

AIC - PONDICHERRY ENGINEERING COLLEGE FOUNDATION

Proc/AIC-PECF/ 2022/053

Dated: 31-05-2022

Call for Limited Tender

Call for Limited Tender for the supply of **Drone Parts for Agriculture UAV Unit** at AIC-PECF.

- i. Quotations are invited from reputed registered firms / companies / suppliers for the supply of **Drone Parts for Agriculture UAV Unit** at AIC-PECF by Atal Incubation Centre-Pondicherry Engineering College Foundation (AIC-PECF).
- ii. The quotation must be sent in a sealed cover superscribed as “**Quotation/Proc/AIC-PECF/2022/053**” and must meet the conditions mentioned under the title “Terms and Conditions”.
- iii. Bidders should submit the Proforma as given in Annexure-1 and the Quotation as per the format given in Annexure-2.
- iv. The Technical specifications of the items are furnished in Annexure – 3
- v. All the Bid Documents should be addressed to
The Chief Executive Officer,
AIC-Pondicherry Engineering College Foundation
Puducherry Technological University Campus
Pillaichavady, Puducherry-605014.
- vi. All the Bid Documents shall be signed and sealed by the competent authority of the supplier in the official letter head.
- vii. All the Bid Documents shall be sent along with the data sheets of the equipment with make and specifications.
- viii. The Bid Documents should reach on or before **10-06-2022 by 05.00 P.M.**

Chief Operating Officer
AIC-PECF

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Terms and Conditions

- 1) Minimum 1 year of warranty cover for eligible items and Service Support for 3 Years.
- 2) The rate quoted should be preferably inclusive of all taxes / duties. otherwise the amount of taxes / duties should be mentioned separately, duly specifying the nature of tax / duty with the rate there of.
- 3) The supply should be FOR AIC-Pondicherry Engineering College Foundation, Puducherry Technological University, Pillaichavady, Puducherry – 605 014.
- 4) The Supplier will be responsible for the safe delivery of the items at our organization.
- 5) No Insurance Charges will be payable by our Organization.
- 6) All communication should be addressed to the Chief Executive Officer by designation and not by name.
- 7) Payment will be made by PFMS after the receipt of procured items in good condition and the original stamped bills.
- 8) Under no circumstances should the items be sent under freight to pay.
- 9) Goods not received in good condition and not according to specifications will be rejected outright.
- 10)Manufacturers/Suppliers name their trade mark and brand etc., should be mentioned in the bill.
- 11)Delivery period should be mentioned.
- 12)Quotation received after the due date shall be rejected and will not be considered.

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Annexure – 1

(To be Printed in Supplier Letter Head)

Proforma of Bidder

1	Company Name	
2	Date of Incorporation	
3	Full Address with Pincode	
4	GST	
5	PAN	
6	Email Address	
7	Mobile Number	
8	Website Address	
9	Name of the Authorized Signatory	
10	Experience in Years Supplying similar Items mentioned in Annexure-2	

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Annexure – 2

(The bidders are requested to quote the price in the format given below in Supplier Letter Head)

SI No	Description of Items	Unit Price in INR (A)	Number of Units (B)	Total Price C=AxB	GST INR (D)	Total Price Including Tax (C+D)

Declaration:

We accept all the terms and condions as mentioned in tender notice. The above rates should be inclusive of all i.e. taxes, packing, delivery transportaon, installation etc.

Place : _____ Name : _____

Date : _____ Designation : _____

(_____)

Authorized Signature

with seal

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Annexure – 3 Specifications

	ITEMS	REQUIREMENT (nos)
1	Agri Drone Frame	2

Specifications:

1	Brand Name	EFT
2	Model Name	E610
3	Tank Capacity	10 Litres
4	Wheelbase	1628mm
5	Expand Size	1495*1308*500mm
6	Folded size	945*848*500mm
7	Max take-off weight	25kg
8	Power Supply	Integrated Power supply wiring
9	Colour	White/Blue

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	ITEMS	REQUIREMENT (nos)
2	Agri Drone Autopilot	2

Specifications:

1	Brand	JIYI
2	Model	K++ V2
3	Working Voltage	2 - 12S
4	Working temperature:	0 - 60°C
5	Wind resistance	Level 5
6	Supported rotor Type	Quad/Hexa/Octa
7	Supported Accessories	Radar/RTK/Data link/Flow sensor module/FPV camera/Obstacle avoidance
8	Supported receiver Types	SBUS/PPM
9	Flight Mode	Attitude/GPS/AB point mode

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	ITEMS	REQUIREMENT (nos)
3	Terrain Follow Radar	2

Specifications:

1	Brand	JIYI
2	Ranging Range	1-25m
3	Ranging accuracy	0.1m
4	Ranging Resolution	0.6m
5	Output Frequency	40Hz
6	Power Consumption	3.0W at 25°C
7	Working Voltage	9 - 28V
8	Working Temperature	-20°C to +85°C
9	Protection Level	IP67
10	Output Interface	CAN

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	ITEMS	REQUIREMENT (nos)
4	Electrostatic Centrifugal Spraying System	8

Specifications:

1	Voltage	12S-14S
2	Speed	20000 rpm
3	Signal	PWM (1000-2000)
4	Power	60W
5	Weight	260grams

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	ITEMS	REQUIREMENT (nos)
5	X6 Power System for Agri Drones	12

Specifications:

1	Brand	HOBBYWING
2	Product	X6 Power System Combo
3	MAX Thrust	12Kg / Axis
4	Recommended LiPo Battery	12S Lipo
5	Recommended Takeoff Weight	3-5Kg / Axis
6	Combo Weight	720g
7	Waterproof Rating	IPX7
9	Operating Temperature	-20°C~50°C
MOTOR		
1	Outer Diameter	70 mm
2	KV Rating	180 KV
3	O.D of Carbon Fiber Tube	Φ30mm/Φ28mm
ESC		
1	PWM Input Signal Level	3.3V / 5V
2	Throttle Signal Frequency	50 - 500Hz
3	Operating Pulse Width	1100 - 1940μs
4	Max. Input Current (Cont.)	80 A
5	Max. Peak Current (10s)	100 A
Propeller		
1	Diameter×Pitch	2388

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	ITEMS	REQUIREMENT (nos)
6	Ground Control Station, Transmitter and Receiver Combo	2

Specifications:

1	Brand	SIYI
2	Product	MK15 Agriculture FPV Combo
3	Working Frequency	5.8 GHz
4	Channels	13
Transmitter (Ground Unit)		
1	Monitor	5.5-inch High Definition and High Brightness LCD Touchscreen
2	System	Android 9.0, 2GB RAM, 16Gb ROM
3	Weight	850g
4	Battery	10400 mAh 7.4V 2S Li-ion
5	Battery Life	15 Hours
6	Waterproof Level	IP53
7	Working Temperature	-10°C to 55°C
Receiver (Air Unit)		
1	Signal Output	S.BUS / PWM
2	Power Input	6S -14S
3	Antenna Gain	5 dBi
Camera		
1	Camera Angle	FOv 120°
2	Waterproof Level	IP67

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	ITEMS	REQUIREMENT (nos)
7	CAN Extension Module	2

Specifications:

1	Brand	JIYI
2	Model	JIYI CAN HUB-12
3	Supported Autopilot	K++ V2 & K3A Pro
4	Input Voltage	6S - 14S