

QUOTATION CALL NOTICE

(Revenue Section)

No. 4901 /Rev., Dated. 11/04/2023

Sealed quotations/Tenders having valid GST Registration Certificate are invited in the prescribed format (Given in Annexure-I & Annexure-II) from interested reputed agency for providing Drone survey on hiring basis to be used for creation of a library folder of drone footage taken on a daily basis at three different hours of the day and to ensure that these footages are preserved for a construable length of time to aid effective monitoring up to 200 meter (may be extended up to 1 KM) from HTL in Chilika lake under Khordha district under the disposal of Tahasildar, Tangi and Chilika as mentioned hereunder.

Sl. No.	Type of equipment	No. of equipment	No. of operator	Scope of work
1	Drone survey	2 (one for each Tahasil)	2 (one for each Tahasil)	3 different hours of the day with duration of 1 hour in each flight for each camera

The terms and conditions (Annexure-II) for use of these drone survey up to 200 meter (may be extended up to 1 KM) from HTL in Chilika lake under Khordha district under the supervision and disposal of Tahasildar, Tangi and Chilika on monthly rent basis.

1. The drone survey shall be used for creation of a library folder of drone footage taken on a daily basis at three different hours of the day and to ensure that these footages are preserved for a construable length of time to aid effective monitoring up to 200 meter (may be extended up to 1 KM) from HTL in Chilika lake under Khordha district under the disposal of Tahasildar, Tangi and Chilika.
2. Two drone cameras will be deployed (one for Tangi Tahasil and another for Chilika Tahasil) to capture high resolution videograph/ photograph in 3 different hours of the day with duration of 1 hour in each flight for each camera.
3. The drone shall not be older than 1 years from the date of initial agreement and must have valid Registration Certificate, Insurance Certificate and proof of up to date tax payment etc.
4. The selected agency of drone survey preferably empanelled under ORSAC to operate the drone and should be experienced in operating the same.
5. The drone operator shall be worked under the supervision of Tahasildar, Tangi/Chilika.
6. The drone operator should be well behaved, gentle and obedient in nature. The mobile number of the operator so engaged by the successful bidder should be

available and open all times, so that he can be informed during emergency time as and when required.

7. A sum of Rs.10,000/- shall be deposited by the intending agency in shape of Account Payee Bank Draft drawn in favour of the Collector, Khordha submitted along with the quotation as security deposit. After completion of quotation process, the amount will be refunded to unsuccessful agencies.
8. The selected agency will produce the valid ID proof of the drone operators.
9. The monthly rate of hire charges for two cameras are to be quoted separately in the general quotation information.
10. The sealed quotation completed in all respect should reach to the undersigned on 19.04.2023 before 03.00 PM by speed post/registered post addressed to Deputy Collector Revenue Officer, O/o the Collector & D.M, Khordha. The agency must write on the top of the envelope "**Quotation for hiring of drone survey**" and shall be opened on the 19.04.2023 at 04.00 PM in presence of the agencies or their authorized representatives. No quotation shall be entertained after the due date. The authority is not responsible for postal delay.
11. Drone will be stationed as convenient under the disposal of Tahasildar, Tangi/ Chilika, so that the same can be utilized as and when required by them.
12. In case of emergency, the operator will have to report for duty. No extra payment shall be demanded.
13. The application form of quotation containing general quote information, terms and conditions for hiring drone survey and other information will be downloaded from the Dist. website www.khordha.nic.in (Notices - Notification) for submission of Quotation to this office.
14. Initially the Drone shall be hired for one month only. It will be extended, if required.
15. The authority reserves the right to cancel the quotation without assigning any reason thereof.

By Order of Collector


Addl. District Magistrate, Khordha

Memo No. 4902 /Rev., Dated 11/04/2023

Copy forwarded to DIO, NIC, Khordha for information and necessary action. He is requested to publish this notice in District website.


Addl. District Magistrate, Khordha

Memo No. 4903 /Rev., Dated 11/04/2023

Copy submitted to Collector, Khordha/ ADM (Rev.), Khordha/ Sub-Collector, Khordha / Scientist, ORSAC, Bhubaneswar/ Senior Consultant, OCAC, BBSR/ Chief Executive, CDA, Bhubaneswar for kind information.


Addl. District Magistrate, Khordha

Memo No. 4904 /Rev., Dated 11/04/2023

Copy forwarded to DC (Nizarat) Collectorate, Khordha/ Tahasildar, Tangi/ Tahasildar, Chilika / Treasury Officer, Spl. T.O, Khordha/ District Fisheries Officer, Khordha/ Deputy Director Fisheries, Balugaon / District e-Governance, Khordha with a request to display this notice on their Notice Board for wide publication.

