



FOREST SURVEY OF INDIA

MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE

KAULAGARH ROAD, P.O-IPE DEHRADUN.248195

NOTICE INVITING TENDER

TENDER NO:- 22-277/2018-FGD/642

DATED 24 September,2018

Forest Survey of India, invites only online bids under two bid system (Technical bid and Financial bid) for Procurement of two Drone/UAV (a) 1 (One) number of Professional Survey Grade Unmanned Aerial Vehicle/ Drone for Large Scale Mapping and (b) 1 (One) number of standard survey grade Unmanned Aerial Vehicle/ Drone for Large scale mapping from reputed suppliers.

The details of Tender with specifications and complete terms and conditions are available on the MOEFCC portal i.e. <https://moefcc.euniwizard.com>

as well as on the website of Forest Survey of India : www.fsi.nic.in (for reference only).The tender has to be bided in the website only through online portal.

The schedule of activity is as follows:

SN	Activity/Item Description	Time Schedule
1.	Tender No.	22/277/2018-FGD/642
2.	Request tender document from date and time	24-09-2018 18:00 hrs.
3.	Request tender document till date and time	22-10-2018 15:00 hrs.
4.	Tender online submission end date and time	22-10-2018 15:30 hrs.
5.	Date and time for opening online Technical bid	25-10-2018 15:30 hrs.
6.	Date and time for opening online Financial bid	It will be decided after technical evaluation
7.	Amount of EMD to be deposited	The scanned copy of the DD of Earnest Money Deposit (EMD) of Rs.100000/- (Rupees on lacs only) in the form of Demand Draft With Minimum six Months Validity in favor of Assistant director (Account) Payable at FSI Kaulagarh Road ,PO-IPE, Dehradun
8.	e-Tender Processing Fee	Rs.2,066 including GST will be paid to ITI through e-payment get way.

9.	Tender document cost	Rs.1,000 (Including of GST@18%) only on NTR Portal (https://bharatkosh.gov.in) and challan will be submitted in FSI Dehradun
10.	Technical Demonstration date and time	30-10-2018 to 5-11-2018

For queries / clarifications on content of Tender document, please contact,

1. R. Arun Kumar, Deputy Director(FCM), Forest Geoinformatics Division, Forest Survey of India, Kaulagarh Road, Dehradun-248195
phone:-+91 7005514144, email- jubatus06@gmail.com
2. Shri. Sanjay Rawat, Assistant Director, Forest Geoinformatics Division, Forest Survey of India, Kaulagarh Road, Dehradun- 248195
phone:- +91 01352757158, email- ddsm@fsi.nic.in

1. Instructions to Bidders(ITB):

1.	Designation and address of the Officer inviting the tender	Director General, Forest Survey of India, Kaulagarh Road, P.O-IPE, Dehradun, Uttarakhand,- 248195
2.	Venue of opening of Technical and Financial Bid	Forest Survey of India, Kaulagarh Road, P.O-IPE, Dehradun, Uttarakhand,- 248195
3.	Venue of Equipment Testing	Forest Research Institute, Dehradun campus

1.1 .Detailed Specification of Item:

Sl. No.	Description	Quantity	Remarks
1.	Professional Survey Grade UAV/Drone for Large Scale Mapping	01 (One)	For detailed technical specifications please see Appendix-I For delivery destination, please see Appendix-1B
2.	Standard Survey Grade UAV/Drone for Large scale mapping	01 (One)	For detailed technical specifications please see Appendix-IA For delivery destination, please see Appendix-1B

1.2 **Eligibility and Qualification Criteria** :-(To be read with Sl.No. 1 of General Terms & Conditions of Supply–Appendix-II)
The bidder must possess minimum eligibility criteria mentioned under to participate in the bidding process:-

1.2.1 The bidder should have minimum 3 (three) years' experience in the relevant field of marketing of UAV Drone (Period to be counted from April 2015 to March 2018) 02 years for "Startups" as defined by Department of Industrial Policy and Promotion. In case of Indian Agent/Bidder recently appointed by the foreign principal/Original Equipment Manufacturer, the OEM should have supplied Professional Survey Grade UAV/Drone for Large Scale Mapping and standard Survey Grade UAV/Drone for large scale mapping in India/abroad in last 03 years (02 years for "Startups"). The bidder should have experiences of successfully completing similar works i.e. supply, installation and commissioning of UAV Drone during the last 03 years/02 years for old/startups respectively.

- 1.2.2 All Indian OEM should have industrial license for manufacturing of Drone/UAV.
- 1.2.3 The Professional Survey Grade Unmanned Aerial vehicle /Drone and Standard Survey Grade UAV/Drone shall be as per DGCA guidelines.
- 1.2.4 The bidder should have minimum turnover of Rs 3.0 Crore (Rupees Three Crore only) in each of the last three financial years (2015-16, 2016-17 and 2017-18). Relevant proof in support shall be submitted including I.T. returns and audited balance sheets. Startups (as defined by Department of Industrial Policy and Promotion) should have minimum turnover of Rs.1.0 Crore (Rupees One Crore only) in each of two financial years (2016-17, 2017-18).
- 1.2.5 Indian manufacturers should be registered with company of Law Affairs under Company's Act.
- 1.2.6 Indian Agents representing Foreign Principals should fulfill the provisions of Rule 152 of GFR, 2017 and new DGCA guidelines published with reference F.NO.05-13/2014-AED Vol.IV dated 27th August, 2018.
- 1.2.7 ISO Certification – The Company offering Professional Survey Grade UAV/Drone for Large Scale Mapping and Standard Survey Grade UAV/Drone for Large-scale mapping should be an ISO Certified Company with Certified Service Centers in India for after sale support.
- 1.2.8 Firm/Supplier will provide requisite input as per DGCA policy guidelines for obtaining UIN by Forest Survey of India.
- 1.2.9 The equipment supplied should qualify EMI/EMC test.
- 1.3 The bidder may please note that the bid once submitted will not be allowed to be modified or altered.
- 1.4 No consortium or joint venture is permitted. An undertaking in this regard to be furnished by the firm.
- 1.5 For general terms and conditions of supply, please see Appendix–II.
- 1.6 The details of Tender with complete terms and conditions are available on the MOEFCC tender Portal at [URL:https://moefcc.euniwizard.com](https://moefcc.euniwizard.com)
- 1.7 And our website (www.fsi.nic.in) which may be read out carefully before applying the same.
- 1.8 Tender Fee and EMD:The interested bidders will have to deposit the amount of Rs1000 (non-refundable) separately for each grade of UAV towards tender fee through bharat kosh (<https://bharatkosh.gov.in>) and DD/fixed deposit receipt/

banker's cheque/Bank Guarantee(refer Appendix-VI-A/ VI-B of any scheduled Bank to the tune of Rs.1,00,000/- (Rupees one lakh) separately for each grade as security/EMD in favour of Assistant Director (Accounts), Forest Survey of India, Kaulagarh Road, P.O.- IPE, Dehradun and payable at Dehradun along with the tender document to the following address:

The Director General,
Forest Survey of India,
Kaulagarh Road, P.O- IPE, Dehradun
248195

The EMD will be refunded to the unsuccessful bidder except L1 and L2 bidders.

