



**AGRICULTURE DELIVERY UNIT (ADU)/PMU,
SINDH WATER AND AGRICULTURE
TRANSFORMATION (SWAT) PROJECT,
HYDERABAD**

E-mail: pdsawatagri@gmail.com

REQUEST FOR QUOTATION

Activity Reference No: PK--GO-RFQ-014

Loan No: IDA-7255-PAK

Date: 21st May 2024

The Government of Sindh through the Agriculture Department is implementing Sindh Water & Agriculture Transformation (SWAT) Project with financial assistance of the World Bank under International Development Association (IDA) No. 72550-PK.

Agriculture Delivery Unit (ADU) of Sindh Water & Agriculture Transformation (SWAT) Project invites sealed quotations from the reputed (NTN/GST/SRB) registered Firms, Manufactures, Authorized Dealers and Distributors having previous experience to provide following types of office equipment.

Technical Specifications and Schedule of Requirements

| S.No. | Particulars | Quantity Required |
|--------------|---|--------------------------|
| 1 | <p>Generator (Diesal) (35-40 KV) Available Voltage Standby kVA 45 3 Phase kW 26 220/380 Volt 50Hz Prime kVA 40 Power Factor 0.8 kW 24 Engine: Engine Speed RPM 1500 Engine Power Output at rated rpm kWm 31 HP 41.6 Cooling Radiator Cooled Aspiration Natural Total Displacement Liter 3.3 No. of Cylinders and Build 3-Inline Bore and Stroke mm x mm 105 x 127 Compression Ratio 19.25:1 Governor Mechanical Fuel Consumption (L/hr) Full Load 7.1 75% Load 5.4 50% Load 3.9 Fuel Tank Capacity (Non-UL) Liter 130 Open / 180 SAE Oil Capacity Liter 8.3 Coolant Capacity Liter 10.2 Radiator Cooling Air m³/min 70 Alternator: Design Brushless single bearing, revolving field Stator 2/3 pitch Rotor Single bearing, flexible disc Insulation System Class H Standard Temperature Rise 125 -163°C Continuous Exciter Type Self Excited Phase Rotation A (U), B (V), C (W) Alternator Cooling Direct drive centrifugal blower fan AC Waveform Total Harmonic Distortion No load < 1.5%. Non distorting balanced linear load < 5% Telephone Influence Factor (TIF) SOUND ATTENUATED GENERATOR DIMENSIONS (LxWxH) mm 2338 x 1080 x 1561 DRY WEIGHT kg 1292 FEATURES AND BENEFITS OF ENCLOSURE:<ul style="list-style-type: none">• All enclosure parts are modular• No welding to reduce corrosion</p> | 1 |

| | | | | | | | | | | | | | | | | |
|-----------------------|--|--------------------|-----------------------------|-----------------------|------------------------------|----------------|-------------|---------------------|--------------------------------------|--------------------|--|---------------------|-----------------------|-----------------------|--------------------------|---|
| | <ul style="list-style-type: none"> • Doors on both sides for easy maintenance • All metal parts are powder coated • Critical Exhaust Silencer Included • Thermally insulated exhaust system • Emergency stop located on exterior • Easy Lifting and Moving <p>The supplier must also install with POL concrete foundation and run the generator one time at the location given requirements 100meter 99.99%copper 4 core 35mm cable along with ATS system. 1 year service and maintenance warranty.</p> | | | | | | | | | | | | | | | |
| 2 | <p>PABX system 20-30) Connections along with telephone set and Installations</p> <p>Intercom Set with CLI</p> <ul style="list-style-type: none"> • Redial Memory Last Number Electronic • Volume Control: 4 Steps • Timed Flash: 600 ms • Number of Phone Lines: 1 • Telephone Set With CLI • Excellent Voice Quality, Wall-Mountable • Switchable Tone, Pulse Setting, Last Number Redial <p>Local Area Network complete job within the ADU office.</p> | 1 | | | | | | | | | | | | | | |
| 3 | <p>UPS/ Solar System for Office backup along with fitting (10-15)KVA</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">Solar Panel</td> <td>Solar modules panel 580watt</td> </tr> <tr> <td>Solar Invertor</td> <td>Hybrid Solar Inverter 15 kva</td> </tr> <tr> <td>Battery</td> <td>Dry Battery</td> </tr> <tr> <td>Installation</td> <td>Cable - AWG 4mm Pakistan/Newage/Fast</td> </tr> <tr> <td>Accessories</td> <td> Cable - AWG 7.36 Cable - AWG 16mm DC Surge Protection Device 32A AC Load Breaker (2P) 100A TP MCCB (2P) 63A AC Load Breaker (2P) Solar DB Box Cable Duct/Rawal Bolt/Cable Tie/Screw/Tape/insulation </td> </tr> <tr> <td>Installation</td> <td>Installation Services</td> </tr> <tr> <td>Transportation</td> <td>Equipment Transportation</td> </tr> </table> | Solar Panel | Solar modules panel 580watt | Solar Invertor | Hybrid Solar Inverter 15 kva | Battery | Dry Battery | Installation | Cable - AWG 4mm Pakistan/Newage/Fast | Accessories | Cable - AWG 7.36 Cable - AWG 16mm DC Surge Protection Device 32A AC Load Breaker (2P) 100A TP MCCB (2P) 63A AC Load Breaker (2P) Solar DB Box Cable Duct/Rawal Bolt/Cable Tie/Screw/Tape/insulation | Installation | Installation Services | Transportation | Equipment Transportation | 1 |
| Solar Panel | Solar modules panel 580watt | | | | | | | | | | | | | | | |
| Solar Invertor | Hybrid Solar Inverter 15 kva | | | | | | | | | | | | | | | |
| Battery | Dry Battery | | | | | | | | | | | | | | | |
| Installation | Cable - AWG 4mm Pakistan/Newage/Fast | | | | | | | | | | | | | | | |
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| Installation | Installation Services | | | | | | | | | | | | | | | |
| Transportation | Equipment Transportation | | | | | | | | | | | | | | | |

