



Maharashtra Animal & Fishery Sciences University, Nagpur
Wildlife Research & Training Centre,
Gorewada, Nagpur
Opp. Hindustan Lever Godown Square, Mahurzhari Road, Fetri, Nagpur
441501



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No. WRTC/Director/ WRTC / 428 /2026

Date: 25/08 /2026

To,
M/s _____

Subject: Invitation of quotation for supply of Digital camera and acoustic recorder under Maharashtra Gene Bank Project

Sir/Madam,

The Wildlife Research and Training Centre (WRTC), Gorewada, Nagpur, is implementing the Maharashtra Gene Bank (MGB) sanctioned project entitled **“Integrating Morphological and Molecular Approaches to Assess Frog Biodiversity and Prevalence of Chytrid Disease in Vidarbha Region: A Conservation Perspective”**, sanctioned vide MGB Sanction Order No. MGB/1462 dated 17/03/2026.

Under the approved project, **digital camera and acoustic recorder** is required for undertaking field surveys, safe capture, handling, examination, documentation and release of frogs and other associated field activities. You are therefore requested to submit your **sealed quotation** for supply of the equipment/items as per the specifications and quantity mentioned in **Annexure-A**.

Sr. No.	Equipment	Specifications	Qty.	Unit Rate (₹)	GST (₹)	Total Amount (₹)
1	Digital Camera	As in Annexure A	1			
2	Acoustic recorder	As in Annexure A	1			
	Grand Total					

The quotation should be submitted to the **Director, Wildlife Research and Training Centre, Gorewada, Nagpur**, within the prescribed period.

1. General Terms and Conditions

1. The quotation shall be submitted on the official letterhead of the firm and shall clearly mention the name, address, telephone number, e-mail address and contact details of the supplier.
2. The quotation shall clearly specify the item-wise description, make/brand, model (where applicable), unit, quantity, unit rate and total amount.
3. The quoted rates shall preferably be indicated inclusive of all applicable taxes, duties, transportation, loading/unloading, packing, forwarding and delivery charges. GST, if applicable, shall be shown separately in the quotation.
4. The supplier shall clearly mention the GSTIN, PAN and applicable tax details of the firm.
5. The quotation shall remain valid for a minimum period of 45 (forty-five) days from the last date prescribed for submission of quotations.
6. The quoted equipment shall be new, unused and of standard quality and shall conform strictly to the specifications mentioned in Annexure-I.
7. Any deviation from the prescribed specifications shall be clearly indicated in the quotation. The purchaser reserves the right to reject quotations containing substantial deviations from the required specifications.
8. The supplier shall submit documentary proof of the registration of the firm/company/proprietorship/partnership, as applicable.
9. The following documents shall be enclosed with the quotation:
 - ✓ Copy of PAN Card of the firm/company/proprietor.
 - ✓ Copy of GST Registration Certificate, wherever applicable.
 - ✓ Copy of registration certificate/licence of the firm/company, as applicable.
 - ✓ Copy of Aadhaar Card of the proprietor/authorized signatory, wherever applicable and required for verification.
 - ✓ Bank account details, including Account Number, IFSC and name of the bank.
 - ✓ Any other relevant statutory registration/certificate applicable to the supplier.
10. The supplier shall certify that the information and documents furnished are true and correct. Any false declaration or submission of incorrect documents may result in rejection of the quotation and further action as per applicable rules.
11. The supplier shall quote for the complete requirement or individual items, as specified in Annexure-I. The purchaser reserves the right to accept or reject any item or the entire quotation.
12. No advance payment shall ordinarily be made. Payment shall be released through the prescribed University/government financial procedure after satisfactory supply, inspection, acceptance of the

equipment and submission of the required invoice and supporting documents.

