

**HEAVY INDUSTRIES TAXILA
ADVANCE SYSTEM REBUILD FACTORY (ASRF)
SCHEDULE FOR INVITATION OF TENDER
FOR DEVELOPMENT OF OPTO ELECTRONICS SYSTEM**

1. Tender enquiry No. 5992/Indig Dev/T-80UD /IT-04/EM/ASRF dated 8 Mar 2019
Opening date 27 Mar 2019
2. FCS/GCS Harness Set of Tank T-80UD at (Anx A) are required to be indigenously developed qty (1+4) which should conform to the capabilities and technical specifications of existing System/assemblies/sub assemblies.
3. Manufacturers /developer and engineering houses are invited to participate with following pre-qualification requirements:-
 - a. Should own an engineering house / facility with Lab / Eqpt and a team of qualified engineers.
 - b. Should have experience in the relevant field.
 - c. Should be able to reverse engineering/ re-engineering required assemblies and produce (design documents and hardware).
 - d. Should have sound financial status.
 - e. Should have experience/ track record and past performance for developing of similar assemblies/ sub assemblies/ parts.
 - f. Should have good track record without blacklisting/ debarring, from government organization.
4. Reference sample of assemblies will be issued to lowest bidding firm (s) for study purpose only and will be returned in serviceable condition. If reference sample is damaged, then firm will be responsible to pay cost of assembly as per OEM current cost.
5. Part-I and Part-II quotation will be enclosed in separate sealed envelopes in separate sealed envelopes for each tender inquiry. For identification purpose, the word “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. The tender, if brought by hand, will be dropped in quotation box available at ASRF/ARDIC security gate. The technical quotation will be opened on **27 Mar 2019 at 11:30 hours** in the presence of the available representative of the firm by president of the Board of ASRF, Heavy Industries Taxila. No quotation will be entertained/ considered after 11:00 hours, on the aforementioned date, as per PPRA rule.

6. Postal order for Rs. 200/- (Rupees Two Hundred Only) in favor of HIT Taxila Cantt Invariably be enclosed with technical quotation, failing which the quotation will be ignored.
7. A Tech committee will visit the firm (s) to verify the firm's capabilities to undertake the said development project
8. All firms participating in the tender will deposit 5% earnest money (irrespective of registration status) of total quoted value in the shape of CDR/Bank Guarantee (cheque will be not acceptable) addressing to MD (ASRF) Heavy Industries Taxila Cantt. The earnest money will be provided by the firm along with commercial quotation. Note in this regard to be clearly mentioned on technical offer that bid security money is enclosed alongwith commercial quotation. In case clear mentioned is not found in technical quotation offer, technical quotation will be rejected. Bid security money of un successful bidders will be returned ASP. Whereas bid security money of successful bidder (s) will be retained till submission of 10% Security Deposit.
9. Part payment against part delivery is allowed.
10. Please indicate full detail (specifications, manufactures etc) of the store offered in your technical quotation. If required details are found missing, the quotation will be automatically stand disqualified / rejected.
11. The store will be packed in standard grade worthy of transportation by the means adopted.
12. In case of failure to supply the store within stipulated period liquidated damages at the rate of Maximum 10% but not less than 2% of amount involved per month or a part their-off will be levied.
13. In case of your firm fail to execute the order within the stipulated time and does not materialize ordered stores, the supply order contract will be cancelled at firm's risk and expense. Expenditure incurred on the repurchase/ redevelopment of offered stores will be recovered from firm under existing procedures.
14. Payment will be made by CMA (HIT) or CMA (DP) through cheque against pre-receipted bill (dully affixed with revenue stamp) along with valid professional tax certificate (photocopy attested) active list of FBR, and return of last month from the date of invoice of FBR of the supplier after delivery and acceptance of stores.

15. **TERMS AND DELIVERY SCHEDULE** Contract shall be effective / come in to force from the date of signing by the Managing director:-

- a. 1x Ruggedized advance sample: within 2 months after signing of contract.
- b. 4x Series production system of each set: within 3 months after approval of advance sample from concerned authorities.