1.8.1 All MSEs as defined in MSE procurement Policy issued by Department of MSME or area registered with central purchase organization and all startups defined as per GSR-364 (E) dated 11 April 2018 (recognized by DIPP) are exempted from EMD.

1.9 **Technical Evaluation:-** A Technical evaluation committee constituted by the Director General, FSI will technically evaluate the tender which also includes presentation by the bidder, equipment testing/ demonstration of the drone by the bidder at the place mentioned above between 30th October to 05th November 2018. The bids of the Firms/bidders who fail to arrange the demonstration will not be considered. The schedule for the demonstration will be published in our website (www.fsi.nic.in) on 29th October 2018. Based on the technical evaluation committee's report financial bids of only those firms who qualify the technical evaluation will be opened.

1.10 Incomplete Bids will not be considered at all.

1.11 The bidder has to give the financial bids following the Annexure – A1 and A2 for professional/ standard UAV.

1.12 The Tendering Process and Procurement is subject to the provisions of General Financial Rule 2017, Manual on Policies and Procedure for Purchase of Goods published by Ministry of Finance, Department of Expenditure and related Guidelines issued by CVC and any other Government orders issued from time to time.

Attention of interested Bidders is invited towards Rule 153(iii) of GFR 2017 and Government of India guidelines issued under this rule from time to time, where in it is specified that:-

The Central Government may, by notification, provide for mandatory procurement of any goods or services from any category of bidders, or provide for preference to bidders on the grounds of promotion of locally manufactured goods or locally provided services.

1.13 All bidders must quote the price in **INR**. Only for delivery at designated consignee

address including all applicable taxes / duties. Consignee address attached as Appendix-1B.

- 1.14 Irrespective of various costs/taxes, L1 bidder will be decided based on the Grand Total Landed Cost at the Consignee's place.
- 1.15 No extra cost should be included over and above the quoted price in the financial bid by the vendor after opening of tender/bid under any circumstances.
- 1.16 The Chairman, procurement board reserves the right to reject/cancel all or any tender without assigning any reason thereof.
- 1.17 The same firm can bid for either one or both category of drones. In case the bidding is done for both the categories, the bid should be separately done for each category of drones.

2.0 TENDERING/BIDDING PROCESS

- 2.1 The tenders/Bids are to submitted separately for technical and financial for each category of UAV
 - a. All the above-mentioned bids should be in proper shape and digitally signed completely

2.2 VALIDITY OF RATES

The rates quoted in the bid must remain valid for 120 days (four months) from the date of opening of Technical Bid. Rates will not be changed under any circumstances.

2.3 OPENING OF BIDS

- a) The technical bid will be opened on 25th October 2018(11:00hrs) in the Committee Hall, O/o Director General, Forest Survey of India, Kaulagarh Road, P.O.- IPE, Dehradun – 248195.
- b) Only one authorized representative from each participating bidder will be allowed to attend.
- c) The demonstration of the UAV will be conducted by the technical evaluation committee constituted by the Director General, FSI from 30th October to 02nd November 2018 from 0900 hrs to 1730 hrs at Forest Research Institute, Dehradun.

3.0 Installation, testing and Commissioning of Equipment:

The bidder will arrange Installation, testing and Commissioning of Professional Survey Grade UAV/Drone for Large Scale mapping/Standard Survey Grade

UAV/Drone for Large scale mapping quoted in Bid ,at the project site free of cost, either directly or through authorized Indian Agents/Dealers/ Distributors, as the case may be, to verify whether the delivered equipment meets the technical requirement/criteria as indicated in the technical specifications given in Appendix-I. and I A.

4.0 INSPECTION

Preliminary inspection of the stores may be carried out by the supplier at the factory before dispatch. The final joint inspection will be carried out at the consignee's site after receipt of the consignment. In case of defective supply due to latent manufacturing defects/transit damage, the same has to be rectified and replaced at the supplier's cost. All the inland expenses including insurance are to be met by the supplier.

5.0 OEM COMPREHENSIVE WARRANTY

The supplier will replace the defective material free of cost, if noticed within the Warranty period. The Warranty Certificate, as per specimen enclosed at Appendix-III A and B, is also to be submitted duly signed along with the Pre-Qualification /Technical Bid. The warranty will have to be valid for a period of minimum 2 years after the date of final acceptance (Joint Inspection Report) and on completion of training for Professional Survey Grade UAV/Drone for Large Scale mapping/Standard Survey Grade UAV/Drone for Large scale mapping .In case of any breakdown during the warranty, the period of warranty shall be extended for the period for which equipment remained out of service.

6.0 COMMITMENT

The Professional Survey Grade UAV/Drone for Large Scale mapping/ Standard Survey Grade UAV/Drone for Large scale mapping should have functional commitment for 3 years from the date of final acceptance and on completion of training so that there is no breakdown of production for want of Professional Survey Grade UAV/Drone for Large Scale mapping/ Standard Survey Grade UAV/Drone for Large scale mapping in operational condition ,failing which performance security will be forfeited.

7.0 AGREEMENT

The successful Bidders/Suppliers will be required to sign an agreement on non- judicial stamp paper of appropriate value as per specimen at Appendix-IV A & B for each grade separately at their own cost.

8.0 SERVICE MANUAL

Standard Service manual and Operational Manual with detailed representative diagram of the UAV/Drone assembly including payload will have to be uploaded for the Professional Survey Grade UAV/Drone for Large Scale mapping/Standard Survey Grade UAV/Drone for Large-scale mapping.

9.0 REPAIR AND MAINTENANCE

Servicing of drone shall be carried out in 6 months whichever is earlier during warranty period. The bidder should furnish the detailed information for repair and maintenance facilities as would be extended by them, in case of any necessity. The bidder must specify the normal expected life of the Professional Survey Grade UAV/Drone for Large Scale mapping/ Standard Survey Grade UAV/Drone for Large-scale mapping.

10 TRAINING

Training will have to be imparted by the supplier to Forest Survey of India staff at Customer site or as decided by the customer free of cost to 05 people for 02 days for each grade within 15 days from the successful installation, testing and commissioning of the Equipment.

11 CORRUPT OR FRAUDULENT PRACTICES

The Board will reject a proposal if it is found that the bidder has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices in competing for the contract in question during the bidding process or in executing the contract.

Director General
Forest Survey of India
Kaulagarh Road, P.O- IPE
Dehradun - 248001

FINANCIAL BID (please strike out whichever is not applicable)**A. Professional survey grade UAV/Drone**

Sl. No.	Description of the item	Quantity cost	Rate Cost	Total Cost
1.	Professional Survey Grade UAV/Drone			
2.	GST as applicable at the time of procurement			
3.	Other tax (if any)			
4.	Total Cost (all-inclusive on F.O.R. Destination basis)			

NOTE :-

1. Training will have to be imparted by the supplier to 05 personnel of Forest Survey of India staff at the customer site or as decided by the customer for 02 days free of cost within 15 days of the installation and commissioning of the equipment.
2. The rates approved by the purchaser are final and no further payment will be done irrespective of any increase in Taxes etc., If so the supplier will have to bear the cost at his own. The purchaser will not be held responsible for such obligation.
3. The rates approved are inclusive of all prevailing taxes which are to be levied, any non-inclusion of such amount/Tax will be the liability of supplier. Payment of any other latent charges / taxes not specified/ mentioned in the cost quoted by the firm, would solely be the liability of the firm.
4. All the rate should be quoted in INR.

