



Phone: 0294-2470837, 0294-2471056 (Fax), E-mail: ctaedean@gmail.com
COLLEGE OF TECHNOLOGY AND ENGINEERING
Maharana Pratap University of Agriculture & Technology,
Udaipur – 313 001 Rajasthan

No. CTAE/ECE/Tender/2023/ 1067-70

Dated: 16-03-2023

NOTICE INVITING LIMITED BIDS

BID Ref. No.: CTAE/ECE/2023/LB- 10

Dated: 16.03.2023

Sealed Bids, in prescribe format, are invited on behalf of the Dean, College of Technology and Engineering, Maharana Pratap University of Agriculture and Technology, Udaipur (Rajasthan) for the procurement of “Supply of Components and Modules for “Design and Development of IOT based smart solar street light system” project for NewGen IEDC cell of CTAE, Udaipur” Goods (and related services)/ Services/Work as listed below and detailed in the Schedule of Supply (Annexure-1), from manufacturers/ distributors/ authorised dealers/ stockiest/ registered Bidders/ bona-fide dealers up to the Date and Time Specified below. The Bidders or their representative may be present in the bid opening. This bidding document may also be downloaded from our websites www.ctae.ac.in or www.mpuat.ac.in or the website of State Public Procurement Portal www.sppp.rajasthan.gov.in.

IMPORTANT BID DATA

1.	Procuring Entity's address for Bid Submission, clarification, and Opening of Bids	Dean, College of Technology and Engineering, Administrative Block, Udaipur - 313 001 Telephone No.: 0294-2470837; Fax No.: 0294-2471056, E-mail: ctaedean@gmail.com	
2.	Deadline for Bid submission	Date : 21-03-2023	Time: 4.00 PM
3.	Bid opening	Date : 22-03-2023	Time: 11.00 AM
5.	Bid Security Amount	Rs. 3990/-	
6.	Bid Should remain Valid Up to	30 Days from the Last date of submission of Bids	

Brief Description of the Goods/ Services/Works:

(Please Refer to the Schedule of Supply (Annexure-1) for Detailed Specifications and Special Conditions, if any)

SN	Name of the Goods/ Services/Works	Quantity Required	Unit Price Approx. cost* (Rs.)	Total Price *inclusive of all axes(Rs.)
i.	Polycrystalline Solar panel (40 W), Maximum Power : 40W , Tolerance : $\pm 3\%$, Open Circuit Voltage : at least 20 V , Short Circuit Current : 2.5A or less Maximum Power Voltage : 18.2V or better , Maximum Power Current : 2.2A or better, Module Efficiency : atleast 12.00% , Solar Cell Efficiency : atleast 16.0% , Series Fuse Rating : atleast 15A	1	3000/-	3000/-
ii	LED light Wattage : 10W	1	1500/-	1500/-
iii	Smart pole made of MS and powder coated. Atleast 1 inch diameter and 1 mt height suitably tilted for light mounting	1	3000/-	3000/-
iv	Rheostat 100 Ohm, 3A	2	1500/-	3000/-

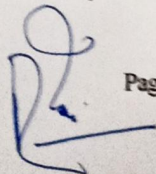
v.	3.5 v to 5 V USB powered PIR and TTL PIR sensor Modules with fixtures, enclosures and cables with effective distance of 2cm to 30 cm	6	4000/-	24000/-
vi.	High precision calibrated Air quality sensor (Air quality PM1, PM2.5 and PM10) sensor modules PM2.5: 0~1000ug/m3 , PM10: 0~1000ug/m3 Resolution: 1ug/m3 , Accuracy: ±3%FS (@100ug/m3,25°C,50%RH), Responding speed: ≤90S	4	7000/-	28000/-
vii.	Temperature and humidity sensor (High precision calibrated Temperature sensor) : 0 – 100° C . Humidity sensor : 0 – 100 % RH, Operating Voltage: 3.5V to 5.5V Operating current: 0.3mA (measuring) 60uA (standby) Output: Serial data , Resolution: Temperature and Humidity both are 16-bit, Accuracy: ±1°C and ±1%	8	2000/-	16000/-
viii.	Ambient light sensor (High precision calibrated Ambient light sensor) : Analog output It should have in-built I2C communication interface (SDA and SCL pins) to interface with microcontroller. In-built illuminance (analog input) to digital converter.High and wide range resolution (1 to 65535 lx) operating voltage of 2.4V to 3.6V and should consumes less current of 0.21mA. Wide range of detection at high resolution (1 to 65536 lx).It should have capability of connecting atleast 2 devices to the I2C interface in the sensor.	8	2000/-	16000/-
ix.	Night vision camera (Night vision camera should be of good resolution for the surveillance) with fixture and mounting, Dome or Bullet type of at least 2.4 Mega Pixel	1	6000/-	6000/-
x.	Battery (Voltage: 12V), 112S SMF , 26 AH of standard Make and Model	2	3500/-	7000/-
xi.	Charge controller Voltage 16-26V, Current: 0.7A Solar Charge Controller Hybrid SMU 50A, Supporting - 12V Panel with 12V Inverter Battery, 24V Panel with 24 Volt Inverter Battery (50 AMP)	2	4500/-	9000/-
xii.	Banana patch cord Should be of 4mm Type :BS10	25	200/-	5000/-
xiii.	Smart sensor gateway (Battery operated smart sensor gateway) for sensor connectivity with RF and ZigBee modules. Protocol:MQTT / HTTP , Channel: Worldwide use GSM Gateway Parameters, Speed :10 to 100 Mbps , Connection:Ethernet RJ45 / WiFi / BLE , Ethernet : 100Mbps FE RJ45 , 4G/ 5G Support : Atleast Any one , General Parameters : 4G Antenna 04 dBi gain / Linear polarization /Omnidirectional / SMAJ connector	4	13500/-	54000
xiv.	Wireless keyboard & mouse	1	2000/-	2000/-
xv.	RAM IGB LPDD2 MODULE	6	1000	6000/-
xvi.	Processor 64 bit Cortex A53 ARM v8 Quad Core with Ethernet	1	8000	8000/-
xvii.	Microcontroller ATmega 2560	4	1500	6000/-
xviii.	Wi-Fi and Bluetooth modules ESP 32	4	500	2000/-
			Total Cost	199500/-