CAMERA

- o Smooth motorized pan, tilt and zoom controlled from remote or console
- o Pan +/- 90°
- o Tilt +35° / -45
- o 10x lossless HD zoom
- o Field of View
 - Diagonal: 90°
 - Horizontal: 82.1°
 - Vertical: 52.2°
- o Full HD 1080p 30fps
- o H.264 UVC 1.5 with Scalable Video Coding (SVC)
- o Autofocus
- o 5 camera presets
- o Far-end control (PTZ) of Conference Cam product (with supported services)
- o Kensington security slot
- o Video mute/unmute LED indicator
- o Standard tripod thread

REMOTE CONTROL

- o Camera, speakerphone, and call control
- o 5 camera presets
- o Docks on speakerphone
- 01
- o IR 8.5 m range
- o CR2032 battery (included)

SPEAKERPHONE

- o Full-duplex performance
- o Acoustic echo cancellation
- o Noise reduction technology
- o Ultra-wideband audio
- o Pairs with mobile devices via Bluetooth and NFC o LCD for caller ID, call duration and other functional response
- o LEDs for speakerphone streaming, mute, hold, and Bluetooth
- o Tactile buttons for call answer/end, volume and mute, Bluetooth, and camera controls
- o 5 camera presets for pan, tilt, and zoom settings
- o Kensington security slot

HUB / CABLES / POWER

- o Central Hub connects and powers all components
- o Under-table mounting adhesive included
- o One cable to camera: 5 m
- o One cable to speakerphone: 5 m
- o Extended cables available: 10 and 15 m
- o One USB cable for connection to PC/Mac: 2 m
- o AC Power adapter with regional plugs
- o Power cable: 3 m

MOUNT

- o Dual-purpose bracket works for both wall mounting and tabletop elevation

MICROPHONES

- o Pickup Range: 6 m
- o Pickup range with expansion mics: 8.5 m
- o Four omnidirectional, beamforming microphones o Frequency Response: 100Hz – 11KHz
- o Sensitivity: -28 dB +/-3dB
- o Distortion:

LED TV (FOR VIDEO CONFERENCING SYSTEM)

- Screen Size: 85"
- Type: 4K UHD Google TV
- System of Digital TV (VIDEO/AUDIO): DVB-T+C+T2 H.265+S2 • System of Analog TV (VIDEO/AUDIO): PAL/SECAM
- Smart TV: Google TV
- Aspect Ratio: 16:9 • Resolutions: 3840*2160 • Refresh Rate: 120Hz • Contrast: 7000:1 • Brightness(cd/m2): 400 • Response Time: 8ms • Color Depth: 1.07B
- Viewable Angle(H/V): 178/178
- Dolby Vision: Yes
- Resolution: 3840*2160
- Picture Modes: User, Standard, Vivid, Sport, Movie, Game, Energy Saving
- Digital Noise Reduction: Yes
- Dolby Atmos: Yes
- Audio Mode: User, Standard, Night, Sports, Movie, Music, News, Auto
- Audio Output Power:15W*2 Speaker 4 Cavity horn
- Sound balance: Yes
- Mute: Yes
- DBX-TV: Yes
- Dolby Digital Decoding: Yes
- HDMI: 4 (HDMI 2.1)
- USB: 2 (USB 2.0)
- RF Input: Yes
- Composite Input: Yes
- Headphone: Yes
- Wireless Wifi Access: Yes
- Ethernet LAN: Yes
- CPU: ARM CA73 Quad core with TEE 1.3Ghz
- Graphics: G52 MC1 @550MHz
- RAM: 3GB DDR4
- ROM: 32 GB Flash
- System: Google TV
- Applications-Google Play: Yes
- Hands Free Voice Control: Yes
- HDR: YES(HDR10)
- Color temperature: User/Standard/Warm/Cool 01
- Chromecast: Yes
- APP Store/Browser: Yes
- Auto-Timer on/off: Yes
- Bluetooth Remote: Yes
- Voltage Range: 100-240V 50/60Hz
- Warranty: Brand Warranty

