

**बिड दस्तावेज़ / Bid Document**

बिड विवरण/Bid Details	
बिड बंद होने की तारीख/समय /Bid End Date/Time	06-01-2026 18:00:00
बिड खुलने की तारीख/समय /Bid Opening Date/Time	06-01-2026 18:30:00
बिड पेशकश वैधता (बंद होने की तारीख से)/Bid Offer Validity (From End Date)	180 (Days)
मंत्रालय/राज्य का नाम/Ministry/State Name	Ministry Of Home Affairs
विभाग का नाम/Department Name	Central Armed Police Forces
संगठन का नाम/Organisation Name	National Disaster Response Force (ndrf)
कार्यालय का नाम/Office Name	Hq Ndrf New Delhi
कुल मात्रा/Total Quantity	1
वस्तु श्रेणी /Item Category	Eol for UAV/Drone
GeMARPTS में खोजी गई स्ट्रिंग्स / Searched Strings used in GeMARPTS	Eol for UAV/Drone
GeMARPTS में खोजा गया परिणाम / Searched Result generated in GeMARPTS	Small UAV for ISR Purpose (45 Minute Endurance) as per MHA QRs, XLPE Cable for Working Voltages up to and Including 1.1 KV as per IS 7098 (Part 1), Small UAV for ISR Purpose (150 Minute Endurance) as per MHA QRs, Caution / Crime Scene Tape (V2), Small UAV for High Altitude as per MHA QR, Steel Filing Cabinets for General Office Purpose (V2) as per IS 3313, Small UAV for ISR Purpose (80 Minute Endurance) as per MHA QRs, Nano UAV as per MHA QR, Foot Operated Pedal Bin or Bucket for Bio - Medical Waste Collection, Micro UAV as per MHA QR
अधिसूचना के लिए चयनित प्रासंगिक श्रेणियाँ / Relevant Categories selected for notification	<ul style="list-style-type: none"> <li>Small UAV for High Altitude as per MHA QR</li> <li>Surveillance Drone / Unmanned Aerial Vehicle (V2) (Defence Forces - Navy, Army and Air Force)</li> <li>Unmanned Aerial Vehicle / Drones for Agricultural Purposes (V3)</li> </ul>
वर्षों के अनुभव एवं टर्नओवर से एमएसई को छूट प्राप्त है / MSE Relaxation for Years Of Experience and Turnover	Yes   Complete
स्टार्टअप के लिए अनुभव के वर्षों और टर्नओवर से छूट प्रदान की गई है / Startup Relaxation for Years Of Experience and Turnover	Yes   Complete

बिड विवरण/Bid Details	
<b>विक्रेता से मांगे गए दस्तावेज़/Document required from seller</b>	Experience Criteria,Past Performance,Certificate (Requested in ATC),OEM Authorization Certificate,Additional Doc 1 (Requested in ATC) *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
<b>क्या आप निविदाकारों द्वारा अपलोड किए गए दस्तावेज़ों को निविदा में भाग लेने वाले सभी निविदाकारों को दिखाना चाहते हैं? संदर्भ मेनू है/Do you want to show documents uploaded by bidders to all bidders participated in bid?</b>	Yes (Documents submitted as part of a clarification or representation during the tender/bid process will also be displayed to other participated bidders after log in)
<b>बिड लगाने की समय सीमा स्वतः नहीं बढ़ाने के लिए आवश्यक बिड की संख्या। / Minimum number of bids required to disable automatic bid extension</b>	2
<b>दिनों की संख्या, जिनके लिए बिड लगाने की समय-सीमा बढ़ाई जाएगी। / Number of days for which Bid would be auto-extended</b>	7
<b>ऑटो एक्सटेंशन अधिकतम कितनी बार किया जाना है। / Number of Auto Extension count</b>	1
<b>विगत प्रदर्शन /Past Performance</b>	10 %
<b>बिड से रिवर्स नीलामी सक्रिय किया/Bid to RA enabled</b>	No
<b>बिड का प्रकार/Type of Bid</b>	Single Packet Bid
<b>तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय /Time allowed for Technical Clarifications during technical evaluation</b>	5 Days
<b>निरीक्षण आवश्यक (सूचीबद्ध निरीक्षण प्राधिकरण /जेम के साथ पूर्व पंजीकृत एजेंसियों द्वारा)/Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)</b>	No
<b>मूल्यांकन पद्धति/Evaluation Method</b>	Total value wise evaluation
<b>मध्यस्थता खंड/Arbitration Clause</b>	No
<b>सुलह खंड/Mediation Clause</b>	No

