

MINUTES OF THE PRE-BID MEETING OF ELECTRONICS ENGINEERING TECHNOLOGY TENDER

The aforesaid meeting was held on 20.11.2023 at 11:00 a.m. in the Conference Room of UOT, Nowshera. Following attended the meeting.

1. Dr. Shahid Iqbal, Chairman/Member
2. Engr. Muhammad Lais, DD (P&D)
3. Mr. Mehran Khan, AD (Fin)/Member
4. Mr. Tauseef Ahmad, AR (Admin)/Member
5. Mr. Abubakar Shinwari, Proc: Officer/Member
6. Mr. Momin Shah, External Procurement Expert/Member
7. Mr. Irshad Ali, External Procurement Expert/Member
8. Dr. Haider Ali, HoD Electronics Engineering Technology
9. Dr. Irshad Ullah, HoD Energy Engineering Technology
10. Engr. Amad Hamza, Lecturer Electronics Engineering Technology

Representatives of the prospective bidders also attended the meeting as per list attached.

The meeting started with the name of ALLAH. Thereafter, Dr. Shahid Iqbal, Chair of the Procurement Committee welcomed the participants and invited the representatives of prospective bidders to ask queries, if any in the terms and conditions of tender documents or specifications. The details of the queries and their clarifications/recommendations are as under:

S.NO	QUERY	CLARIFICATION/RECOMMENDATIONS
1	Bidders expressed concerns regarding the certification of lab equipment as specified in the bidding documents.	The certificate of ISO 14001 mentioned in the lists of equipment may be treated as removed
2	Modification in specifications of Lab Equipment	<p>The following part of specification of item No.3 of digital logic and FPGA Lab may be treated as deleted: -</p> <p><i>{Specifications:</i> <i>Display LCD</i> <i>Power Supply: 2 x AA 1.5V Batteries Search Modes: 3.3V/5.0V/AUTO Modes Screen Size: 36 x 10mm</i> <i>Product Size: 133 x 70 x 25mm / 5.24 x 2.75 x 0.98in</i> <i>Product Weight: 120g / 4.23oz}</i></p> <p>Moreover, the specification/details of Miscellaneous Equipment mentioned at page 48 to 50 of BSDs may be treated as revised as per listed attached duly corrected by the Technical Committee.</p>
3	Clarification regarding Desktop Computers	The committee clarified that desktop computers may not be quoted as support item unless otherwise explicitly mentioned in the list of specifications.
4	Item-wise prices and evaluation	<p>The committee recommended that, ITB 11.4 (page-14), may be substituted as under: -</p> <p>Prices can be quoted for all the items/equipment or for any particular item/equipment as item-wise. The bid evaluation shall be carried out in item-wise</p>

		manner. Conditional offer will also be considered as non-responsive.
5	Substitution of S No. with Item No mentioned in the list of equipment	The S No mentioned in the heading lines of lists of equipment may be read as "Item No." (Item Number)
6	Extension of Bid Submission Date	The due date for submission and opening of bids may be extended to 04/12/2023 .

After thorough deliberation, all committee members unanimously agreed that the above recommendations shall be forwarded to the Competent Authority for consideration and approval. Following the approval by the Competent Authority, a corrigendum may be issued in the national dailies for extension in date of submission/opening of bids, and the above changes may be made part of bidding documents and uploaded on the KPPRA/University website and shared with the bidders who have purchased the bidding documents.

MISCELLANEOUS EQUIPMENT

Revised list of items and specifications After Pre-Bid Meeting dated 20/11/2023

Item. No	Item	Specification	Quantity
1	Power Monitor Meter/ Socket	Electric Power Energy Monitor Socket Watt Meter Analyze. Display Type: LCD Minimum rating: 4500W, 85-265V, 50Hz 16A Measuring active power Monitoring the voltage RMS Monitoring the current RMS Monitoring the value of the current active power Monitoring the power factor 0.1 to 1.0 Monitoring the voltage and frequency Recorded the total time consumption. Built-in rechargeable battery for memory conservation Safety: GS, EN 61010-1; CAT II 300 V Manufacturer Compliant with ISO-9001	01
2	Green House gas analyzer	Portable Unit Display Type: LCD Rechargeable Lithium battery In-built memory Connection compatibility with PC FTIR emissions monitoring system, and typically set up to measure H ₂ O, CO ₂ , CO, NO, NO ₂ , N ₂ O, SO ₂ , NH ₃ , CH ₄ , HCl, HF and different VOCs. The system can measure up to multiple gases simultaneously. Range: CH ₄ : 0-100%, CO ₂ : 0-50%, H ₂ S: 0-9999ppm, O ₂ : 0-25%, CO: 0-2000ppm, H ₂ :0-2000ppm Manufacturer Compliant with ISO-9001	01
3	Electromagnetic Field Radiation Detector	Unit: mG (Electric Field); μ T (Magnetic Field) Accuracy: $\pm 5\%$ (50 μ T to 200 μ T) μ T at 50Hz or 60Hz Minimum Range: Electric: 0~2000mG; Magnetic: 0~200 μ T Minimum Resolution: 1mG, 0.1 μ T Alarm Threshold: 40mG, 0.4 μ T Minimum Temperature: 0~50°C / 32~122°F Display: LCD Display Minimum Test Bandwidth: 30Hz-300Hz Sampling Rate: 0.5 Seconds Test Mode: Bimodule Synchronous Test Minimum Operating Temperature: 0~50°C, Relative Humidity 0~80% Minimum Storage Temperature: -10~50°C, Relative Humidity: 0~70% Manufacturer Compliant with ISO-9001	01
4	Insulation Tester	Display Type: LCD Automatic discharge of capacitors (capacitive voltage) Automatic detection of circuits with voltage. Test Voltages 250V, 500V, 1000V OHM max.: 4000 M Ω Insulation Resistance Accuracy $\pm 3.5\%$ rdg. ± 5 dgt. Resistance Accuracy $\pm 1\%$ rdg. ± 2 dgt.	01

