

NATIONAL INSTITUTE OF HYDROLOGY
(A Govt. of India Society under Ministry of Water Resources, River Development & Ganga Rejuvenation)
JALVIGYAN BHAWAN, ROORKEE – 247 667 (UTTARAKHAND)

NOTICE INVITING QUOTATION

File No. 5(ix)/2018-Pur-1
10.05.2018

Registered post/Speed Post

Dated:

From: The Director,
National Institute of Hydrology,
Jalvigyan Bhawan,
Roorkee – 247 667 (Uttarakhan

To: As per list attached

Dear Sir(s)

With reference to Notice Inviting Quotation No. 5(ix)/2018-Pur-1, dated 23.04.2018 for the work "River Cross Section Survey Work in Bhedan River near Jharsuguda, Odisha", it is to inform that the date of submission of the Quotations has been further extended up to 18.05.2018 at 15.00 Hours. The registered firms/contractors are, therefore, requested to submit their sealed quotations for the said work up to 18.05.2018 at 15.00 hours in the Office of Purchase Officer, National Institute of Hydrology, Jalvigyan Bhawan, Roorkee – 247 667. The quotations received after due date and time will not be considered, and no correspondence in this regarding will be entertained.:

faithfully,

Yours

Singh)

(Omkar

Officer

Scientist F & Purchase

Copy to:

1. P.I. of the Project.
2. OIC, Computer Centre
3. Finance Officer

Singh)

(Omkar

Officer

Scientist F & Purchase

List of Agency / Firms

1. M/s NIRMAN
4/B, Surya Sen Nagar, Sarsuna,
Kolkata 700 061, West Bengal
2. M/s Precision Survey Cnsultancy
Vichitra, SP-45 Kolkata West International City
Salap, Bankra, Howrah 711403,
West Bengal
3. M/s Excel Innova
Plot No.-23, 2nd Floor
Amberhai Extension Sector-19
Dwarka, New Delhi
South West, Delhi 110075
4. M/s PARSAN
707-Eros Apartments
56-Nehru Place
New Delhi 110 019
5. M/s Tojo-Vikas International (P) Limited (TVIPL)
First Floor, Plot No. 4,
Adchini, Sri Aurobindo Marg, Mehrauli Road,
New Delhi 110 017
6. M/s Aymans Infra Consultant Engineer's And Construction
Huzurnagar,
Hyderabad, A.P.
7. M/s Secon Private Limited
Plot No. 147, 7B Road,
Export Promotion Industrial Park (EPIP) Whitefield
Bangalore 560066
8. M/s San Survey Engineering
No.465, Jiban Pal Bagan, No. 3 Gate,
Karbala West, Near Ramkrishna High School
Post & District- Hooghly,
Kolkata – 712103, West Bengal, India
9. M/s .J. K. Project Services
D-1/18, Dakshinee Housing Estate
Kolkata 700018, West Bengal, India

10. M/s K.C. Enterprise
1st Floor, 2nd Stair,
Joygurulu Complex, Ranihati,
Howrah 711302, West Bengal

11. M/s Navitech Solutions India Private Limited
T-12, Haware Centurion Mall,
Sector – 19A, Opp. Seawoods Railway Station (E),
Nerul, Navi Mumbai 400706, MH (India)

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(A Govt. of India Society under Ministry of Water Resources, River Development & Ganga Rejuvenation)
JALVIGYAN BHAWAN, ROORKEE – 247 667 (UTTARAKHAND)

NOTICE INVITING QUOTATION

Registered post/Speed Post

Dated: 23.04.2018

File No. 5(ix)/2018-Pur-1

From: The Director,
National Institute of Hydrology,
Jalvigyan Bhawan,
Roorkee – 247 667 (Uttarakhand)

To: M/S NIRMAN
4/B, Surya Sen Nagar, Sarsuna,
Kolkata - 700 061, W.B.

Dear Sir(s)

Sealed Quotations are invited from the registered firms/contractors for the following works mentioned below, so as to reach by 07.05.2018 at **15.00 Hours** in the Office of Purchase Officer, National Institute of Hydrology, Jalvigyan Bhawan, Roorkee – 247 667. The quotations received after due date and time will not be considered, and no correspondence in this regarding will be entertained:

Sl. No.	Particular of works	Quantity	EMD Rs.
1.	River Cross Section Survey work in Bhedan River near Jharsuguda, Odisha	Cross sections survey in portion of Bhedan River details for the reach of Bhedan River is given in Annexure-I	Rs. 6,000.00

2. The quotations complete in all respect with telephone number, etc. be sent to “The Purchase Officer, National Institute of Hydrology, Jalvigyan Bhawan, Roorkee – 247 667 (Uttarakhand) in sealed envelope.

