

Government of India
Central Water & Power Research Station
Khadakwasla, Pune – 411 024

No.708/1/S/EE(C)/RSWG/2015/577

Date: 08.10.2015

TENDER NOTICE

Executive Engineer (Civil), CW&PRS, Pune-24, on behalf of President of India invites sealed tenders from eligible bidders for carrying out the following job work:

Description of Material	Quantity	EMD
Job work for Supply, installation and commissioning of Wave Data Acquisition System for Physical Wave model of Kamarajar port at CWPRS	One Set	8121/-

Tender forms can be obtained from the office of Executive Engineer (Civil), CW&PRS, Pune-24 between **0930 hrs and 1600 hrs from 08.10.2015 to 28.10.2015** on payment of a non-refundable fee of .500/-, in cash or by DD drawn in favour of Executive Engineer (Civil), CWPRS, payable at Pune. If the tender documents are required by post, D.D. for .550/- including .50/- towards postal charges in favour of Executive Engineer (Civil) may please be sent.

The complete Tender Document can also be downloaded from CWPRS website www.cwprs.gov.in and should be submitted along with tender fee of .500/- (**Rupees Five hundred only**) in the form of DD drawn in favour of Executive Engineer (Civil), CWPRS payable at Pune. **Tender without Tender Fee and EMD will also be rejected.**

Reputed Firms may send their lowest offers for the same in Sealed Envelopes superscribing tender for the above mentioned materials in person/ by post so as to reach Executive Engineer (Civil), CWPRS, Pune 411 024 (India) on or before **02.11.2015** up to **1430** hours, the Tenders would be opened at **1500** hours on **02.11.2015**.

Executive Engineer (Civil)

BY REGISTERED POST A.D

Phones : 24103267/24103220
Email : ee_civil@cwprs.gov.in



Fax : 91-020-24381004
Website : www.cwprs.gov.in

of India
Ministry of Water Resources River Development & Ganga Rejuvenation
Central Water & Power Research Station
Khadakwasla, Pune . 411 024

No.708/1/EE(C)/RSWG/2015/

Date :

As per list attached

Sub: Tender intimation for Job work for Supply, installation and commissioning of Wave Data Acquisition System for Physical Wave model of Kamarajar port at CWPRS.

Dear Sir,

The Tenders for job work for Supply, installation and commissioning of Wave Data Acquisition System for Physical Wave model of Kamarajar port at CWPRS, Khadakwasla. Kindly send your offers for the same in sealed envelope superscribing Tender for above-mentioned job work to the undersigned on or before **02.11.2015** up to 1430 hrs. The bids will be opened at 1500 hrs on **02.11.2015**

The Tender documents can be obtained from the office of Executive Engineer (Civil), CWPRS, Pune from **08.10.2015 to 28.10.2015** on payment of ` 500/- by Cash/DD in the name of Executive Engineer (Civil) or if tender documents are required by post a D.D. for ` 550/- (` 50/- for postal charges) in the name of Executive Engineer (Civil) may be sent to the undersigned.

The Tender documents are also available on our web site cwprs.gov.in. The same may be downloaded from above website. In case the Tender documents downloaded from web site, tender documents fees of ` 500/- may be enclosed in the form of DD along with the bid. The DD may be drawn in the name of Executive Engineer (Civil) CWPRS, payable at Pune. Tenders received **without tender document fees and EMD, Tender will be rejected. Unsigned/late tenders also be rejected.**

Thanking you,

Yours faithfully,

Executive Engineer (C)

