

---

## **Request for Bids for Supply of Goods**

*Supply and Delivery of a projector, a plotter, and a camera (DSLR)*

Date: 16/02/2022

**Invitation for Bid (IFB) through Open Tender (National)**

Project title: Strengthening Risk Information for Disaster Resilience in Bhutan[P175081]

Source of Funding: World Bank

Contract Ref: *NCHM/PRO-01/2021-22/0163*

Dear Sir/Madam,

1. You are invited to submit your priced bid for the supply of the following items:

- 1) Projector (1 no.)
- 2) Plotter (1 no.)
- 3) Camera (DSLR) (1 no.)

*(Information on technical specifications and required quantities are attached as Price Schedule)*

2. The bidder(s) must quote for all the items under this invitation. Priced quotations will be evaluated for all the items together as a single package and contract awarded to the firm offering the lowest evaluated total cost.

3. The bidder(s) shall submit one original of the priced quotation with the Form of Bid, clearly marked ORIGINAL. In addition, the bidder(s) should also submit one copy marked as COPY. The quotation including all documents in the attached format should be sealed in an envelope and addressed to and delivered at the following address:

Your quotation in the required format should be addressed and submitted to:

Procurement Officer

National Center for Hydrology and Meteorology

Thimphu: Bhutan

Telephone: 02-322794

Email ID: tashidendup@nchm.gov.bt

- 
4. The deadline for receipt of your quotation(s) by the purchaser at the indicated address is on the 15 March, 2022, on or before 10:30 AM (BST).
  5. Bids shall be accompanied by a bid security of Nu. 16,500 in the form of cash warrant, demand draft, or unconditional Bank Guarantee valid till 30<sup>th</sup> May 2022. Any bid not accompanied by bid security shall be treated as non-responsive.
  6. Quotation by fax or by electronic means **are not** acceptable.
  7. The quotation should be submitted as per the following instructions and in accordance with the attached Contract. The attached Terms and Conditions of Supply is an integral part of the Contract.
    - a) **PRICE:** all prices shall be quoted in Ngultrum. The quoted price shall be inclusive of all related costs including taxes, duties and other levies to the final place of delivery. The final place of delivery is **National Center for Hydrology and Meteorology, Thimphu.**
    - b) **EVALUATION OF QUOTATION:** offers determined to be substantially responsive to the technical specifications will be evaluated by comparison of their quoted prices. In evaluating the quotations, the purchaser will determine for each quotation the evaluated price by adjusting the price quotation by making any correction for any arithmetical errors as follows;
      - (i) Where there is a discrepancy between amounts in figures and in words, the amount in words will govern;
      - (ii) where there is discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted shall govern unless in the opinion of the Employer there is an obviously gross misplacement of the decimal point in the unit rate, in which case the line item total as quoted shall govern, and the unit rate shall be corrected.
      - (iii) if the supplier refuses to accept the correction, the quotation will be rejected and the bid security forfeited.

- 
- c) **AWARD OF PURCHASE ORDER:** the award will be made to the bidder who has offered the lowest evaluated price that meets the specifications. The successful bidder will sign a contract as per attached form of contract and terms and conditions of supply.
- d) **VALIDITY OF THE OFFERS:** the quotation(s) shall be valid for a period of 60 days from the deadline for receipt of quotation(s).
8. Further information can be obtained from: *Procurement Section; NCHM*
9. The Royal Government of Bhutan has received a grant of USD: 3.5 M towards the cost of strengthening disaster preparedness and response capacity project and intends to apply part of the proceeds of this grant to eligible payments under the contract for which this invitation for quotations is issued.
10. The quotation(s) will be opened in the presence of bidders or their representatives who choose to attend at Mini-conference hall, NCHM on 15 March, 2022 at 11:00 AM (BST).
11. The Purchaser is not bound to accept the lowest bid and reserves the right to accept or reject any or all the bids without assigning any reason whatsoever.
12. The Purchaser will notify the winning bidder of the award of contract prior to the expiry of quotation validity period. The terms of the accepted offer shall be incorporated in the supply order.
13. The Goods supplied should have a minimum Warranty/guarantee of 12 months from the date of acceptance.
14. Ten percent (10%) of the Contract Price shall be paid within thirty (30) days of signing of the Contract upon submission of a claim and an advance payment guarantee for the equivalent amount valid until the Goods are delivered and in the form provided in the Bidding Documents.
15. Ninety percent (90%) of the Contract Price shall be paid to the Supplier within thirty (30) days after the date of the acceptance certificate for the respective delivery issued by the

---

Purchaser. The ten (10) percent performance security shall be retained as security deposit and paid at the end of the warranty period or after six (6) months whichever is later after adjustment of dues if any.

