

**INDIAN INSTITUTE OF FOREST MANAGEMENT,
POST BOX 1, NEHRU NAGAR BHOPAL 462 003**
Tel: EPABX :0755-2775716,2773799, Fax: 0755-2772878

E-TENDER NOTICE

**TENDER FOR SUPPLY AND INSTALLATION OF HYDROLOGICAL EQUIPMENTS
FOR NARAMA LANDSCAPE RESTORATION PROJECT
TENDERS/2021-22/PROJ - NLRP/EQUIPMENTS/01**

Online Tenders (2 Bid system – Technical and Financial) are invited on behalf of Director, Indian Institute of Forest Management, Bhopal from experienced and professional producers and suppliers of Scientific Instruments and installations for Hydrological Study under the Narmada Landscape Restoration Project (NLRP) as per specifications indicated in this tender document. The tender documents are available in our website www.iifm.ac.in/tender, <https://moefcc.euniwizarde.com>. or www.eprocure.gov.in. The tender document can be down-loaded from <https://moefcc.euniwizarde.com>. Last date and time for submitting online bid is 13-07-2021 at 3.300 pm.

(Chief Administrative Officer)

Instructions for Online Bid Submission:

The bidders are required to submit soft copies of their bids electronically on the e-tender Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the e-tender Portal, prepare their bids in accordance with the requirements and submitting their bids online on the e-tender Portal.

More information useful for submitting online bids on the e-tender Portal may be obtained at: <https://moefcc.euniwizarde.com>

REGISTRATION

1. Bidders are required to enroll on the e-Procurement Portal (URL: <https://moefcc.euniwizarde.com>) with clicking on the link "Online bidder Registration" on the e-tender Portal by paying the Registration fee of Rs. 2360/- (Including GST) year charge.
2. As part of the enrolment process, the bidders will be required to choose a unique user name and assign a password for their accounts.
3. Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication with the bidder.
4. Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Only Class III Certificates with signing + encryption key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.), with their profile.
5. Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC"s to others which may lead to misuse.
6. Bidder then logs in to the site through the secured log-in by entering their user ID/password and the password of the DSC / e-Token.
7. The scanned copies of all original documents should be uploaded on e- Procurement portal. (<https://moefcc.euniwizarde.com>)

Please feel free to contact ITI Helpdesk (as given below) for any query related to e-tendering.

1. Helpdesk landline No: 011-49606060, 2. Dheeraj-9113711647, 3. Mr. Amit Kumar Jha-9999728398

Name of Work	TENDER FOR SUPPLY AND INSTALLATION OF HYDROLOGICAL EQUIPMENTS FOR NARAMA LANDSCAPE RESTORATION PROJECT TENDERS/2021-22/PROJ - NLRP/EQUIPMENTS/01
Estimated Purchase Cost	Rs. 7.5.00 lakh appx
Bid Security (Earnest Money Deposit)	EMD exemption declaration under GFR 2017 Rule No.170(iii) to be given.
Availability of tender document on website :	https://moefcc.euniwizarde.com

Last date of submission of tender	13-07-2021 upto 3.00 pm
Date and time for opening online technical bids	13-07-2021 at 3.30 pm
Date and time for opening online financial bids for technically Qualified bidders.	After technical analysis
Place of Opening of Bid	Indian Institute of Forest Management, Bhopal
Officer Inviting Bid	Chief Administrative Officer Indian Institute of Forest Management Nehru Nagar, Bhopal 462003
Tender Processing Fee	Rs. _____/- by Online (Five Hundred Ninety Rupees only) Including GST

INDIAN INSTITUTE OF FOREST MANAGEMENT, BHOPAL

TENDER FOR SUPPLY AND INSTALLATION OF HYDROLOGICAL EQUIPMENTS FOR NARAMA LANDSCAPE RESTORATION PROJECT TENDERS/2021-22/PROJ - NLRP/EQUIPMENTS/01

1. Introduction

Narmada Landscape Restoration Project (NLRP) is an India Partnerships Program (IPP) jointly implemented by the Indian Institute of Forest Management (IIFM), Bhopal & Global Green Growth Institute (GGGI). NTPC & USAID Ltd are IPP resource partners providing matching contribution to the NLRP.

