

UNIVERSITY OF ENGINEERING & TECHNOLOGY

LAHORE



TENDER DOCUMENT

**FOR THE PURCHASE OF EQUIPMENT/SERVICES/ MISCELLANEOUS STATIONERY
ON F.O.R BASE**

for

Mechanical Engineering Department

Contract Ph: 042-99029465

MECHANICAL ENGINEERING DEPARTMENT

UNIVERSITY OF ENGINEERING & TECHNOLOGY, LAHORE

TERMS & CONDITIONS / INSTRUCTIONS FOR BIDDERS

OF

EQUIPMENT/ SERVICES/ MISCELLANEOUS

1. Single stage/two envelope bidding procedure shall be applied in response. The envelopes shall be marked as “TECHNICAL PROPOSAL” and “FINANCIAL PROPOSAL”. The financial proposal of bids found technically non-responsive shall be returned unopened to the respective bidders. Technically responsive bidders shall be informed and their financial bids shall be opened in the next Central Procurement Cell (CPC) meeting after informing the technically responsive bidders.
2. Responding organizations shall deliver sealed proposal of the “TECHNICAL & FINANCIAL PROPOSALS” before or on **January 24,2022 at 9:30 a.m.**
3. The Proposals will not be accepted after the due date & time. Proposal shall be delivered at the address given below before time. The TECHNICAL PROPOSALS shall be opened on the same day, that is **January 24,2022** , at **10:00 a.m.** in the presence of bidders or the representatives of the responding organizations.
4. Price should be mentioned on FOR basis.
5. The prices, including all taxes, should be quoted item-wise in Pakistani Rupees so as to reach the premises of the University of Engineering & Technology Lahore.
6. Offers should be valid for 90 working days from the date of opening of the Tender.
7. Delivery period will be three (03) months from the date of placement of order. Earlier delivery will also be acceptable.
8. Bidders must submit their tender duly signed, clearly indicating the offered specifications of each item, specified in the Tender Document.
9. The University reserves the right, at the time of placing the order, to increase or decrease the quantity of items.
10. (a) Bids must be accompanied by 2% of total estimated approved cost i.e. Rs.52,12,000/- which amounts to Rs. 104, 240 as Earnest Money in the shape of CDR in the name of Treasurer, University of Engineering and Technology, Lahore without which bids will not be entertained. Bank Guarantee is not acceptable.

(b) the successful bidder will arrange **two stamp paper @0.25% on total value** of issuance of Purchase Order.
11. If the successful bidder fails to supply the equipment/ services/ miscellaneous within stipulated period, their Earnest Money shall be forfeited.
12. The equipment/ services/ miscellaneous must be in accordance with the offered specifications.
13. Bidders must attach attested photocopy of their N.T.N. and G.S.T. Number, Professional Tax Certificate.

14. The successful bidder(s) shall get the equipment/ services/ miscellaneous inspected at their premises workshop before its dispatch to the UET Campus.
15. Part / advance payment is not allowed.
16. **10%** security of total value of Purchase order/bill shall be deducted at the time of bill process. The deducted amount as security will be returned after successful completion of Defect Liability / Warranty Period, after repairing the defects in the equipment, services, miscellaneous / replacement found during the warranty period.
17. In case of failure on the part of supplier to supply the equipment/ services/ miscellaneous as per specifications quantity or within the stipulated time without getting extension, penalty upto 01% of the supply order per month will be imposed on the supplier by the Head of Department.
18. Payment will be made on availability of funds, if delayed due to any reason; no extra interest / mark-up will be accepted or paid.
19. Income Tax and other taxes of any kind will be deducted at the source according to Governments prevailing rules.
20. Sale price of the tender document is Rs.500/- (Non-Refundable). The details specifications of the required equipment/ services/ miscellaneous are given in the subsequent pages.
21. After Sale service and supply of spare parts must be guaranteed for a period of one month.
22. The original Request for Proposal documents duly signed and officially sealed by the bidder must be submitted in whole with the proposals. Any conditional, ambiguous, incomplete, supplementary or revised offer after the opening of tender shall not be entertained.
23. Any overwriting/crossing, etc. appearing in the offer may be properly signed by the person signing the tender. All pages of the tender must be properly signed & stamped. Offer with any overwriting/use of Blanco shall not be accepted in any circumstances.
24. The Departmental Inspection Committee, will get the equipments/ services/ miscellaneous inspected at Mechanical Engineering Department, UET Lahore and will have the right to reject the equipment/ services if not found according to the stated specifications.
25. In case any supply / material is found not in conformity with the specifications provided in the tender, either on account of inferior quality, defective workmanship, faulty design, faulty packing or is short supplied, or wrongly supplied, the supplier shall replace the same free of charges.
26. Bidding Companies should provide a data form to give information about company profile mentioning number of years in business, number of employees, contacts addresses, areas of business and other related information.
27. List of items, specifications and quantities is attached.as Annexure A.
28. Procurement shall be governed by the PPRA Punjab Rules-2014.

