

## **Tender Document**

आरक्षित वन क्षेत्र की जनपद हरिद्वार की गंगा एंवम्  
सहायक नदियों **Replenishment Study** में कराए  
जाने का कार्य।



**Forest Research Institute  
P. O. New Forest  
Dehradun-248006  
2021-22**

## NOTICE INVITING TENDER

The Head, Engineering Cell, FRI, Dehradun invites on behalf of Director, FRI Dehradun निविदाये Total Station द्वारा सर्वे कार्य करने वाली फर्मों, जिन्होंने पूर्व में सर्वे इत्यादि कार्यों का अनुभव हो, ठेकेदारों से आमंत्रित की जाती है।

1. NIT No.30-324/ 2020-21/Head/Engineering Cell/Civil
2. Name of Work: - आरक्षित वन क्षेत्र की जनपद हरिद्वार की गंगा एंवम् सहायक नदियों **Replenishment Study** में कराए जाने का कार्य।
3. Estimated Cost: Rs. 9,98,976/-, Earnest money : Rs.20,000/-. Tender fee Rs. 590/- and period of completion: 60 days, Last date and time of submission of bid: 10-11-2021 at 2.30 PM.
3. *Other details can be obtained from the website [www.fri.res.in](http://www.fri.res.in)*




Head  
Engineering Cell  
Forest Research Institute  
Dehradun

## INDEX

**Name of Work:-** आरक्षित वन क्षेत्र की जनपद हरिद्वार की गंगा एंवम् सहायक नदियों **Replenishment Study** में कराए जाने का कार्य।

S. No.	Description	Page
1	Application for inviting open bid	1-3
2	Items Rate Bid construction for the work	4-5
3	Specific Term and Condition	6
4	Scope of work and Specifications	7-8
5	Schedule of Quantity of Work	9

Notice for inviting Tender amounting to Rs. 9,98,976/-(Rs. Nine lakh ninety eight thousand nine hundred seventy six only) is approved.

  
Head  
Engineering Cell  
FRI, Dehradun



### Application for inviting tender

#### INFORMATION AND INSTRUCTIONS FOR CONTRACTORS FOR tendering

The Head, Engineering Cell, Dehradun on behalf of Director, FRI Dehradun invites निविदाये Total Station द्वारा सर्वे कार्य करने वाली फर्मों, जिन्होंने पूर्व में सर्वे इत्यादि कार्यों का अनुभव हो, ठेकेदारों से आमंत्रित की जाती है।

NIT No.	30-324/ 2021-22/HOD/Engineering Cell
Name of work & Location	आरक्षित वन क्षेत्र की जनपद हरिद्वार की गंगा एवं सहायक नदियों Replenishment Study में कराए जाने का कार्य।
Estimated cost put to bid	Rs. 9,98,976/-
Tender fee	Rs. 500+18% GST (Total Rs. 590/-)
Earnest Money	Rs 20,000/- (2%)
Period of Completion	60 days
Last date & time of submission of bid, original EMD, copy of receipt for deposition of original EMD and other Documents as specified in press notice	10-11-2021, at 2.30 P.M.
Time & date of opening of bid	10-11-2021 at 3.00 PM

1. Contractors who fulfill the following requirements shall be eligible to apply. Joint ventures are not accepted.

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Contractor should have satisfactorily completed the works as mentioned below during the last **FIVE** years ending previous day of last date of submission of bid.

One similar work costing not less than Rs. **7.99 Lacs**. Two similar works each costing not less than Rs. **5.99 Lacs**. Three similar works each costing not less than Rs. **4.00 Lacs**.

2. Similar work would means "**Survey work of River**" The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum; calculated from the date of completion to last date of receipt of applications for bids.



