

BROAD DETAILS OF PROCUREMENT CASE:
MINI REMOTELY PILOTED AIRCRAFT SYSTEMS(RPAS)

1. Acceptance of Necessity (AoN) for procurement of **Mini RPAS** has been accorded by the Competent Authority as per details given below :-

- (a) **Quantity.** Approximately 80 (Eighty only).
- (b) **Category.** 'Buy (Indian)' in accordance with Chapter II & Chapter-V of DAP 2020.
- (c) **Mode.** Open Tender Enquiry.

2. In order to maximize participation, broad details of procurement case are being published on Indian Army Website (www.indianarmy.nic.in) and Ministry of Defence Website (www.mod.gov.in).

3. **Tentative date of issue of RFP by 15 Oct 2022.** The broad details are being mentioned as an early information for interested vendors to plan and coordinate. The details mentioned are tentative and the final specifications alongwith the other procurement aspects will be listed in the RFP.

4. Interested OEMs/ Vendors are requested to forward detailed information on the product which they can offer by **05 Oct 2022** on the undermentioned address:-

Directorate General of Artillery (Artillery-5)
General Staff Branch
Integrated HQ of MoD (Army)
Room No- 507, 'A' Wing
Sena Bhawan
New Delhi-110105
Email : aproc@nic.in

Broad Details

5. Mini RPAS is a day and night observation system. The system should support conduct of direction of own arty fire. The system will be an effective means of calculating deviation of fall of shot from the target to achieve direction of artillery fire

6. The broad details in respect of '**Mini RPAS**' are as under: -

(a) **Physical Characteristics**

(i) **System Components**

- Each Mini Remotely Piloted Aircraft System for Surveillance and observation of arty fire in High Altitude Areas should consist of not less than following components:-
 - Two AV per system,

- Two MPGCS,
- Two RVT,
- Two day colour video cameras,
- Two Monochromatic night thermal sensor,
- Two training payload,
- One ADR
- COTS generator of 1 KVA.

(ii) **All Up Weight**

- Not more than 15 Kg (+10%) but suitable to withstand high altitude strong wind currents/gusts.

(b) **Operational Characteristics**

(i) **Map**

- Compatible with Defence Series Map and Shape file format.

(ii) **Mission Range**

- Not less than 15 Km.

(iii) **Op Altitude**

- Launch altitude upto 4500m AMSL and gain height of 1500m AGL.

(iv) **Endurance**

- Minimum 90 minutes.
Achieve loiter time of minimum 45 minute at 15 km range at 1500m above take off point.

(v) **Accuracy**

- Better than 50m.

(vii) **Launch & Recovery**

- Unprepared area of not more than 50m x 50m

(x) **Man Portable**

- One AV in operational mode to be carried by max two persons

(xi) **Flight Mode**

- Fully Autonomous Mode,
Semi Autonomous Mode,
Loiter Mode,
Target Seeking Mode,
Camera Guide Mode,
Manual Mode,
Return Home Mode.

(xii) **Data Link**

- S/C Band (2 GHz to 6 GHz) with 128 bit AES encryption.

(xiii) **Shelf Life**

- Not less than 500 landings

(xiv) **Man Portable Ground Control Station**

- Capable of calculating target grid correction