		Voltage Range 1000V Voltage Accuracy AC: $\pm 1.2\%$ rdg. ± 10 dgt. DC: $\pm 0.8\%$ rdg. ± 3 dgt. Continuity Range Beeps $\leq 40\Omega$ Test Current $\leq 200\text{mA}$ Safety: TÜV / GS, EN-61010-1; CAT III 1000 V Manufacturer Compliant with ISO-9001	
5	Infrared Thermal Camera	They are widely used for electrical, building services and facilities operation and maintenance applications. Fully automatic with built-in intelligence Built-in digital camera Compact size design Display Type: LCD Photo recording Option to export image Centre point temperature measurement Single-button blending of digital and thermal images, to instantly indicate exact location of issue Alarm and time-lapse features Automatic hot and cold spot trackers SmartView reporting software Minimum battery life 8 hours Minimum Temperature range -10°C to $+250^{\circ}\text{C}$ Manufacturer Compliant with ISO-9001	01
6	WEATHER STATION	Wireless weather station connect to WIFI, upload data to web. PC software to view the weather data, after PC connecting to the same Wi-Fi(support 2.4Ghz Wi-Fi) History Record interval. Time and date, Sunrise and Sunset time, solar radiation, Moon phase. Indoor/outdoor temperature and humidity & Wind chill & wind direction & Rainfall & Pressure measure, Display rain rate, rainfall data in 24 hours, one week, one month, one year, total rain and rainfall event. Wind speed in mph, km/h, m/s. The direction of the wind with 360 degree. Wind chill, dew point and heat index temperature display. Barometric, weather forecast. Light and UV index. RF Frequency: 433 MHz Minimum Temperature range: -40°C \sim $+60^{\circ}\text{C}$ Minimum Humidity range: $10\% \sim 99\%$ Minimum Rain volume: 0 - 9999 mm Minimum Wind speed: 0-50m/s (0~100mph) Wind direction: 0 to 359 degree Light: 0-200k Lux UVI: 0-15 Manufacturer Compliant with ISO-9001	01
7	Portable Video Borescope	Display Type: LCD Minimum resolution 720p, Memory what you see on the screen. Minimum tube length 1 meter 8 to 9 mm in diameter, flexible Waterproof (Waterproof grade: IP67). Camera Ministry with multiple LED lights can be used in a dark space,	01

		<p>Image Capture in JPEG file format, video Recording in Monitor. Minimum Resolution: Image :640*480 pixels, Video(with Audio) D1 720*480 Pixels(30 fps)8 Zoom In/Out (Max. 5X) Interface: SD card (), USB 1.1, RGB Video out. Battery: minimum working time:4-6 hours Ingress protection: IP 67 Manufacturer Compliant with ISO-9001</p>	
8	Three-Phase Power Quality and Energy Analyzer	<p>Display Type: LCD Measurements of voltage, current, harmonics, power, inrush current and other Graphical display of waveforms and Vector Internal data logger for recording of events connection for data processing</p> <p>Volt 1-phase (2-wire) and 3-phase (3 - and 4-wire) measurement Vrms (AC + DC) Measurement range: 1 to 1000 V phase to neutral Vpk Measurement range: 1 to 1400 Vpk Voltage Crest Factor (CF) Measurement range: 1.0 > 2.8 Vrms 1/2 Phase angle: 0° ... 360° Power factor: 0.00 ... 1 Power max.: 20 MW Screen size (TFT): 14 cm .5,6"" V DC max.: 1000V Wat hours max.: 200 GWh A AC max.: 3000 A (Current Clamp) V AC max.: 1000V</p> <p>Measure multiple parameters simultaneously to quickly understand overall power quality health View data as simple digital values or more detailed trend graphs that give you fast insight into changes over time, waveforms, and phasor diagrams Organize data in tabular format so you can quickly correlate parameters like magnitude, duration, and time to the issues you are experiencing in your facility</p> <p>Testing Standards: IEC 61000-4-30, 61000-4-15, 61000-4-7, und EN 50160 Safety: EN 61010-1, CAT III 1000 V / CAT IV 600 V; Protection Class: IP51, according IEC60529 Manufacturer Compliant with ISO-9001</p>	01