



**GOVERNMENT OF INDIA  
MINISTRY OF WATER RESOURCES,  
RIVER DEVELOPMENT AND GANGA REJUVENATION  
CENTRAL WATER AND POWER RESEARCH STATION  
KHADAKWASLA, PUNE - 411 024.**

**TENDER DOCUMENT**

**FOR**

**JOB WORK OF CARRYING OUT BATHYMETRY SURVEY FOR ASSESSMENT OF  
SILT  
AT BARNA RESERVOIR, MP.**

**DUE DATE OF OPENING: 26/12/2016**

**EXECUTIVE ENGINEER (CIVIL),  
CW&PRS, PUNE**

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RIVER DEVELOPMENT AND GANGA REJUVENATION  
CENTRAL WATER & POWER RESEARCH STATION,  
KHADAKWASLA, PUNE-24**

**THIS DOCUMENT FROM PAGE 2 ONWARDS SHOULD BE  
RETURNED IN ORIGINAL DULY SIGNED**

**TENDER DOCUMENT FOR**

**JOB WORK OF CARRYING OUT BATHYMETRY SURVEY FOR ASSESSMENT OF SILT  
AT BARNIA RESERVOIR, MP.**

**NAME OF THE BIDDER  
(WITH ADDRESS)**

**PHONE :**

**FAX :**

**LAST DATE OF RECEIVING TENDER : 26/12/2016 at 1430 Hrs.**

**DATE OF OPENING OF TENDER : 26/12/2016 at 1500 Hrs.**

**THIS TENDER DOCUMENT CONTAINS THE FOLLOWING:**

- 1) TERMS & CONDITIONS**
- 2) SPECIAL CONDITION**
- 3) ANNEXURE**

**THE BIDDER SHOULD READ ALL THE INSTRUCTIONS IN THE DOCUMENT  
THOROUGHLY BEFORE SUBMITTING THE TENDER AND ADHERE TO THE DATES  
GIVEN**

**SIGNATURE OF BIDDER  
WITH SEAL**

**EXECUTIVE ENGINEER (CIVIL)**

## TERMS AND CONDITIONS

**1. ADHERENCE TO ALL THE TERMS AND CONDITIONS:** The bidder should adhere to all the terms and conditions.

If there is any discrepancy in complying with any term and condition laid down, the bid is liable to be rejected and the decision of the competent authority would be binding on the bidder.

a. Tender forms can be obtained from the Office of Executive Engineer (Civil) between 0930 hours and 1600 hours from 2/12/2016 to 22/12/2016 on payment of non-refundable fee of Rs 575/- each plus (postal charges of Rs 50 /- if required by post) by Cash/Demand Draft drawn in favour of Executive Engineer (Civil), CWPRS, payable at Pune. Tender documents can also be down loaded from the CWPRS website [www.cwprs.gov.in](http://www.cwprs.gov.in) should be submitted along with the tender of Rs 575/- in the form of DD drawn in favour of Executive Engineer (Civil), CWPRS, payable at Pune.

b. Reputed firms may send their lowest offers for the same in Sealed Envelops superscribing Bid for the *JOB WORK OF CARRYING OUT BATHYMETRY SURVEY FOR ASSESSMENT OF SILT AT BARNARESERVOIR* in person/by post so as to reach Executive Engineer (Civil), CWPRS, Pune 24 on or before 26/12/2016 upto 14.30 hours. The Bid should be opened at 15.00 hours on 26/12/2016 Tender received after due date and time will be rejected.

c. The tender shall be valid for acceptance for a period of 90 days from the date of opening of the quotation. The rates quoted should be written by ink both in figures and words. In case of modification to the quotation, backing out and any abnormal delay in commencement of the work by the bidder, their EMD amount will be forfeited.

d. The department reserves the right to reject any or all the Tenders without assigning any reasons.

e. Unsigned tenders will be rejected.

2. The successful bidder will have to deposit 10% of the amount as security deposit in the form of FDR/DD in favour of Executive Engineer (Civil), CWPRS, Pune 24 at the time of signing the agreement. The security deposit would be refunded after satisfactory completion of contract period.

3. EMD of Rs 31140 /- in the form of Cash/FDR in favor of Executive Engineer (Civil), CWPRS should be enclosed along with the bids. Bids without EMD and Tender Document Fee would be rejected.

4. The Integrated Bathymetry system equipment, software and manpower shall be *in good condition.*

f. The Equipment, software should latest technology not older than 2010.

g. In case of non functioning of Equipment, software hired, alternate arrangement should be made by the contractor at site.

h. The rates quoted shall be valid on till completion of Barna reservoir survey from the date of signing of the agreement.

