

**NOTICE INVITING QUOTATION / TENDER
FOR SUPPLY OF EQUIPMENTS/SYSTEMS FOR DST-CCP-HICAB SPONSORED
RESEARCH PROJECT AT NIT MANIPUR**

Ref. No.: NITM.1/(253–Estt)/DST/CCP/HICAB/2019/1068

Dated: 28/01/2020

Sealed Quotations in prescribed format are invited from Authorized Agents/Indian Manufacturers/Dealers/ Registered Firms etc. for the supply of the following equipments, required for the DST–CCP–HICAB sponsored research project at the Department of Civil Engineering, NIT Manipur

PROJECT DETAILS: Supply of Equipments/Systems at Department of Civil Engineering for the DST–CCP–HICAB sponsored research project entitled:

“ADAPTIVE WATER BALANCE SCHEMATIZATION AT SUB-BASIN SCALE FOR DYNAMIC CLIMATIC VARIATIONS IN MANIPUR IHR REGION”

Quotations/Tenders are invited for procurement of the following items for the above DST–CCP–HICAB sponsored research project in the **Department of Civil Engineering, NIT Manipur:**

Sl. No	Items (Equipments/Systems)	Qty.	Purpose/Usage (in brief)	Technical Specifications (attached as)
1.	Digital Handheld Water Velocity Meter / Water Flow Probe	1 no	For measuring flow velocity in both field (rivers, channels, etc) and laboratory channels	Annexure – 1
2.	Sediment Sampler (Depth integrated sampler, USGS – P61, etc)	1 no	For measuring suspended silt/sediment load transport in alluvial rivers and streams	Annexure – 2
3.	Digital Lysimeter (Field-based, Portable)	1 no	For field measurement of evapotranspiration, etc	Annexure – 3
4.	PC Desktop Workstation	1 no	For geospatial data processing with high resolution, hydrological and climate modelling implementations	Annexure – 4
5.	Laptop Workstation PC	1 no	For field-based seamless geospatial data and hydrographic data processing with high resolution, climatic data analysis, etc	Annexure – 5
6.	Colour Printer A3 LaserJet	1 no	For routine project work, map composition, etc	Annexure – 6
7.	Laptop PC	1 no	For routine field hydrological and climatic data input and compilation	Annexure – 7

Sd/-

Registrar (i/c)
National Institute of Technology Manipur

TERMS AND CONDITIONS:

1. The Notice Invitation Quotation (NIQ) is open from the date of uploading of the same in the official website of NIT Manipur at www.nitmanipur.ac.in.
2. The last date of receipt of quotations (by post/hand) will be 21 days from the date of opening i.e uploading in the institute website: **21/02/2020**. (04:00 P.M).
3. Only prescribed format, to be downloaded from NIT Manipur website **www.nitmanipur.ac.in** shall be considered.
4. An amount of Rs.500/- (non-refundable) as the cost of downloaded quotation form in favour of “Director, NIT Manipur” by Demand Draft payable at Bank of Baroda, NIT Manipur branch (IFSC: **BARB0NITMAN**) or State Bank of India, Imphal Secretariat branch, Imphal, Manipur, should also be sent along with quotation.
5. The sealed quotations will be opened on: **24/02/2020 (11:00 A.M)** by the constituted purchase/tender committee.
6. All bidding documents must be sent/submitted to the institute in a sealed format by registered/speed post/hand to the **Dr. Ng. Romeji Singh (P.I.), Asst. Professor, Department of Civil Engineering, NIT Manipur, Langol, Imphal (W)–795004** on or before the last date. No delays on account of postal handling, etc will be entertained.
7. The envelope should be super scribed as “**Supply of**” (*relevant item*) at Department of Civil Engineering, NIT Manipur, for the Project entitled “**Adaptive Water Balance Schematization at Sub-Basin Scale for Dynamic Climatic Variations in Manipur IHR Region**”.
8. The Institute reserves the right to accept or reject quotation in whole or in part in the manner decided by the Departmental Purchase Committee/P.I., whose decision shall be final and binding. Mere submission of bidding documents does not entitle to qualify for the tender and supply process.
9. All quotes must be inclusive of all taxes as GST, and duties and for destination at laboratory site in NIT Manipur, Langol, Lamphelpat, Imphal (W)–795004. No separate freight shall be chargeable under any circumstances.
10. Rate quoted will be valid for **at least 3 (three) months**.
11. The payment for items will be done after receiving the items in good condition.
12. Purchase Order (P.O) will be issued to the Qualified Firms based on the outcome of the recommendations of the Tender Committee. However, Firms who do not respond upon receipt/providing P.O. within 15 days, will automatically stand cancelled/rejected. The next 2nd Applicable Firm will be provided with the P.O. or/as based on the recommendations of the Tender Committee.