MOUNT

- o Dual-purpose bracket works for both wall mounting and tabletop elevation

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|--|-----------------|------------|-----------------|--------------|------------------|-------|------------------|-----|-----------------|--------|---------------------|----------------|---------------|-------|-----------------|--------|--------------------|---------------------|-------------------|---------|--------------------------|-------|---------------------|-------------|----------------|-------------------------------------|------------------|---|---------------|---------|-------------|-------------------|---------------------|-------|------------------|---------|-------|-------|------------|-----|-----------|----------------------|--------------|--|---|
| | <p><u>COMPATIBILITY AND CERTIFICATIONS</u></p> <ul style="list-style-type: none"> o Plug-and-play USB connectivity o Certified for Skype for Business and ready for Teams o Fuze® Certified o Microsoft Cortana o Cisco Jabber® o Compatible with Blue Jeans, BroadSoft, GoToMeeting, Vidyo, and other video conferencing, recording, and broadcasting applications that support USB cameras o Compatibility: Windows® 7, 8.1 or 10 macOS 10.10 or later o Warranty: Brand Warranty | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | <p>Sound System Sound System with 15" Woofer high quality output speakers and amplifier alongwith speakers.</p> | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | <p>Microphone Conference System (Wireless) Mic System (20 no for conference table)</p> <table border="0"> <tr> <td>Frequency range</td> <td>740-790MHz</td> </tr> <tr> <td>Modulation mode</td> <td>Wide band FM</td> </tr> <tr> <td>Adjustable range</td> <td>50MHz</td> </tr> <tr> <td>Channel quantity</td> <td>200</td> </tr> <tr> <td>Channel spacing</td> <td>250KHz</td> </tr> <tr> <td>Frequency stability</td> <td>Within ±0.005%</td> </tr> <tr> <td>Dynamic range</td> <td>100Db</td> </tr> <tr> <td>Frequency swing</td> <td>±45KHz</td> </tr> <tr> <td>Frequency response</td> <td>80Hz ~ 18KHz (±3dB)</td> </tr> <tr> <td>Comprehensive SNR</td> <td>> 105dB</td> </tr> <tr> <td>Comprehensive distortion</td> <td>≤0.5%</td> </tr> <tr> <td>Working temperature</td> <td>-10°C–+40°C</td> </tr> <tr> <td>Receiving mode</td> <td>Two frequency conversion heterodyne</td> </tr> <tr> <td>Medium frequency</td> <td>First medium frequency: 110MHz; Second me</td> </tr> <tr> <td>Wireless port</td> <td>BNC/50Ω</td> </tr> <tr> <td>Sensitivity</td> <td>12 dBμV (80DbS/N)</td> </tr> <tr> <td>Spurious inhibition</td> <td>≥75dB</td> </tr> <tr> <td>Max output level</td> <td>+ 10dBV</td> </tr> <tr> <td>Color</td> <td>Black</td> </tr> <tr> <td>Net weight</td> <td>5KG</td> </tr> <tr> <td>Dimension</td> <td>432L x 45H x 236W mm</td> </tr> <tr> <td>Installation</td> <td>Suitable for 19 inch standard stand along with</td> </tr> </table> | Frequency range | 740-790MHz | Modulation mode | Wide band FM | Adjustable range | 50MHz | Channel quantity | 200 | Channel spacing | 250KHz | Frequency stability | Within ±0.005% | Dynamic range | 100Db | Frequency swing | ±45KHz | Frequency response | 80Hz ~ 18KHz (±3dB) | Comprehensive SNR | > 105dB | Comprehensive distortion | ≤0.5% | Working temperature | -10°C–+40°C | Receiving mode | Two frequency conversion heterodyne | Medium frequency | First medium frequency: 110MHz; Second me | Wireless port | BNC/50Ω | Sensitivity | 12 dBμV (80DbS/N) | Spurious inhibition | ≥75dB | Max output level | + 10dBV | Color | Black | Net weight | 5KG | Dimension | 432L x 45H x 236W mm | Installation | Suitable for 19 inch standard stand along with | 1 |
