

## PURCHASE ORDER

Reference No:

TEQIP-III/2018/geca/Shopping/9  
GECA (TEQIP III) 2018/367  
17-Jul-2018

Date of Issue:

17-Jul-2018

Subject:

GECA/TEQIP-III /2017-18/ECE-Industrial Electronics lab

Purchaser:

Government Engineering College, Ajmer  
N.H.8 , BARLIYA CIRCLE, NEAR NARELI TEMPLE,  
AJMER

Supplier Name:

M/s Technozon Solutions  
Level 4, Tower - A, Godrej Eternia, Plot No. 70,  
Industrial Area - 1, Chandigarh - 160002,  
Chandigarh, Punjab, 160002

With reference to our correspondence, **Government Engineering College, Ajmer** is pleased to award this detailed Purchase Order to **Technozon Solutions** for supply of items as per the details given below at a total cost of **474714.00** (Four Lakh Seventy Four Thousand Seven Hundred and Fourteen only):

Sr. No	Item Name	Quantity	Unit Cost (Rs.)	Total Cost (Rs.)	Delivery Period
1	Buck-Boost regulators	3	7900	23700	45
2	Motor control- open loop and closed loop	3	9200	27600	45
3	SCR TRIGGERING CIRCUIT	3	4700	14100	45
4	Single Phase bridge converter	3	55000	165000	45
5	Single Phase Cycloconverter	3	6000	18000	45
6	Single phase dual converter- speed control of DC motor using Single phase dual converter- speed control of DC motor using single phase dual converter	3	15500	46500	45
7	Single phase PWM inverter	3	17300	51900	45
8	Speed control of DC motor using chopper	3	7700	23100	45
9	Understanding characteristics of DIAC, TRIAC, SCR	3	10800	32400	45

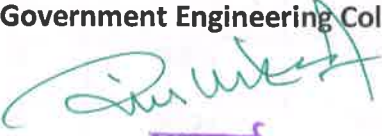
Total price (without taxes) : Rs. 402300.00  
Total applicable taxes : 18 %  
Total price (with taxes) : Rs. 474714.00  
Total Octroi : Rs.

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Delivery : Government Engineering College, Ajmer  
Testing/Installation Clause (if any) : On site installation required price must be included in quotation  
Training Clause (if any) :  
Technical Specifications : As per Annexure - 1  
Delivery Period : As specified for each item from date of issue of confirmed purchase order or as early as possible.  
Warranty : 12  
Payment Terms :  
Delivery and Installation - 90% of total cost  
Satisfactory Acceptance - 10% of total cost

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For  
Government Engineering College, Ajmer

  
(Authorized Signatory)  
राजकीय अभियांत्रिकी महाविद्यालय  
Name & Designation

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Accepted by

Signature

Date

Address

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## Annexure I

Sr. No	Item Name	Specifications
1	Buck-Boost regulators	INPUT VOLTAGE : 180-270 Volt AC, OUTPUTVOLTAGE : 200-240 Volt AC, FREQUENCY : 50 Hz, OUTPUT CURRENT : 1.1 Amp., CAPACITY : 250 Watt.
2	Motor control- open loop and closed loop	MOTOR DESCRIPTION : 1/25 HP AC/DC MOTOR COUPLED WITH 12V DC GENERATOR. NEATLY ENCLOSED IN A POWDER COATED METAL BOX,ISOLATED 230 V/50 Hz,40 W AC POWER SUPPLY, +/- 12 V/500 mA DC POWER SUPPLY,
3	SCR TRIGGERING CIRCUIT	Onboard AC source : 18 V - 0 V - 18 V, Power Supply (Mains) : 110V - 260V AC, 50/60Hz, Operating Conditions : 0-40°C.
4	Single Phase bridge converter	230V A.C. Isolated Transformer, Power 50 watt, 9V D.C. at 100mA Zener Regulated Power Supply, Two UJT, Four SCR's, Two Pulse transformer 1:1:1, Two Potentiometers for controlling UJT firing angle, Bulb 40W, 230V A.C., The unit is operative on 230V ±10% at 50Hz A.C. Mains.
5	Single Phase Cycloconverter	Firing angle variation; 0-180, SCR assembly: 4SCRs 2P4M, 400V/2A, Main supply;220V/110V,50Hz/60Hz, Load :279E 5W.
6	Single phase dual converter-speed control of DC motor using Single phase dual converter-speed control of DC motor using single phase dual converter	Built in power supply+/-12V/500mA, Built in AC power supply 0-18V/2A, SCR TYN612-8 Nos , Diodes- 30 Nos, Transistors,CL100-8 Nos,BD115-3 Nos,2N222-4 Nos,ICs TL084-2 Nos,741-1 No,755-4 Nos ,4011-2 Nos ,Resistors- 54 Nos,Potentiometers-1 No,Tapped chock,20-0-20 mH-2 Nos,Set of Patch Chords & Manual.
7	Single phase PWM inverter	IGBT PWM Controller & 3 Phase IGBT Power Circuit, RL Load & DC Power supply, Digital IC (Dspic4011) based Single phase & 3 Phase PWM generation, 6 Numbers of PWM Outputs with Frequency & Modulation index variation.
8	Speed control of DC motor using chopper	Input-230V, 50Hz AC 1f,Output-Variable DC ( 0 – 12V ) Chopped output,Circuitry-Square wave generator, Square to triangle wave generator, Comparator, isolation & driver circuit,Power Circuit- Using power transistor,Loads-1) 12V / 1.5 A DC Motor (L-load), 2) 12V / 2A Lamp load ( R load ).
9	Understanding characteristics of DIAC, TRIAC, SCR	"Mains power supply : 90 - 270V ±10%, 50Hz, Fixed DC power supply : +15V, Regulated +35V, Regulated -35V, Voltmeter Range : 0V to 99V Ammeter Range : 0mA to 20mA. "