13. The supplier shall be responsible for safe packing, transportation and delivery of the equipment at: Wildlife Research and Training Centre, Gorewada, Nagpur, Maharashtra – 440013.
14. The supplier shall ensure that the equipment is delivered within the specified delivery period from the date of issue of the supply order/purchase order.
15. In case of delay in supply beyond the stipulated delivery period, the competent authority may take appropriate action as per the applicable procurement terms and conditions.
16. Where applicable, the supplier shall provide the manufacturer's warranty/guarantee certificate along with the equipment. Warranty details shall be clearly mentioned in the quotation.
17. The equipment shall be subject to inspection and acceptance by the authorized officer/committee of WRTC after delivery. Items not conforming to the approved specifications may be rejected and shall be replaced by the supplier at its own cost.
18. The supplier shall not be entitled to claim any additional amount over and above the accepted quotation rate except where specifically approved in writing by the competent authority under applicable rules.
19. The purchaser reserves the right to accept or reject any or all quotations, wholly or partially, without assigning any reason, subject to applicable government/University procurement rules.
20. The quotation shall be free from erasures, overwriting or alterations. Any correction shall be duly authenticated by the authorized signatory of the firm.
21. Conditional quotations are liable to be rejected.
22. The supplier shall not assign or transfer the supply order to any other agency/person without prior written permission of the competent authority.

2. Submission of Quotation

The quotation should be placed in a **sealed envelope superscribed:**

“QUOTATION FOR SUPPLY OF DIGITAL CAMERA AND ACOUSTIC RECORDER UNDER MGB FROG BIODIVERSITY PROJECT” and addressed to:

The Director

Wildlife Research and Training Centre
Maharashtra Animal and Fishery Sciences University, Nagpur
Petri Nagpur – 441501

The quotation should reach this office on or before **10 / 09 /2026 at 17.00 hours.**

3. Important Instructions

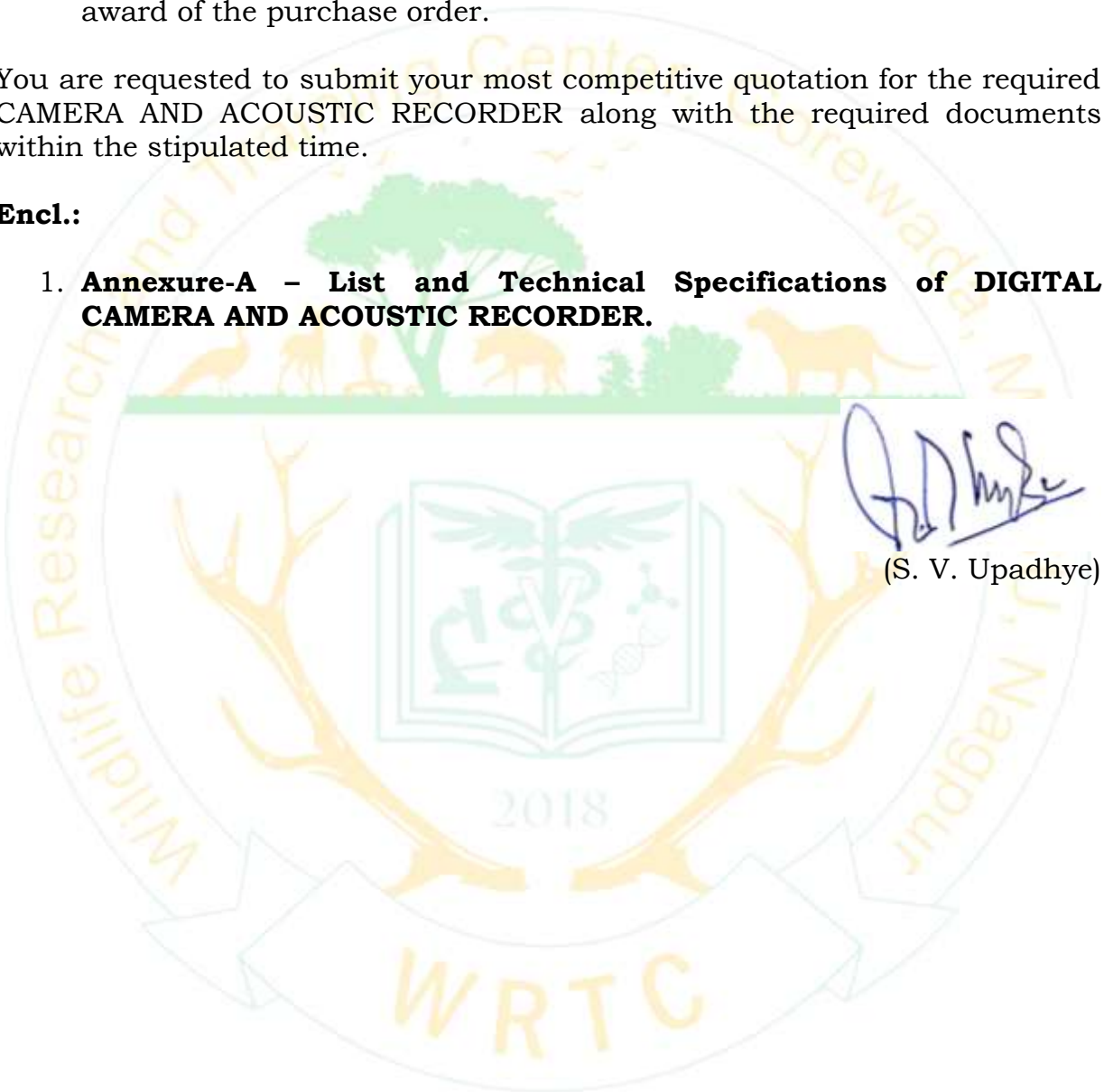
- Rates should be quoted **item-wise.**
- Applicable GST and other statutory charges should be clearly indicated.