| Frequency range | 740-790MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Modulation mode | Wide band FM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adjustable range | 50MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Channel quantity | 200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Channel spacing | 250KHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Frequency stability | Within ±0.005% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dynamic range | 100Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Frequency swing | ±45KHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Frequency response | 80Hz ~ 18KHz (±3dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Comprehensive SNR | > 105dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Comprehensive distortion | ≤0.5% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Working temperature | -10°C–+40°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Receiving mode | Two frequency conversion heterodyne | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Medium frequency | First medium frequency: 110MHz; Second me | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wireless port | BNC/50Ω | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sensitivity | 12 dBμV (80DbS/N) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spurious inhibition | ≥75dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max output level | + 10dBV | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Color | Black | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Net weight | 5KG | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimension | 432L x 45H x 236W mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Installation | Suitable for 19 inch standard stand along with | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|----|--|---|
| 7 | Air Conditioners Standing(2-Ton) Inverter <ul style="list-style-type: none"> • Capacity wise: 2-Ton • Category wise: DC Inverter • Cooling Capacity BTU: 24500 • Cooling: Yes • Heating: Yes • Dry: Yes • Vertical Flapper Auto Swing: Yes • Horizontal Louvers Auto Swing: Yes • Wi-Fi: Yes • Self-Clean: Yes • Anti-Corrosion: Yes • Turbo Function: Yes • Warranty: Brand Warranty | 2 |
| 8 | CCTV Surveillance System Camera AHD-1080-P-Icloud-Web 3G-P2P-5 in One S-channel HYBIRD-AHD XVR- 5 in One DVR with HDMI, Cloud P2P, Full Network Support Auto Connect (01 No.); CCTV Camera 1.3 MP AHD Sony Color 2.8 MM-Bulet Camera 1.3 Mp AHD Camera 2.8/mm Wide angle lens, 1-IRY-1pcs, IR leds (06 Nos.); Hard Disk Seagate 1 TB Hard Disk drive for recording 1024 GB (01 No.); CCTV Camera 2 MP AHD Sony 2.8 MM-Bulet Camera (R74s) 2 MP AHD Camera 3.66/mm lens 1-IRY-1pcs, IR leds, 20'm IR distance (01 No.); CCTV Camera AHD-1080-P 2MP-360 Fish Eye Camera 2 MP AHD Camera 360/mm Fish Eye lens 1-IRY-1pcs, IR leds (01 No.) CCTV Camera Power Adapter 2.0amp Coper Supply (08 Nos.); HD Connector Video Baloon range extender HD/CVI/TVI (06 Nos.); ODF Box Fiber/Plastic (01 No.); CCTV Camera Stand 360 Camera Stand (01 No.); With complete installation except cost of P/L/Fixing of wiring. (01 job) | 1 |
| 9 | Water Dispenser <ul style="list-style-type: none"> • Two Faucet & Two Water Temperatures • Without Refrigerator • Danfu Brand Compressor • Elegant Design • Color: White • Child Safety Lock • Indicator Light • Voltage: 220-240 V • Warranty: Brand Warranty | 4 |
| 10 | Tea maker/ Coffee maker | 2 |

The Subject item(s) will be procured under Procurement Regulations of the World Bank.

Companies having previous experience of above work and NTN/GST/SRB Registered may quote their competitive prices on or before 04th June 2024.

Delivery time: Within 20 working days after issuance of purchase order.

Mode of payment: Through crossed cheque after delivery and verification of items.

Taxes: Taxes will be deducted according to government rules.

Validity of Quotations: The quotation validity required is Thirty (30) days.

Place of Delivery: Agriculture Delivery Unit, 2nd Floor, Block F, Shahbz Building,
Thandi Sarak, Hyderabad.

The quotations with complete details of the quoted item may be addressed and submitted to the following on the address given below:

Date of deadline: 04th June, 2024.

Time of deadline: 1700hrs (local time).

**PROJECT DIRECTOR,
Agriculture Delivery Unit (ADU)
Sindh Water and Agriculture Transformation (SWAT)
2nd Floor, Block F, Shahbaz Building
Thandi Sarak, Hyderabad
Phone: 022- 9201924**