5. The payment will be made within 30 days and bidder shall submit bills fortnightly.

6. Tendered should be owner of the Integrated Bathymetry system equipment, software. If not, the Tendered shall submit legal hire agreement with the owner of the Integrated Bathymetry system equipment, software.

7. Technical details of the Integrated Bathymetry system, equipment, software intended to propose to hire shall be enclosed with the tender.

8. Experience of having successfully completed similar works during last one years, ending last day of month previous to one in which tenders are invited. And also qualified hydrographer should be provided.

9. The bidders are requested to inspect/talk to CW&PRS before quoting their rates and acquaint themselves with the scope of work, Site conditions and seek clarifications if any from the CW&PRS in charge, No extra claim shall be entertained on this account at later stage.

10. Bidder should submit the Service Tax registration number of 15 digits, which is mandatory. Without which bid would be rejected.

i. The Service Tax Registration No. is \_\_\_\_\_ "*Which is mandatory in terms of Ministry of Finance letter No. 137/132/2006- CX4 dated 09.10.2006*

j. All taxes, service tax etc. and other outgoing over and above the quoted rates should be clearly mentioned in the Tender. In the absence of any such indication it shall be presumed that the price quoted are inclusive.

11. The exact dates, time for reporting Job work of carrying out bathymetry survey for assessment of silt at Barna reservoir (M.P.) shall be intimated by fax/ mail/ letter in five days advance.

12. CWPRS reserve the right of cancellation of Job work of carrying out bathymetry survey for assessment of silt at Barna reservoir (M.P.) in the short notice under unavoidable circumstances. No charges shall be paid for such cancellation.

13. The rates shall remain valid for only Barna reservoir survey. However, CWPRS reserves the right for variation in the contract period. It may be with the mutual consent of the Contractor to supply the services at the same rates and terms and conditions of the Annual Rate Contract for extended period if asked to do so.

14. Failure to provide the services as per the instructions and specifications or breach of any terms and conditions, will result in forfeiture of the Earnest Money deposit. The decision of Director, CWPRS in this regard shall be final and binding.

15. The rate should be quoted inclusive of all taxes, levies, road toll charges, etc. except service tax, which will be paid as per rule in force from time to time. No extra payment on any account will be made by this office. If above charges are not paid by the contractor, same shall be recovered from the contractor and penalty of double the amount involved shall be imposed.

16. A sum @ 2 % of the gross amount of the bill shall be deducted from each running bill of the contractor towards the Income tax and 3% surcharge/cess. Form 16 A for Tax Deducted at Source (TDS) will be issued to the contractor after the end of the financial year.

17. It will be obligatory on the part of the contractor to provide Job work of bathymetry survey system for assessment of silt at Barna reservoir (M.P.) for the duration of completion Barna reservoir survey. Any termination of the contract without sufficient notice or minimum three months notice, on the part of the contractor, will make him liable to forfeit of security deposit. The CWPRS Administration reserves the right of termination of the contract with immediate effect without giving any notice, in case the Director, CWPRS is of the opinion that there is any violation of the rule and regulations of Central Laws/State Laws or contractor committed any breach/violation of the terms and conditions of the contract.

*Bidder's Signature with Seal*

### **SPECIAL CONDITIONS:**

**1.The rates offered by the bidder shall be inclusive of the said job work including the equipment, software, all cost of consumables, handling charges, man power etc inclusive of all Taxes except Service Tax. (Excluding boat)**

**2.Job work of carrying out bathymetry survey for assessment of silt at Barna reservoir (M.P.) will be engaged on as and when required basis and the payment shall be made within 30 days on receipt of the Invoice/Bills in all respects.**

**3.The contractor shall carryout the Job work of carrying out bathymetry survey for assessment of silt at Barna reservoir (M.P.) as and when required by CW&PRS on after intimation from CW&PRS by letter/mail. The rate offered shall be inclusive of overtime, Beta etc., if to be paid on Sundays and Holidays to work. The charges need to include the transportation cost to the site also.**

**4.The equipment setup has to be made as per the boat available at site or the boat mutually agreed upon for the said survey work. The bidder needs to have the fixtures required for the boat to hold the sensors available at site. If required the photographs may be provided by CWPRS.**

**5.Payment will be made within 30 days of the submission of bill in duplicate along with log book / log sheet duly signed by duty Supervisor or In- Charge CW&PRS.**

**6.The successful contractor should place the software, which is in good working condition and with all the documents and valid certificates.**

**7.In case of any break down of equipment, software, the contractor should arrange same or higher capacity software at his own risk and cost within 2-3 days at site, the break down hours of the software shall be deducted from the period of engagement and payment will be restricted for actual working period only.**