LIST OF SUPPLIERS

- 1) ELECTRO PROFESSIONALS
35/A 1-2 ERANDAWANA OPPOSIT SATYAM ESTATE
PUNE 411 038.
- 2) INCONEL
OFFICE NO. 15, 16 COMMERCE AVENUE COMPLEX,
MAHAGANESH COLONY, PAUD ROAD, KOTHRUD
PUNE411038
- 3) SILICON AUTOMATION SYSTEMS
S.NO. 107, OFFICE NO.3 KARAN PLAZA 1,
MUMBAI BANGLORE HIGHWAY, WARJE
PUNE 411 058.
- 4) SUPERIOR ELECTRIC
B-6 SATYAM ESTATE ERANDAWANA OFF KARVE ROAD
PUNE 411038
- 5) FERRITES INDIA
10, MAULI , SILVER OAK PARK,
BANER ROAD PUNE 411045
- 6) BRIGHT STARS ELECTRONICS
43/2, ERANDAWANA NEAR KONARK UDYOG
PUNE 411038
- 7) SHOBHA ASSOCIATES
10, MURLIDHAR TERRACE,
63, RAMBAG COLONY,
PAUD ROAD, PUNE 411038
- 8) PARANJAPE ENGINEERING SERVICES
114/1,VITTHAL POKALE INDUSTRIAL ESTATE,
DSK ROAD, DHYARI GAON, PUNE 411041
- 9) PSPL,Plot No. 34 & 37/B
Kuttalwadi, Bamanwadi Cross,
P.O. Navage, Belgum-590014.



अनुसंधान के माध्यम से सेवा
Service Through Research

**Government of India
MINISTRY OF WATER RESOURCES RIVER
DEVELOPMENT AND GANGA REJUVENATION**

Central Water and Power Research Station

Khadakwasla, Pune - 411 024

LIMITED TENDER ENQUIRY (LTE)

**FOR JOB WORK FOR SUPPLY, INSTALLATION AND
COMMISSIONING OF WAVE DATA ACQUISITION
SYSTEM FOR PHYSICAL WAVE MODEL OF KAMRAJAR
PORT AT CWPRS**

DUE DATE OF OPENING: 02/11/2015

EXECUTIVE ENGINEER (CIVIL)

C.W.& P.R.S., KDK,

PUNE-411 024

Phones: 24103220



Fax : 91-020-24381004

Email : ee_civil@cwprs.gov.in

Website : <http://www.cwprs.gov.in>

Government of India

Ministry of Water Resources, River Development and Ganga Rejuvenation

CENTRAL WATER & POWER RESEARCH STATION

Khadakwasla, Pune 411- 024

No.

Date:

To be returned in original duly signed

Job work for Supply, Installation and Commissioning of Wave Data Acquisition System for Physical wave model of Kamrajar port at CWPRS.

NAME OF BIDDER	:	
ADDRESS	:	
PHONE No.	:	
FAX No.	:	
LAST DATE OF RECEIPT OF BID	:	02/11/2015 UPTO 1430 HRS
DATE OF OPENING OF BID	:	02/11/2015 AT 1500 HRS

This bid document contains the following:

1. SCHEDULE OF PRICE (for quoting the bid)
2. TECHNICAL SPECIFICATIONS (work details)
3. TERMS & CONDITIONS (Technical, Financial, General)

The bidder should read all the instructions in the documents, thoroughly before submitting the bid and adhere to the dates given.

SIGNATURE OF BIDDER

EXECUTIVE ENGINEER (CIVIL)
CWPRS, PUNE

JOB WORK FOR SUPPLY, INSTALLATION AND COMMISSIONING OF WAVE DATA ACQUISITION SYSTEM FOR PHYSICAL WAVE MODEL OF KAMRAJAR PORT AT CWPRS

PREFACE

CWPRS is engaged in simulation of random and regular sea waves for design of port layout and other sea structures. The Kamarajar port (Ennore port) wave basin of size 36 m x 48 m is used for conducting basic and specific studies pertaining to port development projects. It is proposed to install a Wave Data Acquisition System for this basin. The Wave Data Acquisition system will be used to acquire wave data at various points in the port layout and validate the wave simulation activity carried out with the help of state of art servo hydraulic Random Sea Wave Generating system. The acquired wave data will be analyzed to compute wave spectrum and the same will be matched with the theoretical wave spectrum so that the required Significant wave height and peak frequency will be generated in the model.

