

**PROCUREMENT OF GOODS**  
**(Re-bidding)**

**Tender notification No.2022-**  
**PROC/NCSCM/UNDERWATER-CAMERA**

**INVITATION FOR QUOTATIONS FOR SUPPLY OF GOODS (Re-bidding)**

To

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**SUB: INVITATION FOR QUOTATIONS FOR SUPPLY OF UNDERWATER CAMERAS AND ACCESSORIES**

Dear Sir,

1. You are invited to submit your most competitive quotation for the supply of following goods:-

<b>Brief Description of the Goods</b>	<b>Specifications</b>	<b>Quantity</b>	<b>Delivery Period</b>	<b>Place of Delivery</b>	<b>Installation Requirement if any</b>
Supply of underwater camera and accessories	ANNEX – I	REFER ANNEX - I	30 days	NCSCM, Chennai	NO

2. Government of India has received a credit from the International Development Association (IDA) towards the cost of the Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations is issued.

**2. Documents Establishing Bidder's Eligibility and Qualifications:**

The Bidder shall furnish, as part of its quotation, following documents to establish the Bidder's eligibility to quote and its qualifications to perform the Contract if its quotation is accepted -

- (a) The legal status, place of registration and place of business of the company or firm.
- (b) Self-attested copy of GST Registration Certificate.
- (c) Self-attested copy of PAN Card.
- (d) Self-attested copies of Completion Certificates/ Performance Certificates/ Purchase Orders/ Contracts in proof of having supplied, installed & commissioned satisfactorily at least 100% of the quantity similar to the type specified in Point No.1 above in any one of the last five years i.e. 2017-18 to 2021-22.

**The start-ups are exempted from the criteria mentioned at (d) above. For such exemption, the bidder should enclose a self-attested copy of such registration certificate along with the Tender Document.**

**3. Bid Price**

- a) The contract shall be for the full quantity as described above. Corrections, if any, shall be made by crossing out, initialing, dating and re-writing.
- b) All duties, taxes and other levies payable on the raw materials and components shall be included in the total price.

- b) All duties, taxes and other levies payable on the raw materials and components shall be included in the total price.
  - c) GST shall be shown separately.
  - d) The rates quoted by the bidders shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
  - e) The Prices shall be quoted in Indian Rupees only.
4. Each bidder shall submit only one quotation. No bidder shall contact any other bidder in matters relating to this Quotation.
5. **Validity of Quotations**

The Quotations shall remain valid for a period not less than 45 days after the deadline date specified for submission.

6. **Evaluation of Quotations**

The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which

- (a) Are properly signed;
- (b) Conform to the terms & conditions and specifications and
- (c) Has submitted all the documents asked for in Point No.2 above

GST shall not be taken into account for evaluation.

7. **Documents Establishing Goods' Conformity to Bidding Documents**

The documentary evidence of conformity of the goods and services to the bidding documents may be in the form of literature or drawings or any other documentary proof.

8. **Award of Contract**

- a. Contract shall be awarded to the bidder whose bid will be determined to be substantially responsive and who has quoted the lowest evaluated price (i.e. Col. 7 of Format of Quotation).
- b. Firms/ Agencies registered under SSI/ MSME are eligible for price preference of up to 15% over the non-MSE units as per directives of Ministry of Micro Small and Medium Enterprise. The bidder should enclose a copy of such registration under SSI/ MSME along with the Tender Document.
- c. Local Suppliers shall be given purchase preference up to 20% as per the "Public Procurement (Preference to Make in India) order 2017 of GOI, Dept of DIPP". The bidder should enclose a self-certification in this regard.
- d. In case of participation of both MSE and Local Suppliers, MSE bidder will be given preference to match with L1 bidder as per Public Procurement Policy for MSEs Order 2012. MSE Bidders will be evaluated with L1+15% bracket whereas Local Suppliers will be evaluated with L1+20% bracket as MSE doesn't fall under Public Procurement (Preference to Make in India) Order 2017 as per Public Procurement Policy for MSE Order 2012 and Public Procurement (Preference to Make in India) Order 2017 is not applicable for MSEs.

