

GOVERNMENT T OF ARUNACHAL PRADESH
OFFICE OF THE DIRECTOR GENERAL OF POLICE
POLICE HEADQUARTERS: ITANAGAR

No. PHQ (Prov) 01/ 2023-24.

Dated Itanagar, the *31st* Jan , 2024.

TENDER NOTICE – CUM – TERMS AND CONDITIONS

On behalf of the Governor of Arunachal Pradesh, Director General of Police, Arunachal Pradesh invites Sealed Tender under two Bid systems (Technical Bid & Financial Bid) from the manufacturers, authorized agents/ dealers/suppliers of reputed firms for entering into contract for supply of Drones for Crowd Monitoring & Surveillance Crime Scene, Live Events etc., for Arunachal Pradesh Police during 2023-24. For details, please visit our web site-www.arunpol.nic.in. and website - arunachaltenders.gov.in.

1.

Sl. No.	Description of items to be procured	Approx. Cost of tender	Earnest money required	Tender Fee (Nonrefundable)
1.	Procurement of Drones for Crowd Monitoring & Surveillance Crème Scene, Live Events etc., for Arunachal Pradesh Police during 2023-24. (Detail Specifications attached at Annexure -A)	Rs. 50,00,000/-	Rs. 1,00,000/-	Rs. 1,000/-

2. **Critical date sheet:**

Sl.	Particulars	Date	Time
1.	Date of publication of Tender	01/02/2024	
2.	Bid submission start date	From the date of publication onward	
3.	Bid submission end date	22 /02/2024	1100 hrs.
4.	Physical submission of earnest Money deposit/Bid Money and cost of Tender Documents (Tender fee).	With technical bids. However, the tenderer who want to obtain tender document from PHQ, Itanagar, tender fee (Bank Draft in favor of AIGP (E), PHQ, Itanagar payable at SBI, Itanagar) may be furnished at the time of obtaining the tender documents.	
5.	Date of Technical bid opening	22 /02/2024	1130 hrs.

3. The Tender documents must be provided in two (02) covers:

1. **Cover-1:** It shall contain scanned copies of eligibility information as under.

- a) Tender fee should be attached, in case the documents downloaded from website tender fee in form of BD/DD should be attached along with Technical Bid.
 - b) Valid attested copy of Trading license / Company / Firm Registration Certificate issued by competent authority for the tendered items.
 - c) Attested copy of firm GST Registration.
 - d) Attested copy of PAN Card.
 - e) Approval of DGCA and NPNT compliant for Drone should be attached.
 - f) Original letter of authority in respect of authorized distributors / dealership or Manufacturer Certificate (OEM) etc.
 - g) Technical bid along with its specification and original leaflets, brochure, catalogue / literature, if any of each tendered item.
 - h) Latest financially soundness certificate / Bank Solvency Certificate/ CA. Certificate or audited balance sheet for financial year 2022-23.
 - i) Technical compliance statement should be enclosed along with technical bid clearly specifying deviation, if any for all specifications mentioned in the tender
 - j) Undertaking letter about non-blacklisting of the firm/ OEM.
 - k) Undertaking letter of supply of spare and service for next 5 (five) years.
 - l) Year of firm's registration. Firm should be in business for minimum three years (Declaration certificate should be attached.
 - m) Tender documents duly completed and signed BUT without indication of the rates "Quoted".
 - n) Earnest Money (EMD) must be attached in form of TDR/FDR/Demand Draft/NSC/KVP etc. of Nationalized Bank/Post offices duly pledged in favour of Asstt. Inspector General of Police (E), PHQ, Itanagar. However, NSIC / SSI / UAM- MSME certificate, applicable to those who are seeking exemption from EMD.
 - o) The bidder or its OEM must be a manufacturer of the item. An undertaking to this effect must be given.
 - p) The tenderer (Agent/ Dealer) should furnish full name and clear address of the manufacturing unit vis-a-vis the product they intend to supply. In case of failure to do so, their bid/ offer is liable to be rejected.
 - q) The tendering firms should enclose with technical offer, users list if any organization/ Department etc. to whom the equipment have already been supplied. **Satisfactory performance certificate issued by the user department should be attached.**
- 2. Cover-2:** It shall contain documents on "Financial Bid / Price Bid".
- a) Rates must be clearly written in figures as well as in words, Showing GST separately.