- The quotation must be signed and stamped by the authorized person of the firm.
- All supporting documents mentioned above must be enclosed.
- The quotation shall remain valid for 45 days from the last date of submission.
- The purchaser shall not be responsible for any delay in receipt of quotations due to postal/courier transmission.
- Quotations received after the prescribed closing date and time may not be considered.
- Submission of a quotation does not confer any right on the supplier for award of the purchase order.

You are requested to submit your most competitive quotation for the required CAMERA AND ACOUSTIC RECORDER along with the required documents within the stipulated time.

Encl.:

1. **Annexure-A - List and Technical Specifications of DIGITAL CAMERA AND ACOUSTIC RECORDER.**



(S. V. Upadhye)

Annexure-A

Technical Specifications – Rugged Digital Camera for Amphibian/Wildlife Documentation

Sr. No.	Parameter	Generalised Minimum Technical Specification	Qty.
1	Camera Type	Compact, rugged, waterproof digital camera suitable for wildlife, amphibian, field biodiversity and environmental documentation; integrated lens system preferred.	1
2	Image Sensor	Back-illuminated CMOS or equivalent sensor; minimum 12 megapixels effective resolution.	1
3	Lens	Integrated optical zoom lens with approximately 25–100 mm or wider equivalent focal-length range; minimum aperture approximately f/2.0 at wide angle or better.	1
4	Macro Capability	Dedicated Macro/Super Macro/Microscope-type shooting mode suitable for close-up documentation of amphibians, reptiles, insects, eggs, tadpoles and morphological characters; minimum close-focusing capability suitable for scientific field documentation.	1
5	Image Format	JPEG and RAW image capture; RAW capability required for scientific documentation and archival purposes.	1
6	Image Stabilization	Built-in optical/sensor-shift or equivalent electronic/mechanical image stabilization system suitable for handheld field photography.	1
7	ISO Sensitivity	Manual/automatic ISO control; preferably minimum range approximately ISO 100–12,800 or wider.	1
8	Autofocus	Contrast-detection or equivalent autofocus system with single-area and multi-area/target	1