- e. Bidders declaring Local supplier/ MSE status to seek benefits of only one policy of the two. Bidders are not allowed to change their status from MSE to Local supplier & vice versa.
- f. Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.
- g. The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the supply order.
9. **Payment shall be made by bank transfer as follows –**
- 100% of the contract price shall be released after successful completion of supply and upon submission of the documents such as Invoices; Manufacturer's Warranty/ Guarantee Certificate, if any, etc., subject to the verification of the supplied items by NCSCM in respect of the compliance to the specifications and other relevant points in this Invitation for Quotations.
10. Normal commercial warranty/ guarantee shall be applicable to the supplied goods.
11. You are requested to provide your offer latest by 11 A.M. of 30-12-2022
12. We look forward to receiving your quotations and thank you for your interest in this project.

 16/12/2022

Director

National Centre for Sustainable Coastal Management,  
Anna University Campus, Chennai – 600 025

**FORMAT OF QUOTATION \***

Sl. No.	Item	Quantity	Quoted unit price of the item for delivery up to destination, excluding GST (Rs.)	Unit Cost of Incidental Services, if any, excluding GST (Rs.)	Total Unit Cost excluding GST (Rs.)	Amount excluding GST (Rs.)	GST Payable (%)
1	2	3	4	5	6=(4+5)	7=(3*6)	8
1.	Camera with underwater housing	1 No.					
2.	Underwater housing	1 No.					
3.	Underwater camera (without housing)	1 No.					
4.	Camera Battery	4 Nos.					
5.	Memory card	3 Nos.					

**Gross Total Cost Excluding GST: Rs. ....**

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. ....(amount in figures ) (Rs. .... amount in words) within the period specified in the Invitation for Quotations.

We also confirm that the normal commercial warranty/guarantee of ..... months shall apply to the offered goods.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery or collusive agreements with competitors.

**Signature of Supplier**

**Format of Performance Statement for the last five years i.e. 2017-18 to 2021-22 to be submitted by the Bidder**

IFQ No.....

Name of Bidder.....

Order placed by (Full address of Purchaser)	Order No. and date	Description and quantity of equipment ordered	Value of order (Rs.)	Date of completion of delivery As per contract/ Actual or revised	Quantity of supplies made as on date	Additional supplies to be made in the period of this contract	Remarks indicating reason for late delivery, if any	Has the equipment been satisfactorily functioning (Attach a certificate from the Purchaser)
1	2	3	4	5	6	7	8	9

## 1. Technical details of the Camera (with underwater housing)

S. No	Parameter	Description
1.	<b>Quantity</b>	1 No.
2.	<b>Sensor</b>	1.0-type CMOS sensor
3.	<b>Effective pixels</b>	20.1 MP
4.	<b>Lens</b>	24-70 mm lens
5.	<b>Focal Length</b>	f=8.8-25.7mm
6.	<b>Zoom</b>	Minimum 2.9x (Optical Zoom during movie recording), Digital zooming maximum - 44x.
7.	<b>Screen</b>	Minimum required - 7.5 cm (4:3) / 1,228,800 dots with TFT LCD screen with tilting angle 180 degrees
8.	<b>Video recording</b>	Full-pixel readout at 50 Mbps plus high resolution XAVC S movie recording.
9.	<b>Connectivity</b>	Wi-Fi and NFC
10.	<b>ISO range</b>	125 to 12800
11.	<b>Image Processor</b>	Dedicated image processor required (ex. EXPEED, DIGIC, BIONIZ X)
12.	<b>Viewfinder</b>	Should have built-in OLED electronic viewfinder (EVF)
13.	<b>File format for Images</b>	NEF (RAW), JPEG
14.	<b>Lens aperture</b>	24-70 mm lens with F1.8-2.8 aperture
15.	<b>Shutter speed</b>	Shutter Priority (30-1/2000sec.)
16.	<b>Card Slot</b>	SD, SDHC Memory Card
17.	<b>Modes for shooting</b>	Minimum modes required - Superior Auto, Intelligent Auto, Program Auto, Aperture Priority, Shutter Speed Priority, Manual Exposure, MR (Memory Recall) 1/2/3, Movie Mode (Program Auto, Aperture Priority, Shutter Speed Priority, Manual Exposure), Panorama, Scene Selection
18.	<b>Flash Control</b>	Built-in, manual pop-up, Auto, Flash On, Slow Synchro, Rear Sync, Flash Off