Note: All Quotations should be submitted in the official letter head of the firm/agency.

Sd/-

Dr. Ngangbam Romeji
(Principal Investigator, DST-CCP-HICAB project)
Assistant Professor
Department of Civil Engineering
National Institute of Technology Manipur

ANNEXURE-I

FIRM/COMPANY/AGENCY PROFILE & FEE DETAILS

Ref. No.: _____ Dated: _____

LIMITED TENDER NOTICE/NIQ – Supply and Installation of Equipments/Systems for DST-CCP-HICAB Sponsored Research Project at Department of Civil Engineering, NIT Manipur

Bidding Reference no.: Dated:

FOLLOWING DETAILS ARE TO BE FURNISHED BY THE BIDDING FIRMS:

1. Name of the Firm:
2. Address of the Firm:
3. Contact no:
4. Email address:
5. Registration details:
6. Permanent Account Number:
7. Service Tax registration, GST registration details:
8. Bank Account details including Account Number, Bank name, Branch name & IFSC code:
9. Application fee details – Name of Bank..... DD no.....
Date:
10. EMD fee details-
Name of the bank.....
Date
Amount

Note: Copies of the relevant documents are to be enclosed along with this Annexure including copy of latest filed Income Tax Returns (ITR) for FY 2019–2020.

(in FIRM/COMPANY/AGENCY/DEALER's Letterhead)

DECLARATION:

I/We hereby declare that I/We have read & understood all the terms & conditions mentioned in the Notice Inviting the sealed quotations and I/We undertake myself/ourselves to abide by them.

I/We further, declare that all the information given above are true.

Name:

[Official Seal]

Designation:

Signature:

Place:

Date:

ANNEXURE-II

TECHNICAL AND FINANCIAL BID

**LIMITED TENDER NOTICE/NIQ – Supply and Installation of
Equipments/Systems for DST-CCP-HICAB Sponsored Research Project at
Department of Civil Engineering, NIT Manipur**

Bidding Ref. No.:

Dated:

TABLE 1 and TABLE 2 are to be furnished by the BIDDING FIRMS for items as applicable:

TECHNICAL BID

(in FIRM/COMPANY/AGENCY/DEALER’s Letterhead)

Table 1: PRODUCT MAKE AND MODEL

Sl. No	Equipment/Software/ Instrument	Qty.	Purpose/Usage (in brief)	Desired / Preferred Product	Quoted Product, Make & Model
1.	Digital Handheld Water Velocity Meter / Water Flow Probe	1 no	For measuring flow velocity in both field (rivers, channels, etc) and laboratory channels	Global Water Instruments: Flow Probe FP211	
2.	Sediment Sampler (Depth integrated sampler)	1 no	For measuring suspended silt/sediment load transport in alluvial rivers and streams	USGS– P61/ USD-48	
3.	Digital Lysimeter (Field-based, Portable)	1 no	For field measurement of evapotranspiration, etc	Smart Field Lysimeter SFL-300 / Ready-To-Go Lysimeter 300-300	
4.	PC Desktop Workstation	1 no	For geospatial data processing with high resolution, hydrological and climate modelling implementations	HP Z440 Work Station	
5.	Laptop Workstation PC	1 no	For field-based seamless geospatial data and hydrographic data processing with high resolution, climatic data analysis, etc	HP Laptop Z Book 14 Work Station	
6.	Colour Printer A3 LaserJet	1 no	For routine project work, map composition, etc	HP LaserJet Pro 500 Colour mfp M570dw printer	
7.	Laptop PC	1 no	For routine field hydrological and climatic data input and compilation	HP Envy x360 Ryzen 5 13.3-Inch 2-in-1	

