



Government College of Engineering

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In Pursuit of Global Competitiveness

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GCECS/Dean SA/2025/425

Date- 18/10/2025

17 2 NOV 2025

1. Institute Website
2. Notice Board
3. Institute Copy

Sub: Quotation for various items for Robocon

Respected Sir,

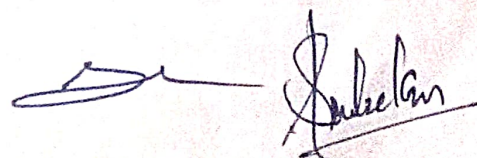
Sir, you are requested to send your quotations on following conditions – in sealed envelope for the supply of item listed herewith. Mention letter no. & date of opening on the quotations on the envelope. Submit the same on or before Date - 20/10/2025 upto 3.00 PM

Thanking you

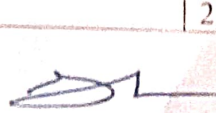
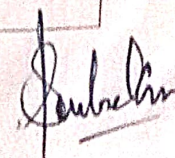
20/11/2025
DS.

ELECTRONICS TENDER COMPONENT LIST (01 to 8 pages)

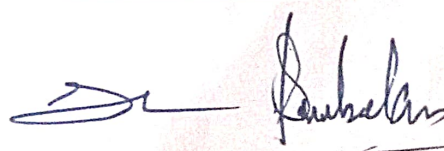
Sr.No.	Components	Quantity
1	NVIDIA Jetson Orin Nano Super Developer Kit: Jetson Orin Nano 8GB Module & Carrier Board, USB, MIPI CSI, HDMI, Ethernet, Bluetooth, Linux, Single-Board Computer	1
2	Intel RealSense Depth Camera D455	1
3	STMICROELECTRONICS NUCLEO-F030R8 Development Board	2
4	Raspberry Pi 5 Active Cooler RPi 5 Cooling Kit with Blower Fan & Heatsink Temperature Controlled Cooling Fan for Raspberry Pi 5 For Aluminium Heatsink Cooling Fan Compatible with Raspberry Pi 5 4GB, and 8GB - Silver - RS5760	1
5	DF Robot Fermion: BNO055 Intelligent 9-axis Sensor (Breakout)	5
6	ESP-WROOM-32 WIFI Bluetooth Networking Smart Component Development Board	15
7	XL4015 5A DC-DC Step Down Adjustable Power Supply Buck Module LED with Heatsink	12
8	SanDisk Ultra 128GB microSDXC UHS-I, 140MB/s R, Memory Card, 10 Y Warranty, for Smartphones	2
9	Original HobbyWing QuicRun 1060 60A Brushed Electronic Speed Controller	2
10	Hobbywing Skywalker 100A V2-Ubec	4
11	ZOYI ZT-102A Digital Multimeter - True RMS, Auto-Ranging, 6000 Count, AC/DC Voltage, Current, Temperature Measurement	1
12	I2C Bi-Directional logic Level Converter- 4 Channel	12
13	1-8S Lipo Battery Voltage Tester	6