3. The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the required documents.
4. Information and Instructions for bidders posted on website shall form of bid document.
5. The enlistment of the contractors should be valid on the last date of submission of bids. In case the last date of opening of bid is extended, the enlistment of contractor should be valid on the original date of opening of tender.
6. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website [www.fri.res.in](http://www.fri.res.in) free of cost.
7. But the bid can only be submitted after **deposition of original EMD in the Office of Head, Engineering Cell, FRI Dehradun within the period of bid submission. (The EMD document shall only be payable at Dehradun) as mentioned in NIT.**
8. **Non refundable tender fee: Rs.590/- (including 18% GST) by crossed Demand Draft in favor of Director, FRI payable at Dehradun, as tender fee/processing charges is applicable.** The original draft of tender fee along with other tender documents should be submitted in the Office of Head, Engineering & Services Division, FRI Dehradun within the period of bid submission.
9. Contractor must ensure to quote rate of each item.
10. In addition to this, if any cell is left blank the same shall be treated as "0".  
Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO).
- However, if a tenderer quotes nil rates against each item in item rate tender on the lowest amount of the tender or any section/sub head in item rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.**
11. The required documents meeting the criteria to qualify as "approved and eligible contractors" for the following work along with other documents as mentioned under para "List of Documents to be submitted within the period of bid submission", The financial bid of only those agencies shall be opened who are found to be eligible agencies, as per this NIT.
12. The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.



13. If the agency is not registered with Uttarakhand GST department earlier, he has to get register himself with Uttarakhand GST department before submission of the bid.
14. **Check List** of Documents to be submitted the hard Copies within the period of bid submission as technical bid evaluation.

		Yes/No
<b>Tender fee ( Rs. 590) in favour of Director FRI, Payable at Dehradun</b>	Physical	
<b>EMD ( Rs. 20,000/-) in favour of Director FRI, Payable at Dehradun ( As per Tender Document)</b>	Physical	
<b>Enlistment/ Registration</b> ( <i>Total Station द्वारा सर्वे कार्य करने वाली फर्मों, जिन्होंने पूर्व में सर्वे इत्यादि कार्यों का अनुभव हो, ठेकेदारों से आमंत्रित की जाती है।</i> .).	Physical	
<b>Experience of similar type of work i.e. River Survey work</b> Rs. 7.99 lakh for single work. Rs. 5.99 lakh for two works Rs. 4.00 lakh for three works. ( <i>Satisfactory Completion certificate of the work duly signed by the competent authority should be uploaded and submitted. Without Satisfactory Completion such experience will not be consider.</i> )	Physical	
<b>Affidavit on 10 Rupees e-stamp paper as mention in clause No. 1.2.2</b>	Physical	
<b>PAN</b>	Physical	
<i>Uttarakhand GST registration</i>	Physical	

**Head  
Engineering Cell  
Forest Research Institute  
Dehradun**





**FOREST RESEARCH INSTITUTE  
ITEM RATE BID AND CONTRACT FOR WORKS**

**Tender for the work of: - “आरक्षित वन क्षेत्र की जनपद हरिद्वार की गंगा एंवम्  
सहायक नदियों Replenishment Study में कराए जाने  
का कार्य”**

**To be submitted offline by 10-11-2021 at 2.30 PM**

The Bid shall be opened in presence of tenderers who may be present  
30-324/2020-21/Head/Engineering Cell/Civil in the office of the Head,  
Engineering Cell, FRI, Dehradun

**TENDER**

I/We have read and examined the Notice Inviting tender, schedule, A,B,C,D,E&F. Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, Special conditions, Schedule of Rate & other documents and rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the Director FRI Dehradun within the time specified in Schedule 'F', viz., schedule of quantities and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause 11 of the Conditions of contract and with such materials as are provided for, by, and in respects in accordance with, such conditions so far as applicable.

We agree to keep the tender **open for ninety (90) days from the date of opening of bid** and not to make any modifications in its terms and conditions.

A sum of **Rs. 20,000/-** is hereby forwarded in Deposit at call Receipt of a Scheduled Bank/Fixed deposit receipt of scheduled bank/demand draft of a scheduled bank/bank guarantee issued by scheduled bank as earnest money. I/we agree that the said Director FRI Dehradun or his successors in office shall without prejudice to any other right or remedy be at liberty to forfeit the said earnest money absolutely. Further, if I/we fail of commence work as specified, I/we agree that Director, FRI Dehradun or his successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money and the performance guarantee absolutely, otherwise the said earnest money shall be retained by him towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be ordered, up to maximum of the items mentioned in Schedule 'F' and those in



excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form.

Further, I/We agree that in case of forfeiture of earnest money or both Earnest Money as aforesaid, I/We shall be debarred for participation in the re-tendering process of the work.

I/We undertake and confirm that eligible similar work(s) has/ have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for tendering in FRI in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the officer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit.

I/We hereby declare that I/we shall treat the tender documents drawings and other records connected with the work as secret/confidential documents and shall not communicate information derived there from to any person other than a person to whom I/we am/are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

Dated:

Signature of Contractor

Witness:

Postal Address

Address:

Occupation:





### SPECIFIC TERMS AND CONDITIONS

1. Consultant firm should have at least one Civil Engineer with a min. of 3years experience.
2. Consultant firm should have at least two Photogrammetry experts with post-graduation in Remote Sensing/Geomatics or GIS with minimum of 3 years' experience.
3. Consultant should have at least one Mining Surveyor at least done diploma in mine Surveying of min. 2yrs exp.
4. Consultant should have done similar replenishment study in past and the consultant should proof for the same.
5. Hydrographic Survey of any river using Drone and satellite imagery of at least 20 km linear or 25 sq km area.

List of mandatory owner ship of instruments (Attach Invoice/Calibration certificates and Licenses for software's).

Sr No.	Instruments
1	DGPS Multi Frequency (minimum Two base Three Rovers)
2	Total Station (minimum 3)
3	DGCA Approved Drone and Drone Pilot License (Minimum 1)
4	Image Processing Software License



## **SCOPE OF WORK AND SPECIFICATIONS**

### **Replenishment study of Ganga River post-monsoon survey**

#### **Brief Scope of Work**

1. Establishment of Bench Marks along the river at every 250 m interval on both banks of study area using DGPS.
2. Topographical survey shall capture all manmade and natural features above the ground using DGPS, UAV and Total Station, with 1m grid DTM and 5 m Contour Interval.
3. X-sections needs to be observed at every 25 meters precisely along the complete stretch of Study area. The levels need to be observed at every 5m along X-section Line.

#### **Technical Specifications**

The surveyor should possess:

1. Minimum 5 (one base and 4 Rovers) DGPS of Multi Frequency of reputed manufacturer.
2. Licensed Image Processing Software.
3. Licensed GIS and Cad Software.
4. Minimum Two 1" least count Total station of reputed manufacturer.
5. NPNT and DGCA approved UAV minimum censor 20 Mega Pixel.
6. Drone Pilot License.

#### **Derivable**

1. Consultant will submit combined topographical plan and contour plan of bed level and surface, spot levels, planimetric feature details, existing water level and High Flood Levels marked with sections line.
2. Cross- section showing bed level difference of pre and post monsoon, cut and fill levels in appropriate readable scale
3. Calculation of area and volume in excel format of every cross-section.
4. Complete ortho mosaic at least of 5cm GSD.



5. Separate DTM files needed to be submit in. XYZ format which include Bed levels observed during Bathymetry survey.

The sample and formats of each of the following will be provided by the department after award of work



**Schedule of Quantity of Work**

**Name of Work:** आरक्षित वन क्षेत्र की जनपद हरिद्वार की गंगा एंवम् सहायक नदियों Replenishment Study में कराए जाने का कार्य।

Sl. No.	Description of area	Unit (Area/ha)	Rate/ha	Amount
	निम्नलिखित अध्ययन क्षेत्रों का Topographical Survey, Drone एंवम् DGPS के माध्यम से करना जो कि पेज नं० 8 और 9 दिए गए Scope of Work and Specifications में दर्शाया गया है:-			
1-	Ganga Shayampur	219.44		
2.	Ganga Bhogpur	237.92		
3.	Ganga Chidiyapur	325.74		
4.	Ganga Bisanpur	190.57		
5.	Kotawali	74.67		
6	Rawason-I	99.79		
7	Rawason-II	100.59		
	<b>Total</b>	<b>1248.72</b>		

**Note:** Rates to be quoted inclusive GST & all other taxes.