FINANCIAL BID (please strike out whichever is not applicable)**B. Standard survey grade UAV/Drone**

Sl. No.	Description of the item	Quantity cost	Rate Cost	Total Cost
1.	Standard Survey Grade UAV/Drone			
2.	GST as applicable at the time of procurement			
3.	Other tax (if any)			
4.	Total Cost (all-inclusive on F.O.R. Destination basis)			

NOTE :-

1. Training will have to be imparted by the supplier to 05 personnel of Forest Survey of India staff at the customer site or as decided by the customer for 02 days free of cost within 15 days of the installation and commissioning of the equipment.
2. The rates approved by the purchaser are final and no further payment will be done irrespective of any increase in Taxes etc., If so the supplier will have to bear the cost at his own. The purchaser will not be held responsible for such obligation.
3. The rates approved are inclusive of all prevailing taxes which are to be levied, any non-inclusion of such amount/Tax will be the liability of supplier. Payment of any other latent charges / taxes not specified/ mentioned in the cost quoted by the firm, would solely be the liability of the firm.
4. All the rate should be quoted in INR.

INSTRUCTIONS TO THE SUPPLIER (S)

1. PERFORMANCE SECURITY

Successful bidder will have to furnish a security deposit @10% of value of the order/ contract in the shape of account payee demand draft, fixed deposit receipt from a scheduled bank, Bank Guarantee of any scheduled Bank valid for 3 years and 2 months from the date of acceptance of the Equipment after training with a provision of further extension and within 14 days of the notification of award of contract (AOC), in favour of "Assistant Director (Accounts), Forest Survey of India, Kaulagarh Road, P.O.- IPE, Dehradun 248001 "and payable at Dehradun. An Agreement is also to be signed by the Supplier at their cost on non-judicial stamp paper of appropriate value as per specimen at Appendix-IV A & B. In case of Bank Guarantee submitted by the Bidder, it should be unconditional in all cases.

2. DELIVERY PERIOD

The minimum delivery period required by the supplier from the date of receipt to the Supply Order should be mentioned in the bid and should not be more than **6 weeks from the date of supply order.**

3. PACKING

The Equipment is to be securely packed as per International standard trade packaging, to avoid damages to the consignment in transit. The packaging charges, if any should be included in the Total cost.

4. INSURANCE

The consignment is required to be dispatched to the consignee, duly insured for transit insurance for all risks from the consignor's Warehouse to the Consignee's place till the acceptance of the Equipment. The insurance charges should be included in the total cost.

5. TRANSPORTATION CHARGES

The transportation charges should be pre-paid for delivery of consignment to the consignee on Door Delivery Basis and should be included in the total cost.

6. PAYMENT

Payment will be made in full, within one month from the date of installation and commissioning and acceptance of the Equipment and on completion of training to Forest Survey of India personnel by the successful bidder. No request for advance payment, payment against delivery or payment through Bank against dispatch documents will be considered and the payment will be made through only online.

7. THE FOLLOWING TO BE CONFIRMED IN THE TECHNICAL BID:-

- A) VALIDITY OF OFFER
- B) FREE DEMONSTRATION OF UAV/DRONE FOR LARGE SCALE MAPPING
- C) INSPECTION
- D) WARRANTY
- E) GUARANTEE
- F) SERVICE / OPERATIONAL MANUAL
- G) REPAIR & MAINTENANCE (AFTER SALES SERVICE FACILITIES)
- H) INSTALLATION/COMMISSIONING/TRAINING.

(All Documents related should be uploaded.)

8. **DOCUMENTS TO BE SUBMITTED:-** Following Documents are required to be uploaded along with the TECHNICAL BID:-

- i) Registration Certificate of the firm under Companies Law.
- ii) Registration Certificate if registered with DGS&D as an approved Government Supplier or registered as a Small Scale Unit with Small Scale Industries.
- iii) Latest Sales Tax Clearance Certificate.
- iv) Latest Income Tax Clearance Certificate.
- v) In case of wholesale dealers / distributors / agents, authority letter (in original) from their Principals /OEMs.
- vi) One copy of Warranty Certificate duly stamped and signed (specimen enclosed).
- vii) Supply orders from Govt.(State or Central)/PSUs for supply of this item.

ANNEXURE – ‘ C’

**INFORMATION ABOUT THE BIDDER
(TO BE SUBMITTED ALONG WITH Technical Bid)**

1	Name of the Firm / Company	
2	Year of Establishment	
3	Status of the Firm/ Company (Partnership. Limited etc)	
4	Postal Address Telephone numbers Fax e-mail Website Address (If Applicable)	
5	Bank Account Detail for re-payment	Account No Account Type Name of Account Holder Address of Account Holder Name of Branch Address of Branch IFSC Code
6	Address of Authorized branches of the Firm/Company, In India	
7	Name of the proprietor/ partner/ Managing Director etc.	
8	Nature of your Firm/ Company/ Manufacturer/ Stockiest/ Dealer/ Distributor/ Agent etc.	
9	Details of products you are dealing in(catalogues for products may be enclosed, if available)	
10	Turnover for the last five years in Rs.(Year Wise).(Supporting documents to be attached)	
11	List of Existing Clients (Govt./PSU/Major Client). (Supporting documents to be attached)	

12	If you are registered with DGS&D /GeM or any other Govt./PSU/Authorized body Please give details	
(a)	Name and address of organization registered with	
(b)	Registration No.	
(c)	Date of Registration	
(d)	Date till which Registration is valid	
(e)	Whether registered for items for which tender has been submitted	
13	Whether enlisted with Central Procurement Organization (DGS&D or any Ministry/Department of Govt of India.) (For Indian Agents Representing Foreign Principal).	
14	Has your firm ever been black listed by the Govt. or any other authority ?Please give details and reasons thereof	
15	If black listed & revoked give details of the same	
16	Are you a income tax payee ,if so please furnish following details	
(a)	PAN/TAN	
(b)	TDS Accounts if any	
(c)	GST Registration No	

Declaration

I/We do here by declare that the entries made in the application are true to the best of my/ our knowledge and belief. I/We do also confirm that I/We have read and understood all terms & conditions of Contract as contained in this tender document and agree to abide by the same in all respect.

I/We undertake to communicate promptly to Forest Survey of India, Dehradun on all the subsequent changes in condition affecting the accuracy of the details given above. Further I/We undertake that incase the facts/information furnished, as above is/has been found false, the Forest Survey of India, Dehradun may be in absolute discretion to reject/cancel any assignment, if any, awarded/agreed to be awarded to me/ us and in such case I/We shall not be entitled to claim any damages/what so ever in regard to that assignment.

Signature of Proprietor/ Director/ Managing
Director/ Constituted authority.

