

GOVERNMENT OF ARUNACHAL PRADESH
OFFICE OF THE DIRECTOR GENERAL OF POLICE
ITANAGAR

NO.PHQ (Prov) - 08 /2019-20 (PT-II)

Dated Itanagar, the 30th January, 2020.

LIMITED TENDER NOTICE

1. Director General of Police, Arunachal Pradesh, invites sealed tender on plain paper in two bid system (Technical Bid and Price Bid) from the manufacturers, authorized agents and dealers of reputed firms for entering into contract for supply of the following items to Arunachal Pradesh Police during the year 2019-20. The sealed tenders will be received up to 1100 hrs on **18/ 02/2020** which will be opened at 1130 hrs on the same day. The tender value is Rs. 6.50 lakhs approx. The tenderers or their authorized representatives may remain present at the time of opening of tenders. The tenders received after scheduled date and time will not be entertained.

SI No.	Name of Item	Technical Specifications	Proposed quantity
1	Unmanned Aerial Vehicle (Drone) With accessories	<p>1. UAV weight with battery and standard payloads. : < 2 kg</p> <p>2. UAV size with propeller : < 1m x 1m</p> <p>3. Endurance/Flight time : 20-25 minutes with payload (s) (Upto 1000 AMSL)</p> <p>4. Range for Live transmission : 2 KM (Radius)</p> <p>5. Typical Cruise Speed : 7 m/s</p> <p>6. Operating altitude (AGL) : 200m AGL (Above Ground level)</p> <p>7. Maximum Launch altitude (AMSL) : 3000m AMSL (Above mean sea level)</p> <p>8. Functional Temperature Range : 0 degree C to + 40 degree C</p> <p>9. Wind Resistance : Minimum 12.5 m/s(45 kmph or 24.3 knots)</p> <p>10. Failsafe feature :</p> <p>a) Return to home on communication failure</p> <p>b) Return to home/land on low battery or battery issues.</p> <p>c) Return to home on high winds (more than 12.5 m/s)</p> <p>d) Multiple GPS on board for GPS failure redundancy.</p> <p>11. Autonomy : Fully autonomous from Take –off to landing without using any remote controller.</p> <p>12. Payload characteristics : HD (1280 x 780) quality with 3 x optical zoom video payload, 1 axis gimbal.</p> <p><u>Ground control Station (GCS) Software Feature</u></p> <p>13. Flight modes :</p> <p>a) Altitude hold</p>	02 nos

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		<p>b) Hover at defined waypoint c) Autonomous Waypoint Navigation (pre-defined as well as dynamically adjustable waypoints during flight. d) Remotely piloted mode for video- based navigation (RPV Mode)</p> <p>14. GUI Display parameters : a) Geographic Map alongwith 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 UAV co-ordinates, target (payload) co-ordinates and range from UAV, true North direction, Distance from Home, etc. c) Real-time video displayed at all times during flight d) Artificial Horizon indicating UAV attitude.</p> <p>15. Maps : a) Capability of working with Google Maps and/or other available open –source maps. Application should have the capability to download maps automatically after specifying location GPS co-ordinates. b) Capability to integrate geo-referenced roster maps provided in at least one of the commonly used digital map formats (gif, tiff etc.)</p> <p>16. User Controls : a) one –click Take-off/Land/Hover. b) Set altitude of the UAV. c) Waypoint navigation. d) Dynamic flight plan adjustment. e) Point payload to ground co-ordinate function. f) RPV Mode allowing UAV to be flown in semi-autonomous mode by looking at the on-board video.</p> <p>17. Joystick Controls : a) Full camera controls Pan/Tilt & Zoom In/Out b) RPV mode c) Altitude control</p> <p>18. Video : Video recording in commonly portable video format (AVI/MP 4 etc.) on the GCS.</p> <p>19. Pre-flight Checks : Capability to perform pre-flight checks of the complete system before every flight for confirming the suitability of flight worthiness.</p> <p><u>Communications link Characteristics</u></p> <p>20. Communication like : Secure Communication link between UAV and GCS with minimum 128 bit encryption</p> <p>21. Frequency Band : 2.4 GHz or 5 GHz u-link and down link. 22. Warranty : 12 months</p>	
2	Spare parts	<p>1. Propeller Set – 1 set of 2 propellers</p> <p>2. Landing Gears – 1 set of 2 landing gears</p>	<p>2 sets</p> <p>2 sets</p>