3. **The firm should clearly mention on the top of the sealed envelope “Quotations for River cross section Survey work in Bhedan River” and “to be opened on 08.05.2018 at 1100 hours”.**

TERMS AND CONDITIONS:

1. The tender document containing specifications of work, terms and conditions, etc. can be obtained from the Purchase Section (Admn.), National Institute of Hydrology, Roorkee on payment of Rs. 590/- (Rs. Five hundred ninety only) (non-refundable) in the form of crossed Demand Draft/Pay order in favour of National Institute of Hydrology, payable at Roorkee, which has to be attached along with the Bid.
2. The tender document can also be downloaded from our website www.nihroorkee.gov.in However, the demand draft towards the cost of tender document as prescribed above will have to be enclosed along with the tender document while submitting the same. In case the offer is not accompanied with the valid demand draft for the cost of tender document as detailed above, the tender will be rejected.
3. In case the date of opening is declared holiday on any account the said date shall be substituted by the next working day.
4. Tender complete in all respect should be deposited in the Tender Box kept in the Purchase Section (Admn), National Institute of Hydrology, Jalvigyan Bhawan, Roorkee – 247 667.

LAST DATE & TIME FOR SUBMISSION OF BID WILL BE	07.05.2018 at 15.00 Hours
DATE/TIME OF OPENING OF BIDS	08.05.2018 (1100 HOURS)

WILL BE	
VENUE OF BID OPENING AT NIH, ROORKEE	OFFICE ROOM OF CHAIRMAN, TENDER OPENING COMMITTEE, NIH, ROORKEE

PLEASE NOTE: Please strictly adhere to the dates/times mentioned in this document.

5. The Tender/Bid will be opened in the presence of representatives of tenderers, if any. Request for postponement will not be entertained. Fax/e-mail bids may not be accepted. Late/Delayed tenders shall not be opened. **The Bids will be opened on 08.05.2018 at 1100 hours in the office room of the Chairman of the Tender Opening Committee in presence of such of the tenderers/or their authorized agents, who are interested to be present at the spot at the time of opening the quotations.**
6. The Director, NIH, reserve the right to accept or reject all or any of the quotations in part or full at any time prior to award the work order, without assigning any reasons, whatsoever, and without incurring any liability or obligation, whatsoever, to the effected bidders.
7. The work has to be completed within 30 days from the date of award of contract work for river cross section survey work in Bhedan River. The quotation shall remain valid for acceptance for a period of not less than 90 days after the specific date of opening of the quotation.
8. If the firm does not mention percentage of GST etc., it would be assumed that the rates include all these, and subsequently no request for charging them as extra will be entertained in this regard.
9. The quotations should be submitted on your letter head for the work as per the specifications/ requirements given in enquiry letter. GST number and Tax related papers may also be attached with quotation.
10. All the disputes/litigation, if any will be subjected to Roorkee/Haridwar jurisdiction only.
11. **IMPORTANT NOTE:** Please provide the following information in your quotation, otherwise your quotation is liable to be rejected:
 - (a) GST, if any
 - (b) Payment terms
 - (c) Delivery/work conditions for providing data report
 - (d) Validity of data
 - (e) Instruments to be used in the Contract work.

Yours faithfully,

(Omkar Singh)
Scientist F & Purchase Officer

Copy to:

1. P.I. of the Project.
2. OIC, Computer Centre
3. Finance Officer

(Omkar Singh)
Scientist F & Purchase Officer

TENDER DOCUMENT

Tender Notice No. 5(ix)/2018-Pur-1, Dated 23.04.2018

NAME OF THE PROJECT: Consultancy study "Area Drainage Study for 3x800 MW Odisha Thermal Power Project (OTPP)"

NAME OF THE WORK : RIVER CROSS SECTION SURVEY WORK IN BHEDAN RIVER NEAR JHARSUGUDA, ODISHA AS PER SITE.



**NATIONAL INSTITUTE OF HYDROLOGY
ROORKEE – 247 667
UTTARAKHAND
JULY, 2015**

TERMS OF REFERENCE AND INSTRUCTION TO BIDDERS

INTRODUCTION

National Institute of Hydrology intend to undertake the work of river cross-sections survey in Bhedan River at selected locations.