- b) Offers with such stipulation like "as applicable" will be treated as vague and are liable to be ignored.
- c) Financial bids shall be opened only of those bidders who have been declared technically qualified and whose product found suitable in demonstration.

GENERAL INSTRUCTION:

1. The tenders received after scheduled date & time will not be entertained. The tenderers or their representative may remain present at the time of opening of tenders.
2. There should not be any cutting / over writing.
3. The Tenderer / Firms who fail to fulfill the eligibility conditions will be summarily rejected.
4. The firms will have to submit all required documents (as mentioned in cover-1) including EMD, cost of Tender documents in the office of Assistant Inspector General of Police (E), Police Head Quarter, Itanagar, Arunachal Pradesh on **22 /02/2024 at 1100 hrs.**
5. In case tender opening day is declared as holiday or bandh call at Itanagar, the tenders shall be received up to next working day till 1100 hrs. and opened on the same day at 1130 hrs.
6. Only those firms are eligible for submission of tender bids which have been **in business at least for three years.**
7. **The details of Earnest Money Deposit (EMD):**
 - A. Earnest Money Deposit.
 - a) The Earnest Money Deposit shall be retained by the purchaser till submission of Security Deposit.
 - b) No interest will be payable for the EMD and SD by the purchaser.
 - c) The EMDs of unsuccessful bidders will be returned after opening the financial bids.
 - B. Forfeiture of Bid Security / EMD:
 - a) If the bidder withdraws the bid after Bid opening during the period of bid validity.
 - b) In case of a successful bidder, if the bidder fails within the specified time limit to sign the Contract Agreement; or
 - c) A successful bidder fails to furnish the 5% of P.O. value as performance Security at the time of signing the Contract Agreement.
8. **Performance Guarantee:**
 - a) Successful tenderers will be required to deposit 5% of the total value of the Contract price as performance security money "or" Performance Guarantee within 15 days from the date of issue of letter of acceptance of tender for the warranty period. The Performance Guarantee has to be drawn in the name of Asstt. Inspector General of Police (E), PHQ, Itanagar payable to SBI, Itanagar, O/o the Director General of Police, Arunachal Pradesh. The same Performance Guarantee will be returned only after completion of the Warranty Period.
 - b) **Conditions:** If the tenderer who fails to supply the material / perform the task assigned to him in the purchase order, within the period prescribed for such delivery specified


above, the AIGP (E) or other competent authority, shall be entitled at his discretion to the actions as under:

- i) Graded liquidated damages for delay in delivery of all or any good or performance of services will be liable for as under:
 - a. For first 15 days @ 1% of the value of the goods.
 - b. For next 15 days @ 2% of the value of the goods.
 - c. For delay of 1 month/over & up to 2 mts @ 4% of the value of the goods.
 - d. Beyond 2 months and up to 4 months @ 5%, of the value of the goods & on expiry of 4 months the contract would automatically get nullified and Bank Guarantee would be invoked.
 - ii) If the tenderer fails to deliver the material as per terms and conditions of P.O. within the stipulated period, the P.O. will be cancelled and will forfeit the EMD/ Security Deposit. Further, the successful tenders will have to enter into a "DEED OF AGREEMENT" stipulating the Terms and Conditions of the contract with the AIGP (E), PHQ, Itanagar.
9. **Guarantee / Warranty:** The Supplier shall provide 2 (two) year Warranty for the equipments mentioned in the Contract from the date of installation as specified in the tender schedule.
- a) During warranty period, in case of local service centers complaints should be attended within 05 days and in case of out-station service centers complaints should be attended within 10 days.
10. Tendering firms should mention names and addresses of the authorized service centers in India from where quoted equipments can be serviced. **However, preference will be given to firms having Service Centers in Arunachal Pradesh.**
11. The tendering firms should ensure that they will make available consumables and spares at least 05 years from the date of expiry of guarantee period.
12. The tendering firms should enclose with technical offer, users list if any organization/ Department etc. to whom the equipment have already been supplied. **Satisfactory performance certificate issued by the user department should be attached.**
13. **The tenderer (Agent/ Dealer) should furnish full name and clear address of the manufacturing unit vis-a-vis the product they intend to supply.** In case of failure to do so, their bid/ offer is liable to be rejected.
14. **Delay in the Suppliers performance:** Delivery of the Goods and performance of services shall be made by the supplier in accordance with the time schedule specified by the purchaser in its Schedule of Requirement. All unexcused delay by the supplier in the performance of its delivery obligations shall render the supplier liable to forfeiture of its performance security bank guarantee, imposition of liquidated damages and or termination of the contract for default.
15. The buyer will not pay for transit insurance. The bidder will be responsible until the entire consignment reaches the location as mentioned in the P.O. in good condition.
16. In case of any breach of contract, Terms of Agreement and Purchase Order and its conditions, the decision of the AIGP (E), PHQ, Itanagar is final and binding on the bidder. In case of any dispute, the matter can be referred to competent Court at Itanagar only and not anywhere else.