N.B: Enclosure

Annexure-I -Tender Profile.

Annexure-II -Terms and condition for drone survey.

Annexure-III – Minimum Technical Specification


Addl. District Magistrate, Khordha

AGENCY'S PROFILE

1.	Name of the Agency (In capital letters)	
2	Details of address (Registered Office and Operating Branch/ Residence)	
		Office:- Residence:- Mobile No:- Fax No:- e-mail I.D.:-
3	Details of amount of Earnest Money Deposit:	Rs.10,000/- D.D/ B.C No. _____ Dt. _____ Dawn on Bank _____
4	Service Tax/ GSTN Registration No. (Photo copy must be attached)	
5	Income Tax Account No./ Pan/ GIR No.	
6	Details of past experience of similar nature of work at least for three years.	
7	An amount of Rs.500/- may be deposited towards application fees in time of submission of the application.	
8	Quoted monthly Price for two cameras (in figure and words)	

DECLARATION

- I Son/ Daughter/ Wife of Shri
..... Proprietor/ Partner/ Director/
authorized signatory of the service Provider mentioned above and competent to sign this declaration and execute this tender documents.
- I have carefully read and understood all the terms and conditions of the quotation and undertake to abide by it.
- The information/ documents furnished along with the above application are true and authentic to the best of my knowledge and belief. I am well aware of the fact that, furnishing of any false information/ fabricated document would lead to rejection of my quotation at any stage besides liabilities towards prosecution under appropriate law.

Signature of Authorized person
Full Name:
Seal:
Mobile No:

OFFICE OF THE COLLECTOR & DISTRICT MAGISTRATE, KHORDHA

TERMS AND CONDITIONS FOR HIRING OF DRONE SURVEY ON MONTHLY RENT BASIS

1. The drone survey shall be used for creation of a library folder of drone footage taken on a daily basis at three different hours of the day and to ensure that these footages are preserved for a construable length of time to aid effective monitoring up to 200 meter (may be extended up to 1 KM) from HTL in Chilika lake under Khordha district under the supervision and disposal of Tahasildar, Tangi and Chilika.
2. Two drone camera will be deployed (one for Tangi Tahasil and another for Chilika Tahasil) to capture high resolution video graph/ photo graph in 3 different hours of the day with duration of 1 hour in each flight for each camera.
3. Drone data collection should be provided in soft and hard copy to the Tahasildar, Tangi/ Chilika/ District Office, Khordha.
4. Preparation of raw data, Ortho Map and establishment of GCP is liability of selected agency.
5. The camera used in the drone survey should be of HD/ 4K efficiency with GSD (Ground Sampling Distance) 5 cm.
6. **The selected agency should have valid license/ approval from DGCA.**
7. The drone shall not be older than 1 years from the date of initial agreement and must have valid Registration Certificate, Insurance Certificate and proof of up to date tax payment etc.
8. **The selected agency of drone survey preferably empanelled under ORSAC to operate the drone and should be experienced in operating the same.**
9. The drone operator shall be worked under the supervision of Tahasildar, Tangi/Chilika.
10. The drone operator should be well behaved, gentle and obedient in nature. The mobile number of the operator so engaged by the successful bidder should be available and open all times, so that he can be informed during emergency time as and when required.
11. **A sum of Rs.10,000/- shall be deposited by the intending agency in shape of Account Payee Bank Draft drawn in favour of the Collector, Khordha submitted along with the quotation as security deposit. After completion of quotation process, the amount will be refunded to unsuccessful agencies/bidders.**
12. The selected agency will produce the valid ID proof of the drone operators.
13. **The monthly rate of hire charges are to be quoted separately in the general quotation information.**
14. The sealed quotation completed in all respect should reach to the undersigned on 19.04.2023 before 03.00 PM by speed post/registered post addressed to Deputy Collector Revenue Officer, O/o the Collector & D.M, Khordha. The agency must write on the top of the envelope **"Quotation for hiring of drone survey"** and shall be opened on the 19.04.2023 at 4.00 PM in presence of the agencies or their authorized representatives. No quotation shall be entertained after the due date. The authority is not responsible for postal delay.
15. Drone will be stationed as convenient under the disposal of Tahasildar, Tangi/ Chilika, so that the same can be utilized as and when required by them.