**Schedule of Items and Priced Quotation (Bid form)***[To be filled in by Bidders]*

Sl	Item Description	Unit	Qty	Make/M odel	Unit Rate (Nu.)	Total Amount (Nu.)
1	Projector	Nos.	01			
2	Plotter	Nos.	01			
3	Camera (DSLR)	Nos.	01			
<b>Total Amount for Supply of Goods to Purchaser (Including taxes and all related costs)</b>						
Goods to be supplied to <i>National Center for Hydrology and Meteorology</i> )						

Total Amount in Nu. (in words)	<i>[insert the Total Amount for Supply of Goods including all related costs].</i>
Delivery period	<i>Insert Number of days from the date of issue of the Purchase Order by the Purchaser</i>
Warranty Provided	<i>.....Months from date of supply or commissioning of the Goods.</i>

Signature of Supplier	Supplier's Official Stamp
Name of Supplier	
Date	

*[The Supplier may attach copies of relevant brochures/catalogue for the goods to be supplied, which will give sufficient information to carry out effective evaluation]*

---

## Technical Specification of the Goods Required

### 1. Projector

Projection System	DLP Single 0.65” WXGA equivalent or higher
Resolution	1280 x 800 pixels or higher
Brightness	3,300 Lumens or higher
Display Color	1.07 Billion or higher
Aspect Ratio	Native 16: 10
Contrast Ratio	20,000: 1 or higher
Throw Ratio	Short throw with minimum 0.75mtrs to 1.3mtrs throw ratio
Projection Size	70-inch to 120-i
Audio	Built in speaker with at least 2W capability
Memory	Built in >16GB ROM and >2GB RAM
Wireless	Dual Band 802.11ac/b/g/n wireless LAN with 4.0 Bluetooth
Mounting Kit	Projector Mount Kit
I/O ports	1x Audio output (mini jack), 1x Audio input (mini jack), 1x Monitor output (D-sub 15pin, Female), 1x PC (D-sub 15pin), 1x HDMI, 1x USB Type Mini B, 1x USB TypeA-1, 1x USB TypeA-2 (5V,1.5A)
PC feature	The USB Type-A port should supports a wide range of file formats including JPEG, PDF, Microsoft Word, Excel and PowerPoint files, allowing you to easily project images or documents directly onto the screen without the need of a PC
Compliance	Must submit the detail technical compliance statement with datasheet, catalog and brochure of the proposed item
Warranty and Quality Assurance	12 month’s hardware warranty and the vendor must be an authored local partner of the proposed brand. Copy of such certificate to be furnished along with the offer to validate the authenticity of the product and for the quality assurance and post-sales support
Datasheet	The documents claiming the feature availability should be enclosed with the proposed solution mentioning the page/reference /section no. to evaluate by the technical team. All the documents preferably should be available with data sheets /user manual/installation guide- should be available on the OEM official website.

