



**Government of West Bengal
Irrigation & Waterways Directorate
Office of the Executive Engineer
Burdwan Irrigation Division
Kanainatshal, PO-Sripally, Dist.-PurbaBardhaman**

**Notice Inviting Quotation No. 01 of 2023-2024 of Executive Engineer/ Burdwan
Irrigation Division**

Memo No. 998

Date – 18/08/2023

Sealed Quotation in prescribed proforma are hereby invited by the Executive Engineer, Burdwan Irrigation Division, Kanainatsal, Purba Bardhaman on behalf of the Governor of West Bengal for the WORK: **Real Time Computation of velocity and discharge of irrigation canals at the upstream and/or down stream of regulator structures at different locations in the district of Bankura, Pashchim & Purba Bardhaman by using ADCP method across the canal for the purpose of calibration of gate opening vs discharge through a single gate at different U/S and D/S canal flow condition** from Bonafied Agencies / Organization, Contractors of execution of similar nature of work during the current year and the last 5 years from the date of publishing of N.I.Q for a single work.

The rate to be also quoted in the prescribed Proforma of the quotation document which will be available at the office of the Executive Engineer, Burdwan Irrigation Division, Kanainatsal, Burdwan.

Measurements and analyses of discharge and velocity of water flow to be carried out by state-of-the-art technologies and using modern acoustic depth sounding instruments (*ADCP*) and *RTK (Real Time Kinematic) GPS equipment* mounted to a floating raft, using the latest generation of acoustic Doppler current profilers have acoustic beams capable of acquiring spatially distributed samples of water depth including velocity column data, increasing the resolution and quality of the data, post-processing and integration of data, in order to glean physically-relevant information and submitting the records as formats specified as directed by the engineer in charge. Velocity mapping system equipment and software shall be in good condition; velocity mapping system should have an integrated RTK GPS for navigation and should also use acoustic bottom track system at the same time.

Minimum three different gate opening for a single gate of multi gated Cross regulator or Head regulator of a canal to be done for discharge measurement of that gate (single gate means one shutter of the gate structure).

The intending bidders having valid licenses, PTPC & ITR, PAN, GST registration etc. should possess adequate experiences in the field of **Real Time Computation of velocity and discharge of irrigation canals / Drainage Channel/ River at the upstream and/or down stream of regulator structures or any other Structure.**

Deliverable:-

1. Velocity profile of the canal at different locations.
2. Discharge summery Report.

Reports as per the required specifications are to be submitted in soft copy as well as in hard copy

i) TECHNICAL SPECIFICATION :-

1. Positioning is to be carried using differential Global Positioning system with a 12-channel receiver. The position data is to be logged with single frequency Echo sounder/ any equivalent echo-sounder, Correction interfaced with HYPACK Software and the same issued for the navigation with visual aid of planned Survey lines.
2. All the data has to be processed for necessary corrections and noise.
3. Details of all the points of the canal cross sections (Lat., Long and Z) should be given in tabular form.
4. The processed data complete in all aspects should be provided in digital format.
5. Deployment of acoustic Doppler current profiler (ADCP) to measure water current velocities in a series of pre-set measurement cells or bins, and obtaining flow velocity information over the depth profile or in any other direction.
6. Measurements and analyses of canal discharges utilize state-of-the-art technologies / floating method by portable Acoustic Doppler Current Profiler (ADCP) at different cross-sections on the canals. The raw measurements of the flow velocities of the canal's cross-section to be further processed with the post processing software to produce a dataset of canal discharges and other important characteristics.

ii) 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 tendering and all original evidences to be produced in due course of time as & when asked by the Tender Inviting Authority

No	Item	Yes/No
1.	Having experienced manpower in hydrographic survey and equipment for the required of the job.	
2.	Having the following equipment required for the job, as explained in the specifications:-	
2.a	Echo-sounder interfaced with HYPACK Max Software.	
2.b	Marine Radio Beacon receiver Or Satellite based correction Receiver (OMNISTAR) to receive the Pseudo range corrections through Echo sounder and Hypack Software.	

2.c	Differential GPS for positioning (Leica, Spectra Precision, Trimble or equivalent)	
2.d	ADCP - Acoustic Doppler Current Profilers for water velocity measurement including to determine others bathymetric parameters as required by Engineer-in-Charge.	