Sr. No.	Parameter	Generalised Minimum Technical Specification	Qty.
		selection; suitable for close-up and moving subjects.	
9	Continuous Shooting	Minimum 5 frames per second , with high-speed continuous shooting mode preferred.	1
10	Video Recording	Minimum 4K video recording capability; Full HD recording at multiple frame rates; suitable for documentation of amphibian behaviour and field activities.	1
11	LCD Display	Minimum 3-inch colour LCD display , approximately 1 million dots or equivalent resolution; suitable for outdoor field viewing.	1
12	Built-in Flash/Illumination	Built-in flash and/or LED illumination suitable for close-up and low-light documentation; macro illumination support preferred.	1
13	Waterproofing	Minimum 15 m waterproof construction without additional housing, or equivalent protection suitable for wetland/amphibian fieldwork.	1
14	Shock Resistance	Minimum 2 m drop/shock resistance or equivalent ruggedized construction.	1
15	Dust/Weather Protection	Dustproof and splash-resistant construction suitable for forest, wetland, monsoon and outdoor field conditions.	1
16	Freeze Resistance	Freeze-resistant construction preferably to approximately -10°C or better .	1
17	Crush Resistance	Crush-resistant construction, preferably capable of withstanding approximately 100 kg load or equivalent ruggedized protection.	1
18	GPS/Location Recording	Built-in GPS or equivalent geotagging facility for recording geographic location of field photographs; electronic compass and environmental sensors preferred.	1

Sr. No.	Parameter	Generalised Minimum Technical Specification	Qty.
19	Wireless Connectivity	Built-in Wi-Fi and/or Bluetooth for wireless image transfer, camera control and field data management.	1
20	Storage	Compatible with SD/SDHC/SDXC memory cards, preferably UHS-I or equivalent high-speed cards.	1
21	Memory Card	Minimum 128 GB high-speed SD/SDHC/SDXC card, Class 10/UHS-I or equivalent , suitable for RAW images and 4K video.	2
22	Battery	Rechargeable lithium-ion battery compatible with the supplied camera; minimum one additional spare battery.	2
23	Charging	USB Type-C or equivalent in-camera charging facility; suitable charging cable and adapter to be supplied.	1 Set
24	Macro Lighting Accessory	Compatible LED light guide, macro light or flash diffuser suitable for close-up amphibian and biological specimen photography.	1
25	Lens Protection	Compatible protective lens barrier/filter or equivalent protection against moisture, dust and field contamination.	1
26	Carrying Case	Padded, water-resistant/rugged carrying case suitable for camera, batteries, memory cards and accessories.	1
27	Camera Strap	Durable adjustable camera strap suitable for field use.	1
28	Cleaning Kit	Camera/lens cleaning kit comprising air blower, soft brush, microfiber cloth and suitable optical cleaning material.	1 Set
29	Data Transfer	USB cable and/or high-speed card reader compatible with supplied memory card for transfer of photographs and videos to	1 Set

Sr. No.	Parameter	Generalised Minimum Technical Specification	Qty.
		computer.	
30	Warranty	Minimum 1-year manufacturer's warranty or as applicable under the manufacturer's standard warranty terms in India.	1

Additional accessories:

Accessory	Recommended requirement
High-Speed SD card	2 × 128 GB or 256 GB
Macro LED/light guide	1
Diffuser	1
Rugged carrying case	1
Cleaning kit	1
Card reader	1
Camera strap	1

Technical Specifications for Professional Bioacoustic Field Recorder

Sr. No.	Parameter	Generalised Minimum Technical Specification	Qty.
1	Type	Portable professional digital field audio recorder suitable for amphibian, wildlife and environmental bioacoustic recording . Rugged, lightweight and suitable for outdoor field surveys.	1
2	Recording Resolution	32-bit floating-point recording capability; 24-bit or higher linear PCM recording also acceptable.	1
3	Sampling Frequency	Minimum 96 kHz sampling rate ; selectable lower rates such as 44.1/48 kHz may also be supported.	1
4	Recording Format	Uncompressed WAV/PCM recording; BWF or equivalent professional broadcast/wildlife recording format preferred. MP3 recording may be available as an additional format but shall not replace WAV capability.	1
5	Microphone Inputs	Minimum 4 professional XLR/TRS combination inputs , suitable for balanced microphone/line-level input.	1
6	Phantom Power	+48 V phantom power for professional condenser/shotgun microphones. Individual channel control preferred.	1
7	Microphone System	Built-in high-quality stereo microphone system and/or interchangeable microphone capsule system ; supplied microphone suitable for general environmental/bioacoustic recording.	1
8	External Microphone Compatibility	Shall support professional external directional/shotgun microphones through XLR input, suitable for targeted recording of frog and other wildlife calls.	1
9	Pre-amplifier / Noise Performance	Low-noise, high-quality microphone preamplifiers suitable for recording low-amplitude biological sounds; equivalent input noise preferably ≤ -120 dBu or better .	1