*Including all taxes and expenditure.

TERMS & CONDITIONS:

1. Bid Preparation and Submission:

- 1.1 The bid/quotation must be submitted on official letter head of the bidder in the enclosed format (Annexure-1) and signed by the Bidder and must be properly sealed in an envelope. On the envelope "Bid for the Supply of [Name of Item/Services.]",



OLC

"Due date of Opening" and Bid Ref. No. must be clearly marked. If the bid is not sealed and marked as required, the Procuring Entity shall assume no responsibility about its consequences including misplacement and premature opening of the Bid.

2. Validity of Quotation:

- 2.1 Quotation shall remain valid for acceptance for a period not less than 30 days after the deadline date specified for submission.

3. Bid prices

- 3.1 The rates quoted by the bidder shall be in Indian Rupees only and shall remain fixed for the duration of the contract and shall not be subject to adjustment on any account.
- 3.2 All taxes like Central/ Rajasthan GST, etc. to be charged extra should be shown separately (along with their rate) failing which the rates quoted by the bidder shall be assumed to be inclusive of all taxes and levies.

- 3.3 All rates quoted must be FOR destination (CTAE, Udaipur) and should include all incidental charges.

- 3.3 The goods quoted should be as per the required specifications. Any deviations should be mentioned in the quotations.

- 3.4 Wherever applicable, the Make and Model No. of goods offered and their technical leaflet/brochure must invariably be enclosed, failing which the bid may be rejected.

4. Award of Contract/Supply Order

- 4.1 The Purchaser will award the contract/Supply Order to the bidder whose quotation has been determined to be substantially responsive, conform to the terms & conditions, and specifications and who has offered the lowest evaluated quotation price.

- 4.2 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.

5. General

- 5.1 Quantities given are approximate and the final order may be placed for more or less quantities.

- 5.2 The bids for the items, wherever indicated, will not be accepted without samples.

- 5.3 In all future references the Bid No. must be invariably mentioned.

- 5.4 Normal commercial warranty/ guarantee shall be applicable to the supplied goods.

- 5.5 The bidder has to mention their RST/CST/GSTIN No. in their quotations otherwise their bids are liable to be rejected.

- 5.6 Payment shall be made against printed, pre-receipted, and pre-stamped invoice/bill mentioning RST/CST/GSTIN No.


DEAN

Copy to:

1. Dr. B.L Salvi, Nodal Officer (Accounts), with a soft copy in pdf format to kindly arrange to upload the Bid Document on the College website and the State Public Procurement Portal.
2. The S.O. (A/C)
3. The tenders Notice Board.


DEAN

- X----- not to be scanned below this line -----X-----
- Copy sent to the following bidders:
1. Technozon Solutions , Level 4, Tower A, Godrej Eternia, Plot no. 70 , Industrial Area, Phase-1 , Chandigarh-160002 Contact No : 9685564705,7073595142 Email id: info@technozon.in
 2. Compac Technologies India Ltd. Plot No. 409, Industrial Area, Phase-9, Mohali 160062 Contact no. 7073595142 , E mail : info@compactech.co.in
 3. Star Industrial Solutions , 79, Rajouri Garden, Barewal-Ferozpur Road, Ludhiana, 141012 Contact no: 8770664498 , Mail ID : Starindustrialsolutions1@gmail.com
 4. Nvis Technologies Pvt. Ltd. 1st Floor, 70 -Madrapura, Hari marg, Civil Lines, Jaipur, Rajasthan - 302006 , Contact no : 9685564705 , Mail ID : sagarbaroun@gmail.com

FORMAT OF QUOTATION

Annexure-1

(To be submitted on the Letter head of the Bidder)