---

## 2. Plotter

Printer Type	5-Colour 36-inch (Print, Scan and Copy) or higher
Max. Print Resolution	2400 x 1200 dpi or higher
Nozzle Pitch	1200 dpi (2 lines)
Line Accuracy	± 0.1 % or lesser percentage
Ink Type	Pigment ink
Printer Languages	SG Raster (Swift Graphic Raster), HP-GL/2, HP RTL, JPEG (Ver JFIF1.02)
Print Solutions	Apple AirPrint, Direct Print & Share, AutoCAD Optimized Printer Driver, Easy-PhotoPrint Editor
Standard Interface	Hi-Speed USB, 1Gig Ethernet, Wireless LAN
Memory	>2GB
Paper Size	<b>Maximum A0</b>
Media Width, Paper Roll	203.2 to 917mm
Media Width, Paper Sheet	210 to 431.8 mm
Minimum Printable Length	Roll Paper: 203.2 mm Cut Sheet: 279.4 mm
Maximum Printable Length	Roll Paper: 18 m Cut Sheet: 594 mm
Maximum Outer Roll Diameter	150 mm
Paper Feed Method	Roll Paper (Single): Upper Load, Front Output Cut Sheet: Upper Load, Front Output
Scan Width	36-inch (914 mm)
Minimum Scan Length	6-inch (150 mm)
Maximum Scan Length	109-inch (2768 mm)
Optical Scan Resolution	>600 dpi
Maximum Document Thickness	0.5 mm



Software	Scanning and printing software to be included in either flash drive or other storage devices
Compliance	Must submit the detail technical compliance statement with datasheet of the proposed item
Warranty and Quality Assurance	12 month's hardware warranty and the vendor must be an authored local partner of the proposed brand. Copy of such certificate to be furnished along with the offer to validate the authenticity of the product and for the quality assurance and post-sales support
Datasheet	The documents claiming the feature availability should be enclosed with the proposed solution mentioning the page/reference /section no. to evaluate by the technical team. All the documents preferably should be available with data sheets /user manual/installation guide- should be available on the OEM official website.

### 3. Camera

<b>IMAGING</b>	
Camera Type	Interchangeable lens digital camera
Sensor Resolution	Actual: 12.1 Megapixel Effective: 10.2 Megapixel
Sensor Type	35.6 x 23.8 mm (Full-Frame) CMOS
Image Stabilization	Sensor-Shift, 5-Axis
ISO Sensitivity	80 to 102,400 (Native) 80 to 409,600 (Expanded)

Shutter Type	Rolling Shutter
Shutter Speed	1/8000 to 1/4 sec
White balance	2500 to 9900K
<b>LENS equivalent to FE 14MM F1.8</b>	
Lens mount	E-MOUNT
Format	35 mm full-frame
Focal Length(mm)	14mm
Minimum, Focus Distance	0.25 m (0.82)
Max Magnification ratio(X)	0.1
Angle of View(35mm)	114°
Angle of View (APS-C)	91°
Max aperture (F)	1.8
Min aperture (F)	16

Hood Type	Petal shape, fixed type
Weight	460g(16.3)
<b>INTERNAL RECORDING</b>	
Recording Modes	<p><b>XAVC HS/XAVC S/XAVC S-I 4:2:2 10-Bit:</b></p> <p>3840 x 2160p at 23.98/25/29.97/50/59.94/100/119.88 fps (600 Mb/s)</p> <p>1920 x 1080p at 23.98/25/29.97/50/59.94/100/119.88/240 fps (600 Mb/s)</p> <p><b>XAVC S 8-Bit:</b></p> <p>1280 x 720p at 23.98/25/29.97/50/59.94/100/119.88/200/240 fps</p>
Variable Frame Rates	<p>UHD: 1 Up to 120 fps</p> <p>1080p (Windowed): 1 Up to 240 fps</p>
Gamma Curve	HDR-HLG, S Cinetone, Sony S-Log 2, Sony S-Log 3, Standard
Audio Recording	<p>4-Channel 24-Bit LPCM Audio</p> <p>2-Channel 24-Bit LPCM Audio</p>
Still Image Support	<p><b>EXIF / JPEG / MJPEG / Raw</b></p> <p>12 MP</p>
<b>EXTERNAL RECORDING</b>	

Raw Output	<b>HDMI In Raw Mode:</b> 4264 x 2408 16-Bit at 24/25/30/50/60 fps 3840 x 2160 16-Bit at 24/25/30/50/60 fps 1920 x 1080 16-Bit at 24/25/30/50/60 fps
IP Streaming	Yes
<b>INTERFACE</b>	
Video Connectors	<b>1 x HDMI Output</b>
Audio Connectors	<b>2 x XLR / 1/4" TRS Combo Mic/Line Level Input on Included Handle</b> <b>1 x 1/8" / 3.5 mm Stereo Mic Level Input on Camera Body</b> <b>1 x 1/8" / 3.5 mm Stereo Headphone Output on Camera Body</b>
Built-In Microphone Type	Stereo
Wireless Interfaces	2.4 / 5 GHz Wi-Fi 5 (802.11ac)
<b>MONITOR</b>	
Size	3"
Resolution	1,440,000 Dot
Display type	Articulating Touchscreen LCD