#### ईएमडी विवरण/EMD Detail

आवश्यकता/Required	No
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#### ईपीबीजी विवरण /ePBG Detail

आवश्यकता/Required	No
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बोली विभाजन लागू नहीं किया गया/ Bid splitting not applied.

#### एमआईआई खरीद वरीयता/MII Purchase Preference

एमआईआई खरीद वरीयता/MII Purchase Preference	No
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#### एमएसई खरीद वरीयता/MSE Purchase Preference

एमएसई खरीद वरीयता/MSE Purchase Preference	Yes
सूक्ष्म और लघु उद्यम मूल उपकरण निर्माताओं को खरीद में प्राथमिकता, यदि उनका मूल्य $L1+X\%$ तक की सीमा में हो / Purchase Preference to MSE OEMs available upto price within $L1+X\%$	15
सूक्ष्म और लघु उद्यम को खरीद में प्राथमिकता के लिए बिड की मात्रा का अधिकतम प्रतिशत / Maximum Percentage of Bid quantity for MSE purchase preference	25

1. If the bidder is a Micro or Small Enterprise as per latest orders issued by Ministry of MSME, the bidder shall be relaxed from the eligibility criteria of "Experience Criteria" as defined above subject to meeting of quality and technical specifications. The bidder seeking Relaxation from Experience Criteria, shall upload the supporting documents to prove his eligibility for Relaxation.
2. If the bidder is a Micro or Small Enterprise (MSE) as per latest orders issued by Ministry of MSME, the bidder shall be relaxed from the eligibility criteria of "Bidder Turnover" as defined above subject to meeting of quality and technical specifications. If the bidder itself is MSE OEM of the offered products, it would be relaxed from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. The bidder seeking Relaxation from Turnover, shall upload the supporting documents to prove his eligibility for Relaxation.
3. If the bidder is a DPIIT registered Startup, the bidder shall be relaxed from the the eligibility criteria of "Experience Criteria" as defined above subject to their meeting of quality and technical specifications. The bidder seeking Relaxation from Experience Criteria, shall upload the supporting documents to prove his eligibility for Relaxation.
4. If the bidder is a DPIIT registered Startup, the bidder shall be relaxed from the the eligibility criteria of "Bidder Turnover" as defined above subject to their meeting of quality and technical specifications. If the bidder is DPIIT Registered OEM of the offered products, it would be relaxed from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. The bidder seeking Relaxation from Turnover shall upload the supporting documents to prove his eligibility for Relaxation.
5. Purchase preference will be given to MSEs having valid Udyam Registration and whose credentials are validated online through Udyam Registration portal as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail themselves of the Purchase preference, the bidder must be the manufacturer / OEM of the offered product on GeM. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises and hence resellers offering products manufactured by some other OEM are not eligible for any purchase preference. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service and Buyer will decide eligibility for purchase preference based on documentary evidence submitted, while evaluating the bid. If L-1 is not an MSE and MSE Seller (s) has / have quoted price within  $L-1+ 15\%$  (Selected by Buyer) of margin of purchase preference /price band defined in relevant policy, such MSE Seller shall be given opportunity to match L-1 price and contract will be awarded for 25% (selected by Buyer) percentage of total quantity. The buyers are advised to refer the OM No. F.1/4/2021-PPD dated 18.05.2023 [OM No.1\\_4\\_2021\\_PPD dated 18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017. Benefits of MSE will be allowed only if seller is validated on-line in GeM profile as well as validated and approved by Buyer after evaluation of documents

submitted.

