

# GOVT. COLLEGE OF ENGINEERING AND RESEARCH, AWASARI

Awasari(Khurd) Tal: Ambegaon, Dist.Pune-412 405

Tel. No.02133-230582, E-Mail – gcoeara@gmail.com, Website : www.gcoeara.ac.in

No. GCOEARA/Store/2017-18/ 178

Date:

15 JAN 2018

To,  
HOD- Computer Engineering for display on College Website

Subject : Quotation for components for Robots.

Please send your quotation for the following items on the terms and conditions listed below, mentioning our reference letter number, date and due date of quotation on your sealed envelop, on or before **25.01.2018** at 3.00 pm.

Sr.No.	Specification	Qty.	Unit
1	Sabertooth dual 12 A motor driver	2	No.
2	Easymech 152mm double aluminium omni wheel (bearing type roller)	4	No.
3	A set of easymech 127mm aluminium mecanum wheels (bearing type rollers- 4 pieces)	1	No.
4	Tauren planetary gear, DC motor - 365 RPM	4	No.
5	Planetary DC geared motor IG42E-14k	3	No.
6	Advanced auto- calibrating line sensor LSA08	2	No.
7	GY 87 10 DOF	2	No.
8	Flysky FS-i6x2.4GHz 10 CH	1	No.
9	APM 2.8 flight controller	1	No.
10	EMAX MT 2216 810KV BLDC	2	No.
11	EMAX MT 2216 810KV BLDC	2	No.
12	Orange 8000mAh 3S 30C/60C lithium polymer battery pack (LiPo)	2	No.
13	Emax Simon K series multirotor, 30 A brushless ESC (original)	4	No.
14	Planetary DC geared motor 24 RPM 120 N, CM 12V, IG32E-264 K	2	No.
15	Latest raspberry Pi 3 -Model B original quad core 1.2 GHz 64 Bit soC and on board WiFi and Bluetooth	1	No.
<b>Detail scope of supply is as per enclosed sheet</b>			

### Terms & Conditions

- 1 Taxes – Inclusive / if extra clearly mention the percentage.
  - 2 Delivery period –
  - 3 Payment Terms –
  - 4 Quotation Validity –
  - 5 Warranty -
  - 6 Guaranty-
- } Mention clearly
- 7 Delivery Charges.– Free / if extra mention clearly.
  - 8 The part supply and its bill will strictly not be entertained.
  - 9 If you fail to supply the stores within the specified period, the order will be treated at cancelled without any information.
  - 10 The material will be accepted subject at approval(after inspection of the material),If rejected it will be returned to you at your cost.
  - 11 The material to be supplied should be strictly according to the specification only.
  - 12 Octroi is not applicable since Institute is located in Gram Panchayat area.
  - 13 Please attach copy of your shop registration certificate and **GST Registration Number** alongwith your quotation, without which your quotation will not be accepted.



( Dr. A.S. Pant )

Principal

Govt.College of Engineering & Research Awasari  
Awasari(khurd)

# TENDER FOR ROBOTICS RESEARCH LAB

SR NO.	COMPONENT	SPECIFICATION
1.	SABERTOOTH DUAL 12A MOTOR DRIVER	12A continuous, 25A peak per channel Up to 24V in Synchronous regenerative drive Ultra-sonic switching frequency Thermal and overcurrent protection Lithium protection mode Input modes: Analog, R/C, simplified serial, packetized serial
2.	EASYMECH 152MM DOUBLE ALUMINIUM OMNI WHEEL (BEARING TYPE ROLLER)	Diameter : 152 mm. Total Width : 39 mm. Number of roller : 28. Body material : Aluminium. Roller material : Rubber. Roller bearing : Ball Bearing Roller. Number of plates : 6. Roller diameter : 19 mm. Roller Width : 18 mm. Net weight : ~800 gm. Load capacity : 35 kg.
3.	A SET OF EASYMECH 127MM ALUMINIUM MECANUM WHEELS (BEARING TYPE ROLLERS) - (4 PIECES)	Width : 50 mm. Diameter : 127 mm. Number of Rollers : 12. Number of Plates : 2 Body material : Aluminium alloy Roller material : Nitrile rubber. Net weight : 2 kg. Roller Type : Bearing Type Roller. Loading Capacity : 20kg/wheel.
4.	TAUREN PLANETARY GEAR DC MOTOR - 365 RPM	Dimension: Body Length- 98 (max); Body Diameter - 50mm; Shaft Diameter - 10mm; Shaft Length - 27mm. • Rated Torque (kgcm) - 5 • Stall Torque (kgcm) - 25 • Voltage - 12v • Current - 600 mA to 14 A (max)
5.	Planetary DC Geared Motor IG42E-14K	Voltage-DC 12V Torque-38N.cm Speed-405 RPM Current-5.5 Amp Power output-41.3W Weight-580g Encoder output-70 pulses per rotation, single channel output
6.	ADVANCED AUTO-CALIBRATING LINE SENSOR LSA08	8 sensor pairs spaced 16mm. 12V input power LCD display unit showing 8 sensors analog value with bar chart and line position.