**8.Contractor shall employ only certified and experienced manpower.**

**9.All the running expenses of Job work of carrying out bathymetry survey for assessment of silt at Barna reservoir (M.P.) in rates or escalation is payable by any reason of increase in wages, POL rates etc.**

**10.No Escalation charges due to hike in the price of consumables etc. shall be admissible during the period of contract. The rate quoted in the tender shall include all such contingencies and continue to be the same throughout the tenure of the contract including the extended period, if any.**

**11.Contractor shall maintain proper logbook for the period of operation of the Job work of carrying out bathymetry survey for assessment of silt at Barna reservoir (M.P.). The log entries shall be signed by the duly supervisor and the same shall invariably be enclosed along with the bills for payment.**

**12.The period of contract is till completion of Barna reservoir survey and at the mutual discretion it may be availed for the other reservoirs. In case of curtailment of contract period, the contractor shall be informed of the same in advance by serving a 30 days notice of termination. In the either case, the contractor shall not be entitled for any additional claim whatsoever.**

*Bidder's Signature with Seal*

**13. Contract shall be terminated by giving 7 (seven days) days notice by CW&PRS if the services of the contractor are found to be inadequate or unsatisfactory or in violation of terms and conditions of the contract, without prejudice to its rights and remedies.**

**14. The final payment of Security deposit recovered shall be released to the Contractor only after successful completion of the Contract and on production of self-certificate that he had fulfilled all the contractual obligations and there is no payment pending with CW&PRS other than the Security Deposit amount.**

**15. In the matter of interpretation of terms and conditions, special conditions etc., covered under various clauses of this contract, Executive Engineer (Civil), CW&PRS, Pune, shall be final and binding on the contractor.**

**16. In the event of breach of contract by the contractor and/or the contract is cancelled due to default on part of the contractor the balance the work to be carried out by awarding to another agency at the risk and cost of the contractor, the CW&PRS shall be entitled to withhold any sum due as a result of the said breach or defaulted.**

**17. The bidders may visit CWPRS, Khadakwasla, Pune 411 024, on any working day (Monday to Friday), between 9.30am to 4.30 pm to assess the scope of work and job requirements at site. The work shall be carried out under supervision of CWPRS officers.**

**18. Pre bid meeting with the bidder & bid clarification: A pre-bid meeting of the work is organized at CW&PRS, campus at room no. 113 on 12/12/2016 at 1430 hrs in Hydraulic Inst Division about the work details.**

*Bidder's Signature with Seal*

## **Annexure**

**Name of work:** JOB WORK OF CARRYING OUT BATHYMETRY SURVEY FOR ASSESSMENT OF SILT AT BARNA RESERVOIR, MP.

The Single beam dual frequency echo sounder will be used for assessment of silt at Barna reservoir.

### **Water Depth**

1. The system will be used in Barna reservoir located at Dist. Raisen (M.P.) (Latitude 23 deg 5min N and Longitude 78 deg. 7min E.)
2. Depth Range: 50 mtrs maximum; data to be logged at 100 meters grid interval or better as per user choice as per site conditions.
3. Accuracy: 5 cm at 33 Khz  
1cm at 210Khz
4. Compatible with GPS for logging position online and data storage in a Laptop/ PC
5. On boat battery operatable.
6. The output data having lat/ long / depth 1, 2 to be made available in standard format such as .dat, txt, xls for further analysis at CWPRS.

### **Position**

1. The position to be logged with DGPS system with 10 cm accuracy with connecting and submeter accuracy without DGPS connection.
2. The data of DGPS and depth to be logged on to a software and submitted to CWPRS for analysis.
2. Data to be ported to GIS packages for DEM creation.

**Bidder's Signature with Seal**

**Executive Engineer (C)**

## SCHEDULE OF WORK

**Name of work:** Job work of carrying out Bathymetry Survey for assessment of silt at Barna reservoir, MP.

Sl. No.	Description of Work	Qty.	Cost( Rs.)
1	<p>Job work of carrying out bathymetry survey to assess silt quantity at Barna reservoir, MP having an area of 81 sq. km. Survey should be carried out atleast 100m grid interval using single beam dual frequency echo sounder along with DGPS positioning system .The out put data will cover the whole lake area which is to be interpolated for the reservoir volume and silt quantity. The data should be collected and stored on laptop and supplied to CWPRS for further processing, complete in all respect.</p> <p>The total work is to be completed in 30 days (max) from the date of issuing the supply order.</p>	Job work. lumpsum	

Bidder's Signature with Seal

Executive Engineer (C)