The four-year project, to be implemented during 2020 - 2024, seeks to improve quantity and quality of water in selected tributaries of river Narmada, i.e. between Omkareshwar and Maheshwar Dams in Khargone district, Madhya Pradesh through inclusive and sustainable landscape management interventions. By demonstrating the contributory relationship between sustainable landscape management practices in the upstream with quantity and quality of water resources in the downstream, the project results will encourage stakeholders to participate in enhanced ecosystem services through an incentivization mechanism developed by the project intervention.

The project has three main objectives:

- To develop capacities and provide incentives for sustainable landscape management for local communities in the upland watershed (north and south bank).
- To create awareness of the importance of ecosystem services and sustainable landscapes management.
- To develop an incentivization mechanism based on the landscape management practices

IIFM is herewith inviting NGOs/ CSOs to implement the field activities to be identified under NLRP as per the framework agreement. The services of NGOs/ CSOs will be required till the end of the project activities, i.e. year 2024.

The goal of the NLRP is to demonstrate and establish an incentivization mechanism for improved and sustainable ecosystem services, primarily water as an important ecosystem service from the protected catchments. The development hypothesis to achieve this goal is that sustainably managed forest and agriculture landscape practices in the upstream will have a positive impact on the ecosystem services like water resources in the downstream thereby encouraging the actors to participate in a mechanism to sustain the improved ecosystem services.

Project Location: NLRP will carry out field activities in villages and watersheds in Barwaha block of Khargone.

Project Theory of Change and Logic Model: The project objectives, targets and theory of change are depicted in the table and diagram below.

Table 1: Project Objectives and Targets

Objective	Indicator	Target
1. To develop capacities and provide incentives for sustainable landscape management by local communities in the upland watershed (north and south bank)	<p>1.1. Number of hectares of biologically significant areas showing improved biophysical conditions and natural resource management.</p> <p>1.2. Number of people receiving livelihood co-benefits (monetary or non-monetary) associated with the implementation of sustainable landscapes activities.</p>	<p>1.1.1. Restore up to 10,000 (ten thousand) hectares of the mixed landscape comprising of North Bank (predominantly forest) and South Bank (predominantly agricultural) landscape.</p> <p>1.2.1. Train at least 500 beneficiaries (inclusive of at least 150 women) including those from collectives/institutions like Joint Forest Management Committees (JFMCs), SHGs, FPOs, especially women, for livelihood related activities.</p> <p>1.2.2. Establish market links for at least 2 (two) farmer groups (50-100 farmers in each group) under horticulture and other certification schemes</p>
2. To create awareness of the importance of ecosystem services and sustainable landscapes management	2.1. Increase in awareness about sustainable landscape management and interdependency of upstream activities on downstream water resources.	<p>2.1.1. Develop at least 15 knowledge products for wide public dissemination.</p> <p>2.1.2. Exposure for at least 20 Government functionaries and public representatives to ecosystem services and sustainable landscape management.</p>
3. To develop an incentivization mechanism based on sustainable landscape management practices	3.1. Documentation describing the incentivization mechanism and associated scheme design submitted to and accepted by the sub-national government.	<p>3.1.1. 1 (One) Detailed Project Report (DPR) for accessing results-based payment developed.</p> <p>3.1.2. 1 (One) document for Incentivization mechanism developed.</p> <p>3.1.3. 1 (One) document scheme design developed.</p>