(in FIRM/COMPANY/AGENCY/DEALER's Letterhead)

**Table 2: ELIGIBILITY CRITERIA FULFILMENT
(as applicable to the BIDDING FIRM for items quoted)**

Sl. No	Equipment/Software/ Instrument	Qty.	Product Eligibility Criteria/Standards	Please state in (Yes/No) Whether the quoted product fulfills the product eligibility criteria
1.	Digital Handheld Water Velocity Meter / Water Flow Probe	1 no	Global Water Instruments: Flow Probe FP211	
2.	Sediment Sampler (Depth integrated sampler)	1 no	USGS– P61/ USD-48	
3.	Digital Lysimeter (Field-based, Portable)	1 no	Smart Field Lysimeter SFL- 300 / Ready-To-Go Lysimeter 300- 300	
4.	PC Desktop Workstation	1 no	HP Z440 Work Station	
5.	Laptop Workstation PC	1 no	HP Laptop Z Book 14 Work Station	
6.	Colour Printer A3 LaserJet	1 no	HP LaserJet Pro 500 Colour mfp M570dw printer	
7.	Laptop PC	1 no	HP Envy x360 Ryzen 5 13.3- Inch 2-in-1	

(in FIRM/COMPANY/AGENCY/DEALER's Letterhead)

**DETAILS to be furnished by the BIDDING FIRMS for
FINANCIAL BID**

(to be enclosed in separate sealed envelope inside main envelope containing Technical Bid and other documents)

TABLE 3: FINANCIAL BID FORMAT

Sl. No.	Item Description (Equipment, System)	Qty.	Rate/Amount (in INR Rs)	Applicable GST Amt. (Rs)	Any Other Taxes/Duties (Rs)	Total Amount (without taxes) (Rs)	Total Amount (with taxes) (Rs)	Discounts, if applicable/any (for academic institutions) (% / Rs)
1.	Digital Handheld Water Velocity Meter / Water Flow Probe							
2.	Sediment Sampler (Depth integrated sampler)							
3.	Digital Lysimeter (Field-based, Portable)							
4.	PC Desktop Workstation							
5.	Laptop Workstation PC							
6.	Colour Printer A3 LaserJet							
7.	Laptop PC							
	TOTAL (as per items quoted)							

(in FIRM/COMPANY/AGENCY/DEALER's Letterhead)

DECLARATION:

I/We hereby declare that I/We have read & understood all the terms & conditions mentioned in the Notice Inviting the sealed quotations and I/We undertake myself/ourselves to abide by them. I/We further, declare that all the information given above are true and the quoted products are in compliance to the item specifications listed above in Annexure II (Technical and Financial Bid)

Name:

Designation:

Signature:

[Official Seal]

Place:

Date:

TECHNICAL SPECIFICATIONS

Annexure-1

1. Digital Handheld Water Velocity Meter / Water Flow Probe

Range	0.3-19.9 FPS (0.1-6.1 MPS)
Accuracy	0.1 FPS
Averaging	True digital running average. Updated once per second.
Display	LCD, Glare and UV Protected
Control	4 button
Datalogger	30 sets, MIN, MAX, and AVG
Features	Timer, Low battery warning
Sensor Type	Protected Turbo-Prop propeller with magnetic pickup.
Weight	Instrument: 3 lbs. (1.4 kg) (FP211)
Expandable Length	5.5 to 15 ft (1.7 to 4.6 m) (FP211)
Materials	Probe: PVC and anodized aluminum with stainless steel water bearing Computer: ABS/Polycarbonate housing with polyester overlay
Power	Internal Lithium Battery, Approx 5 year life with typical use, Non-Replaceable
Auto Shutoff	After 5 minutes of inactivity
Operating Temperature	-4° to 158° F (-20° to 70° C)
Storage Temperature	-22° to 176° F (-30° to 80° C)

2. Sediment Sampler (Depth-Integrated sampler: USGS – P61, USD-48 etc)

Type: Cast bronze sampler having an electrically operated valve for collection of a suspended-sediment sample at any point in a stream cross section or to take a depth-integrated sample over a range of depths.