14	20Amp 6V-30V DC Motor Driver (2 Channels) MDD20A	2
15	NFIL3D Premium High Strength PLA+ Snow White 3D Printer Filament Dimensional Accuracy +/- 0.015mm 1.75mm Easy to Print, No Clogging, Smooth Finish, Tangle-Free Compatible with All 3D Printers	10
16	Pro- Range 22.2V 4200mAh 35C 6S Lithium Polymer Battery	2
17	Pro- Range 11.1V 2200mAh 30C 3S Lithium Polymer Battery Pack	3
18	Cable For Arduino Nano USB A to MINI B (Nickel Plated Connector)-1.2 M	2
19	USB A To B Cable - Cable for Arduino	2
20	USB to Micro USB Cable wire 1M for NodeMCU	6
21	Themisto - Built With Passion Glue Gun ,Multi Tempreture Hot Melt Glue Gun/ 150W Multi Temperature High Power Hot Melt Glue Gun - Corded Electric	1
22	Noel ABS Desoldering Pump	3
23	Crimping Tool Kit with 1200PCS Wire End Ferrules & Crimper Plier, Wire Crimping Tool Kit Self-adjustable Ratchet Tool Set for AWG 23-7 Electrical Wire Connectors, 0.25-10mm ²	1
24	PCB Drill machine	2
25	Harden Professional 8" Multi-Function Automatic Wire Stripper Plier- Cr-Mo Steel Cutting Blade with Stripping Length Adjustment Module, Zinc-Alloy Body - Stripping Crimping and Cutting Tool 660613 Wire Cutter	1
26	DFRobot Fermion: TB6612FNG 2x1.2A DC Motor Driver (Breakout)	5
27	85MM Large Robot Smart Car Wheel, 38MM Width Surface Red/Pink	8
28	N20 12V 200RPM Micro Metal Gear Motor With Encoder	
29	Self Lock Switch-KFC-7.0B	25
30	Pro-Range 600 PPR 2-Phase Incremental Optical Rotary Encoder	4
31	60mm Double Aluminium Omni Wheel	2
32	Solder DeSoldering Wire (de-soldering wick)	6
33	Kethron® Original High Performance Liquid Flux For Soldering	1
34	JGB37-520 DC12V 320RPM/MIN Miniature Forward and Reverse Brushed DC Speed Reducer Motor	6
35	5mm Pom 625zz-625rs-mr 105zz Bearing V Wheel For 3d Printer - Black, 5mm Size, Precision-engineered For Reliable 3d Printing Performance	20

36	2 Channel Relay Module 30A with Optocoupler Isolation 5V Supports High and Low Trigger	6
37	24V 4-Channel Relay Module (with Light Coupling)	6
38	Mytron Maker Mini Sumo Controller: Simplifying Sumo Robot for Beginner	2
39	Ball caster wheel Small -3 pics	2
40	Lepose 2" Heavy Duty Caster Wheels Screw Type / 2 with Brakes & 2 Without/Soft Rubber Swivel Caster with 360 Degree Set Of 4	2
41	Pro-Range 12V 300 RPM Johnson Geared DC Motor – Grade A Quality-Encoder Compatible	4
42	SM30 & PM30-Male &female QUICK COUPLER PVC MATERIAL	8
43	Espressif ESP32-S3-DevKitM-1U-N8 Development Board	2
44	GoldenMorning 1.3 Inch I2C OLED Display Module 4pin-WHITE	4
45	TCRT5000 Reflective Optical Sensor	15
46	Wynhard Soldering Iron Kit Set 60W 220V Automatic Soldering Iron Kit Adjustable Temperature Control with 5 Bits Desoldering Pump Tweezers Tin Wire Tube Stand 6 Aid Tools in Carry Bag Soldering Machine	1
PCB MATERIAL		
47	Copper Clad 30 cm x 30 cm Single Sided	8
48	8 x 12 cm Universal PCB Prototype Board Single-Sided 2.54mm Hole Pitch	6
49	Polycab OPTIMA+ 2.5sqmm 90M coil red color	1
50	Polycab OPTIMA+ 2.5sqmm 90M coil black color	1
51	Polycab OPTIMA+ 1.5sqmm 90M coil black color	1
52	Kethron® Original High Performance Liquid Flux For Soldering	6
53	SS-12F17G5-Slide 1P2T Straight Switch(Height:5mm)	25
54	1 Channel Relay Module, 30A with Optocoupler, Isolation 5V Supports, High and Low Trigger	4
55	Fuse Holder-BF-020	15
MOTORS		
56	S38 P223 Brushless Planetary Geared Motor 500/1000 RPM 135 Kg-cm	2
57	S58 P210 Brushless Planetary Geared Motor 720/1440 RPM 240 Kg-cm Torque	2
58	QX-MOTOR brushless motor QC3027 2800kv 3600kv 3800kv for boat Optional 90A 120A esc	2



59	Pro-Range DS3225 25kgcm Metal Gear Digital Servo Motor – 180 degree	4
60	Ultra Torque Quarter Scale 60kgcm Metal Gear Servo Motor	4
61	3 pin XH JST wire connector 2.5mm pitch male and female pair 2515 pack of 20 pair	50 03 ^{DB}
62	4 Pin JST XH 2.54mm Pitch Plug and Socket with Cable	50
63	5 Pin JST XH 2.54mm Pitch Plug and Socket with Cable	60
64	6 Pin JST XH 2.54mm Pitch Plug and Socket with Cable	30
STATIONARY		
65	Glue stick	10
66	amazon basics Multi Purpose Duct Tape Super-strong and Waterproof Easy to Tear All Purpose Adhesive Tape (48 mm X 50 meters)	3
67	Paper masking tape 0.5 inch	12
68	WONDER Double Side Foam Tape 2 inch Width,48mmX5 Mtr Set of 2	10
69	Generic Teflon Tape White Thread Seal Tape 12 Mm*10 M*0.075 Mm	10
70	Steelgrip Electrical Insulation Tape Length 20 m x 1.8 cm (0.7 Inch) Width, Red (Pack of 20)	1
71	Pidilite Fevikwik 203 Cyanoacrylate Adhesive (20 ml)	6
72	Freedy Adhesive Carton Packing High Strength Tape (Brown, 2inch/48mm x 65m) - Pack of 6-D	1
73	Zenkova Electrical Line Tester/Phase Tester Plus Screw Driver/Electrician's Tester And Screw Driver With Bulb	2

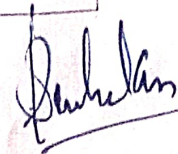
MECHANICAL COMPONENT LIST 2025		
SR.NO.	COMPONENT	QUANTITY

Sanjiv

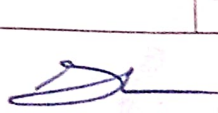
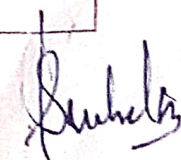
	PNEUMATIC SECTION	
1	Techno 12.7 mm (1/2 Inch) Legris Type Regulator with Gauge UR-04	4
2	Ds255Hd61 Janatics Manual And Mechanical Valve	2
3	clevis clip	12
4	Set of mounting brackets LB for pneumatic cylinders MAL 20-25mm	3
5	PNEUMATIC PIPES 6MM OD	24m
6	PNEUMATIC T CONNECTOR	24
7	PNEUMATIC Y CONNECTOR	24
8	PNEUMATIC CROSS CONNECTOR	12
9	STRAIGHT CONNECTOR	12
10	PNEUMATIC ELBOW CONNECTOR	24
11	PNEUMATIC ELBOW MALE CONNECTOR	24
12	PC MALE CONNECTOR	24
13	SL ELBOW FLOW CONNECTOR	24
14	G 1/ 4 pressure gauge	4
15	1/4 female connector	12
16	Pneumatic shutoff valve female to female	12
	BOX SECTIONS AND SHEETS	
17	1000 mm 20X20 4 T Slot Aluminium Extrusion Profile (Silver)	15m
18	Easymech 20X40 6T Slot Aluminium Extrusion Profile - 300 mm (Silver)	9m
19	40-4040 40mm X 40mm T-Slotted Profile - Four Open T-Slots	6m
20	20 by 20 hollow aluminium box section	15 m
21	Metal Mate 40 x 20 x 2mm x 3m Aluminium Rectangle Tube - Bunnings Australia	12m
22	mild steel sheet (1.5 mm)	(4*8)ft
23	Aluminium sheet (3mm)	(4*8)ft
24	mild steel sheet 2mm	(4*8)ft
	WHEELS AND PULLEYS	