2. SCHEDULE OF REQUIREMENTS AND SPECIFICATIONS.

Name of Instrument, Settings and Numbers	Number of units
<p>Automatic digital rain gauge with data logger (tipping bucket)– 1 Number Supply and installation& training of Automatic digital rain gauge with data logger (tipping bucket) of durable, highly accurate, easy to install and facility for transmission.</p> <p>Essential: Durable and rough weather with stand to high impact of UV protection material, instrument for monitoring rate of rainfall and total rainfall. Rain Gauge system must be having rain gauge sensor integrated with data logger. Sensor: Tipping Bucket / with syphon Sensitivity: 0.25 mm /0.5mm Operating range: 0-500 mm/h Mouth: Ring diameter of 203 mm Catch Area Collector: 330cm² Accuracy: 2% (25 to 500 mm/h) Insect Protection: Metal mesh in the discharge funnel Measuring periods: User Programmable Leveling: by leveling bubble Sensor Construction: Fiber or other weather resistant material Operating Temperature: -1°C to 60° C Cable : 40ft or more, 2 conductors</p>	1
<p>Weirs– 4 numbers in four different locations</p> <p>Essential: Supply and installation/ construction of Weirs to measure the stream/ catchment runoff 3mm thick M.S. Plate, overall size 3’ wide x 2’ height, fitted with steel scales</p>	4
<p>Automatic water flow(stage level) recorder– 1 number</p> <p>Essential: Highly accurate portable water flow meter incorporating true velocity averaging for the most accurate flow measurements. The supplied high quality instrument is competent enough in storm water runoff studies, sewer flow measurements,</p>	1

measuring flows in rivers and streams, and monitoring water velocity in ditches and canals, etc.	
Runoff plot study (incl. of installation cost) Essential: Set-up in the field for Runoff plot study, size will vary with field condition	As per narration
Screw auger – 2 numbers Essential: Standard size with corrosion resistance	2
Field portable weighing instrument – 1 number Essential: Digital weighing instrument for soil samples, with weighing capacities to 30kg with increments down to 0.05g. Made of durable material 20-40 mm LCD weight display 150 - 200-hour internal rechargeable battery Multiple software application modes	1
Soil moisture sensors and logger – 5 number Essential: It measures the water content in soil and it is made up of multiple soil moisture sensors Input connections: 6 voltage channels Temperature range: -10 to +50°C Display: Digital Size: 180 x 160 x 70 mm Typical application: Monitoring soil moisture profiles	5
Portable groundwater level meter – 1 number Essential: Durable polypropylene or equally competent storage reel with rugged solid aluminum frame for easy transportation. Highly accurate Polyethylene coated (or similar material) steel tape marked in engineering or metric increments Field serviceable 5/8" (1.59cm) probe with stainless steel conductors for durability, an optional non-field replaceable probe, Audible and visible alarms when the probe makes contact with water Replaceable battery Water resistant carrying case	1

Built in reel hanger e Additional Steel tape and tape weight	
Enameled dual colour – 30 numbers Essential: 1M long River Gauge Plates 4" width corrosion free material (incl. installation cost)	30
Open Pan Evapor-meter – 1 number Essential: Equipment to measure evaporation loss from the free surface water body Pan consists: Diameter: 120.7 cm Depth: 25.4 cm Made of: minimum 20 gauge galvanized iron sheet with a stilling well of size 10 cm diameter and 30 cm height No. of Pulse Count Digit: minimum 6 Digit Unit of evaporation: mm Measurement of Area: Up to 10 m ² Measurement Value: 10 m ² Maximum Cumulative Area: 0.1 m ²	1
Suspended Sediment Sampler – 1 number Essential: Require a depth integrating type Suspended Sediment Sampler, which will be used to collect the sediment samples in shallow streams with velocity 10 ft/sec. Sampler of 13" streamlined aluminum casting (or equally durable material) partially encloses a pint sample container. The supplied Sampler is with one 1/4" calibrated nylon nozzle along with wading rod bottles	1
Analytical balance – 1 number Essential: Digital with LCD display with maximum capacity 250 gm Reading Precision:1mg Pan Size: approximately 90mm Shape Size: Approximately 30*33*32.5cm AC: 220V/50HZ	1
Hot air oven – 1 number Essential: Double walled design Adequate insulation to prevent heat loss	1