## 2. Technical specification of Underwater Housing

S. No	Parameter	Description
1.	Quantity	1 No.
2.	Dive depth	Could use camera with housing at depth to 40 m/130 ft
3.	Compatible	Should be functionally compatible to the above-required camera operated only with underwater housing.
4.	Options	To have an accessory shoe to attach an optional flash, a three-holed screw mount to fit an optional stay and grip and a filter mount to add an optional filter or conversion lens.

## 3. Technical details of the Underwater Camera (without housing)

S. No	Parameter	Description
1.	Camera type	Waterproof, dustproof, shockproof , crushproof, freeze proof to -10°C, and anti-fogging Compact camera
2.	Quantity	3 Nos.
3.	Effective pixels	12 MP with aspect ratio of 1.33 (4:3)
4.	Lens	4.5mm -18.0mm (25mm - 100mm) lens
5.	Zoom	Minimum 4x (Optical Zoom during movie recording), Super macro : less than f=5.4mm, and Microscope: 0.01m - 0.30m)
6.	Screen	Minimum with 3.0-inch colour LCD
7.	Video recording	3840x2160 (4k) / 30p, 25p (Bit rate: Approx. 102Mbps)
8.	Connectivity	Wi-Fi and GPS Via smartphone GPS data
9.	ISO range	Manual ISO: 100 - 12800 (1/3 EV step)
10.	Sensor	GPS, compass, manometer, temperature sensor, Acceleration sensor
11.	White balance	Auto WB, minimum 6 Preset WBs, minimum 3 Underwater WBs,
12.	File format for Images	JPEG, MOV
13.	Lens aperture	f/2.0 (wide-end) to f/4.9 (tele-end)
14.	Shutter speed	1/2 to 1/2000 sec. (Night Scene, A mode: up to 4 sec.)
15.	Card Slot	UHS-I Speed Class 3 SD card
16.	Modes for shooting	Minimum modes required - Intelligent Auto, Program Auto (P), Aperture Priority (A), Custom1, Custom2, Underwater (Snap, Wide, Macro, Microscope, HDR), Microscope (Microscope, Focus stacking, Focus bracket, Microscope control), Scene Mode (SCN), Movie
17.	Flash Control	Auto, Red Eye Reduction, Slow sync, Red-eye Slow sync, Fill-in, Manual, Flash Off
18.	Capabilities	Water proof – minimum protection class 8 (IPX8); Dust proof – with minimum protection class 6 (IP6X); shock proof - Up to 2.1 m



#### 4. Camera Battery

S. No	Parameter	Description
1.	<b>Battery</b>	Rechargeable Li-ion battery
2.	<b>Quantity</b>	4 Nos. [2 nos. each for (a) camera used with underwater housing and (b) underwater camera (without housing)].
3.	<b>Compatible</b>	Same model as the battery comes with the camera

#### 5. Memory Card

S. No	Parameter	Description
1.	<b>Card capacity</b>	64 GB memory card
2.	<b>Quantity</b>	3 Nos.
3.	<b>Transfer speed</b>	300 mbps
4.	<b>Video capture</b>	Should be able to capture 4k Video recording
5.	<b>Class</b>	Class 10 UHS-II SDXC
6.	<b>Shot speeds</b>	Should be 260 mbps
7.	<b>Compatibility</b>	Could be used in the above required camera
8.	<b>Protection</b>	shock-proof, temperature-proof, waterproof and X-ray-proof,