Place:

Name:

Date:

Designation

APPENDIX-I

**TECHNICAL SPECIFICATIONS FOR SURVEYING AND LARGE SCALE
MAPPING/PROFESSIONAL GRADE**

Sl.No.	Features	Description
1.	UAV Type	Fixed Wing/Multi-rotor (professional grade)
2.	Mission	Surveying and Large scale Mapping
3.	Landing & Takeoff	Vertical Takeoff and Landing (VTOL)
4.	Maximum body weight (MBW)	Up to 9 kg.
5.	Maximum take off weight (MTOW)	Up to 11 kg.
6.	Flight Height above Ground Level (AGL)	At least 200 m AGL
7.	Endurance or Max flight time	Minimum 25 minutes
8.	Sensor or Camera	Preferably Replaceable payload (Camera) with one multispectral FIVE bands (Blue, Green, Red, Red edge and NIR) Camera and One high resolution RGB camera with minimum resolution 15 MP or more
9.	Gimble	Provided for the sensor should integrate with the UAV/drone provided.
10.	GNSS for horizontal and vertical positioning fixing.	PPK
11.	Nominal coverage at 120 m (400 ft)	0.5 sq km with 5 cm GSD
12.	Absolute X,Y accuracy	<5cm
13.	Absolute Z accuracy	5-10 cm
14.	Ground Sampling Distance (GSD)	<5 cm
15.	Cruise speed	Minimum 40Km/Hr (=14m/sec)
16.	Wind speed tolerance	Minimum 30 Km/Hr (=8m/sec)
17.	Ground Control Station	Laptop/Tab based controller with Flight planning & control software
18.	Battery Type	Li-Po or more efficient. International Standard Compliant
19.	Onboard storage	Minimum 32 GB or more (Expandable)
20.	Emergency Recovery Mode	Ability to return back to launch pad or home position in case of communication failure, low battery/power etc
21.	Airframe life	Minimum 5 years

22.	Warranty	36 months
23.	Security	128 bit encryption
24.	Installation, testing and commissioning of the equipment after carrying out the pilot project	To be carried out by the manufacturer's expert within 30 days after delivery
25.	Format of Digital Image Data captured	RAW
26.	Flight planning & control software	A navigation software package that enables the user to plan and perform complex flight patterns for different surveying applications and should allow the combination of telemetry data with the recorded images/data. The software should feature the functions that enable to plan, fly and prepare the data for post processing for different applications. Package should include at least following features: <ul style="list-style-type: none"> • Flight Plan editor • Flight book • Photo tagger • Database • Flight controller with flight data logging capabilities.
27.	Autonomous flight termination system or Return Home (RH) option.	Inbuilt in the UAV/Drone
28.	Flashing anti-collision strobe lights.	Inbuilt in the UAV/Drone
29.	Barometric equipment with capability for remote sub – scale setting.	Inbuilt in the UAV/Drone
30.	RFID and GSM – SIM card/ NPNT complaint for APP based real time tracking.	Inbuilt in the UAV/Drone
31.	Detect and avoid capability.	Inbuilt in the UAV/Drone
32.	Geo fencing	Inbuilt in the UAV/Drone
33.	Data Link	Communication data link complying with International standard and certification. Frequencies used should not interfere with other users allocates frequency spectrum

34.	SSR transponder (Mode 'C' or 'S') or ADS-B OUT equipment.	Inbuilt in the UAV/Drone
35.	Communication distance between GCS and flying Drone/UAV	Minimum 4km or more preferred
36.	Operational Temperature	-5 to +50°C
37.	Fire resistant- identification plate inscribed with UIN.	Inbuilt in the UAV/Drone
38.	Standard Accessories	Rugged Transport box with foam, 02 Extra Propeller, 02 Extra Battery, Dual battery Charger
39.	Training	02 days at customer site after delivery and commissioning

APPENDIX-IA

TECHNICAL SPECIFICATIONS FOR SURVEYING AND LARGE SCALE MAPPING (STANDARD GRADE)

Sl.No.	Features	Description
1.	UAV Type	Fixed Wing/Multi-rotor (Standard grade)
2.	Mission	Surveying and Large scale Mapping
3.	Landing & Takeoff	Vertical Takeoff and Landing (VTOL)
4.	Maximum body weight (MBW)	Up to 4 kg.
5.	Maximum take off weight (MTOW)	Up to 6 kg.
6.	Flight Height above Ground Level (AGL)	At least 200 m AGL
7.	Endurance or Max flight time	Minimum 20 minutes
8.	Sensor or Camera	RGB camera with minimum resolution 15 MP or more
9.	Gimble	Provided for the sensor should integrate with the UAV/drone provided.
10.	GNSS for horizontal and vertical positioning fixing.	PPK
11.	Nominal coverage at 120 m (400 ft)	0.5 sq km with 5 cm GSD
12.	Absolute X,Y accuracy	<5cm
13.	Absolute Z accuracy	5-10 cm
14.	Ground Sampling Distance (GSD)	<5 cm
15.	Cruise speed	Minimum 40Km/Hr (=14m/sec)
16.	Wind speed tolerance	Minimum 30 Km/Hr (=8m/sec)
17.	Ground Control Station	Laptop/Tab based controller with Flight planning & control software
18.	Battery Type	Li-Po or more efficient. International Standard Compliant
19.	Onboard storage	Minimum 32 GB or more (Expandable)
20.	Emergency Recovery Mode	Ability to return back to launch pad or home position in case of communication failure, low battery/power etc
21.	Airframe life	Minimum 5 years
22.	Warranty	36 months
23.	Security	128 bit encryption

24.	Installation, testing and commissioning of the equipment after carrying out the pilot project	To be carried out by the manufacturer's expert within 30 days after delivery
25.	Format of Digital Image Data captured	RAW
26.	Flight planning & control software	A navigation software package that enables the user to plan and perform complex flight patterns for different surveying applications and should allow the combination of telemetry data with the recorded images/data. The software should feature the functions that enable to plan, fly and prepare the data for post processing for different applications. Package should include at least following features: <ul style="list-style-type: none"> • Flight Plan editor • Flight book • Photo tagger • Database • Flight controller with flight data logging capabilities.
27.	Autonomous flight termination system or Return Home (RH) option.	Inbuilt in the UAV/Drone
28.	Flashing anti-collision strobe lights.	Inbuilt in the UAV/Drone
29.	Barometric equipment with capability for remote sub – scale setting.	Inbuilt in the UAV/Drone
30.	RFID and GSM – SIM card/ NPNT complaint for APP based real time tracking.	Inbuilt in the UAV/Drone
31.	Detect and avoid capability.	Inbuilt in the UAV/Drone
32.	Geo fencing	Inbuilt in the UAV/Drone
33.	Data Link	Communication data link complying with International standard and certification. Frequencies used should not interfere with other users allocates frequency spectrum
34.	SSR transponder (Mode 'C' or 'S') or ADS-B OUT equipment.	Inbuilt in the UAV/Drone

35.	Communication distance between GCS and flying Drone/UAV	Minimum 4km or more preferred
36.	Operational Temperature	-5 to +50°C
37.	Fire resistant- identification plate inscribed with UIN.	Inbuilt in the UAV/Drone
38.	Standard Accessories	Rugged Transport box with foam, 02 Extra Propeller, 02 Extra Battery, Dual battery Charger
39.	Training	02 days at customer site after delivery and commissioning

APPENDIX-IB

CONSIGNEE ADDRESS FOR DELIVERY OF 01 NUMBER OF PROFESSIONAL SURVEY GRADE UAV/DRONE AND 01 NUMBER OF STANDARD SURVEY GRADE UAV/DRONE

Sl No	Name of Office	Address of Consignee	Quantity
1	Forest Survey of India, Dehradun	Director General, Forest Survey of India, Kaulagarh, Road, P.O.- IPE, Dehradun 248195 Tel: 0135-2755037 Fax: 0135-2755037 e-mail: jdnfdmc@fsi.nic.in	01 (ONE) NUMBER OF PROFESSIONAL SURVEY GRADE UAV/DRONE AND 01 (One) NUMBER OF STANDARD SURVEY GRADE UAV/DRONE

GENERAL TERMS AND CONDITIONS OF SUPPLY

1. QUALIFICATION CRITERIA

- 1.1 The bidder should have minimum experience in the relevant field of marketing of UAV Drone during last 03 years (Period to be counted from April 2015 to March 2018) (02 years for “Startups” (as defined by Department of Industrial Policy and Promotion). In case of Indian Agent/Bidder recently appointed by the foreign principal/Original Equipment Manufacturer), the OEM should have supplied Professional Survey Grade UAV/Drone for Large Scale Mapping India/abroad in last 03 years (02 years for “Startups”). The bidder should have experiences of successfully completing similar works i.e. supply, installation and commissioning of UAV/Drone during the last 03 years for old/02 years for startups respectively.
- 1.2 All Indian OEM should have industrial license for manufacturing of Drone/UAV.
- 1.3 The Professional Survey Grade Unmanned Aerial vehicle Drone shall be as per DGCA guidelines issued .
- 1.4 The bidder should have minimum turnover of Rs 3.0 Crore (Rupees Three Crore only) in each of the last three financial years (2015-16, 2016-17 and 2017- 18). Relevant proof in support shall be submitted including I.T.returns and audited balance sheets. Startups (as defined by Department of Industrial Policy and Promotion) should have minimum turnover of Rs.1.0 Crore (Rupees One Crore only) in each of two financial years (2016-17,2017-18).
- 1.5 Indian manufacturers should be registered with company of Law Affairs under Company’s Act.
- 1.6 Indian Agents representing Foreign Principals should fulfill the provisions of Rule152 of GFR, 2017.
- 1.7 ISO Certification–The Company offering Professional Survey Grade UAV/Drone for Large Scale Mapping standard and Survey Grade UAV/Drone for Large-scale mapping should be an ISO Certified Company with Certified Service Centers in India for after sale support.

2. COUNTRY OF ORIGIN

- 2.1 All Goods and Services supplied under the Contract shall have their origin in the member countries and territories eligible under the rules.
- 2.2 For purpose of this clause, “origin” means the place where the goods are made, grown or produced, or from which the services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembling of components ,a commercially recognized new product results that is substantially different in basic characteristics or in purpose or utility from the components.
- 2.3 The origin of Goods and Services is distinct from the nationality of the supplier.

3. FORMAT AND SIGNING OF BID

The bid shall be typed or written, in English language only, in indelible ink and shall be signed by the bidder or a person or persons duly authorized to be the bidder to the contract. The letter of authorization shall be indicated by written power-of-attorney accompanying the bid. All pages of the bid, except for un-amended printed literature, shall be initialed by the person or persons signing the bid.

- 3.1 The bid shall contain no interlineations, erasures or overwriting except as necessary to correct errors made by the bidder, in which case such corrections shall be initialed by the person or persons signing the bid.

4. CUSTOM DUTY

Forest Survey of India will issue custom duty exemption certificate. Other expenses, if any, regarding custom clearance shall be borne by the supplier.

5. ADDITIONAL QUESTIONS FOR TENDER ENQUIRIES

State that quotation has been submitted in two parts as indicated below-

PART – I

Technical Bid consisting of technical details, bringing out clearly in a separate sheet, deviations, if any, in specifications from those indicated in APPENDIX-IA&IB of the Tender Document should be uploaded.

PART – II

- (a) Financial Bid sheet in, complete shape should be uploaded.
- (b) Please indicate Customs duty etc.in a separate sheet, which should be signed by you and uploaded.
- (c) Please confirm that you will upload in advance two copies of each of installation, operation and maintenance instructions and diagrams in English, incase contract is awarded and order placed with you.
- (d) Please upload , in a separate sheet duly signed by you, full information in respect of the output that you obtained from the machine you have offered; and also that you guarantee for the performance of the machine under the normal conditions and also that you will demonstrate guaranteed output installation of the machine.
- (e) Please upload lists duly signed by you, for such spare parts and tools as are absolutely essential for proper maintenance and operation of Equipment for a period of Five years (in the case of Electronic and Optical Spare Parts) and 3 years (in the case of Electronic and Mechanical Spare Parts) giving full particulars of the Spare parts and tools with the price of each spare part and tool separately.

- (f) Please upload confirming that you have adequate servicing and spare parts facilities in India in respect of the equipment tendered for by you or that you will arrange to provide such facilities simultaneously with the supply of the equipment.
- (g) Please upload that you guarantee that before going out of production of the spare parts, you will give adequate advance notice to the purchaser so that the later may order his requirements of spares in one lot, if he so desires.
- (h) Please upload that you further guarantee that if you go out of production of the spare parts, then you will make available blueprints, drawings of the spare parts and specifications of materials at no cost to the purchaser if and when required in connection with the equipment to enable the purchaser to fabricate or procure spare parts from other sources.
- (i) The rates approved by the purchaser are final and no further payment will be done irrespective of any increase in Taxes etc. The contractor will have to bear the cost at his own. The purchaser will not be held responsible for such obligation.
- (j) The rates approved are inclusive of all prevailing taxes which are to be levied, any non-inclusion of such amount/Tax will be the liability of contractor.

(Signature of Bidder)

6. COMPLETENESS / CORRECTNESS OF THE STORES

The contractor/supplier shall be responsible for the correct supply of the stores being ordered and shall replace the same free of cost if found not conforming to the required specifications or incomplete in any performance. The spares shall be guaranteed for interchangeability and performances. The changed parts, if any, will be guaranteed for correctness and interchangeability.

7. DECREASE IN THE QUANTITY TO BE SUPPLIED

Normally no item or quantity will be cancelled or reduced within the delivery period. But the Purchaser reserve the right to cancel any item or reduce any quantity from the purchase order if the stores are not supplied within the original delivery period.

8. FORCE MAJEURE

“Force Majeure” means an event beyond the control of the supplier and not involving the supplier’s fault or negligence and not limited to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.

If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser

in writing of such conditions and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonable practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

9. TERMINATION FOR INSOLVENCY

The Purchaser may at any time terminate the contract by giving written notice to The supplier, without compensation to the supplier ,if the supplier becomes bankrupt or otherwise insolvent, provided that such termination will not prejudice or effect any right of action or remedy which has accrued or will accrue thereafter to the Purchaser.

10. RISK PURCHASE

If the supplier after submission of bid & due acceptance of the same i.e. after the placement of order fails to abide by the terms of the tender document or fails to supply the material as per delivery schedule/period given or at any time repudiates the contract, the purchaser shall have the right to forfeit the EMD/Performance security deposited by the supplier & procure the stores from other agencies at the risk & consequences of the supplier. The cost of such procurement will be recovered from the supplier.