25	83MM Large Robot Smart Car Wheel, 35MM Width Surface- Blue	4
26	EasyMech 127mm Double Aluminium Omni Wheel (BEARING TYPE ROLLER)	8
27	80mm-A Mecanum Wheel Compatible with 6.7mm Coupling (Pack of 4)-Black	4
28	Easymech A Set Of 127mm Aluminum Mecanum Wheels 2 Left And 2 Right - Bush Type Roller	4
29	4-Point Sprocket 08B 15 Teeth 12mm Hole Industrial Gear 45 Steel	6
30	c 45 carbon steel chain sprocket 21 teeth 8 mm hole	6
	TOOL SECTION	
31	Taparia TCTS 430 Wood Cutting Blade	6
32	AASONS Angle Grinder Wrench, Durable Universal Pin Spanner Wrenches Rotating Nut Adjustable Steel for Bench Grinders for Circular Saws Lock-Nut Wrench	2
33	AKARI Step Drill Bit 4-20 mm Size Range Golden, SD-1	2
34	HCG Health Cure Generation 180° Stainless Steel Goniometer for Joint Measurement Rust-Resistant ROM Tool & Angle Ruler for Physical Therapy, Orthopedic, Medical & Clinical Use – Accurate & Durable	1
35	Themisto TH-M61 Digital Vernier Calliper (0-150MM/6")	1
36	Taparia Circlip Plier PVC Dip Coated Sleeve, Length 230 mm, 1441-9S	2
37	5 Meter Steel Blade With Auto-lock Function Hmt5b Measurement Tape	4
38	step drill titanium bit (4-32)	2
39	Taparia SFH 30 Soft Faced Hammer with Handle	1
40	Kshivi DB104 High Speed Steel Drill Bit Set 13 Pcs Drilling Bits For Wood, Malleable Iron, Aluminium Plastic Etc Pack of 1 Rotary Bit Set (13 Bits)	4
41	Taparia 903 IBT Steel 2-In-1 Stubby Screwdriver (Green)	6
42	Taparia 1420-8 215mm Econ Long Nose Plier	3

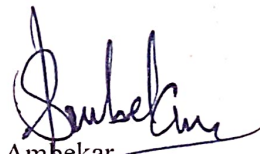



43	wood spade drill bits (10 - 25)	1
44	Adjustable Circle Hole Saw Drill Bit Cutter	2
45	drill machine chuck	4
	COUPLINGS ND JOINTS	
46	SMM Rigid Metal Flange Coupler	12
47	EasyMech Advanced Johnson/Mini Johnson Gear Motor L Clamp (Bracket)	12
48	5mm Hex coupling for Robot Smart Car Wheel 30mm Length	12
49	Aluminium Corner L Brackets For Industrial T Slot Aluminum Profiles, For Assembly Purpose	90
50	Aluminum GT2 Timing Pulley 20 Tooth 5mm Bore For 6mm Belt – 2Pcs	6
51	Two Trees Aluminum GT2 Timing Pulley 20 Tooth 8mm Bore for 6mm Belt – 2Pcs	6
52	Uxcell 12mm Inner Dia H13d18 Rigid Flange Coupling Motor Guide Shaft Coupler Motor	8
53	8mm To 12mm Brass Motor Shaft Coupler Drive Connector Adapter Transmission Sleeve For RC Boat	8
54	(10 Pc) Flyrobo 8mm X 8mm Aluminum Flexible Shaft Coupling	8
55	Sutemribor 8mm Model Straight Metal Round Shaft Rod Bars For DIY RC Car, RC Helicopter Airplane (5 PCS)	3m
56	120 degree AL angle bracket	24
57	135 degree al angle bracket	24
58	3D Printer Accessories Gantry Plate European Standard 2020 Aluminum Profile Pulley V-Slot Construction Slide Pulley	10
59	KFLO8 8mm Bore Horizontal Bearing Bracket ImportDukan.com	24
60	KPOS	24

	Machines	
61	Bosch Professional GCM 254 Corded Electric Mitre Saw, 1750 W, 5000 RPM, 11.1 Kg Accurate Cutting with Direct Laser Guide	1
62	IBELL 12V Cordless Drill Driver CD12-74 17+1 Mode setting 1450 RPM 10mm Chuck LED Light 2-Speed Mode 1500mAh 32 Accessories Perfect for Home & DIY, Red/Black BMC Box.	1
	Stationary	
63	DMC Nylon Industrial & Home Safety Cut Resistant Hand Gloves (White & Grey) - 10 Pairs	12
64	3M 11850 Safety Goggles Hard Coat Eye Protector Anti Pollution Glasses For Multipurpose Eyewear Use In Riding Motorcycle, Construction, Clear Transparent Goggles (Pack of 1)	6


Dr. Sanjay Chikalthankar
(Faculty Advisor)


Dr. S D Ambekar
(Faculty Advisor)


①

②
Committee members.


प्राचार्य
राजकीय अभियांत्रिकी महाविद्यालय
औरंगाबाद
11/11/2025