2. All the tenders must be accompanied with Earnest Money of Rs. 13,000/- (Rupees thirteen thousand) only. Tenders without the Earnest Money will be summarily rejected. The tenderers are required to pledge National Saving Certificate/ Kishan Vikash Patra/ TDR/FDR/Demand draft etc. of Nationalised Bank/Post Offices in the form of Earnest Money/Security Money in the name of the Head of Office i.e. AIGP (E) from which the work is being allotted to them.

3. The tenders must accompany with valid attested copy of GST Registration certificate.

4. The tenders must also accompany with valid license for trading of the tendered item.
5. The letter of authority of OEM in respect of authorized distributors/dealership must be furnished alongwith the tender.
6. The Drone should be DGCA approved and documentary proof be submitted.
7. The Drone should be NPNT (No Permission No Take off) compliant by DGCA and documentary proof be provided.
8. The tenderer should submit documentary proof of previous experience of supply and training of similar products.
9. The drone should have end to end encryption. The OEM should submit certificate that the Unmanned Aerial Vehicle (Drone) is end to end encrypted.
10. Tender should be quoted in two bid system, Part –I technical bid and Part-II price bid and should be kept in separate sealed covers. Price should not be indicated in the technical bid. (Rate should be quoted in Indian currency).
- a) Financial bids shall be opened only of those bidders who have been declared technically qualified by the committee.
11. The tenderer should quote for one model only. Offer/quotation for more than one model will not be considered. Technical compliance statement should be submitted alongwith the tender clearly specifying deviation, if any, for all the specifications mentioned above. The tenderers should submit detailed specifications of the item alongwith the catalogue (Original)/ Booklets/ Literature/ Photographs etc. All the firms who will qualify in technical compliance statements have to present the Unmanned Aerial Vehicle (Drone) for demonstration on the date which will be intimated to the qualified tenderers.
12. The rates should be quoted in the tenders/quotations for the item (s) and GST separately. The rates also should be quoted for F.O.R. Central Stores, PHQ, Itanagar. Rates quoted other than F.O.R Central Stores, PHQ Itanagar shall not be accepted. No packing or forwarding charges will be allowed. The rates should be quoted both in figure and in words clearly.
13. Tenders should be addressed to the Asstt. Inspector General of Police (E) by designation and not by name. The separate sealed envelope containing Technical Bid and Financial Bid should be subscribed as **"Tender for supply of Unmanned Aerial Vehicle (Drone) for Arunachal Pradesh Police for the year 2019-20** and be sent by Registered Post/courier or be put in the tender box kept in the office of the Deputy. Supdt. of Police (Prov), PHQ, Itanagar during office hours. ***The tenders received after scheduled date & time will not be entertained.***
14. Successful tenderers will be required to deposit 5% of the total value of the articles to be supplied as security money within 7 days from the date of issue of letter of acceptance of tender. The successful tenderers will have to enter into a "DEED OF AGREEMENT" stipulating the Terms and Conditions of the contract. Security money will be subject to forfeiture in case of non-fulfillment of any or all the Terms and Conditions of contract. Earnest Money of the successful tenderers will be forfeited to the Government in case of failure to furnish security money and execution of "DEED OF AGREEMENT". The security deposit will remain in the custody of the Arunachal Pradesh Police, PHQ, Itanagar during warranty period.
15. Successful tenderers will have to supply the items within 30 days from the date of issue of supply order/deed of agreement failing which 5% of the total value of the articles to be supplied will be forfeited and supply order cancelled. The stores supplied must be of the same specifications and quality as per the tender.