<b>POWER</b>	
Power Connectors	<b>1 x</b> USB Type-C Input
Battery Operating time	Approx. 95 min (Actual recording, CIPA standard) <sup>2</sup> , Approx. 135 min (Continuous recording, CIPA standard), Approx. 580 shots (still images, CIPA standard)
Power Consumption	≤7.3 W
<b>ENVIRONMENTAL</b>	
Operating temperature	0 °C to 40 °C
Storage temperature	-20 °C to +60 °C
<b>PHYSICAL</b>	
Tripod Mounting Thread	1/4"-20 Female
Material of Construction	Magnesium Alloy
Accessory Mount	<b>1 x</b> Multi-Interface Shoe <b>5 x</b> 1/4"-20 Female <b>3 x</b> 1/4"-20 Female

Dimensions	5.1 x 3.3 x 3.1" / 129.7 x 84.5 x 77.8 mm
Supplied Accessories	Accessory shoe cap, Accessory shoe kit, Battery Charger, Body cap, Handle shoe cap, Power cord, Rechargeable Battery, USB-A to USB-C cable (USB 3.2), XLR handle unit, carrying case,

The Supplier is required to mention the make/model (as applicable) of the goods to be supplied and must attach the appropriate original printed literature/brochures for the various items listed.

### **Documents required to be submitted as part of the Quotation**

The original and *copy(ies)* of quotation submitted by the Bidder shall comprise the following:

- (a) A duly completed and signed priced quotation as per the Schedule of Items.
- (b) A valid Trade License<sup>1</sup>;
- (c) A valid Tax Clearance Certificate;
- (d) The required bid security;
- (e) Technical Specification of the Goods to be supplied;
- (f) Any other requirements specified in this document

### **Terms and Conditions for the Supply of Goods and Payment.**

The Terms and Conditions hereinafter may only be varied with the written agreement of the Purchaser and no terms and conditions put forward at any time by the Supplier shall form any part of the Contract.

1. The Supplier shall be required to submit performance security of 10% of the quoted price in the form of cash warrant, demand draft, or unconditional Bank Guarantee issued by a financial institution located in Bhutan, which shall be furnished upon signing the contract. The performance security shall be valid till the end of the warranty period and will be returned after the end of the warranty period.
2. The supply of the goods and related services shall be completed within 45 days from the date of issue of the Purchase Order, or the signing of the contract whichever is later
3. The Supplier shall agree to supply/perform the required after-sales services/maintenance at the quoted price agreed in the contract.

---

<sup>1</sup> The non submission of historical (b & c) documents should not become rejection criteria and should be given one chance to the bidder(s) to submit.

- 
4. The Purchaser shall arrange payment of the invoice, within thirty (30) days upon submission of the original Invoice and against the actually supplied quantities of goods as listed in the Purchase Order.
  5. The quoted price shall include all taxes, duties, insurance, and any other costs involved and nothing extra shall be paid.
  6. Any goods found defective during the warranty period shall be replaced/repaired by the supplier at his cost. If the supplier fails to rectify and or replace the defective goods, the purchaser shall do it at the cost of the supplier.
  7. The supplier shall supply the Goods required within 45 days from the date of placement of the purchase order or signing of the contract. The supplier shall pay liquidated damages at the rate of 0.1% per day for each day of delay to a maximum of 10% of the quoted price.
  8. The Purchaser may, by written notice, terminate the Purchase Order (or Contract if applicable) in whole or in part at any time for its convenience:
    - a. if the Supplier fails to perform any other Terms and conditions specified with the Purchase Order, or exceeds the maximum amount of liquidated damages.
    - b. if the Supplier fails to perform any other obligation(s) under the Purchase Order, or
    - c. if the Supplier does not take any remedial action within a period of (7) seven calendar days after receipt of a notice of default from the Purchaser specifying the nature of the default(s), or
    - d. if the Supplier, in the judgment of the Purchaser, has engaged in any corrupt or fraudulent practices in competing for or in executing the tasks under this Purchase Order; and
  9. The Supplier shall provide the warranty, as stipulated in the Quotation document, for the goods to be supplied and confirm that if any faults are detected within the warranty period in the supplied/installed goods, the Supplier shall be bound to rectify the fault or replace the goods as the case may be. The security deposit shall be used to cover the cost of supplies not delivered or defective items not replaced or rectified.
  10. The purchaser may procure any of the items from the open market in case the supplier fails to supply the goods within the stipulated time and realise the difference amount between the quoted price & market price from the security deposit