6. Past Performance: The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or similar Category Products for 10% of bid quantity, in at least one of the last three Financial years before the bid opening date to any Central / State Govt Organization / PSU. Copies of relevant contracts (proving supply of cumulative order quantity in any one financial year) to be submitted along with bid in support of quantity supplied in the relevant Financial year. In case of bunch bids, the category related to primary product having highest bid value should meet this criterion.

#### Pre Bid Detail(s)

मूल्य भिन्नता खंड दस्तावेज़/Pre-Bid Date and Time	प्री-बिड स्थान/Pre-Bid Venue
24-12-2025 15:00:00	DG HQ NDRF, 6th Floor, NDCC-II Building, Jai Singh Road, New Delhi

#### EoI For UAV/Drone ( 1 the number pi )

#### तकनीकी विशिष्टियाँ /Technical Specifications

क्रेता विशिष्ट दस्तावेज़ /Buyer Specification Document	<a href="#">Download</a>
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#### परेषिती/रिपोर्टिंग अधिकारी तथा मात्रा/Consignees/Reporting Officer and Quantity

क्र.सं./S.N o.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Harvinder Singh	110001, HQ DG, NDRF, 6TH FLOOR, NDCC-II BUILDING, JAI SINGH ROAD, NEW DELHI	1	15

#### क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें/Buyer Added Bid Specific Terms and Conditions

##### 1. Generic

OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity up to 25% of the contracted quantity during the currency of the contract at the contracted rates. The delivery period of quantity shall commence from the last date of original delivery order and in cases where option clause is exercised during the extended delivery period the additional time shall commence from the last date of extended delivery period. The additional delivery time shall be  $(\text{Increased quantity} \div \text{Original quantity}) \times \text{Original delivery period (in days)}$ , subject to minimum of 30 days. If the original delivery period is less than 30 days, the additional time equals the original delivery period. The Purchaser may extend this calculated delivery duration up to the original delivery period while exercising the option clause. Bidders must comply with these terms.

##### 2. Turnover

OEM Turn Over Criteria: The minimum average annual financial turnover of the OEM of the offered product during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant

periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the OEM is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria. In case of bunch bids, the OEM of CATEGORY RELATED TO primary product having highest bid value should meet this criterion.

### 3. **Turnover**

**Bidder Turn Over Criteria:** The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.

### 4. **OEM**

**IMPORTED PRODUCTS:** In case of imported products, OEM or Authorized Seller of OEM should have a registered office in India to provide after sales service support in India. The certificate to this effect should be submitted.

## **अस्वीकरण/Disclaimer**

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. If any clause(s) is / are incorporated by the Buyer regarding following, the bid and resultant contracts shall be treated as null and void and such bids may be cancelled by GeM at any stage of bidding process without any notice:-

1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.
3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.
4. Creating BoQ bid for single item.
5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
7. Floating / creation of work contracts as Custom Bids in Services.
8. Seeking sample with bid or approval of samples during bid evaluation process. (However, in bids for attached categories, trials are allowed as per approved procurement policy of the buyer nodal Ministries)
9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.
10. Seeking experience from specific organization / department / institute only or from foreign / export experience.
11. Creating bid for items from irrelevant categories.
12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
13. Reference of conditions published on any external site or reference to external documents/clauses.
14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.
15. Buyer added ATC Clauses which are in contravention of clauses defined by buyer in system generated bid template as indicated above in the Bid Details section, EMD Detail, ePBG Detail and MII and MSE Purchase Preference sections of the bid, unless otherwise allowed by GeM GTC.
16. In a category based bid, adding additional items, through buyer added additional scope of work/ additional terms and conditions/or any other document. If buyer needs more items along with the main item, the

same must be added through bunching category based items or by bunching custom catalogs or bunching a BoQ with the main category based item, the same must not be done through ATC or Scope of Work.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