16. **CORRESPONDENCE ADDRESS** All kinds of correspondence regarding quotations, contract supply of store and clarifications shall be directed to ASRF HIT, Taxila Cantt.

17. **DELIVERY OF STORES** ASRF, HIT Taxila Cantt_

18. **VALIDITY** Validation of quotation is up to 06 months from the date of opening of commercial quotation and till acceptance of the contract by both parties.

19. **Commercial Proposal.** The detailed Commercial proposals should include the following:-

- a. Cost of Development of prototype include Technical data package.
- b. Series Production cost of 5x sets.

20. **Documentation.** A complete set of detailed technical documents will be provided by the developer on completion of the development. The documents to be provided should contain the following:-

- a. Technical Manual with detailed description.
- b. Drawings and Process Sheets.
- c. Acceptance Test Procedures.
- d. Performance parameters.
- e. Dimensional details.
- f. Installation details.
- j. Trouble Shooting, Repair and Maintenance Manuals.
- k. Life expectancy of components.

21. **Logistic Support.** It is also expected that the contracting firm will provide the sureties for the long-term 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 will be given by the developer firm regarding operation, fault location and trouble shooting of delivered items. This will also encompass the use of field and base level test equipment.
- b. **Test Equipment**. Necessary test equipment for field and base repairs/testing will also be provided if existing test bench can not fulfil the test requirements. In case of provision of new test bench by supplier, its technical details and cost effects will be mentioned in proposal separately.

22. **Warranty**. The purchaser seeks a warranty of at least 24 months or 300 operating hours whichever ever is later. Stores or the parts which fail prematurely during the period of warranty would be replaced by the supplier free of cost.

23. **CONDITION**. I have studied and understood the instruction to tender enquires and all conditions. I have thoroughly examined the specifications/drawings/samples provided and fully aware about the nature of stores required and my/our offer to develop and supply of stores is strictly in accordance with the requirement. In case of any doubt, interest of state shall be kept foremost.

- a. If at any stage after signing the contract changes in the design of component are required/observed these shall be suitably incorporated by mutual discussions.
- b. In case of any doubt/discrepancy the case shall be mutually resolved in such a way that interest of state is kept foremost.

24. **IMPORTANT INSTRUCTION FOR FIRM**

- a. The development work may please be started only on receipt of signed contract from ASRF HIT Taxila.
- b. Minor alterations in quantity according to the HIT requirement can be made in the contract even after signing of the contract.
- c. The rate must be quoted in figure and also in words. Alteration or overwriting must be initiated by the contractor to avoid cancellation.
- d. Samples of under development Harness set will be provided in proper size/shape to ensure early testing of this Harness Set.
- e. Quotation must be stamped and signed by registered representative only.

- f. Contracting agency/ ASRF will reserve the right to carryout surprise check at manufacturer premises of drawing of material sample/component for testing.
- g. Firm should be able to explain the price breakdown in detail, whenever requested by ASRF HIT TAXILA CANTT.
- h. Firm will arrange inspection & test panels during manufacture by HIT inspectors.

25. **SPECIAL CONDITIONS**

- a. Successful bidder will be required to deposit 10% PBG of total value of contract within one month after signing of contract.
 - b. Late delivery charges will be imposed, as per rule. Replacement of rejected / defective stores will be provided by the supplier free of cost within two months of defecting the discrepancies / issue of inspection report.
 - c. Firm will bear cost of inspection in terms of provision of gauges, test facilities not avail at firm premises or HIT.
 - d. It should be properly packed/ protected.
 - e. MD (ASRF) shall have the right to reject any or all of the tenders without assigning any reason thereof.
 - f. No fee, commission or gifts be provided to any one. Transparent transactions are requested.
 - g. Genuine Samples will be returned to ASRF on completion of contract. No part/component will be destructive tested without written permission of ASRF HIT.
 - h. Acceptance of offer and award of contract will be in accordance with PPRA rule.
 - j. 20% advance payment of total value excluding taxes may be made to the firm against Advance Bank Guarantee (ABG) of equal amount.
26. Bid evaluation criteria is already embedded in IT.
27. Only firms with integral development facility will be considered for contract. Any firm who intend to supply assemblies from off the shelf or third party is not allowed.
28. Prices will be valid for 3x years after sighning of contract and the firm will provide services for 5x years after expiry of warranty pd of contracted store.

