

### Bid Document

Bid Details	
Bid End Date/Time	20-07-2020 20:00:00
Bid Opening Date/Time	20-07-2020 20:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	30 (Days)
Ministry/State Name	Rajasthan
Department Name	Rajasthan Revenue Board
Organisation Name	N/a
Office Name	District Election Officer Bhilwara
Total Quantity	1
Item Category	Surveillance type unmanned aerial vehicle (Drone Camera)
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Document required from seller	Certificate (Requested in ATC), OEM Authorization Certificate *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

Required	No
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### ePBG Detail

Required	No
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### Splitting

Bid splitting not applied.

**Surveillance Type Unmanned Aerial Vehicle (Drone Camera) ( 1 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	Micro	*

	per DGCA regulation for Civil Aviation requirement in India		
	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	Autonomous, manual, mission, auto take-off, Position Hold & Survey, Remotely Piloted mode, Auto landing, Way

		landing,Way point navigation	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 capacity	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	*
	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	*
Generic	<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 installed GCS</b>	NA	NA
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	Gaurav Somani	311001,DISTRICT ELECTION OFFICER COLLECTORATE BHILWARA	1	15

### Bid Specific Additional Terms and Conditions

1. Scope of supply (Bid price to include all cost components) : Supply Installation Testing and Commissioning of Goods

2. 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.
3. 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.
4. Escalation Matrix For Service Support : Bidder/OEM must provide Escalation Matrix of Telephone Numbers for Service Support.
5. Dedicated /toll Free Telephone No. for Service Support : BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.
6. Successful bidder will have to ensure that adequate number of dedicated technical service personals / engineers are designated / deployed for attending to the Service Request in a time bound manner and for ensuring Timely Servicing / rectification of defects during warranty period, as per Service level agreement indicated in the relevant clause of the bid.
7. Warranty period of the supplied products shall be 2 years from the date of final acceptance of goods or after completion of installation, commissioning & testing of goods (if included in the scope of supply), at consignee location. OEM Warranty certificates must be submitted by Successful Bidder at the time of delivery of Goods. The seller should guarantee the rectification of goods in case of any break down during the guarantee period. Seller should have well established Installation, Commissioning, Training, Troubleshooting and Maintenance Service group in INDIA for attending the after sales service. Details of Service Centres near consignee destinations are to be uploaded along with the bid

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

**---Thank You---**