Prof.Dr. Tauseef Aized
Principal Investigator

Annexure A

List of Items

Description	No.	Specifications
Equipment:		
aluminum manipulators	5	7075 -t651 aluminum alloy
vision camera	1	Depth camera D435 1920x1080
actuators	10	DF15RMG Tilt Kit (20 kg) Servo Motor
pneumatic gripper control	5	Pneumatic actuator max 140Psi Bray 105159
silicon gripper material for fingers	4	Curing RTV 2 Silicon Elastomer A1203 20kg
microcontroller and sensors	8	Arduino Mega 2560, RGB colour sensor LX-101-P PNP, Pressure sensor 0.1 inch spacing 1.5 in sq.
laptop	2	Minimum 8th Gen Ci7 vPro QuadCore 08GB 256GB SSD 14" Full HD 1080p LED Backlit KB VGA Port
SolidWorks license	1	SolidWorks EDU 2019-2020, education version
3D printer (FDM)	1	FDM 165 x165 x 320mm, min layer thickness 0.1mm
solar panels	2	Multi crystalline 156 x156, 40 pcs, pv module, 200-300 W
invertor	2	Output Capacities; 3, 5, 7 and 10 KVA. Other specifications includes but not limited to Output voltage: 230V, 50 Hz single phase DC input/ output supply: 48 Volts AC input filters Short circuit protected Input synchronized with inverted output In a metallic enclosure With cables & accessories
battery	5	12 Volts Gel maintenance free batteries, Rated capacity at 20 hour rate(HR) be 100 AH, 150 AH and 200 AH at 25° degrees centigrade Internal resistance at full charge be 10 mohms
Steel/ Aluminium Structure, Movable platform	10	straight brackets, hollow aluminum bar, trapezium bracket, U shape bracket, movable platform.

		Aluminum sheet for base for high load and stress characteristics
Services:		
model analysis using Ansys or Pro-E or Catia to check kinematics analysis, envelop access assurance, accuracy, predictability and validation of Solar powered Fruit of entire produce the robot to ensure accuracy of mechanical structure, control system, solar energy absorption and converting it to mechanical/ electrical form.		
Analysis on Coordinate measuring machine (CMM) for measuring and ensuring accuracy Robot Gripper, Reverse Engineering. Analysis of Mechanical, dimensional and stress related properties related to gripper of a solar powered robot using any Engineering Analysis Software like Ansys or Pro-E or Catia or any related software.		
Miscellaneous stationery		
Item		Qty
Paper 80GMS Paper A/4		25
Tracing Paper F/S 200 sheet 90~95 GMS		5
Ball pen 4 Colors in 1 (G-4)		20
Ball Pen (different colors)		100
Clutch Pencil		25
Fountain Pen		15
Hi-Liter		30
OHP Marker Set (4 pieces)		15
Eraser		20
Scale Steel 12"		20
Sharpener Small Aluminum		20
Sharpener Machine Large		5
Heavy Duty Staples Remover 80 Sheets Capacity		10
Paper Cutter		10
Paper Trimmer A/4 Size Iron Base		5
Scissor Zig Zag 5"		10
Plain register 200 pages local		10
Writing Pad A4 Size		50
Writing Pad A4 Size		50
Board Marker		100