S.N.	Name of the Goods/ Services/Works with Specifications (including installation requirements, if any)	Quantity	Quoted Unit Rate (Rs.) (In Fig. and Words)	Total cost inclusive of all Taxes (Rs.)
(1)	(2)	(3)	(4)	(5)
1.	Polycrystalline Solar panel (40 W), Maximum Power: 40W , Tolerance : ± 3% , Open Circuit Voltage : at least 20 V , Short Circuit Current : 2.5A or less Maximum Power Voltage : 18.2V or better , Maximum Power Current : 2.2A or better, Module Efficiency : atleast 12.00% , Solar Cell Efficiency : atleast 16.0% , Series Fuse Rating : atleast 15A	1		
2	LED light Wattage : 10W	1		
3	Smart pole made of MS and powder coated. Atleast 1 inch diameter and 1 mt height suitably tilted for light mounting	1		
4	Rheostat 100 Ohm, 3A	2		
5	3.5 v to 5 V USB powered PIR and TTL PIR sensor Modules with fixtures, enclosures and cables with effective distance of 2cm to 30 cm	6		
6	High precision calibrated Air quality sensor (Air quality PM1, PM2.5 and PM10) sensor modules PM2.5: 0~1000ug/m3 , PM10: 0~1000ug/m3 Resolution: 1ug/m3 , Accuracy: ±3%FS (@100µg/m3,25°C,50%RH), Responding speed: ≤90S	4		
7	Temperature and humidity sensor (High precision calibrated Temperature sensor) : 0 – 100° C . Humidity sensor : 0 – 100 % RH, Operating Voltage: 3.5V to 5.5V Operating current: 0.3mA (measuring) 60uA (standby) Output: Serial data , Resolution: Temperature and Humidity both are 16-bit, Accuracy: ±1°C and ±1%	8		
8	Ambient light sensor (High precision calibrated Ambient light sensor) : Analog output It should have in-built I2C communication interface (SDA and SCL pins) to interface with microcontroller. In-built illuminance (analog input) to digital converter.High and wide range resolution (1 to 65535 lx) operating voltage of 2.4V to 3.6V and should consumes less current of 0.21mA. Wide range of detection at high resolution (1 to 65536 lx).It should have capability of connecting atleast 2 devices to the I2C interface in the sensor.	8		
9	Night vision camera (Night vision camera should be of good resolution for the surveillance) with fixture and mounting, Dome or Bullet type of at least 2.4 Mega Pixel	1		
10	Battery (Voltage: 12V), 1125 SMF , 26 AH of standard Make and Model	2		
11	Charge controller Voltage 16-26V, Current: 0.7A Solar Charge Controller Hybrid SMU 50A,	2		

[Handwritten Signature]

[Handwritten Initials]

	Supporting - 12V Panel with 12V Inverter Battery, 24V Panel with 24 Volt Inverter Battery (50 AMP)			
12	Banana patch cord Should be of 4mm Type :BS10	25		
13	Smart sensor gateway (Battery operated smart sensor gateway) for sensor connectivity with RF and ZigBee modules. Protocol:MQTT / HTTP , Channel: Worldwide use GSM Gateway Parameters, Speed :10 to 100 Mbps , Connection:Ethernet RJ45 / WiFi / BLE , Ethernet : 100Mbps FE RJ45 , 4G/ 5G Support : Atleast Any one , General Parameters : 4G Antenna 04 dBi gain / Linear polarization /Omnidirectional / SMAJ connector	4		
14	Wireless keyboard & mouse	1		
15	RAM IGB LPDD2 MODULE	6		
16	Processor 64 bit Cortex A53 ARM v8 Quad Core with Ethernet	1		
17	Microcontroller ATmega 2560	4		
18	Wi-Fi and Bluetooth modules ESP 32	4		
			TOTAL	

13 DECLARATION

- (a) I/We declare that I am/ we are Manufacturers/ Whole sellers/ Sole distributor/ Authorized dealer/ bonfire dealers in the Goods and Related Services or Services/Works for which I/We have Bid.
- (b) I/We agree to supply the above goods/Services in accordance with the technical specifications within the period specified in the Bidding Documents. I/We further agree that our rates, if approved, shall remain valid for further 2 or 3 months from the Last Date of Submission of Quotations.
- (c) We also confirm that the normal commercial **Warranty/Guarantee of At least 12 months** shall apply to the offered goods.
- (d) I/We have not been debarred by the State Government or the Procuring Entity.
- (f) If this declaration is found to be incorrect or I/We fail to supply the goods/services, then without prejudice to any other action that may be taken, the Supply Order/Bid, if any to the extent accepted, may be cancelled and I/We may be debarred from participating in future bids as per rules.

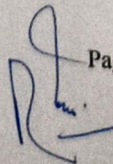
Signature of Bidder

Name & Address of Bidder: _____

Contact No. _____

PAN No. _____

GST No. _____


 Page 5 of 5

MLL