11. BLACKLISTING THE FIRM

If a firm, which is awarded the contract violates any of the terms & conditions, it shall be blacklisted & its EMD /Performance Security shall be forfeited.

12. APPLICABLE LAW

The contract shall be interpreted in accordance with the laws of the Union of India.

13. ARBITRATION CLAUSE

In the event of any dispute arising out of or relating to this tender, it should be referred to sole arbitration of Director General, Forest Survey of India, Dehradun or any other person nominated by him whose decision will be final and binding for both the parties.

WARRANTY CERTIFICATE FOR PROFESSIONAL SURVEY GRADE UAV/DRONE

I/We warrant that everything to be supplied by me/us here under shall be brand new, free from all defects and faults in material workmanship and manufacture and shall be of the highest grade and quality and consistent with the established and generally accepted standards for material of the type ordered, shall be in full conformity with the specifications/drawings of samples if any and shall operate properly. We shall be fully responsible for its efficient operation.

Incase of any latent defector inconsistency due to poor manufacturing/repair & overhaul of the equipment (Professional Survey grade UAV/Drone for Large Scale mapping)or defective supply not conforming to the specifications if observed at the time of final inspection, and there after within three years from the date of acceptance, we undertake the guarantee to repair/supply free of cost, the defective items upto the final destination and the inland expenses borne by the indenter ,will be at our cost.

This warranty shall survive inspection, payment for, and acceptance of the goods but shall expire (Except in respect of complaints of which the contractor has been notified prior to such date) after 36 months of successful acceptance by the purchaser.

SEAL of manufacturer/supplier Enterprises.

Signature

Name & Address of Manufacturer/
Supplier

Dated _____

WARRANTY CERTIFICATE FOR STANDARD SURVEY GRADE UAV/DRONE

I/We warrant that everything to be supplied by me/us here under shall be brand new, free from all defects and faults in material workmanship and manufacture and shall be of the highest grade and quality and consistent with the established and generally accepted standards for material of the type ordered, shall be in full conformity with the specifications/drawings of samples if any and shall operate properly. We shall be fully responsible for its efficient operation.

In case of any latent defector inconsistency due to poor manufacturing/repair & overhaul of the equipment (Standard Survey grade UAV/Drone for Large Scale mapping) or defective supply not conforming to the specifications if observed at the time of final inspection, and there after within three years from the date of acceptance, we undertake the guarantee to repair/supply free of cost ,the defective items upto the final destination and the inland expenses borne by the indenter, will be at our cost.

This warranty shall survive inspection, payment for, and acceptance of the goods but shall expire (Except in respect of complaints of which the contractor has been notified prior to such date) after 36 months of successful acceptance by the purchaser.

SEAL of manufacturer/supplier Enterprises.

Signature

Name & Address of Manufacturer/
Supplier

Dated _____

AGREEMENT FOR PROFESSIONAL SURVEY GRADE UAV/DRONE

An agreement made _____ between _____ (here in after called the contractor which expression shall include his legal representatives) of the one part and Director General, Forest Survey of India, Kaulagarh Raod, P.O.- IPE, Dehradun as the other part for the purchase of the under mentioned article at cost mentioned against them viz.:-

Name of Article	Quantity	Rate (Rs.)	Total Cost (Rs.)
Professional Survey grade UAV/Drone for Large Scale mapping	1(one)		

And on the terms and conditions hereinafter mentioned viz:-

That all stores shall be delivered free of cost at consignee's address as per Appendix-1A.

- (a) That all stores supplied shall be new and of good quality and in exact accordance with the specifications of the equipment. That the inspection of the stores shall be carried out by the consignee himself or by a team of Officers deputed by him at the place mentioned above .The stores rejected must be removed by the contractor within a week from the date of rejection. All stores not accepted shall lie at the risk of the contractor. If not removed within the period specified above, Director General, Forest Survey of India, Dehradun or consignee shall have the right to dispose of such stores as he thinks fit at the risk of the contractor and on his account or if he prefers to charge him rent for the space occupied by same.
- (b) That the time for delivery stated above shall be of the essence of the contract and should the contractor fail to deliver the whole/any part of the stores within the delivery period specified (6 weeks).Director General, Forest Survey of India, Dehradun shall have the right to forfeit the deposit and to purchase the stores elsewhere which the contractor has failed to deliver as aforesaid at the expenses of the contractor and the contractor will be liable to pay such further sum as will be sufficient to meet the difference of cost between the rates tendered and those at which the purchases are actually made should they be higher. This is without prejudice to action being taken under other provisions of this contract.
- (c) That the Director General, Forest Survey of India, Dehradun or consignee, shall have full power to reject the whole or any part of the stores which to the true intent and meaning is not in exact

accordance with the specifications and that his decision shall be final.

- (d) That the contractor will deposit a sum of Rs. _____ (Rupees only) (10% value of order) as Performance Security for compliance with the terms and conditions of this contract in the shape of Bank Guarantee/Fixed Deposit Receipt etc. Valid for 3 years 2 months.
- (e) That the contractor will be entirely responsible for the execution of this contract and shall not assign or sub-let the same.
- (f) If the contractor becomes insolvent or he or his Agent offers any bribe in connection with their contractor the contract or fails to observe or perform any condition of this contract then notwithstanding any previous waiver of such defaulter action being taken under any other clause Director General, Forest Survey of India, Dehradun may on behalf of the Government terminate the contract.
- (g) The rates approved by the purchaser are final and no further payment will be done irrespective of any increase in Taxes etc. The contractor will have to be at the cost at his own. The purchaser will not be held responsible for such obligation.
- (h) The rates approved are inclusive of all prevailing taxes which are to be levied, any non-inclusion of such amount /Tax will be the liability of contractor.
- (i) The goods received will be accepted only after receiving the satisfactory performance certificate from the joint inspection committee. (Comprising representative of contractor and purchaser).
- (j) The Contractor will be fully responsible for efficient operation of equipment for a period of 36 months of warranty from the date of acceptance. However, in case of any breakdown during the warranty, the period of warranty shall get extended to the extent of the period for which equipment remained out of service.
- (k) In case of any latent defect, which is noticed later on within a period of 36 months from the date of acceptance of equipment, the contractor will be responsible to undertake such repair/supply free of cost the defective part, at the final destination and in land expenses will also be borne by contractor.
- (l) If any dispute or difference shall arise including this contract, the settlement of which is not there in before provided for the same, shall be referred to the arbitration of the Director General, Forest Survey of India (or any other person nominated by him) whose decision will be final and binding for both the parties.

Signed by the said contractor.....

In the presence of

1stWitness Address

2ndWitness Address

Signed by the said for and on
behalf of the President of
India in the presence of

1stWitness Address

2ndWitness Address

1stWitness Address

2ndWitness Address

APPENDIX –IV-B

AGREEMENT FOR STANDARD SURVEY GRADE UAV/DRONE

An agreement made _____ between _____ (herein after called the contractor which expression shall include his legal representatives) of the one part and Director General, Forest Survey of India, Kaulagarh Raod, P.O.- IPE, Dehradun as the other part for the purchase of the undermentioned article at cost mentioned against them viz.:-

Name of Article	Quantity	Rate (Rs.)	Total Cost (Rs.)
Standard Survey grade UAV/Drone for Large Scale mapping	1(one)		

And on the terms and conditions hereinafter mentioned viz:-

That all stores shall be delivered free of cost at consignee’s address as per Appendix-1A.