Scope of Work :-

1. Velocity profile of the canal at 50 locations.
2. Discharge summery Report 50 locations along with relevant drawings & charts.

TERMS & CONDITIONS :-

- 1) Intending quotationers should apply for quotation papers 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 quotationers should quote their rate both in figures and in words on each item of work/ supply as per the NIQ.
- 7) All corrections are to be attested under the dated signature of the quotationer.
- 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 quotationers 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 summery rejection.
- 11) Any letter or other instrument submitted separately in modification of sealed quotation may not be entertained.
- 12) This quotation is only for collection of rates for the above mentioned work from the prospective and competent bidders.
- 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 Executive Engineer, Burdwan Irrigation Division shall be the Engineer-In-Charge in respect of the above quotation & all correspondence should be made with the Engineer-In-Charge regarding the above work.

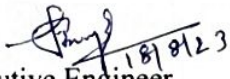
15) Additional project Director-III, DPMU-I, WBMIFMP, I&WD, Kanainatsal, Purba Bardhaman / Executive Engineer, Burdwan Irrigation Division, Kanainatsal, Purba Bardhaman, reserves the right to accept or reject the lowest or any other quotation without assigning any reason thereof.

16) The total work including submission of requisite hard and soft copies separately which is mentioned in the scope of the work of the N.I.Q. is to be executed within 30 (Thirty) days from the date of issue of the work order. Finalization of relevant drawings/charts as stated above will rest upon the discretion of the Engineer-in-charge, no claim what so ever in this regard will be entertained.

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 Burdwan Irrigation Division, Kanainatsal, Purba Bardhaman as per following time schedule.


- 1) Last date of receiving application for quotation paper : 28.08.2023 upto 04.00PM
- 2) Last date of issuing quotation paper : 29/08/2023 upto 02.00PM
- 3) Last date of receiving quotation paper : 31/08/2023 upto 01.00PM
- 4) Date of opening quotation paper : 31/08/2023 after 03.00PM


Executive Engineer
Burdwan Irrigation Division
Kanainatsal, Burdwan.

Memo No. – 998/1(9) Date: - 18/08/2023

Copy forwarded for information and circulation to the:-

- 1) Additional project Director-III, DPMU-I, WBMIFMP I & WD, Kanainatshal Purba Bardhaman.
- 2) Superintending Engineer, Damodar Irrigation Circle, Kanainatshal Purba Bardhaman
- 3) Sub-Divisional Officer, Burdwan Irrigation Sub-Division No. I, Kanainatshal Purba Bardhaman
- 5) Sub-Divisional Officer, Burdwan Irrigation Sub-Division No. II, Kanainatshal Purba Bardhaman
- 6) Sub-Divisional Officer, Burdwan Irrigation Sub-Division No. III, Kanainatshal Purba Bardhaman
- 7) Account Section, Burdwan Irrigation Division, Kanainatshal, Purba Bardhaman
- 8) Estimate Section, Burdwan Irrigation Division, Kanainatshal, Purba Bardhaman
- 9) Notice Board, Burdwan Irrigation Division.


Executive Engineer
Burdwan Irrigation Division
Kanainatsal, Burdwan.



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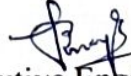
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SCHEDULE TO FILLED UP BY THE QUOTATIONER

PROFOMA

Name of work: Real Time Computation of velocity and discharge of irrigation canals at the upstream and/or down stream of regulator structures at different locations in the district of Bankura, Pashchim & Purba Bardhaman by using ADCP method across the canal for the purpose of calibration of gate opening vs discharge through a single gate at different U/S and D/S canal flow condition.

SI No.	Description of Work	Unit.	Rate in Figures& words Rs.P.
1	Real Time Computation of velocity and discharge of irrigation canals at the upstream and/or down stream of regulator structures at different locations in the district of Bankura, Pashchim & Purba Bardhaman by using ADCP method across the canal for the purpose of calibration of gate opening vs discharge through a single gate at different U/S and D/S canal flow condition.	Per location	


Executive Engineer
Burdwan Irrigation Division
Kanainatsal, Burdwan.

Contractor's Signature:

Date: