



**Government of West Bengal**  
**Office of the Additional Project Director-IV**  
**DPMU-II, WBMIFMP,**  
**Irrigation & Waterways Directorate**  
**JalasampadBhawan (9<sup>th</sup> floor), Bidhannagar, Kolkata – 700 091.**

**NOTICE INVITING QUOTATION NO.: 04/DPD-VI, DPMU-II,**  
**WBMIFMP of 2022-2023, issued on 13.05.2022**

Memo No. 321-DPMU-II

Date – 13/05/2022

Sealed Quotation in prescribed proforma are hereby invited by the undersigned on behalf of the Governor of West Bengal for the “SCHEDULE OF WORK” given in the Last page from Bonafied Agencies / Organization, Contractors & General order suppliers having credential (from the Govt. Of West Bengal/ Central Govt / PSU /Other State Govt. Departments / Engineering Wings of GoI / Ircon / RVNL / NHPC, Autonomous body & other similar organizations) of execution of similar nature of work of value Rs.5,00,000/-(Rupees Five Lakh) only during the last 3 years from the date of publishing of N.I.Q for a single work.

The intending bidders having valid licenses, PTPC as applicable & ITR, PAN, GST registration etc. should possess adequate experiences in the field of **Hydrological Observation, Hydrographic and Sedimentation Survey**. Any other information, if felt necessary by the department, will be provided to the bidders as per their requirement.

The lowest bidder should be well acquainted with his assignment in details. If necessary, the lowest bidder may consult with the Deputy Director, Hydraulics, RRI or his authorized representative in order to ensure proper submission of the deliverables as specified in ToR. In this context, the undersigned, in consultation with Deputy Director, Hydraulics, RRI reserves the right to reject any/all incomplete/inconsistent deliverable (in terms of requirement of this NIQ) without assigning any reason thereof. The lowest bidder is liable to rectify any error/omission detected by the RRI or undersigned at his own cost during and after the execution of the work. No claim whatsoever in this regard from the bidder will be entertained. The documents (Six sets) to be supplied both in hard and soft copies. The decision of the RRI or undersigned is final and binding.

Scope of Work: -

**Measurement of discharge and sediment load of River Rupnarayan at Kolaghat, Purba Medinipur during the Monsoon' 2022**

The quotation should meet the following terms & condition which are given below:-

**TERMS & CONDITIONS:-**

- 1) Intending bidders should apply for quotation papers, to the undersigned, in their respective Letter Heads enclosing with self attested copies of latest Income Tax, valid PAN / GST / Trade License and P.Tax Challan issued by the appropriate authority, failing which the quotation will liable to be rejected.
- 2) Quotation should be submitted for the work in sealed cover super scribing the name of the work on the envelope and addressed to the proper authority. Submission of quotation by post is not allowed.
- 3) Any suppression/ misrepresentation of fact will automatically debar the application from participation in any Tender/ Quotation under the Sub-Division /Division / Circle for at least (Three) years from the date of detection, in addition to such other penal action as the Government may deem proper.
- 4) No quotation paper will be supplied by Post.
- 5) No quotation paper will be issued after expiry of date and time mentioned in the notice.
- 6) The bidders should quote their rate both in figures and in words on each item of work/ supply as per the NIT.
- 7) All corrections are to be attested under the dated signature of the bidder.
- 8) All the pages of the quotation paper and the documents (Submitted as quotation documents) including schedule must be signed by authorized representative on the body of the documents with date and seal.
- 9) The bidders who will sign on behalf of a company or firm must produce the registered documents in support of his competency to enter in to an agreement on behalf of the company or firm under the Indian partnership Act, failing which the quotation will not be considered.
- 10) Conditional quotation, which does not fulfill any of the above conditions, and is incomplete in any respect, is liable to summary rejection.
- 11) Any letter or other instrument submitted separately in modification of sealed quotation may not be entertained.
- 12) The quotation accepting authority does not bind himself to accept the lowest quotation and reserves the right to reject any or all of the quotations received, with valid reason whatsoever to the intending bidders and also reserves the right to distribute the work amongst more than one bidder.
- 13) In view of introduction of GST with effect from 01.7.2017, all the bidders intending to participate in this Quotation should quote, inclusive of GST applicable for entire composite works/Procurement of goods & services, labour intensive component contained in the schedule. Income Tax, Royalty, GST (CGST, SGST, IGST), Construction Workers' Welfare Cess, Labour Insurances EPF and similar other statutory levy / cess (whichever applicable) will have to be borne by the contractor/bidder and his/her quoted rate should be quoted accordingly after



considering all these charges, and no separate payment towards any of the statutory taxes rents or levies shall be made by the work implementing authority.