Forced air circulation blower Microprocessor based Digital Temp Controller cum indicator Temperature range : Range of 50°C - 250°C Temperature Accuracy : $\pm 0.5^{\circ}\text{C}$ Temperature display : Digital Operates : 230 Volts, 50 Hz, Heavy duty stainless steel lock and door hinges Heavy duty stainless steel sample trays	
Double ring infiltrometer – 1 number Essential: Double ring infiltrometer to determine the infiltration rate of water into the soil. Item should consists of 2 steel rings with different diameters, a hammer, floats, a stainless steel hammering cross and a stopwatch	1

3. GENERAL TERMS AND CONDITIONS OF TENDER

01. All rules laid down in the General Financial Rules 2017 and the Manual of Procurement 2017 issued by the Department of Expenditure, Ministry of Finance, Government of India will be applicable to this tender.

02. The tenderer should submit all required documents asked for in the Technical Bid format, failing which the Tender will be rejected.

03. The rates quoted should be indicated in figures as well as in words and there should not be any overwriting as far as possible. Overwriting, if any, should be initialed and office seal affixed.

04. This is an online Tender and therefore should be submitted online. However, physical document to be submitted to this office also taking a print-out of the document submitted online. Each and every page of the tender documents should be signed by the Tenderer and be submitted with the Technical Bid as a token of acceptance of terms and conditions of this tender. Technical Bid and Financial Bid should be put in separate sealed covers and both the covers should be put in a big cover, super-scribing "Tender for SUPPLY AND INSTALLATION OF HYDROLOGICAL EQUIPMENTS FOR NARAMA LANDSCAPE RESTORATION PROJECT, Tender No. TENDERS/2021-22/PROJ - NLRP/EQUIPMENTS/01"

05. The rates quoted (In Indian Rupees) for each item should **be inclusive of all cost of material, labour charges, supply and installation at IIFM/Project site**; but exclusive of GST. No concessional forms will be issued for any tax rebate. GST/Taxes as applicable at the time of billing will be paid in addition to the quoted price

07. The Director, IIFM, Bhopal reserves the right to accept or reject any or all the offers in full or apart or to waive off any formality, minor deviations and omissions without assigning any reason(s) or to cancel the tender in whole. The Institute reserves the right to reject conditional Tenders and also relax any conditions of Tender at its discretion.

08. Submission of offers shall be treated as the acceptance of Terms and Conditions of Tender and any counter terms shall not be accepted.

09. Tenderer shall not be permitted to withdraw his offer or modify the terms and conditions thereof. In case the tenderer fails to observe and comply with the stipulations made herein or backs out after quoting the rates, or does not supply the aforesaid items within the stipulated period, the appropriate action envisaged under GFR and at other Rules will be initiated.

10. The rates quoted by the bidder shall remain firm till the completion of the job and price variation shall not be entertained.

11. Earnest Money Deposit : No EMD is needed. However, the supplier has to submit a declaration under GFR 2017 Rule No.170(iii) in place of a Bid security (as per Appendix I).

12. Performance Guarantee : The successful bidder has to submit a performance guarantee of 5 (five) percent of the total project cost in the form of security deposit, Fix Deposit Receipt or Bank guarantee for a period extending to two months ahead of the Project Completion Period.

13. Breach of Terms and Conditions: In case of breach of any of terms and conditions mentioned above, the Director, IIFM will have the right to cancel the work order without assigning and reason thereof, and reserves the right to procure the items mentioned in the purchase order from alternate sources and their extra cost incurred thereof, if any, shall be recovered from the successful bidder and nothing will be payable by this Institute in that event and the appropriate action envisaged under GFR and at other Rules will be initiated.

14. The firm shall not assign or sublet the work or any part of it to any other person or party.

15. The tender is not transferable.

16. No payment shall be made in advance nor any loan from any bank or financial institution recommended on the basis of the order of award of work.

17. In case of non-compliance of the work order after entering into Agreement or withdrawal of the offer after submitting tender, the appropriate action envisaged under GFR and at other Rules will be initiated including further appropriate action at the cost of the bidder.