- (g) That all stores supplied shall be new and of good quality and in exact accordance with the specifications of the equipment .That the inspection of the stores shall be carried out by the consignee himself or by a team of Officers deputed by him at the place mentioned above. The stores rejected must be removed by the contractor within a week from the date of rejection. All stores not accepted shall lie at the risk of the contractor .If not removed within the period specified above, Director General, Forest Survey of India, Dehradun or consignee shall have the right to dispose of such stores as he thinks fit at the risk of the contractor and on his account or if he prefers to charge him rent for the space occupied by same.
- (h) That the time for delivery stated above shall be of the essence of the contract and should the contract or fail to deliver the whole/any part of the stores within the delivery period specified (6 weeks).Director General, Forest Survey of India, Dehradun shall have the right to forfeit the deposit and to purchase the stores elsewhere which the contract or has failed to deliver as aforesaid at the expenses of the contractor and the contractor will be liable to pay such further sum as will be sufficient to meet the difference of cost between the rates tendered and those at which the purchases are actually made should they be higher. This is without prejudice to action being taken under other provisions of this contract.
- (i) That the Director General, Forest Survey of India, Dehradun or consignee, shall have full power to reject the whole or any part of the

stores which to the true intent and meaning is not in exact accordance with the specifications and that his decision shall be final.

- (j) That the contractor will deposit a sum of Rs. _____ (Rupees only) (10% value of order) as Performance Security for compliance with the terms and conditions of this contract in the shape of Bank Guarantee/Fixed Deposit Receipt etc. Valid for 3 years 2 months.
- (k) That the contractor will be entirely responsible for the execution of this contract and shall not assign or sub-let the same.
- (l) If the contractor becomes insolvent or he or his Agent offers any bribe in connection with their contractor the contractor fails to observe or perform any condition of this contract then notwithstanding any previous waiver of such defaulter action being taken under any other clause Director General, Forest Survey of India, Dehradun may on behalf of the Government terminate the contract.
- m) The rates approved by the purchaser are final and no further payment will be done irrespective of any increase in Taxes etc. The contractor will have to be at the cost at his own. The purchaser will not be held responsible for such obligation.
- n) The rates approved are inclusive of all prevailing taxes which are to be levied, any non-inclusion of such amount/Tax will be the liability of contractor.
- o) The goods received will be accepted only after receiving the satisfactory performance certificate from the joint inspection committee. (Comprising representative of contractor and purchaser).
- p) The Contractor will be fully responsible for efficient operation of equipment for a period of 36 months of warranty from the date of acceptance. However, in case of any breakdown during the warranty, the period of warranty shall get extended to the extent of the period for which equipment remained out of service.
- q) In case of any latent defect, which is noticed later on within a period of 36 months from the date of acceptance of equipment, the contractor will be responsible to undertake such repair/supply free of cost the defective part, at the final destination and inland expenses will also be borne by contractor.
- r) If any dispute or difference shall arise including this contract, the settlement of which is not herein before provided for the same, shall be referred to the arbitration of the Director General, Forest Survey of India

(or any other person nominated by him) whose decision will be final and binding for both the parties.

Signed by the said contractor.....

In the presence of

1stWitness Address

2ndWitness Address

Signed by the said for and on behalf of the President of India in the presence of

1stWitness Address

2ndWitness Address

1stWitness Address

2ndWitness Address

BANK GUARANTEE FOR PERFORMANCE SECURITY FOR PROFESSIONAL SURVEY GRADE UAV/DRONE

In consideration of the President of India (hereinafter called “the Government”) having agreed to exempt _____ (hereinafter called “the said Contractor(s)”) from the demand, under the terms and conditions of an Agreement dated _____ Made between _____ and _____ for supply of Professional Survey Grade UAV/Drone for Large Scale Mapping (hereinafter called “the said Agreement”) of security deposit for the due fulfillment by the said contractors of the terms and conditions contained in the said Agreement, on production of a Bank Guarantee for Rs. _____ (Rupees _____ only). We, (indicate the name of the bank) _____ (herein after referred to as “the Bank”) at the request of _____ Contractor(s) do here by undertake to pay to the Government an amount not exceeding Rs. _____ against any loss or damage caused to or suffered or would be caused to or suffered by the Government by reason of any breach by the said contractors) of any of the terms or conditions contained in the said Agreement.

We (indicate the name of the Bank) _____ do hereby undertake to pay the amount due and payable under this Guarantee without any demur, merely on a demand from the Government stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Government by reason of breach by the said Contractor’s) failure to perform the said Agreement. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability, under this Guarantee shall be restricted to an amount not exceeding Rs. ____.

We undertake to pay to the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) supplier(s) in any suit or proceeding pending before any court or Tribunal relating there to: our liability under this Guarantee being absolute and unequivocal.

The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment there under and the contractors) shall have no claim against us for making such payment.

We, (indicate the name of the Bank) _____ further, agree that the Guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Agreement and that it shall continue to be enforceable till all the dues of the Government under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till ____

Office/Department/Ministry of _____ certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said contractor(s) and accordingly discharge this Guarantee. Unless a demand or claim under this Guarantee is made on us in writing on or before, the _____ we shall be discharged from all liability under this Guarantee thereafter.

We, (indicate the name of the Bank) _____ further agree with the Government that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligations here under to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said contractor(s) from time to time or to post pone for any time or from time to time any of the powers exercisable by the Government against the said contractors) and to for bear or enforce any of the terms and conditions relating to the said agreement and we shall not be relived from our liability by reason of any such variation, or extension being granted to the said Contractor or for any for bearance, actor commission on the part of the Government or any indulgency by the Government to the said contractor(s) or by such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

This Guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s)/Supplier(s).

We, (indicate the name of the Bank) _____ lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Government in writing:

This Bank Guarantee submitted by the Bidder is unconditional in all cases. The Bank Guarantee / Security Deposit is valid for a period of 3 years from the date of acceptance of the equipment's /after training/signing the contract.

Dated the day of for (indicate the name)

BANK GUARANTEE FOR PERFORMANCE SECURITY FOR STANDARD
SURVEY GRADE UAV/DRONE

In consideration of the President of India (hereinafter called “the Government”) having agreed to exempt _____ (hereinafter called “the said Contractor(s)”) from the demand, under the terms and conditions of an Agreement dated _____

Made between _____ and _____ for supply of Standard Survey Grade UAV/Drone for Large Scale Mapping (herein after called “the said Agreement”) of security deposit for the due fulfillment by the said contractors of the terms and conditions contained in the said Agreement, on production of a Bank Guarantee for Rs. _____ (Rupees

_____ only). We, (indicate the name of the bank) _____ (herein after referred to as “ the Bank”) at the request of _____ Contractor(s) do hereby undertake to pay to the Government an amount not exceeding Rs. _____ against any loss or damage caused to or suffered or would be caused to or suffered by the Government by reason of any breach by the said contractors) of any of the terms or conditions contained in the said Agreement.