**All GeM Sellers/Service Providers shall ensure full compliance with all applicable labour laws, including the provisions, rules, schemes and guidelines under the four Labour Codes i.e. the Code on Wages, 2019; the Industrial Relations Code, 2020; the Occupational Safety, Health and Working Conditions Code, 2020; and the Code on Social Security, 2020 as and when notified and brought into force by the Government of India.**

**For all provisions of the Labour Codes that are pending operationalisation through rules, schemes or notifications, the corresponding provisions of the pre-existing labour enactments (such as The Minimum Wages Act, 1948, The Payment of Wages Act, 1936, The Payment of Bonus Act, 1965, The Equal Remuneration Act, 1976, The Payment of Gratuity Act, 1972, etc. and relevant State Rules) shall continue to remain applicable.**

**The Seller/ Service Providers shall, therefore, be responsible for ensuring compliance under:**

- All notified and enforceable provisions of the new Labour Codes as mentioned hereinabove; and**
- All operative provisions of the erstwhile Labour Laws until their complete substitution.**

**All obligations relating to wages, social security, safety, working conditions, industrial relations etc. and any other statutory requirements shall be strictly met by the Seller/ Service Provider. Any non-compliance shall constitute a breach of the contract and shall entitle the Buyer to take appropriate action in accordance with the contract and applicable law.**

यह बिड सामान्य शर्तों के अंतर्गत भी शासित है /This Bid is also governed by the General Terms and Conditions

जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस नियिदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकारी के पास पंजीकृत हो। बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्रवाई का आधार होगा।/In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws.

**---धन्यवाद/Thank You---**

## Draft Technical Specifications of UAV

SN	Parameter	Specifications	Trial directives
1.	<b>UAV system should consist of the following sub-systems:-</b>		
1.1	UAV Bird with battery pack		BOO to physically check the parameter.
1.2	Ground Control Station with data link equipment		BOO to physically check the parameter.
1.3	Daylight Camera Payload		BOO to physically check the parameter.
1.4	Universal Battery Charger with Power Supply System		BOO to physically check the parameter.
2	<b>UAV characteristics: -</b>		
2.1	Role	Surveillance and reconnaissance during day.	BOO to physically check the parameter.
2.2	Launch and Recovery mode	Vertical Take Off and Landing (VTOL)	BOO to physically check the parameter.
2.3	Payloads carrying capability	Should have capability to carry day time camera.	BOO to physically check the parameter.
2.4	Flight Modes	<ul style="list-style-type: none"> <li>a) Fully Autonomous Vertical Take Off.</li> <li>b) Fully Autonomous Vertical Landing.</li> <li>c) Hover at the defined waypoint.</li> <li>d) Autonomous waypoint navigation (pre-defined as well as dynamically adjustable waypoints during flight).</li> <li>e) Remote Piloted mode for video-based user navigation.</li> <li>f) Should be controllable in real time from the GCS up to recovery.</li> <li>g) Fully autonomous and stabilised.</li> </ul>	BOO to physically check the parameter.
2.5	Endurance	30 minutes or more with all payloads at Mean Sea Level.	BOO to physically check the parameter.
2.6	Operating Altitude	400 m AGL (Above Ground Level) or more.	BOO to physically check the parameter.
2.7	Launch Altitude	2000 m AMSL (Above Mean Sea Level) or more.	BOO to check the parameter through OEM certificate.
2.8	Range of Operation	Minimum 1 km line of sight.	BOO to physically check the parameter.