Orientation: Sampler head is hinged to provide access to the round pint or quart bottle sample container (not furnished) which is located in a cavity in the sampler body. An exhaust port pointing downstream on the side of the sampler head permits escape of air from the bottle as it is displaced by the sample being collected.

Mechanism: Valve mechanism enclosed in the head of the sampler electrically activated to start and stop the sampling process.

Approximate length : 28 inches (71 cm)

Weight : 105 lbs. (48 kg)

Accessories: Suspension Line/cables, Processing software, etc

3. Digital LYSIMETER (Field-based, Portable)

Technical Specifications:

Bi-directional boundary control, basic setup, extendable to up to 4 Lysimeters.

Consisting of:

LYSIMETER

Stainless steel cylinder, height 300 mm, inner diameter 300 mm, 6 sensor ports, 2 each in 5, 15 and 25 cm

Field enclosure with removable sealing and collar, diameter 46 cm, height 45 cm

Lower hydraulic boundary control for bi-directional regulation of the, controlled by field matrix potential or manually

PL-50 weighing platform for Lysimeter

3 x 5TE Echo-probes for soil moisture

3 x MPS-2 probes for matrix potential

Auger set for probes

FIELDBOX

PL-10 weighing platform for leachate tank

Pumping unit

1 x T8 field reference Tensiometer

Leachate tank, 10 litres

LOGGERBOX

Data logger DT80-M with integrated GPRS/3G-modem for data transfer and remote access, SIM-ready SIM-Card with Data upload contract to UMS Webserver for 12 months

Rechargeable battery 12 V/26 Ah, charger and power-management module

Solar panel, enclosure and mast, integrated lightning protection

Preassembled with 5 mtr. Kabel for 2.7 meter distance to FIELDBOX, tested and documented

4. PC Desktop Workstation

Specifications (Hardware, Accessories, etc):

Processor: Intel Xeon@2.4GHz
RAM: 8GB DDR4 RAM (expandable)
Graphic Card : NvidiaQuadro K4200 4GB
Hard Disk Drive: 2TB HDD (expandable)
Monitor : 23" LED
Optical Mouse USB, Keyboard USB
8 USB 3.0 Ports
8x DVD RW Drive
LAN 1000
OS: Windows 7/ Windows 8/ Windows10 Professional 64 Bit
Power supply: 1125W with 90% efficiency,
Update Industrial Design.

5. Laptop Workstation

Specifications (Hardware, Accessories, etc):

Processor : Intel Xeon@3.5GHz
RAM : 8GB DDR3 (expandable)
Graphic Card : Nvidia Quadro K2200 4GB
Hard Disk : 1TB HDD
Monitor : 17" LED IPS
Optical Mouse USB, Keyboard USB
Ports : 8 USB 3.0
DVD RW Drive 8x
LAN 1000
OS: Windows 7/ Windows 8/ Windows10 Professional 64 Bit
Power Supply : 700W with 90% efficiency
Update Industrial Design.