17. The bill of cost should be submitted in triplicate to this office duly showing Account Numbers IFSC Code of the firm where he holds Bank account and further showing the Tax components separately with all required documents for arranging necessary payment.
18. The bidders should keep checking the website for any added / corrigendum to the notice / bidding documents till the date of submission of bids and the bidder should incorporate the same in his bid documents.
19. Conditional bids and the bids not meeting the qualifying criteria on the date of receipt of bids shall be summarily rejected.
20. The department will not be responsible for delay in submission due to any reason(s).
21. The tender papers containing full details with specifications and terms and conditions can be obtained from Dy. Superintendent of Police (Provisioning), PHQ Itanagar, on payment of tender fee of Rs. 1000/- (Non-refundable through a bank draft in favour of the Asstt. Inspector General of Police (E), PHQ, Itanagar, Arunachal Pradesh payable at S.B.I. Itanagar on any working day from 0930 hrs to 1600 hrs w.e.f. **01/02/2024 to 21/02/2024**. The tender documents may also be download from our website. The tenderers downloading the documents from website are also required to submit a Bank Draft of Rs. 1000/- as tender fees. No other mode of payment will be accepted.
22. Rate should be quoted F.O.R Central Store, PHQ, Itanagar. Rates quoted other than F.O.R Central Store, PHQ, Itanagar shall not be accepted. No packing or forwarding charges will be allowed. The rate of GST (as applicable) may be charged / quoted by the tenderers and the amount be clearly mentioned for all items. The rate should be quoted in Indian currency both in figure and words clearly. Tenders must be eligible and clear in all respect else the tenders shall be liable to be rejected.
23. Tenders should be addressed to the undersigned by designation and not by name. The separate sealed envelope containing the tender should be subscribed as "Tender for supply of Drones for Crowd Monitoring & Surveillance Crème Scene, Live Events etc., for Arunachal Pradesh Police.
24. Arunachal Pradesh" and sent by Registered Post/Speed Post/Courier Service or put in the Tender Box kept in the office of the undersigned (Provisioning Branch) on any working day from 0900 to 1700 hrs. **The tenders received after scheduled date & time will not be entertained.**
25. Delivery of the stores will have to be completed within 45 days from the date of issue of firm order. In case of failure to supply the items in time, violation of any provision of Deed of Agreement, the firm is liable to be blacklisted.
26. If any item is found damaged or otherwise unacceptable at the time of delivery/inspection, the supplier will be required to remove the same from Central Store, PHQ, Itanagar, Arunachal Pradesh at their own cost within 15 days.
27. Payment will be made to the supplier directly only after receipt, installation and acceptance of items by the Board. Documents/vouchers/R.R. S bill etc. routed through bank will not be accepted.