Description of Work

RIVER CROSS SECTION SURVEY WORK IN BHEDAN RIVER AS PER SITE DETAILS

SITE CONDITIONS

General Information about Site

The proposed cross-section survey work for Bhedan River is given separately under specification of work and site map i.e. the stretch of River Bhedan in Odisha (Annexure – I).

RESPONSIBILITIES OF NATIONAL INSTITUTE OF HYDROLOGY ROORKEE

- To provided site plan of the proposed area of cross section for Bhedan River.
- Other drawings available with NIH.

INSTRUCTIONS TO BIDDERS

1. *The bidder shall submit cost including all taxes as applicable in the financial bid. The cost for survey of each cross-section should also be quoted as the number of cross-sections survey to be awarded may vary from 10 to 15 depending on the availability of fund.*
2. *The bidders are advised to undertake at their discretion a reconnaissance of the site at their cost, to familiarize themselves with the site conditions before preparing the bid.*
3. *Your tender should reach us at our NIH office by 07.05.2018 **by 1500 hrs.** in the office of Purchase Officer, NIH shall not be responsible for any delay in receipt of the tender. Late tenders shall not be considered. NIH reserves the right to reject any or all the tenders, without assigning any reasons thereof. The Financial Bids shall be opened on the 08.05.2018 at 1100 **hrs.***

GENERAL TERMS AND CONDITIONS

1. *The bidder shall make their own arrangement for boarding, lodging, travel, transportation of survey equipment, boat/launch, labourers, local transport etc. required for this work and shall include cost in their offer.*
2. *Time period for the work – Thirty **days** from the date of award of the work.*
3. *Permission/authorization: It shall be the responsibility of the contractor to seek and obtain, well in time, necessary permission of authorization from concerned local or other offices and/or individual property owners etc. to approach, enter, measure, level, place instruments and equipment etc. as may be required to carry out the survey work. However, necessary authorization and assistance in getting permission may be extended by NIH at its discretion.*
4. *Supervision: The contractor shall provide at all times access to and facilitate inspection and supervision of the works and records for the authorized personnel/scientist of NIH.*
5. *Responsibilities of the bidder: The bidders shall be solely responsible for following sound technical and other methods and practices of river cross section work, accuracy of the equipment, and field work. River cross-section survey work will be conducted as per the site plans and will have to perform as per directions of the scientist of NIH.*
6. *Incomplete tender or tender received after the last date shall not be considered under any circumstances.*

Financial Conditions

1. **The bill of quantities is only indicative in order to arrive at the total contract value. The payment shall be made as per actual quantities at the rates accepted by NIH.**
2. **The Payment towards carrying out various items of works as detailed shall be made to the successful bidder in the following manner:**
 - (a) 100% of contract value on completion of the field works in all respects and submission of report along with data, drawing etc. and acceptance by NIH.

3. *In the event of any dispute, the decision of the DIRECTOR, NIH shall be final & binding. The venue of the arbitration shall be at local court, Roorkee.*
4. *NIH reserves the right to reject any one or all the tenders without assigning any reason thereof.*
5. *The bidder will have to quote the rates for aforesaid for river cross section work as per their respective sites inclusive of all taxes/service tax. No extra payment will be entertained by NIH in respect of any claim whatsoever in the same case.*
6. *The bidder shall comply with proper and legal orders and directions of the local or public authority or municipality and abide by their rules and regulations and pay all fees and charges, which may be liable. The bidder shall bear all incidental charges carriages, storage and safe custody of materials to be used for conducting the cross section works of respective rivers.*

SPECIAL CONDITIONS OF CONTRACT

1. *The firm should carryout works of Land Survey/ Datum transfer using total station with accuracy of < 1 mm and within water survey using GPS/DGPS enables dual frequency echosounder with accuracy of 0-2.5 cm in depth range of 0-40 m.*
The survey details for reach of Bhedan river is attached as Annexure I.
2. *The bidder shall nominate one person for liaisoning with NIH personnel in connection with the work.*
3. *NIH may, at its discretion, award total or part of the work depending upon their technical capabilities and financial offers and fund availability with NIH.*
4. *The bidder shall be solely responsible for the safety; loss, theft, and breakdown etc. of their equipment and safety of the manpower and shall get the same appropriately insured.*
5. *NIH shall deduct taxes at source, demand draft charges etc. as may be applicable and shall provide a certificate to this effect.*
6. *The survey details/data collected shall not be passed on to any other person or organization or used anywhere else by the contractor without the prior permission of NIH.*

SCOPE OF WORK AND SPECIFICATIONS

Work of river Cross-sections for Bhedan river.