6. LaserJet Colour Printer A3 (Multi-Function)

Technical Specifications

Print speed¹⁰	Up to 30 ppm, A3 (Colour, B/W)
First page out/First copy out¹¹	As fast as 10.5 sec, A4 (Black & Colour)/As fast as 10 sec (Black), As fast as 18 sec (Colour), A4
Print resolution/Print resolution technologies	Up to 600 x 600 dpi
Control panel	3.5-in intuitive touchscreen control panel with color graphic display; Buttons (Home, Cancel, Help, Right/Left Arrows, Back); LED indicator lights (Ready, Error, Wireless)
Processor/Memory	800 MHz/256 MB
Scan type	Flatbed, ADF
Scan file format	PDF, searchable PDF, JPG, RTF, TXT, BMP, PNG, TIFF
Scan resolution	Up to 300 x 300 dpi (Colour and Mono, ADF); Up to 1200 x 1200 dpi (Mono, Flatbed)
Grey scale levels	256
Input/Output	Up to 350 sheets (Standard), Up to 850 sheets (Maximum)/Up to 250 sheets
Duplex printing	Automatic (standard)
Sizes	Tray 1: A4; A5; A6; B5 (JIS); B6 (JIS); 16K; 10 x 15 cm; postcards (JIS single, JIS double); envelopes (ISO DL, ISO C5, ISO B5); Tray 2, optional Tray 3: A4; A5; B5 (JIS); 16K; Automatic two-sided printing unit: A4; A5; B5 (JIS)
Weights	Tray 1: 60 to 216 g/m ² (plain paper), 105 to 220 g/m ² (glossy paper); Automatic two-sided printing unit: 60 to 163 g/m ² (plain paper), 105 to 220 g/m ² (glossy paper)
Types	Paper (bond, brochure, colored, glossy, letterhead, photo, plain, preprinted, prepunched, recycled, rough), postcards, transparencies, labels, envelopes
Interfaces	1 Hi-Speed USB 2.0; 1 Host USB; 1 Gigabit 10/100/1000T Ethernet; 1 WiFi 802.11 b/g/n TrueType fonts
Network capabilities	Via built-in 10/100/1000 Fast Ethernet; Wireless 802.11 b/g/n
Client operating systems	Full software installs supported on: Microsoft® Windows® 8 32-bit and 64-bit, Microsoft® Windows® 7 32-bit and 64-bit, Windows Vista® 32-bit and 64-bit, Windows® XP 32-bit (SP2 or higher), and Windows Server 2012; Microsoft® Windows® Server 2008 32-bit and 64-bit, Mac OS X v 10.6, OS X Lion (10.7) & OS X Mountain Lion (10.8); Linpus Linux (9.4, 9.5), Red Hat Enterprise Linux 5.0 (supported with a pre-built package); SUSE Linux (10.3, 11.0, 11, 11.1, 11.2), Fedora (9, 9.0, 10, 10.0, 11.0, 11, 12, 12.0), Ubuntu (8.04, 8.04.1, 8.04.2, 8.10, 9.04, 9.10, 10.04)
Network protocols	Via built-in networking solution: TCP/IP, IPv4, IPv6; Print: TCP-IP port 9100 Direct Mode, LPD (raw queue support only), Web Services Printing, IPP Print, FTP Print; Discovery: SLP, Bonjour, Web Services Discovery; IP Config: IPv4 (BootP, DHCP, AutoIP, Manual), IPv6 (Stateless); Wireless: 802.11 b/g/n, WPA2-PSK,
Plug and play	Auto Wireless Connect
Warranty¹⁶	One-year, on-site limited warranty
Power supply required	Input voltage 110 to 127 VAC (+/- 10%), 60 Hz (+/- 2 Hz), 12 A; Input voltage 220 to 240 VAC (+/- 10%), 50 Hz (+/- 2 Hz), 6 A
Power consumption¹⁷	605 watts (Printing), 440 watts (Copying), 52 watts (Ready), 8.1 watts (Sleep), 0.3 watts (Off)

7. Laptop PC (portable)

- Processor: AMD Ryzen 5 3500U Quad-Core processor (2.1 GHz base processor speed, up to 3.7 GHz burst frequency, 4 Core, 4 MB cache)
- OS & Software: Windows 8/Windows 10 with lifetime validity | MS Office Home & Student 2019
- Display: 13.3-inch Full HD (1920x1080) ; Touchscreen Display | MS Active Pen
- Memory, Graphics & Storage: 8GB DDR4 RAM with AMD Radeon Vega 8 Graphics
- Storage: 512 GB upto 1 TB (expandable)
- Design and battery: Touchscreen Convertible Laptop, thin and light design,
- Laptop weight: upto 1.5 kg,
- Lithium battery: 4-cell, 53 Wh Li-ion Fast Charge Battery
- Warranty: 1-year domestic warranty covering manufacturing defects
- Ports and CD drive: 2 USB 3.1 Type-A ports, 1 USB 3.1 Type-C (Data Transfer up to 5 Gb/s, Power Delivery, HP Sleep and Charge), without CD-drive, 1 headphone/microphone combo
- Other features: Finger Print Reader, Webcam Kill Switch, Inking Pen, B&O Play Audio, Bluetooth, 2x2 Wifi, SSD Storage