SN	Parameter	Specifications	Trial directives
2.9	Cruise Speed	15 km/h or more.	BOO to physically check the parameter.
2.10	Operating Wind Conditions	a) Take off: 20 km/h or more b) Landing: 20 km/h or more. c) Operate: 20 km/h or more.	BOO to check the parameter through OEM certificate.
2.11	Failsafe features	a) Automatic Return to Home on communication failure. b) Automatic Return to Home/Land on low battery. c) Obstacle avoidance feature.	BOO to physically check the parameter.
2.12	Propulsion system	Electrical with rechargeable batteries.	BOO to physically check the parameter.
3.	<b>Payload characteristics</b>		
3.1	Payloads required	a) Electro Optic (EO) for day (colour).	BOO to physically check the parameter.
3.2	Payload and Video Stabilization	a) All payloads should be gimbals stabilized on-board. b) Video output should be digitally stabilized at all zoom levels. c) Quality of video should not be affected by UAV vibrations.	BOO to physically check the parameter.
3.3	Electro optic (EO) Daylight Payload	a) Colour Camera with 360 <sup>0</sup> pan and 90 <sup>0</sup> tilt control during flight. b) Resolution: 1280X 720 pixels or better. c) Optical Zoom: 10X zoom with minimum-FOV <5 <sup>0</sup> , maximum-FOV>45 <sup>0</sup> (wide field). Digital zoom: 4X.	BOO to check the parameter through OEM certificate.
4.	<b>Ground Control Station characteristics:-</b>		
4.1	GCS should have MIL-STD-810G or better and IP51 or better, semi rugged laptop.		BOO to check the parameter through lab test report from Govt./NABL accredited lab.
4.2	<b>Computing Hardware</b>	<b>CPU:</b> Intel Core i5 v Pro Processor, 2.3 GHz or better. <b>Storage:</b> Minimum 500 GB. <b>Memory:</b> 2 GB or more.	BOO to check the parameter through OEM certificate.

SN	Parameter	Specifications	Trial directives
		<p><b>Display:</b> Minimum 10 inch - 1024 x 768 XGA sunlight readable screen, anti-glare.</p> <p><b>Keyboard &amp; input:</b> Touch screen.</p>	
4.3	<b>Battery Operation</b>	Minimum 1.5 hours at peak utilization.	BOO to physically check the parameter.
4.4	<b>Battery Charging time of GCS</b>	Should be less than 3.5 hours.	BOO to physically check the parameter.
4.5	<b>Data portability</b>	Ports for data transfer to external secondary storage devices.	BOO to physically check the parameter.
4.6	<b>Interface</b>	VGA/HDMI, USB, 10/100/1000 Ethernet.	BOO to physically check the parameter.
4.7	<b>Capability</b>	a) Transmit control commands to UAV. b) Receive UAV flight and propulsion parameters. c) Receive, display and record real time day video from UAV. d) Capability to control UAV while on the move.	BOO to physically check the parameter.
4.8	<b>GCS Application Software</b>	a. Geographic Map along with UAV location, UAV trajectory, camera view polygon, waypoints and flight plan. b. Real-time video from the UAV with on-screen display of important parameters like:- i. Coordinate of target ii. Ground altitude of target iii. UAV position iv. Height of UAV above ground level v. Distance of UAV from GCS vi. Bearing (Azimuth) of UAV from GCS vii. Ground speed of UAV viii. UAV Heading/True North indication ix. Mission time c. Geographic map and real time video should be displayed at all times during the flight. d. Geographic map and real time video views should be resizable and/or switchable to allow user to switch between big map/small video and small map/big video views through a single click/button input.	BOO to physically check the parameter.

