V DC High Voltage test. 500 V AC High Voltages test
6	Casing qualified should be IP-55	
7	<p>The tester should be able to endure following.</p> <ul style="list-style-type: none"> Operational Temp: 0-60 Deg C Storage Temp: -20 to 80 Deg C Relative Humidity: 30% to 90% 	<ul style="list-style-type: none"> Essential
8	The test proceeding should be displayed on the screen on real time.	<ul style="list-style-type: none"> Essential
9	The tester should be equipped with 19 inch LED display.	<ul style="list-style-type: none"> Essential
10	The tester should have 2016 connection points and should run a test on as many numbers of points simultaneously.	<ul style="list-style-type: none"> Essential
11	The tester should use 220 VAC, 50-60 Hz power supply.	<ul style="list-style-type: none"> Essential
12	Two year warranty after issuance of CRV/CRC.	

13	Tester should be able to check related harness of multiple tanks like T85UG, AK, & AK 1.	<ul style="list-style-type: none"> • Essential
14	<p><u>TDPs.</u> A complete set of TDPs including detailed technical documents should be provided by the developer on completion of the development. HIT should consider the copyright protection and same should be discussed later in contracting phase with the successful bidder. The documents to be provided should contain the following:-</p> <ol style="list-style-type: none"> Technical Manual with detailed description. Drawings, Process Sheets & Schematic diagram. Performance parameters. Dimensional details. Installation details. Trouble Shooting, fault diagnoses, Repair and Maintenance Manuals. 	<ul style="list-style-type: none"> • Essential
15	<p><u>Training:</u> The comprehensive training should be given by the developer firm regarding operation, fault diagnose and trouble shooting of developed testers as per Anx-A.</p>	<ul style="list-style-type: none"> • Essential

AFFIDAVIT

NO BLACK LISTING CERTIFICATE

It is certified that M/s _____ have never been blacklisted with any Govt / Semi Govt / Defence Organization / PPRA / KPK PPRA / Punjab PPRA / Sindh PPRA within or outside Pakistan.

(Designation, Signature & Stamp)

(Signature & Stamp of Notary Public)

AFFIDAVIT

NO LITIGATION CERTIFICATE

It is certified that M/s _____ have no litigation history where decision went against the firm anywhere within or outside Pakistan.

OR

It is certified that M/s _____ have following litigation history:-

- a.
- b.
- c.

(Designation, Signature & Stamp)

(Signature & Stamp of Notary Public)