18. The Institute is not in any way bound to accept the lowest or any quotation and reserves the right to accept any quotation in whole or any part of the quotation or portion of the quantity offered and reserves the right if required to negotiate with any or all the Tenderers without assigning any reason(s), whatsoever.

19. In case of delay in supply within the specified time period in the Supply Order, Director IIFM without prejudice to its other remedies under the contract, deduct from the contract price as liquidated damages, a sum equivalent to 0.5% per week (To be calculated on number of day basis) of the price of the undelivered items upto maximum of 5%. Such penalty will be deducted from the Bills of the firm or from the Security Deposit of the Vendor.

20. In case of inferior quality of items, or supply of items not as per the approved specifications/sample, the Institute has the right to reject the complete material and cancel the supply order the appropriate action envisaged under GFR and at other Rules will be initiated including further appropriate action at the cost of the bidder.

21. The Tenderer should have its own establishment, which can be inspected at call by IIFM, before finalization of the Tender.

22. The Institute has the right to retain the rates of L-1 to L-3 parties as deemed fit.
23. Criteria for award of supply order will be based on the rates quoted by the bidders, besides fulfilling other criteria as asked for in the Tender documents.
24. Validity of this Tender will be 3 months from the date of submission of the Tender.
25. If the last date of receipt and opening of the Tender happens to be a declared holiday by unforeseen circumstances, the Tender will be received and opened on the immediate next working day.
26. A self declaration, declaring the bidder has not been blacklisted by a Central/State/Local Government Organisation/Academic Institution/PSU to be submitted.
27. IIFM requires that the bidders who wish to bid for this work have highest standards of ethics. IIFM reserve the right to reject a bid if it determines that the bidder recommended for award has engaged in corrupt or fraudulent practices while competing for this contract. IIFM may declare a vendor ineligible, either indefinitely or for a stated duration, to be awarded a contract if it at any time determines that the vendor has engaged in corrupt and fraudulent practices during the execution of the contract.
28. In case of any ambiguity/dispute in the interpretation of any of the clauses in this tender document, interpretation/decision of the Director, IIFM shall be final and binding on all parties.
29. Delivery Period/Timelines :- **The deliveries must be completed within 30 days from the date of Purchase Order.** The time is the essence of the contract and therefore it is mandatory for the bidders who respond to this bid to meet these expectations, as they are tightly linked to IIFM's plans of completing the work within the time frame.

4. TECHNICAL BID FORMAT

a) General Information

Sr.No.	Technical requirements	Yes	No	Attachment Number.
01	Copy of currently valid Company Registration/ Incorporation Certificate or Registration under Company Law. In case of proprietorship, copy of license under Shops and Establishment Act (to be attached).			
02	Annual Turnover during i) FY 2016-17 ii) FY 2017-18 iii) FY 2018-19 iv) Average of FY 2016-17, 2017-18 & 2018-19			
03	Copies of Audited Balance Sheet with Returns of: i) FY 2016-17, ii) FY 2017-18 & iii) FY 2018-19			
04	Copy of PAN Card (to be attached.)			

05	Copy of GST Registration			
06	Bid document duly filled in and signed as token of acceptance of Terms and Conditions of Tender.			
07	Declaration under Rule No.170(iii) of GFR 2017 (as per Annexure I)			
09	Self Declaration in letter head stating that Bidder is not under liquidation, Arbitration, Court receivership or similar proceedings.			
10	Self declaration in letter head stating that the bidder has not been blacklisted by a Central/State/Local Government Organisation/Academic Institution/PSU to be submitted.			