16. In case of emergency, the operator will have to report for duty. No extra payment shall be demanded.
17. The application form of quotation containing general quote information, terms and conditions for hiring drone survey and other information will be downloaded from the Dist. website www.khordha.nic.in (Notices - Notification) for submission of Quotation to this office.
18. Initially the Drone shall be hired for one month only. It will be extended, if required.
19. The authority reserves the right to cancel the quotation without assigning any reason thereof.
20. All the maintenance of the drone survey towards repair, replacement of spare parts, Battery etc will be borne by the selected agency.
21. It shall be the responsibility of the selected agency to provide a good operator and the salary of the operator shall be borne by the selected agency.
22. In case of breakdown for reason whatsoever the replacement of the drone survey of the same or better model shall be provided by the selected agency of the drone survey/ selected agency.
23. In case operator does not report regularly, the authority will be at liberty to reject the agreement and may engage a new operator from other source.
24. If the services are found to be unsatisfactory, the selected agency will be given one month notice and terminate the agreement.
25. In case the selected agency intends to withdraw the services of his drone survey and terminate the agreement, it shall be mandatory upon him to grant one month notice before such withdrawal of service and termination of agreement.
26. If the selected agency violates any of the terms of contract, authority shall forfeit the entire amount of security deposit.
27. Service Tax/ GSTN would be reimbursed over and above the hire charges.
28. The agency should be registered under appropriate laws/acts of Govt. for providing drone survey on hiring.
29. All the orders and guidelines issued by Finance Department from time to time shall be followed scrupulously.
30. The decision of the committee is final regarding hiring of the drone survey.
31. Minimum Technical Specification attached in Annexure-III.
32. QA/QC will be done by ORSAC.
33. The Drone survey work/agreement can be cancelled at any time as per instruction from Hon'ble High Court/Govt. -

Minimum Technical Specification of Professional Survey Grade UAS	
Housing	Carbon Fiber Reinforced Polymer
Payload	0-5 kg (Micro, Mini, Small)
Max. Speed	< = 40 km/h
Climb Rate	8 m/s
Flight Height	up to 1,000 m ideal conditions, up to 3,000 m (9,842 ft.) above sea level
RC range	Minimum 5,000 m
Flight Time	With/without payload: from 20 to 60 mins With Max (5 kg) Payload: up to 30 mins
Operating Temperature	-20° to 50°C
GPS-receiver	GNSS with RTK/PPS/PPK
Gyroscope	yes
Accelerometer	yes
Barometer	yes
Magnetometer	yes
Ultrasonic Sensors	yes
Adaptable Sensors	flexible, according to current application
Control	Remote control with display (to get live feed from camera with aircraft parameters), automatic waypoint flight, GPS Tracking to locate the U.A.S at the time of crashing or going out of control through a mobile App.
Batteries	Lithium-polymer, 3 NOs/Sets
Service	Service team & Hotline service shall be made available by OEM.
On top Mounting	Camera can be mounted on top also for Bridge, Electrical inspection
Camera	20-50 Megapixels or better with option for on top mounting. The Camera shall be water and corrosive Proof in case of flying in marine environment i.e. adhering IP68 Standard.
Redundancy	Tolerant up to 2 nos. motor failure.
License	Vendor has to provide manufacturing/import licensing for the U.A.S as per DGCA latest guidelines.
Features	
Fully integrated geo-referencing	
High, flexible payload	
Anti-collision lighting and obstacle avoidance mechanism	
Accurate navigation and precise data	
Built-in automatic take-off and landing	
Reliable minimum altitude	
Dynamic waypoints (POI)	
Flight Planning Module Enabled (Manual/Auto)	
Position Hold function	
Easy orientation	
Automatic return function	
Software	
Flight Planning Software	Autonomous mission planning for aerial & linear missions. Ability to design waypoint-flights, which will be performed automatically by the UAS upon

instruction. Waypoint planning is done on geo-referenced imagery. Additional features include: Automatic generation of raster flights in respect to photogrammetric requirements, Aerial Image Management Module, ideal for managing pictures, Map-caching and offline planning function, Extensive camera database for managing predefined camera configurations.

Compatible Sensors Specification with Gimbal		
Camera Sensor	Sensor and resolution	20-50MP with lens options
	ISO	100 to 25,600
	Focus	Contrast-detection AF
	Shutter speed	1/8,000 to 30 sec
	Weight	< 500 g (including battery)
	Interfaces	Multi interface connector

Multispectral sensor with RGB camera and Gimbal for given UAS	Resolution multispectral	1.2 MP, 4/5 spectral bands,
	Resolution RGB	Up to 20 MP
	Spectral range	~450 - 790 nm
	Weight (incl. sunshine sensor)	< 200 g
	GPS	Included, direct geo-referencing
	Interfaces	Wi-fi, USB
	Storage	64 GB, removable SD-card
	Specials	IMU, manetometer