Signature of Supplier	Supplier's Stamp
Name of Supplier	

---

Date	
------	--



---

## Bid Security (Bank Guarantee)

*[The Bank shall fill in this Bank Guarantee Form in accordance with the instructions indicated.]*

*[insert Bank's Name, and Address of Issuing Branch or Office]*

**Beneficiary:** \_\_\_\_\_ *[Name and Address of Purchaser]*

**Date:** \_\_\_\_\_

**BID GUARANTEE No.:** \_\_\_\_\_

We have been informed that *[insert name of the Bidder]* (hereinafter called "the Bidder") has submitted to you its Bid dated (hereinafter called "the Bid") for the execution of *[insert name of Contract]* under Invitation for Bids No. *[insert IFQ number]* ("the IFQ").

Furthermore, we understand that, according to your conditions, Bids must be supported by a Bid Guarantee.

At the request of the Bidder, we *[insert name of Bank]* hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of *[insert amount in figures]* (*[insert amount in words]*) upon receipt by us of your first demand in writing accompanied by a written statement stating that the Bidder is in breach of its obligation(s) under the Bid conditions, because the Bidder:

- (a) has withdrawn its Bid during the period of Bid validity specified by the Bidder in the Form of Bid; or
- (b) having been notified of the acceptance of its Bid by the Purchaser during the period of Bid validity, (i) fails or refuses to execute the Contract Form; or (ii) fails or refuses to furnish the Performance Security, if required, in accordance with the Instructions to Bidders.

This guarantee will expire: (a) if the Bidder is the successful Bidder, upon our receipt of copies of the contract signed by the Bidder and the Performance Security issued to you upon the instruction of the Bidder; or (b) if the Bidder is not the successful Bidder, upon the earlier of (i) our receipt of a copy of your notification to the Bidder of the name of the successful Bidder; or (ii) twenty-eight days after the expiration of the Bidder's Bid.

Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date.

\_\_\_\_\_  
*[signature(s)]*

---

## Sample Manufacturer's Authorization

*[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and be signed by a person with the proper authority to sign documents that are binding on the Manufacturer. The Bidder shall include it in its bid, if so indicated in the **BDS**.]*

Date: *[insert date of Bid Submission]*

Invitation for Bid No.: *[insert IFB number]*  
*Alternative No.: [insert identification No if this is a Bid for an alternative]*

To: *[insert complete name of the Purchaser]*

### WHEREAS

We *[insert complete name of the Manufacturer]*, who are official manufacturers of *[insert type of Goods manufactured]*, having factories at *[insert full address(es) of the Manufacturer's factory/ies]*, do hereby authorize *[insert complete name of Bidder]* to submit a Bid in relation to the Invitation for Quotation indicated above, the purpose of which is to provide the following Goods, manufactured by us, namely *[insert name and/or brief description of the Goods]*, and subsequently to negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 29 of the General Conditions of Contract, with respect to the Goods offered by the above firm.

Signed: *[insert signature(s) of authorized representative(s) of the Manufacturer]*

Name: *[insert complete name(s) of the authorized representative(s) of the Manufacturer]*

Title: *[insert title(s) of the authorized representative(s) of the Manufacturer]*

Duly authorized to sign this Authorization for and on behalf of *[insert complete name of the Bidder]*

Dated on the *[insert number]* day of *[insert month]*, *[insert year]*.