Sr. No.	Parameter	Generalised Minimum Technical Specification	Qty.
10	Dynamic Range / Clipping Protection	High dynamic range suitable for recording both quiet distant calls and loud nearby calls; dual A/D converter or equivalent technology preferred for 32-bit-float recording and clipping protection.	1
11	Simultaneous Recording	Minimum 6-track simultaneous recording capability preferred, with multitrack recording capability for multiple microphones.	1
12	Frequency Response	Suitable for biological acoustic recording; preferably approximately 20 Hz–20 kHz or wider , depending on microphone and recording path.	1
13	Maximum SPL	Built-in microphone system capable of recording high sound pressure levels without significant distortion; ≥130 dB SPL preferred.	1
14	Monitoring	Dedicated headphone output with independent volume control; real-time monitoring during recording; level/waveform monitoring on display.	1
15	Display	Full-colour LCD or equivalent display showing recording status, input levels, waveform/track information, battery status and storage capacity.	1
16	Storage	Recording to microSD/microSDHC/microSDXC memory cards ; minimum support for 128 GB, preferably up to 1 TB or higher.	1
17	Memory Card	Minimum 128 GB high-speed microSDXC card, Class 10/UHS-I or equivalent , suitable for continuous 96 kHz WAV recording.	2
18	Power Supply	Battery-operated field operation using standard rechargeable/replaceable batteries; USB power operation preferred.	1
19	Rechargeable Batteries	Minimum two complete sets of high-capacity rechargeable batteries compatible with the recorder.	2 Sets
20	Battery Charger	Intelligent multi-battery charger compatible with supplied rechargeable batteries, with charging-status indication and safety/overcharge	1

Sr. No.	Parameter	Generalised Minimum Technical Specification	Qty.
		protection.	
21	USB Connectivity	USB Type-C or equivalent high-speed interface for data transfer, firmware update and/or USB audio interface functionality.	1
22	Computer Connectivity	Compatible with Windows and macOS computers for transfer, storage and processing of recorded WAV files.	1
23	Audio Interface	USB audio-interface capability preferred, with multichannel input/output functionality.	1
24	Built-in Speaker	Built-in speaker or equivalent facility for quick field playback and verification of recordings.	1
25	Remote Control	Wireless/Bluetooth remote recording facility may be provided; compatible wireless adapter/accessory, if required, may be supplied separately.	1
26	Wind Protection	Suitable foam and/or furry windshield for the supplied microphone, appropriate for outdoor wildlife recording.	1
27	Protective Case	Padded, durable and preferably weather-resistant carrying case suitable for recorder and accessories.	1
28	Tripod/Field Mount	Standard tripod mounting provision; compatible lightweight mini tripod/field stand preferred.	1
29	XLR Cables	Minimum 2 high-quality shielded balanced XLR microphone cables , approximately 3–5 m length, suitable for field use.	2
30	Headphones	Closed-back monitoring headphones with suitable frequency response and low distortion, compatible with recorder headphone output.	1
31	Data/USB Cable	Manufacturer-compatible high-speed USB data cable.	1

Sr. No.	Parameter	Generalised Minimum Technical Specification	Qty.
32	Memory Card Case	Protective memory-card storage case suitable for field use.	1
33	Recording Duration	Suitable for extended field recording sessions; battery operation and storage capacity should support prolonged amphibian surveys.	1
34	Operating Conditions	Suitable for outdoor field use under normal forest/wetland environmental conditions; protective case/accessories should provide additional protection against dust and moisture.	1
35	Warranty	Minimum 1-year manufacturer's warranty or manufacturer's standard warranty applicable in India, whichever is higher.	1



(S. V. Upadhye)

Copy to for information:

1. Director of Research, MAFSU, Nagpur
2. Concerned officer/ staff _____ for n.a.
3. Principal Investigator, MGB Frog Project.
4. Office File.