

### Bid Document

Bid Details	
Bid End Date/Time	25-07-2020 10:00:00
Bid Opening Date/Time	25-07-2020 10:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	30 (Days)
Ministry/State Name	Ministry Of Defence
Department Name	Department Of Defence
Organisation Name	Indian Army
Office Name	*****
Total Quantity	3
Item Category	Surveillance type unmanned aerial vehicle (Drone Camera)
Bidder Turnover (Last 3 Years)	4 Lakh (s)
Experience Criteria	3 Year (s)
MSE Exemption for Turnover	Yes
Startup Exemption for Turnover	Yes
Document required from seller	Experience Criteria *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
Bid to RA enabled	No
Inspection Required	No

### EMD Detail

Advisory Bank	State Bank of India
EMD Percentage(%)	0.50
EMD Amount	3975

### ePBG Detail

Advisory Bank	State Bank of India
ePBG Percentage(%)	2.00
Duration of ePBG required (Months).	3

(a). EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy.

(b). EMD & Performance security should be in favour of Beneficiary, wherever it is applicable.

**Beneficiary:**

Project officer

Agra, Department of Defence, Indian Army, Ministry of Defence

(Bikesh Chauhan)

**Splitting**

Bid splitting not applied.

1. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU / Public Listed Company for number of years as indicated in the bid document before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the year. In case of bunch bids, the category of primary product having highest value should meet this criterion.

**Surveillance Type Unmanned Aerial Vehicle (Drone Camera) ( 3 pieces )**

**Technical Specifications**

[\\* As per GeM Category Specification](#)

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
Construction	Overall Length (with propellers)	800	*
	Weight(net weight including battery & Payload)	2	*
	Type of Drone	Rotary Wing	*
	Overall Width (with propellers)	800	*
Compliance & Test	Product compliant & ready for DGCA & No-permission No-takeoff guideline	Yes	*

Importer or seller or manufacturer of RPAs has Equipment Type Approval (ETA) from WPC Wing, Department of Telecommunication that drone is working in de-licensed frequency band(s)	Yes	*
<b>Warranty</b>	1	1.0
manufacturing location of UAV	Made in India	*
UAV & manufacturer is in compliance with DGCA for CAR for UAV's published 27Aug 2018 *Latest	Yes	*
<b>Tested performances</b>	Aural Signature Test,High temperature test,Damp heat test	Aural Signature Test, High temperature test, Damp heat test
Availability Of Test Report From Central Govt/Nabl/Ilac Accredited Lab To Prove Conformity To Specification	Yes	*
Protection Class for Drone	IP 53	*
Classification of UAV as per DGCA regulation for Civil Aviation requirement in India	Micro	*
Protection Class for Backpack	IP 66	*
Manufacturer has Industrial licence for manufacturing drones	Yes	*
Incase of Imported product/Foreign manufacturer	NA	*
Equipment Type Approval (ETA) certificate number provided by from WPC Wing, Department of Telecommunication	-	*
Certificate number of Clearance from DGCA for imported goods	-	*
Import licence number	-	*

	provided from Directorate General of foreign Trade (DGFT)		
	Certificate number by Certifying Agency (for compliance to standard civil aviation requirement by DGCA)	-	*
	OEM/Reseller authorisation letter to be furnished on buyer demand	Yes	*
	All test report, licences & Certificates to be submitted on confirmation of order	Yes	*
Performance	Payload freedom(in flight) across verticle axis	360 degree	*
	Wind resistance (maximum)(Km/hr)	36-40	*
	<b>Operational endurance</b>	>=20 minutes	>=20 minutes
	<b>Advanced flight modes</b>	Autonomous, manual, mission, auto take-off, Position Hold & Survey, Remotely Piloted mode, Auto landing, Way point navigation	Autonomous, manual, mission, auto take-off, Position Hold & Survey, Remotely Piloted mode, Auto landing, Way point navigation
	Minimum Operating temperature	-10	*
	<b>Nominal Cruise speed(meter/second )</b>	8-10	8-10
	Target detection slant range(Human Size Target)(Thermal)	>=250m	*
	Payload freedom(in flight) across horizontal axis	90 degree	*
	<b>Operational Altitude (above ground level)</b>	>=200m	>=200m
	<b>Minimum Radius Range covered from line of sight(for live transmission)</b>	2	2.0
	Video transmission during flight operation	Realtime	*