28. The Director General of Police, Arunachal Pradesh, Itanagar reserves the right to reject the lowest or all or any of the tenders without assigning any reason thereof.
29. All the technically qualified firms should have to demonstrate their Drones for final selection before opening of price bids. The date for demonstration will be intimated in due course of time.
30. **The detail specifications of Drone for Crowd Monitoring & Surveillance Crime Scene, Live Events Video Streaming/ Unmanned Aerial Vehicle (UAV) to PHQ are enclosed at Annexure- A.** The quantities mentioned in the enclosure are all approximation and subject to variation as per actual availability of funds.
31. Tenders will remain valid up to **31-03-2025**.
32. The vendor/ firm shall submit undertaking to provide after sale services of items / parts to be supplied for minimum period of 5 (five) years from the date of supply of items on an optional AMC ('Annual Maintenance Contract Basis')
33. In case of any query tenderers may contact at following phone no./mail ID.

Officers	Telephone	E-mail ID
Asstt. Inspector General of Police (E), PHQ, Itanagar	9436040005 (Mobile)	Arpolice@rediffmail.com.
Dy. Superintendent of Police (Prov), PHQ, Itanagar	8119086994 (Mobile)	arpolice@rediffmail.com.


Asstt. Inspector General of Police (E)
Police Head Quarter
Itanagar

Specifications for Drone for Crowd Monitoring & Surveillance Crime Scene, Live Events Video Streaming / Small Unmanned Aerial Vehicle (UAV)


Quantity of Drone to be procured – 4 Nos.

SL No.	Parameter	Specification		
1	UAS As System	a.	Aerial Vehicle	01
		b.	Ground Control System	01
		c.	Remote Video Terminal	01
		d.	Day & Night Cameras	01 each
			or, Integrated both day and night cameras in one payload case (as per user requirement)	01
		e.	Data link Equipment / Antenna	01
		f.	Battery for each Aerial Vehicle	04
		g.	Water resistance (IP66) back packs to carry UAS	03
		h.	Rugged, compact and lightweight transportation box	02
2	Aerial Vehicle (AV)	a.	Air frame should be made of composite material, rugged, durable, and robust.	
		b.	The parts should be modular and easy to replace / maintain.	
		c.	Fitment, removal and / or replacement of sensors/payload should be simple and easily executable in field conditions.	
		d.	Suitable battery charger using normal commercial supply to charge the batteries.	
		e.	The Aerial vehicle should have the capability to operate during day and night.	
3	Weight	a.	Maximum Takeoff weight – As per DGCA guidelines for small UAV.	
		b.	The system should be packable in three backpacks. Aerial Vehicle- 01 Ground Control System- 01 Remote Video Terminal- 01 Data link equipment/Antenna- 01 Day and Night cameras- 01 each (total- 02) Battery / Battery set for aerial vehicle- 04 Waterproof (IP66) backpacks- 03	
4	Launch and Recovery	Vertical Takeoff and landing (VTOL) within the area of 25 X 25 meter.		
5	Deployment time	Not more than 20 minutes.		
6	Aural signature	≤ 40 dB @ 300 meters AGL (Above Ground Level)		
7	Wind speed	The AV should be able to Takeoff, Land and fly upto the wind speed of 16-20 knots.		
8	Propulsion	The AV should be powered by battery.		
9	Operational Endurance	160 Minutes with minimum loiter time of 40 minutes (each battery) at full range with max payload up to launch altitude of 1000 meter above mean sea level.		