Brief Scope of Work

- (i) The scope of work has been described in Annexure I of survey details of the Bhedan river.
- (ii) Preparation and supply of charts and survey reports in hard copies as well in digital form in excel spread sheet and Autocad drawings. The excel sheet would contain X (distance from left/right bank) and Z (bottom elevation MSL) and the geographical/ UTM-44N coordinates of both banks.
- (iii) To provide any clarifications/justification required by client during the acceptance of report for the work carried out by the bidders.

Technical Specifications

Establishment of Bench Mark

The levels shall be on the basis of GTS benchmarks in the vicinity. The contractor shall transfer the benchmark to the site. All levels shall be related to MSL. New Benchmark on river bank shall be established as per site requirement for various river cross sections to be surveyed either on existing abutments, jetties or other monoliths, which shall meet the stability requirement for benchmarks specified by Survey of India. Alternatively new benchmark of suitable type shall be built to survey of India standards. Value of benchmarks shall be established to accuracy better than +/-5 millimeters.

Establishment of Horizontal control and marking the selected points

Horizontal control established shall be properly connected to nearby G.T.S. or other points approved by scientist.

Establishment of Vertical Control

The vertical control shall be established with suitable water level gauges and/or GTS Bench Marks within or near the survey area to reduce the soundings to a recoverable or approved Chart Datum (C.D.).

Carrying out Soundings

The sounding data shall be recorded and reported at an interval of 10m interval at the marked cross section site across the river. Soundings shall be carried out using suitable equipment, which yield accuracy of ± 0.025 m or better. Relevant environmental parameters, which effect accuracy of echo sounding, shall be measured regularly and appropriate correction shall be applied. 'Bar Checks' shall be carried out daily before commencement and after completion of days work. Bar Check equipment/tackle and its calibration shall be got approved from scientist.

Position Fixing

The contractor would use the DGPS enabled sounding instrument to determine the position of points to be surveyed. While taking soundings vessel shall be moved at a slow speed (not greater than 3 knots).

Derivable

1. Survey report along with excel sheet containing geographical/ UTM-44N coordinate of permanent marks for river banks. The X, Z coordinates for river cross-sections.
2. The AutoCAD drawings for river cross sections.
3. Photographs and videos are to be made during the survey work and to be submitted in soft copy (DVD). Photographs of important locations in and around the project site are also to be included in the survey reports.

Schedule - 'A'

NAME OF WORK: Carrying out cross sectional survey works at about 15 section in Bhedan river from *Tumblea* i.e. Bridge on Sambalpur-Rourkela highway to confluence with IB river in Odisha

SI No.	Detail of Works	Qty	Amount Rs.	
			In Figures	In words
1.	Annexure-I Survey Details for a reach of Bhedan River	15 sections		

We agree to execute the above work in accordance with the technical specifications and terms and conditions mentioned in this tender documents for a total contract price of Rs.....(Rupees.....) within the period specified in the invitation for tender.

Date

Name & Signature of the Authorized Signatory

Annexure - I

Survey Details for a reach of Bhedan River

River Cross-section survey in Bhedan river from *Tumblea* (Bridge on Sambalpur-Rourkela Highway) (approx. 13 km) shown in blue line in Figure 1 (one time river cross section, extended beyond banks) at about 15 sections. The width of river cross-section to be surveyed will be about 500 m. The width of water spread is about 200 m (Figure 2).

The elevation data of river bed along with the latitude and longitude (X-Y in UTM44N) of observation point would be required. The levels shall be on the basis of GTS benchmarks in the vicinity. The contractor shall transfer the benchmark to the site. All levels shall be related to MSL based on GTS benchmark. The spacing between two surveyed points along the river cross sections should not be more than 1/10 of waterway width and should be placed when there is change in slope.

Along the river cross section, survey on land is to be carried out by Total Station/DGPS while the survey in waterway is to be carried out using echo-sounder. The horizontal coordinates of surveyed points should be in geographical/UTM coordinates while the vertical coordinate should be as above Mean Sea Level (MSL). The accuracy / least count of the instruments used in the survey should be clearly mentioned in the NIQ.

Survey report along with excel sheet containing geographical/ UTM-44N coordinate of permanent marks for river banks, The X, Z coordinates for river cross-sections and AutoCAD drawings for river cross sections are to be submitted after completion of work. Photographs and videos are to be made during the survey work and to be submitted in soft copy (DVD). The surveying agency is required to inform NIH regarding initiation of the work, so that officials from NIH may visit the surveying sites to monitor the survey work.