WM
DAD (EM Branch)
(Engr Shafiq Ullah)

Indigenous Dev of FCS/ GCS Harness Set**Tk T-80UD**

Ser No	Part No	Nomenclature	A/U	Qty	Remarks
1	447A.71.510Sb or Equivalent	Cable No.1	Nos	1+4	
2	447A.71.520Sb or Equivalent	Cable No.2	Nos	1+4	
3	447A.71.150Sb or Equivalent	Cable No.3	Nos	1+4	
4	447A.71.540Sb-4 or Equivalent	Cable No.4	Nos	1+4	
5	478B.71.110Sb BC6.644.088 478B.73.080Sb or Equivalent	Cable No.5	Nos	1+4	
6	478B.71.120Sb or Equivalent	Cable No.6	Nos	1+4	
7	447A.72.030Sb-2 or Equivalent	Cable No.7	Nos	1+4	
8	BK3.B22.442 or Equivalent	Cable No.8	Nos	1+4	
9	447A.77.409Sb or Equivalent	Cable No.9	Nos	1+4	
10	478DU.71.170Sb or Equivalent	Cable No.10	Nos	1+4	
11	AL6.640.549 or Equivalent	Cable No.11	Nos	1+4	
12	447A.77.412Sb or Equivalent	Cable No.12	Nos	1+4	
13	478B.77.013Sb or Equivalent	Cable No.13	Nos	1+4	
14	447A.77.520Sb or Equivalent	Cable No.15	Nos	1+4	
15	478BE.77.016Sb or Equivalent	Cable No.16	Nos	1+4	
16	447A.70.140Sb or Equivalent	Cable No.17	Nos	1+4	
17	447A.77.385Sb or Equivalent	Cable No.18	Nos	1+4	
18	AL6.640.548 or Equivalent	Cable No.20	Nos	1+4	
19	478BE.70.210Sb or Equivalent	Cable No.21	Nos	1+4	
20	447A.77.540Sb-2 or Equivalent	Cable No.22	Nos	1+4	
21	478BE.77.023Sb or Equivalent	Cable No.23	Nos	1+4	
22	478D.78.120Sb or Equivalent	Cable No.24	Nos	1+4	
23	447A.77.256Sb or Equivalent	Cable No.26	Nos	1+4	
24	478BE.77.028Sb or Equivalent	Cable No.28	Nos	1+4	
25	PB4A.853.311 or Equivalent	Cable No.31	Nos	1+4	
26	PB4A.853.312 or Equivalent	Cable No.32	Nos	1+4	
27	AG16.644.261 or Equivalent	Cable No.37	Nos	1+4	
28	AG16.644.260 or Equivalent	Cable No.38	Nos	1+4	
29	AG16.644.263 or Equivalent	Cable No.39	Nos	1+4	
30	5AT.500.712 or Equivalent	Cable No.50	Nos	1+4	
31	BL4.855.000or Equivalent	Cable No.53	Nos	1+4	

32	TsIFT.685611.009 or Equivalent	Cable No.55	Nos	1+4	
33	TsIFT.685611.004 or Equivalent	Cable No.56	Nos	1+4	
34	TsIFT.685611.006 or Equivalent	Cable No.57	Nos	1+4	
35	447A.77.386Sb or Equivalent	Cable No.59	Nos	1+4	
36	478DU.77.060Sb or Equivalent	Cable No.60	Nos	1+4	
37	478BE.77.061Sb or Equivalent	Cable No.61	Nos	1+4	
38	478BE.77.062Sb or Equivalent	Cable No.62	Nos	1+4	
39	BL4.864.183 or Equivalent	Cable No.63	Nos	1+4	
40	478BE.77.056Sb or Equivalent	Cable No.65	Nos	1+4	
41	AGB4.863.918 or Equivalent	Cable No.66	Nos	1+4	