b) Details of technical specification of the product (s) offered by the bidder

S.No.	Item name	Make and Model	Detail Specification of the Product offered*(Pl. Describe the detail specification of the product offered) – Para wise compliance to the technical specification asked for.	**Page no. of the Catalogue / Leaflet where para wise compliance information as per technical specification is available
	<p>Automatic digital rain gauge with data logger (tipping bucket)– 1 Number</p> <p>Supply and installation& training of Automatic digital rain gauge with data logger (tipping bucket) of durable, highly accurate, easy to install and facility for transmission.</p> <p>Essential:</p> <p>Durable and rough weather with stand to high impact of UV protection material, instrument for monitoring rate of rainfall and</p>			

	<p>total rainfall. Rain Gauge system must be having rain gauge sensor integrated with data logger.</p> <p>Sensor: Tipping Bucket / with syphon</p> <p>Sensitivity: 0.25 mm /0.5mm</p> <p>Operating range: 0-500 mm/h</p> <p>Mouth: Ring diameter of 203 mm</p> <p>Catch Area Collector: 330cm²</p> <p>Accuracy: 2% (25 to 500 mm/h)</p> <p>Insect Protection: Metal mesh in the discharge funnel</p> <p>Measuring periods: User Programmable</p> <p>Leveling: by leveling bubble</p> <p>Sensor Construction: Fiber or other weather resistant material</p> <p>Operating Temperature: -1°C to 60° C</p> <p>Cable : 40ft or more, 2 conductors</p>			
	<p>Weirs– 4 numbers in four different locations</p> <p>Essential:</p> <p>Supply and installation/ construction of Weirs to measure the stream/ catchment runoff</p> <p>3mm thick M.S. Plate, overall size 3' wide x 2' height, fitted with steel scales</p>			
	<p>Automatic water flow(stage level) recorder– 1 number</p> <p>Essential:</p> <p>Highly accurate portable water flow meter incorporating true</p>			

	<p>velocity averaging for the most accurate flow measurements.</p> <p>The supplied high quality instrument is competent enough in storm water runoff studies, sewer flow measurements, measuring flows in rivers and streams, and monitoring water velocity in ditches and canals, etc.</p>			
	<p>Runoff plot study (incl. of installation cost)</p> <p>Essential:</p> <p>Set-up in the field for Runoff plot study, size will vary with field condition</p>			
	<p>Screw auger – 2 numbers</p> <p>Essential:</p> <p>Standard size with corrosion resistance</p>			
	<p>Field portable weighing instrument – 1 number</p> <p>Essential:</p> <p>Digital weighing instrument for soil samples, with weighing capacities to 30kg with increments down to 0.05g.</p> <p>Made of durable material</p> <p>20-40 mm LCD weight display</p> <p>150 - 200-hour internal rechargeable battery</p> <p>Multiple software application modes</p>			
	<p>Soil moisture sensors and logger – 5 number</p> <p>Essential:</p>			

	<p>It measures the water content in soil and it is made up of multiple soil moisture sensors</p> <p>Input connections: 6 voltage channels</p> <p>Temperature range: -10 to +50°C</p> <p>Display: Digital</p> <p>Size: 180 x 160 x 70 mm</p> <p>Typical application: Monitoring soil moisture profiles</p>			
	<p>Portable groundwater level meter – 1 number</p> <p>Essential:</p> <p>Durable polypropylene or equally competent storage reel with rugged solid aluminum frame for easy transportation.</p> <p>Highly accurate Polyethylene coated (or similar material) steel tape marked in engineering or metric increments</p> <p>Field serviceable 5/8" (1.59cm) probe with stainless steel conductors for durability, an optional non-field replaceable probe,</p> <p>Audible and visible alarms when the probe makes contact with water</p> <p>Replaceable battery</p> <p>Water resistant carrying case</p> <p>Built in reel hanger e</p> <p>Additional Steel tape and tape weight</p>			
	<p>Enameled dual colour– 30 numbers</p>			