The Wave Data Acquisition System for Kamarajar port model includes the following components:

- 1) Capacitance Wave Height Recorder with Wave Sensors
- 2) Digital Water Level Indicator with level sensor and display unit
- 3) Remote Access Terminal with peripherals.
- 4) Motorized wave sensor calibration unit
- 5) USB Multifunction Module

The Random Sea Wave Generating (RSWG) system for Kamarajar port model will be used for laboratory simulation of random / regular waves in the frequency range of 0.3 to 3 Hz. The components of Wave Data Acquisition system is used to acquire wave data to give time variant voltage signal. The Capacitance Wave Height Recorder with Wave Sensors give voltage data proportional to the wave height. The Remote Access Terminal with USB Multifunction module is used to convert analog voltage data in digital form and stores in hard disk. The same is analyzed for further wave synthesis. The Motorized wave sensor calibration unit is used to calibrate voltage output of CWHR unit against actual physical wave height in meter. The Digital Water Level Indicator with level sensor and display unit is used to display the water level in the wave basin in the form such as High, Low, Correct etc.

The details of the proposed Job work for Supply, installation and commissioning of Wave Data Acquisition System for Physical wave model of Kamrajara port at CWPRS are given in the following Annexure

The component wise technical specification are shown in Annexure-I.
Terms and conditions are shown in Annexure-II.
Schedule of price is given in Annexure-III.

Annexure – I

The component wise technical specification

Sr. No	Items	Quantity	Specifications/Requirements	Bidder's Compliance
1	Capacitance Wave Height Recorder with Wave Sensors			
a	Capacitance Wave Height Recorder (CWHR) unit	2 No	8 channel CWHR unit with power cable as per design.	
b	Two core shielded cables	1600 mtr	14 strands 36 guage (14/36) 2 core shielded cables with aluminum foil to connect wave sensors with CWHR unit (as per sample)	
c	CWHR probe	16 No	400 mm CWHR probe and connector PCB as per drawing	
d	Wooden box for CWHR probe	8 No	Wooden box suitable for fitting 2 CWHR probes in one box.	
e	Stands for CWHR probe	16 No	MS stands to mount CWHR probes as per drawing.	
2	Digital Water Level Indicator with level sensor and display unit			
a	Digital Water Level Indicator (DWLI)	1 No	Digital Water Level Indicator 7 segment display on panel to indicate H,L,C and O with power cable.	
b	4 inch Display unit	1 No	4 inch display unit with cable to display the water level near gate.	
c	DWLI probe	1 No	Digital Water Level sensor probe as per design.	
d	Stand for DWLI probe	1 No	MS stands to mount DWLI probe as per drawing.	
e	Wooden box for DWLI probe	1 No	Wooden box suitable for fitting 1 DWLI probes	
f	4 core shielded cable	100 mtr	4 core shielded cable to connect Water level sensor with DWLI unit	
3	Remote Access Terminal with peripherals			

a	Remote Access Terminal	1 No	Remote Access Terminal for wave data acquisition with following configuration :Branded Desktop (HP, DEL, HCL, LENOVO etc.) INTEL Core i3 or latest, 3.2 GHz or higher, 4GB DDR3 RAM, Hard Disk 500GB, DVD drive, Color LED monitor 18.5+wired key board and mouse,	
b	Operating system Windows 7	1 No	License copy of Microsoft Windows 7 installed on Remote Terminal Unit	
c	Uninterrupted Power Supply	2 No	Offline UPS 600 VA or higher for 30 minutes backup.	
d	Printer	1 No	Laser-jet Printer A4 size Black and White (HP 1020 plus)	
e	Servo Stabilizer	1 No.	1 KV Servo stabilizer to be installed in control cabin to protect instruments.	
4	Motorized Wave Sensor Calibration unit			
a	Motorized Calibration unit	1 No	MS Eccentric unit with adjustable eccentricity and speed and with suitable AC motor and Gearbox to drive the rod as per design	
5	USB Multifunction Module			
a	USB Multifunction Module	1 No	Advantech 4711A USB Multifunction Module with 16 Analog Input,2 Digital Output and Device Driver for Wave Generation and Data Acquisition.	