We (indicate the name of the Bank) _____ do hereby undertake to pay the amount due and payable under this Guarantee without any demur, merely on a demand from the Government stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Government by reason of breach by the said Contractor’s) failure to perform the said Agreement. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability, under this Guarantee shall be restricted to an amount not exceeding Rs. _____.

We undertake to pay to the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) supplier(s) in any suit or proceeding pending before any court or Tribunal relating thereto :our liability under this Guarantee being absolute and unequivocal.

The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment there under and the contractors) shall have no claim against us for making such payment.

We, (indicate the name of the Bank) _____ further, agree that the Guarantee herein contained shall remain in full force and effect during the period that _____ would be taken for the performance of the said Agreement and that it shall continue to be enforceable till all the dues of the Government under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till _____

Office/Department/Ministry of _____ certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said contractor(s) and accordingly discharge this Guarantee. Unless a demand or claim

under this Guarantee is made on us in writing on or before, the _____ we shall be discharged from all liability under this Guarantee thereafter.

We, (indicate the name of the Bank) _____ further agree with the Government that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligations here under to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractors) and to for bear or enforce any of the terms and conditions relating to the said agreement and we shall not be relived from our liability by reason of any such variation, or extension being granted to the said Contractor or for any for bearance, actor commission on the part of the Government or any indulgency by the Government to the said contractor(s) or by such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

This Guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s)/Supplier(s).

We, (indicate the name of the Bank) _____ lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Government in writing:

This Bank Guarantee submitted by the Bidder is unconditional in all cases. The Bank Guarantee / Security Deposit is valid for a period of 3 years from the date of acceptance of the equipment's/after training/signing the contract.

Dated the day of for (indicate the name)

BANK GUARANTEE FOR FURNISHING EMD/ BID SECURITY FOR STANDARD SURVEY GRADE UAV/DRONE

Whereas
(herein after called the "bidder")
has submitted their offer dated..... for the
supply of (herein
after called the "tender")
against the purchaser's tender enquiry No..... KNOW
ALL MEN by these presents that WE.....
ofhaving our registered office at
..... are bound unto
(Hereinafter called the "Purchaser) in the sum of.....
.....for which payment will and truly to
be made to the said Purchaser,the Bank binds itself, its successors and assigns by
these presents. Sealed with the Common Seal of the said Bank this.....day of
20.....

THE CONDITIONS OF THIS OBLIGATION ARE:

- (1) If the bidder withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.
- (2) If the bidder having been notified of the acceptance of his tender by the Purchaser during the period of its validity:-
 - a) If the bidder fails to furnish the Performance Security for the due performance of the contract.
 - b) Fails or refuses to accept/execute the contract.

WE undertake to pay the Purchaser upto the above amount upon receipt to fits first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or both the two conditions, specifying the occurred condition or conditions.

This guarantee will remain inforce upto and including 45 days after the period of tender validity and any demand in respect thereof should reach the Bank not later than the above date.

.....
(Signature of the authorized officer of the Bank)
.....

Name and designation of the officer

Seal, name & address of the Bank and address of the Branch

APPENDIX VI B

BANK GUARANTEE FOR FURNISHING EMD/ BID SECURITY FOR PROFESSIONAL SURVEY GRADE UAV/DRONE

Whereas
(herein after called the "bidder")
has submitted their offer dated..... for the
supply of (herein
after called the "tender")
against the purchaser's tender enquiry No..... KNOW
ALL MEN by these presents that WE.....
ofhaving our registered office at
..... are bound unto
(Hereinafter called the "Purchaser) in the sum of.....
.....for which payment will and truly to
be made to the said Purchaser, the Bank binds itself, its successors and assigns by
these presents. Sealed with the Common Seal of the said Bank this.....day of
20.....

THE CONDITIONS OF THIS OBLIGATION ARE:

- (3) If the bidder withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.
- (4) If the bidder having been notified of the acceptance of his tender by the Purchaser during the period of its validity:-
 - a) If the bidder fails to furnish the Performance Security for the due performance of the contract.
 - b) Fails or refuses to accept/execute the contract.

WE undertake to pay the Purchaser upto the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or both the two conditions, specifying the occurred condition or conditions.

This guarantee will remain inforce upto and including 45 days after the period of tender validity and any demand in respect there of should reach the Bank not later than the above date.

.....
(Signature of the authorized officer of the Bank)
.....
.....

Name and designation of the officer

.....
..... Seal ,name & address of the Bank and address of the Branch

Instruction to Bidders for e-tendering

The Special Instructions (for e-Tendering) supplement “General Instructions to Bidders”, as given in the Tender Document. Submission of online Bids is mandatory for this Tender.

For conducting electronic tendering, MoEFCC is using the portal <https://moefcc.euniwizard.com> of M/s ITI Ltd, a Government of India Undertaking.

1.0 Tender Bidding Methodology:

The offer should be submitted through e-tendering mode in the website <https://moefcc.euniwizard.com> containing two e-bid viz. Technical and Financial Bid. The Bids will be uploaded along with all signed and scanned documents those are required for particular tender.

2.0 Broad outline of activities from Bidders prospective:

- (i) Procure a Digital Signing Certificate (DSC).
- (ii) Register on e-wizard portal.
- (iii) View Notice Inviting Tender (NIT) on e-wizard portal.
- (iv) Download official copy of Tender Documents from e-wizard portal.
- (v) Bid-Submission on e-wizard portal.
- (vi) Attend Public Online Tender Opening Event (TOE) on e-wizard portal (vii) Opening of Financial-part (Only for Technical Responsive Bidders).

For participating in this tender online, the following instructions need to be read carefully. These instructions are supplemented with more detailed guidelines on the relevant screens of the e-wizard portal.

3.0 Digital Certificates:

It is mandatory for all the bidders to have class-III Digital Signature Certificate – Signing + Encryption (in the name of person who will sign the Bid) from any of the licensed Certifying Agency (Bidders can see the list of licensed CA’s from the link www.cca.gov.in) to participate in e-tendering.

4.0 Registration:

To participate in the e-tendering submission, it is mandatory for applicants to get registered their firm/company in e-tendering portal of ITI. <https://moefcc.euniwizard.com> to have user ID & password from M/s ITI Ltd., The Annual registration charges for vendors/suppliers are Rs.2000/+18%GST-per annum. The procedure for the registration is as under:

Go to the website <https://moefcc.euniwizard.com> In the home page, click on “Registration”

2) In the Vendor Registration form, vendor has to fill up the all mandatory applicant details. After submission of registration form, you will get the verification link on your registered mail id, after verification you log in your account with your user id and password and complete the all activity related to registration etc. Document uploading, paid registration fee, after completion of registration payment, you need to send your acknowledgement copy on our held desk mail id ewizardhelpdesk@gmail.com for activation of your account.

Please feel free to contact ITI Helpdesk (as given below) for any query related to e-tendering.

1. Helpdesk landline No: 011-49606060

2. Mr. Amrendra Kumar (90155315108), Mr.Sandeep kumar (09212512731)