	<p>Essential: 1M long River Gauge Plates 4" width corrosion free material (incl. installation cost)</p>			
	<p>Open Pan Evapor-meter– 1 number</p> <p>Essential: Equipment to measure evaporation loss from the free surface water body</p> <p>Pan consists: Diameter: 120.7 cm Depth: 25.4 cm Made of: minimum 20 gauge galvanized iron sheet with a stilling well of size 10 cm diameter and 30 cm height No. of Pulse Count Digit: minimum 6 Digit Unit of evaporation: mm Measurement of Area: Up to 10 m² Measurement Value: 10 m² Maximum Cumulative Area: 0.1 m²</p>			
	<p>Suspended Sediment Sampler – 1 number</p> <p>Essential: Require a depth integrating type Suspended Sediment Sampler, which will be used to collect the sediment samples in shallow streams with velocity 10 ft/sec. Sampler of 13" streamlined aluminum casting (or equally durable material) partially</p>			

	<p>encloses a pint sample container. The supplied Sampler is with one 1/4" calibrated nylon nozzle along with wading rod bottles</p>			
	<p>Analytical balance – 1 number Essential: Digital with LCD display with maximum capacity 250 gm Reading Precision:1mg Pan Size: approximately 90mm Shape Size: Approximately 30*33*32.5cm AC: 220V/50HZ</p>			
	<p>Hot air oven – 1 number Essential: Double walled design Adequate insulation to prevent heat loss Forced air circulation blower Microprocessor based Digital Temp Controller cum indicator Temperature range : Range of 50°C - 250°C Temperature Accuracy : $\pm 0.5^{\circ}\text{C}$ Temperature display : Digital Operates : 230 Volts, 50 Hz, Heavy duty stainless steel lock and door hinges Heavy duty stainless steel sample trays</p>			
	<p>Double ring infiltrometer – 1 number Essential: Double ring infiltrometer to determine the infiltration rate of water into the soil.</p>			

	Item should consists of 2 steel rings with different diameters, a hammer, floats, a stainless steel hammering cross and a stopwatch			
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* Leaflets/Technical Brochures/ of the product offered must be attached in support of the information provided above.

** It is mandatory to mention the page no(s) in the format as mentioned above.

Signature :-----

Name :-----

Address:-----

5 FINANCIAL BID FORMAT

Note:

i) Rate quoted should be inclusive of all charges, and FOR at IIFM, Bhopal/PROJECT SITE.

ii) GST/Taxes as applicable at the time of billing will be paid in addition to the quoted price.

Name of the Item (s) (Items mentioned in the schedule of requirement)	Make & Model	Unit Price with all accessories which includes customs duty, packing, insurance, forwarding, installation, training and transportation (door / site delivery) with 2 (three) years onsite warranty & excludes GST	Comprehensive Maintenance Contract (excluding GST of Service GST) for three years after expiry of three years warranty period (please mention on yearly basis)	*Total Cost of the Item (Unit Price with CMC if any) (Exclusive of GST)	GST (if any) on & above the item price mentioned in (3) % of the GST & it's Cost in Rs. (both in words & value in Rs.)	Net price offered
		(a)	(b)	(a)+(b)		(a)+(b)+(c)
Automatic digital rain gauge with data logger (tipping bucket)– 1 Number Supply and installation & training of Automatic digital rain gauge with data logger (tipping bucket) of durable, highly accurate, easy to install						

<p>and facility for transmission.</p> <p>Essential:</p> <p>Durable and rough weather with stand to high impact of UV protection material, instrument for monitoring rate of rainfall and total rainfall.</p> <p>Rain Gauge system must be having rain gauge sensor integrated with data logger.</p> <p>Sensor: Tipping Bucket / with syphon</p> <p>Sensitivity: 0.25 mm /0.5mm</p> <p>Operating range: 0-500 mm/h</p> <p>Mouth: Ring diameter of 203 mm</p> <p>Catch Area Collector: 330cm²</p> <p>Accuracy: 2% (25 to 500 mm/h)</p> <p>Insect Protection: Metal mesh in the discharge funnel</p> <p>Measuring periods: User Programmable</p> <p>Leveling: by leveling bubble</p> <p>Sensor Construction: Fiber or other weather resistant material</p> <p>Operating Temperature: -1°C to 60° C</p> <p>Cable : 40ft or more, 2 conductors</p>						
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<p>measure the stream/ catchment runoff</p> <p>3mm thick M.S. Plate, overall size 3' wide x 2' height, fitted with steel scales</p>						
<p>Automatic water flow(stage level) recorder– 1 number</p> <p>Essential:</p> <p>Highly accurate portable water flow meter incorporating true velocity averaging for the most accurate flow measurements.</p> <p>The supplied high quality instrument is competent enough in storm water runoff studies, sewer flow measurements, measuring flows in rivers and streams, and monitoring water velocity in ditches and canals, etc.</p>						
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<p>Screw auger – 2 numbers</p> <p>Essential:</p> <p>Standard size with corrosion resistance</p>						
<p>Field portable weighing instrument – 1 number</p> <p>Essential:</p> <p>Digital weighing instrument for soil samples, with weighing capacities to 30kg with</p>						