*R. M. Wankar*  
Dr. R. M. Wankar

# TENDER FOR ROBOTICS RESEARCH LAB

		Junction Pulse (JPULSE) for detecting junction Low current consumption (typically 26mA) Refresh rate up to 200Hz.	
7.	GY 87 10DOF MPU6050+HMC5883L+BMP180 3-axis Gyro + 3-axis Acceleration + 3-axis Magnetic Field + Air Pres	Model : GY 87 Power supply : 3-5V Weight : 5 gm. Dimensions : 22 x 17 mm 3-axis Gyro+ Acceleration+ Magnetic Field Air Pressure Module	R
8.	Flysky FS-i6X 2.4GHz 10CH AFHDS 2A RC Transmitter With FS-iA10B 2.4GHz 10CH Receiver	RF Range : 2.408-2.475 GHz. RF Power : < 20 dBm. RF Channel : 135. Bandwidth : 500 KHz. Weight : 392 gm. Power : 6V DC 1.5A.	R
9.	APM 2.8 Flight Controller W/ Shock Absorber + UBLOX NEO-M8N GPS + GPS Folding Antenna Base Set + APM Power Module Combo kit	Needle: straight. Power supply: LP2985-3.3. Max voltage: 16V. Add a 47uF tantalum capacitor. Port: MUX (UART0, UART2, mnnl2, and OSD are optional, OSD is the defaulted output).	R
10.	EMAX MT2216 810KV BLDC Motor CCW With Prop1045 Combo (Original)	Max Thrust: 950g Length: 33.2MM Shaft: 3MM Propeller: 8"-10" Diameter: 27.9MM Weight: 80g	R (
11.	EMAX MT2216 810KV BLDC Motor CW With Prop1045 Combo (Original)	Max Thrust: 950g Length: 33.2MM Shaft: 3MM Propeller: 8"-10" Diameter: 27.9MM Weight: 80g	R (
12.	Orange 8000mAh 3S 30C/60C Lithium polymer battery Pack (LiPo)	Weight : 615.0g Voltage : 11.1V Max Continuous Discharge: 30C	R (
13.	Emax Simon K Series Multirotor 30A Brushless ESC (Original)	Constant Current : 30A Burst Current : 40A for 10 sec. Battery required : 2-3 S (Orange battery) BEC Voltage : 5V / 2A Size : 52 x 26 x 7 mm. Weight : 28 gm	R (
14.	PLANETARY DC GEARED MOTOR 24 RPM 120N.CM 12V IG32E-264K	Voltage: 12VDC Rated Torque: ~12.24 kg cm Rated Speed: 24 RPM Rated Current: 900mA Rated Power: 7W Weight: 293g Shaft: 6.0 mm diameter x 16.3 mm length Encoder Output: 1848 pulses per	R

*Aut* →

# TENDER FOR ROBOTICS RESEARCH LAB

		rotation, single channel output Brushed motor type
15.	Latest Raspberry Pi 3 - Model B Original quad core 1.2GHz 64Bit SoC and on board WiFi and Bluetooth	RAM : 1GB Processor : ARM Cortex-A53 Quad Core Processor(64 bit) Storage : SD/MMC/SDIO Power : 5V / 700mA via microUSB
TOTAL		

*[Handwritten signature]*