SN	Parameter	Specifications	Trial directives
		<p>e. Artificial Horizon indicating UAV altitude.</p> <p>f. Switchable between 2D/3D map as per user input.</p>	
4.9	<b>Map Formats</b>	<p>a) Should have the capability to integrate geo-referenced raster maps provided in at least one of the commonly used digital map formats (GIF, TIFF, DTED and SRTM etc.).</p> <p>b) Should be able to work with Google Maps, application should have the capability to download maps automatically after specifying location GPS co-ordinates.</p>	BOO to physically check the parameter.
4.10	<b>Payload Controls</b>	<p>a) Selection and switch on/off of payload</p> <p>b) Pan/Tilt/Zoom Controls</p> <p>c) Point payload to ground co-ordinate function</p> <p>d) Recording on/off</p> <p>e) Switch on/off Night Recovery Beacon</p>	BOO to physically check the parameter.
4.11	<b>Joystick Controls</b>	<p>i. Full Camera Control (Pan/Tilt, Zoom In/Out, Black/White Hot)</p> <p>ii. RPV Mode</p> <p>iii. Altitude Control</p>	BOO to physically check the parameter.
4.12	<b>Video</b>	<p>a) Video should be recorded in any commonly portable video formats (AVI/MPEG/MP4 etc).</p> <p>b) Video of the full flight should be recorded.</p> <p>c) Should have capability to take image snapshots at any time during flight.</p> <p>d) Software should be provided that will facilitate extraction of imagery from recorded video post flight.</p>	BOO to physically check the parameter.
4.13	<b>Pre-flight checks</b>	Self-test of UAV system, Output: go/no go.	BOO to physically check the parameter.
5.	<b>Communication Link</b>		

SN	Parameter	Specifications	Trial directives
5.1	<b>Communication link equipment capability</b>	i) Transmit control commands from GCS to UAV. ii) Transmit parameter of UAV and payload to GCS. iii) Transmit day video from UAV to GCS.	BOO to physically check the parameter.
5.2	<b>Frequency Band</b>	System should operate on S & C frequency Band uplink and down link, preferably on license free band i.e. 2.4 Ghz or 5.8 Ghz.	BOO to check the parameter through OEM certificate.
6.	<b>General system requirements</b>		
6.1	<b>Weight</b>	The weight of complete UAV bird including battery pack & one payload should <6 kg.	BOO to physically check the parameter.
6.2	<b>Assembly/Disassembly time</b>	Less than 10 minute each.	BOO to physically check the parameter.
6.3	<b>Life of UAV</b>	The total technical life of UAV should not be less than 500 landings.	BOO to check the parameter through OEM certificate.
6.4	<b>Environmental Conditions for Operation and Storage</b>	The UAV and associated systems should be certified for operation and storage for following environment conditions: i) Damp Heat: 40 <sup>0</sup> C at RH not less than 95%. ii) Operating temperature & Storage temp: -10 <sup>0</sup> C to +55 <sup>0</sup> C. iii) Ability to withstand dust, drizzle and humid conditions.	BOO to check the parameter through lab test report from Govt./NABL accredited lab.
6.5	<b>Portability and Operation</b>	The UAV should be battery operated portable, light in weight, compact, for day and night surveillance, capable of being carried and operated by two men.	BOO to physically check the parameter.
6.6	<b>Battery of AV</b>	The intelligent standard lithium based battery pack should have the backup of minimum 30 minutes.	BOO to check the parameter through OEM certificate.
6.7	<b>Battery Charger of AV battery</b>	Suitable universal battery charger to charge the batteries within two to three hours.	BOO to physically check the parameter.
6.8	<b>Accessories</b>	a) Water proof Back Packs IP66: 1 set b) Field Repair kit: 1 No's	BOO to check the parameter through physical and lab test reports from the Govt./NABL-accredited lab.

SN	Parameter	Specifications	Trial directives
		<ul style="list-style-type: none"> <li data-bbox="518 107 1551 208">c) Lithium-based Battery packs: 3 No's</li> <li data-bbox="518 208 1551 308">d) Spare propeller Sets: 2 No's</li> <li data-bbox="518 308 1551 408">e) Spare Landing Gear sets: 2 No's</li> <li data-bbox="518 408 1551 508">f) Associated Cables &amp; Mountings: 1 set</li> <li data-bbox="518 508 1551 608">g) Hard transportation boxes: 1 set</li> <li data-bbox="518 608 1551 708">h) User, Technical &amp; Maintenance Manual: 1 set</li> <li data-bbox="518 708 1551 668">i) Log book: 1 set</li> </ul>	