10	Mission Range	Minimum 2-4 Km			
11	Altitude	a.	Minimum Operational Altitude: 120-200 meter AGL (Above Ground Level)		
		b.	Max Launch Altitude: 3000 meter AMSL (Above Mean Sea Level)		
12	Temperature	Starting, Operating and Storage Temperature- From Minus 5°C to Plus 55°C			
13	Flight Modes	The AV should be able to operate in following modes-			
		a.	Fully Autonomous Mode		
		b.	Semi-Autonomous Mode		
		c.	Loiter Mode		
		d.	Target tracking Mode		
		e.	Return to home mode, way point mode		
14	Payload	a.	The payload should have Gyro based stabilized cameras.		
		b.	Single payload assembly housing for day / night camera. or Integrated both day and night camera in one payload case. (As per user requirement)		
		c.	Payload should not be damaged during rough landings.		
		d.	Locking and auto tracking of the selected target in the video imagery.		
		e.	360° pan and 90° tilt control during flight for Day and Night payloads independent of "YAW" movement of the UAV.		
		f.	UAV should transmit real time imagery to GCS <u>Day payload</u> – i. 2 to 4 Km – 1280 x 720p or better <u>Night payload</u> – i. 2 to 4 Km – 640 x 480 or better		
		g.	Capabilities of payload		
			Parameter	Night Payload	Day Payload
			Resolution (Minimum)	640 x 480 Pixels of better	1280 x 720 Pixels or better
			Digital Zoom	4X or more	4X or more
			Optical Zoom	-----	10X or more
	FOV	-----	≥45°		
15	Target Detection, Recognition, Identification (Minimum Slant range)	The system must be able to detect, acquire and designate targets up to maximum mission range of 2 to 4 Km in following criteria:			
		Payload	Vehicle size (1 x 1 meter)	Group of 3-4 people	
		Day payload			
		Detection	2000 meter	1000 meter	
		Recognition & Identification	500 meter	600 meter	
		Night payload			
		Detection & Recognition	1250 meter	300 meter	

16	Ground control station (GCS)	a.	The GCS should be portable, MIL-STD-810G or better. Rugged IP65 tablet / laptop, minimum display size 10" or more or Semi-rugged IP52 tablet / laptop, minimum display size 10" or more, latest processor (As per user requirement)
		b.	Battery backup upto 2-3 Hrs.
		c.	Suitable battery charger using normal commercial supply.
		d.	It should be able to control all aspects like pre-flight checks, self tests, control of takeoff / landing and payloads.
		e.	Digital Mass storage: 1 TB for laptop or 200 GB for Tablet.
		f.	The laptop or tablet should have sunlight readable, touch screen.
		g.	It should facilitate recording and playback of data.
		h.	In flight, change of flight plan or waypoint.
		i.	Suitable ports should be provided for taking the data.
		j.	It should be capable of storing 100 or more flight routes with each route having capacity to configure minimum 70 waypoints.
		k.	The software should have following mission information: <ul style="list-style-type: none"> i. Coordinates of target ii. AV position iii. Distance of AV from GCS iv. Air speed v. Mission Time vi. Payload looking angle vii. Communication link status viii. GPS status ix. Health status of AV battery
17	Map Formats	a.	Should have the capability to integrate geo-referenced raster maps provided in at least one of the commonly used digital map formats (GIF, TIFF, DTED and SRTM etc.)
		b.	Ability to display 3D maps with the digital terrain data provided. Option to switch between 2D and 3D maps in real time.
18	Remote Video Terminal (RVT)	a.	It should be minimum 10 inches tablet, must be MIL-STD-810G or more, compact, light weight and portable wrist/chest mountable / tablet gadget. (As per user requirement)
		b.	UAV should be able to transmit video to RVT at a minimum distance of 3 Km or more from UAV.
		c.	RVT to have capability to display video, map and OSD (On screen display) similar to GCS.
		d.	Capable to record, playback and freeze the imagery received from AV.
		e.	RVT should have sunlight readable and touch screen.

19	Data link	a.	Secure communication links between Air Vehicle and Ground control station with minimum 128 bits encryption.	
		b.	Should operate on S-band and/ or C-band frequency for uplink and downlink preferably on license free band i.e. 2.4GHz or 5.8GHz.	
20	Failsafe features	a.	In case of communication loss during flight, the system should automatically change to recovery mode after 10 seconds, till such time UAV should remain on its flight path.	
		b.	Automatic Return to Home / Land on low battery.	
		c.	Multiple GPS on-board for GPS failure.	
		d.	There should be facility for on board light to facilitate visual signature for recovery, the operation of which should be GCS controlled.	
21	Miscellaneous	a.	The comprehensive warranty of the UAS	2 years
		b.	Total technical life (TTL)	5 yrs or 1000 landings
		c.	Life of AV battery	200 charging cycles or 2 Yrs, which is earlier


Asstt. Inspector General of Police (E),
Police Headquarters, Itanagar
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