You are requested to quote your price for the above survey works including the applicable taxes. The number of cross-sections to be awarded for surveyed may vary from 10 to 15 depending on the availability of fund.

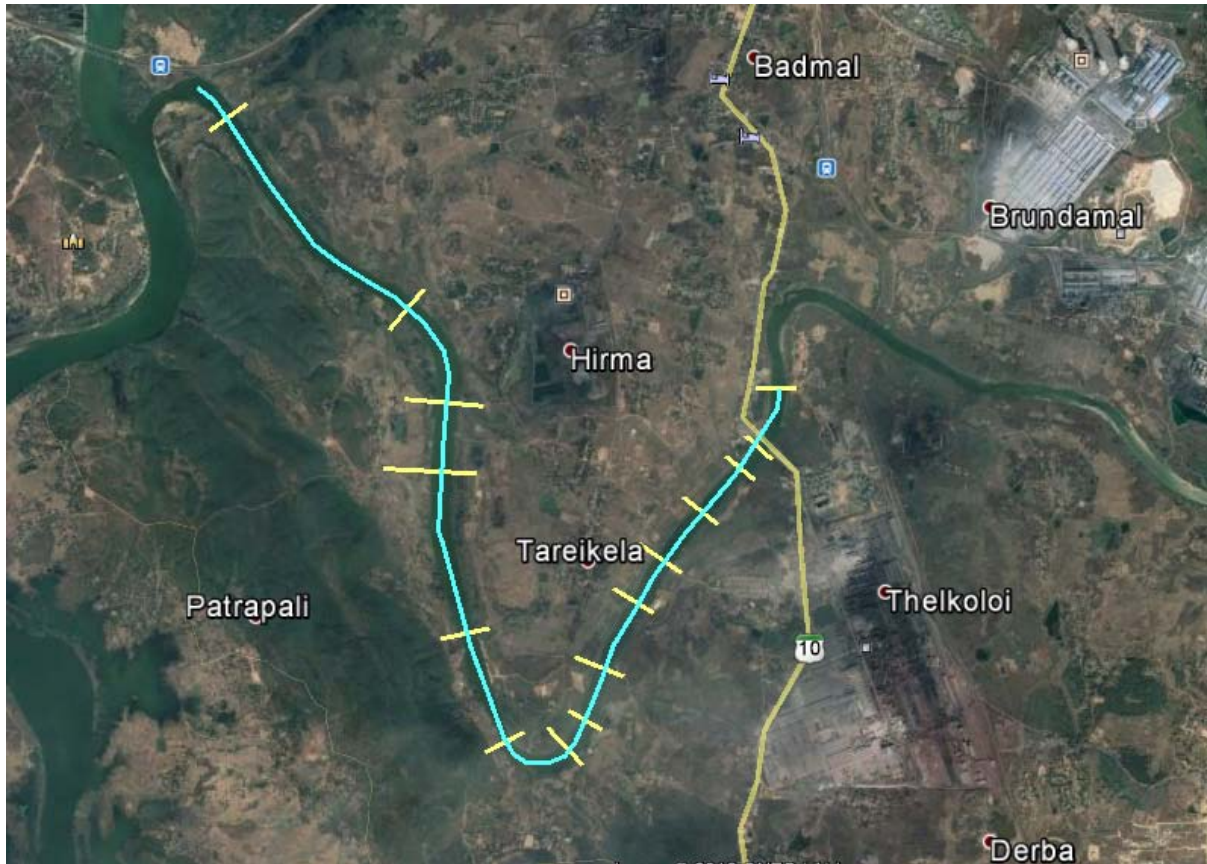


Figure 1: The stretch of river Bhedan for river cross sections survey.



Figure 2: The stretch of river Bhedan with alignment of river cross sections survey.

The link for downloading KML file is given below:

<https://drive.google.com/file/d/1e0IRGHYvzOlmJUR66DR6yKmKo8Ra2qVp/view?usp=sharing>

List of Agency / Firms

1. M/s NIRMAN
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Kolkata 700 061, West Bengal
2. M/s Precision Survey Cnsultancy
Vichitra, SP-45 Kolkata West International City
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West Bengal
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Plot No.-23, 2nd Floor
Amberhai Extension Sector-19
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11. M/s Navitech Solutions India Private Limited

T-12, Haware Centurion Mall,

Sector – 19A, Opp. Seawoods Railway Station (E),

Nerul, Navi Mumbai 400706, MH (India)