14) The Deputy Director, Hydraulics, RRI shall be the Nodal Officer in respect of the work & all correspondence should be made with him regarding the work. Deputy Project Director (Civil)-VI, DPMU-II, WBMIFMP will be the DDO for this work.

15) Additional Project Director-IV, DPMU-II, WBMIFMP, I&WD, 9<sup>th</sup> Floor, Jalsampad Bhawan, Kol-91, reserves the right to accept or reject the lowest or any other quotation without assigning any reason thereof.

16) The total assignment including submission of deliverables as mentioned in the ToR is to be executed within 5 (Five) months from the date of commencement of the work as specified in the work order.

17) The successful bidder will have to execute formal agreement within 7 (Seven) days from the date of issue of the work order failing which the work order may be treated as cancelled.

The quotation is to be submitted in the prescribe proforma. Any incomplete quotation is liable to be rejected.

The quotation in the prescribe proforma as above will be received in the office of the Additional Project Director-IV, DPMU-II, WBMIFMP, 9<sup>th</sup> Floor, Jalsampad Bhawan, Kol-91 as per following time schedule.

- 1) Last date of receiving application for quotation paper: 27.05.2022 upto 03.00PM
- 2) Last date of issuing quotation paper : 30.05.2022 upto 02.00PM
- 3) Last date of receiving quotation paper : 01.06.2022 upto 04.00PM
- 4) Date of opening quotation paper : 01.06.2022 after 04.30PM

Memo No. -. **321(6)-DPMU-II**

Date – **13/05/2022**

Copy forwarded for information and circulation to the:-

- 1) Chief Engineer & Project Director, SPMU, WBMIFMP, 9<sup>th</sup> Floor Jalsampad Bhawan, Kol-91.
- 2) Additional project Director-III, DPMU-I, WBMIFMP I & WD, Kanainatshal Purba Bardhaman.
- 3) Director, River Research Institute, Mohanpur, Nadia
- 4) Deputy Director, Hydraulics, River Research Institute, 9<sup>th</sup> Floor Jalsampad Bhawan, Kol-91.
- 5) Executive Engineer, Howrah Irrigation Division.
- 6) Executive Engineer, Hooghly Irrigation Division

*G. S. S. S.*  
Deputy Project Director (Civil)-VI  
DPMU-II, WBMIFMP  
I & WD TE. GOVT of W.B.

## **SCOPE OF WORK:-**

Measurement of discharge and sediment load of River Rupnarayan at Kolaghat, Purba Medinipur during the Monsoon' 2022

### ***Terms and Conditions of the Work:***

Location of Hydrological Observation: Near Denan Sluice

#### **A. General:**

1. Installation or repair of the gauge with proper marking as per IS standard and establishing connection of RL (GTS) with known reference point (preferably GSI Benchmark) as per instruction of authorized person of River Research Institute (RRI).
2. The agency should take the gauge reading from 6 AM to 6 PM every day from 1<sup>st</sup> July to 31<sup>st</sup> October 2022 at an interval of 1(one) hour (during flood emergency 24hours gauge reading is required) as per the instruction of the authorized person of RRI.
3. Discharge measurement should be taken for 6 days for each Full & New Moon from 1<sup>st</sup> July to 31<sup>st</sup> October 2022. In this case ADCP with proper calibration should be used for discharge measurement. There should be at least four runs of ADCP machines during High, Ebb & Slack tides or as per instruction of the authorized person of RRI.
4. The sample for measurement of sediment load should be taken during the discharge measurement.
5. The agency should hire knowledgeable persons for this work.
6. Authorized person of RRI may consult Executive Engineer/Howrah Irrigation Division regarding measurement of discharge during flood or regarding measurement of any other significant discharge

#### **B. Outputs/ Deliverables:**

- i) All gauge data should be given in daily basis & after completion of work in excel format with necessary graph and also in hardcopy.
- ii) Discharge data should be submitted to the authorized person of RRI on daily basis, in excel sheet (stage discharge curve) with bed profiles in PDF. The agency should hand over all ADCP generated raw data after completion of each month.
- iii) Generation of stage discharge curve.
- iv) Six (6) nos. hard copies of observation report, duly signed by the authorized person of RRI should be submitted to the Deputy Director, Hydraulics, RRI on monthly basis.

#### **C. Technical specification for generation of Stage Discharge Curve**

1. Gauges should be in vertical and properly marked as per IS Code direction.
2. Gauge reading should be taken and written as per IS Code direction.
3. Direction of the boat should be perpendicular to river flow near the gauge point during measurement of discharge. Any standard software used for this purpose.

4. Equipment required for discharge Measurement of the tidal river .

- i. Observation of gauge reading and recording should be taken as per relevant IS Code specification and in concurrence with RRI.
- ii. Direction of the boat should be perpendicular to river flow near the gauge point during measurement of discharge.
- iii. Equipment required for discharge measurement:
- iv. ADCP with attachments bolts and nuts.
- v. Bottom Track, a GPS for connecting directly to ADCP.
- vi. Laptop with Bluetooth connection.
- vii. Rope and pulley or mechanised powered boat.
- viii. Battery with appropriate wiring assembly.
- ix. Hand-held walkie-talkie type radios.
- x. Battery charger.
- xi. Distance measurement device.
- xii. Power inverters and power bars.
- xiii. Extension cords along with all other accessories.

**GPS Deployment:**

- xiv. Rover configuration files.
- xv. GPS antenna and cable.
- xvi. GPS and power/data cables.
- xvii. Battery + Multi-Socket, Spare Fuses along with all other accessories.

**For Real Time Kinematics, Add:**

- xviii. Base Configuration file generic and/or specific to the station visited.
- xix. GPS Antenna and cable.
- xx. GPS and power/data cables along with all other accessories.

**D. Data processing:**

A rating curve is to be established by making a number of concurrent observations of stage and discharge over a period of time covering the expected range of stages at the river gauging section.



## TECHNICAL COMPLIANCE SHEET

The bidder shall furnish, as a part of his bid; documents establishing the bidder's eligibility to bid and his qualification to participate in the bid.

The bidder is qualified only when he is the actual service provider and meets the required norms as specified below with scan copy of supporting documents during process of bidding and all original evidences to be produced in due course of time as & when asked by the Quotation Inviting Authority.

No	Item	Yes/No
1.	Having experienced manpower in similar nature of hydrological observation work and equipment for the specified job.	
2.	Specification of the equipment as required for the job:	
2.a	ADCP - Acoustic Doppler Current Profilers for water velocity measurement including determination of other bathymetric parameters as directed by RRI.	
2.b	Marine Radio Beacon Receiver Or Satellite based correction Receiver (OMNISTAR) to receive the Pseudo range corrections.	
2.c	Differential GPS for Off shore positioning (Leica, Spectra Precision, Trimble or equivalent)	

**SCHEDULE OF WORK**

**Name of work:-Measurement of discharge and sediment load of River Rupnarayan at Kolaghat, Purba Medinipur during the Monsoon' 2022**

Sl. No.	Item Description	Quantity	Units	Base Rate( Rs	Total Rate inclusive of all taxes(breakup of tax is to be given)(Rs)	Total Amount in figure and words(Rs)
1	Benchmark connection for different locations from permanent Benchmark as per direction with the help of digital level or RTK-DGPS	25	Km			
2	Priming one coat on timber or plastered surface with synthetic oil bound primer of approved quality including smoothing surfaces by sand papering etc.	30	Sq. m			
4	Painting with best quality synthetic enamel paint of approved make and brand including smoothing surface by sand papering etc. including using of approved putty etc. on the surface if necessary. a) On timber or plastered surface with super gloss (hi gloss). iii) Two coats (white in shade).	45	Sq. m			
5	Cost of casual semi-skilled labour to be engaged for observation of gauge, for collection of soil and water sample	123	Nos.			
6	Skilled labour to be engaged for velocity and discharge measurement and analysis	48	Nos.			
7	Hire charge of ADCP with mechanised boat.	1	No.			
8	Unskilled labour to be engaged for carrying instrument and during operation of ADCP	144	Nos.			
9	Water collection sampler plastic with nylon rope	1	Nos.			
10	Supply of Plastic container for collecting water samples	369	Nos.			
11	Plastic zipper Bags (10"x12") required for collecting soil samples (1 Kg Pkt.)	369	Nos.			
12	Hand Gloves	123	Nos.			
13	Submission of hard copy (6 sets) and soft copy (PDF) of report and soft copy (Excel sheet) of all hydrological and sediment data containing XYZ co-ordinate in a suitable storage device and site gauge book. Supply of daily gauge data and discharge (during measurement) through digital platform.	1	Item			
Total in Figures						
Quoted rate in Figures						
Quoted rate in words						