	Maximum Operating temperature	50	*
	<b>Minimum Technical life of UAV (number of landings)</b>	500	500
	Target detection slant range(Human Size Target)(Day light)	>=400m	*
	Maximum Vertical avaiation speed(meter/second)	2	*
	Launch Altitude (above mean sea level)	>=3000m	*
GUI display parameters	Realtime video on-screen display parameters	UAV co-ordinates,target (payload) co-ordinates & range from UAV,true north indication,distance from home,Artificial horizon indicating UAV attitude,Target tracking,Moving target Indicator	*
	Surveillance parameters displayed	Geographic map,UAV location,UAV trajectory,camera view polygon,way points,flight plans	*
	<b>Image system provided</b>	Day Light	Day Light
Imaging System	<b>Imaging System resolution (Day light)</b>	1280*720 pixel HD	1280*720 pixel HD
	Optical Zoom-in capicity	5X	*
	Thermal imager Slot compatible	Yes	*
	Imaging System resolution (Night)	320*240 pixel	*
	<b>Live transmission quality definition</b>	HD	HD
User Control	User controlled attribute	Set altitude of UAV,Way point navigation,Dynamic flight plan adjustment,point payload to ground co-ordinate function,Turn off recording	*

Generic	video recorded format on the gcs	Mp4	*
	User controlled flight functionality	Take off,Land,Hover,Tilt ,Zoom In/Out	*
	On-flight captured modes	Video,Image snapshot,Thermal Imaging	*
	<b>Spare propellers provided</b>	NA	NA
	Rated Voltage	30	*
	Video Stablization mechanism	Mechanical Image stabilization,Electronic Image stabilization	*
	Control System	Fully Autonomous	*
	Ground Controlled software system for control provided	Yes	*
	Port Data transfer to GCS hardware	USB	*
	Data recording	Hard disk	*
	Packing & Storage for housing all systems	Water proof backpack	*
	Propulsion of UAV powered through	Battery Powered	*
	Data recording setup card	Inbuilt in User Control device	*
	Type of Battery embedded	LiPo	*
	Maximum required operating crew	2	*
	Failsafe features	return to home on communication failure,return to home/land on low battery,multiple GPS on-board for GPS failure redundancy,high wind indication,anti collision light,Global satellite system,Autonomous flight termination system,fire resistant Identification plates,return to home on high wind	*
	Rated ampere, mAh	3000	*
	<b>CompatibleHardware provided with</b>	NA	NA

	<b>installed GCS</b>		
	Map compatibility	Google,Raster,open source,Tiff,Giff,BIT,DTE D	*
	Laptop/Tablet type	NA	*
	Training Provided	No	*
	Number of Spare Battery	NA	*

\* Specifications highlighted in bold are the Golden Parameters.

\* Bidders may note that In respect of non-golden Parameters, the specifications 'Values' chosen by Buyer will generally be preferred over 'Bid requirement ( allowed Values) by the Buyer.

### Additional Specification Documents

### Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	*****	*****AGRA	3	30

### Bid Specific Additional Terms and Conditions

1. 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.
2. SLBR52
3. 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. Availability of Service Centres: Bidder/OEM must have a Functional Service Centre in the State of each Consignee's Location in case of carry-in warranty. (Not applicable in case of goods having on-site warranty). If service center is not already there at the time of bidding, successful bidder / OEM shall have to establish one within 30 days of award of contract. Payment shall be released only after submission of documentary evidence of having Functional Service Centre.

[This Bid is also governed by the General Terms and Conditions](#)

---Thank You---