<p>increments down to 0.05g. Made of durable material 20-40 mm LCD weight display 150 - 200-hour internal rechargeable battery Multiple software application modes</p>						
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<p>an optional non-field replaceable probe, Audible and visible alarms when the probe makes contact with water Replaceable battery Water resistant carrying case Built in reel hanger e Additional Steel tape and tape weight</p>						
<p>Enameled dual colour– 30 numbers Essential: 1M long River Gauge Plates 4” width corrosion free material (incl. installation cost)</p>						
<p>Open Pan Evapor-meter– 1 number Essential: Equipment to measure evaporation loss from the free surface water body Pan consists: Diameter: 120.7 cm Depth: 25.4 cm Made of: minimum 20 gauge galvanized iron sheet with a stilling well of size 10 cm diameter and 30 cm height No. of Pulse Count Digit: minimum 6 Digit Unit of evaporation: mm Measurement of Area: Up to 10 m² Measurement Value: 10 m² Maximum Cumulative Area:</p>						

0.1 m ²						
<p>Suspended Sediment Sampler – 1 number</p> <p>Essential: Require a depth integrating type Suspended Sediment Sampler, which will be used to collect the sediment samples in shallow streams with velocity 10 ft/sec.</p> <p>Sampler of 13" streamlined aluminum casting (or equally durable material) partially encloses a pint sample container. The supplied Sampler is with one 1/4" calibrated nylon nozzle along with wading rod bottles</p>						
<p>Analytical balance – 1 number</p> <p>Essential: Digital with LCD display with maximum capacity 250 gm Reading Precision:1mg Pan Size: approximately 90mm Shape Size: Approximately 30*33*32.5cm AC: 220V/50HZ</p>						
<p>Hot air oven – 1 number</p> <p>Essential: Double walled design Adequate insulation to prevent heat loss Forced air circulation blower Microprocessor based Digital</p>						

<p>Temp Controller cum indicator Temperature range : Range of 50°C - 250°C Temperature Accuracy : ±0.5°C Temperature display : Digital Operates : 230 Volts, 50 Hz, Heavy duty stainless steel lock and door hinges Heavy duty stainless steel sample trays</p>						
<p>Double ring infiltrometer – 1 number Essential: Double ring infiltrometer to determine the infiltration rate of water into the soil. Item should consists of 2 steel rings with different diameters, a hammer, floats, a stainless steel hammering cross and a stopwatch</p>						

Signature:-----

Name:-----

Address:-----

SELF DECLARATION UNDER RULE 170 (iii) OF GFR 2017

I/We, _____ (bidder's name) having submitted a bid for supply and installation of hydrological equipment for NLRP Project in IIFM, solemnly declare that we will abide with all provisions of the General Financial Rules 2017 (GFR 2017) for procurement of items. Under provision of Rule No.170 (iii) , we are not submitting Earnest Money Deposit for the bid and in place declare that we will abide with all provisions under the said Rule 170(iii) and also undertake that we understand that in case of any violation of the provisions, legal actions will be initiated.

Place :

Date :

Signature and Name of the bidder
(with office seal)