Note:

All above items should be compatible to each other and integrated to function in a single Data Acquisition system fully.

TERMS AND CONDITIONS

A) TECHNICAL

1. 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.
2. The work shall be carried out under supervision of CWPRS officers.
3. All The components detailed in Annexure-I are to be transported by supplier to the site at CWPRS
4. All the system components should be integrated and tested together to perform the 16 channel Wave Data Acquisition successfully.

B) FINANCIAL

1.	The bidder should refer and strictly follow the MANNER OF SUBMISSION OF BIDS given in this bid document. In absence of the documents mentioned there, the bids will be rejected.
2.	The rates quoted shall be written in ink, both in figures and in words. If there is any discrepancy in the rates quoted in figures, the rates quoted in word would be considered.
3.	Written warranty for a period of 12 months (One year) from the date of successful commissioning of the electronic system is required.
4.	Payment : 100% after installation, commissioning and successful performance test.
5.	The bidder with whom the order will be placed will have to deposit 10% of the total amount as security deposit in the form of Bank Guarantee / FDR in the name of Executive Engineer (Civil), CWPRS, for a period of one year after successfully installing the systems. Otherwise 10% security deposit will be deducted from the bill which will be refunded after completion of warranty period.
6.	The system components should be supplied within 60 days from the date of placement of work order and installation and commissioning of the all the components in every aspect should be completed within 90 days from the date of placement of work order.
7.	Payment would be made within 30 days after satisfactory completion of said work.
8.	Liquidated damage @ 0.5% for delay of every one week will be imposed subject to maximum of 10% of total value.
9.	No other conditions of payment and delivery will be accepted for the work.
10.	If a firm accept the order and fails to execute the order, in full or part as per terms & conditions stipulated therein, it will be open to the Competent Authority to recover liquidated damages from the firm at the rate of 1 % of the value of the undelivered stores. It will also be open to the Competent Authority, alternatively, to arrange the work from any sources, at the risk and cost of the firm accepted and failed to execute the order according to stipulations agreed upon. This will also entail removal of the defaulters name from the approved / registered list of suppliers.

11.	The bid for the work / supply shall <u>remain valid for a period of 180 days</u> from the date of opening of the bid. The Competent Authority shall without prejudice to any other right or remedy be at liberty to forfeit 50% of the earnest money if the bidder withdraws his bid within the validity period or makes any modifications in the terms and conditions of the bid which are not acceptable to CWPRS and to forfeit whole of the earnest money if the bidder whose bid has been accepted, fails to commence the work/supply specified in the NIT (along with changes in scope, if any) in the prescribed time or abundance the work/supply before its completion.
12.	The cost quoted should be inclusive of all taxes, packing & forwarding, installation & commissioning, and any other incidental charges
13.	The competent authority reserves the right to accept or reject any or all the bids without assigning any reasons thereof.
14.	<u>The provisions of CPWD manual shall govern EMD and any other conditions not covered in the terms and conditions of this document.</u>
15.	<p>i) BID Security (Earnest Money): The bidder shall furnish as part of his bid, a bid security for an amount as mentioned in the notice inviting Tender. The bidder (small scale units) who are registered with National Small Scale Industries Corporation (NSIC) under Single Point registration scheme are exempted from payment of bid security.</p> <p>ii) For Price of Bid Form: The small scale industries registered with NSIC under single point registration scheme for the tender items may not be required to pay the bid price provided details of the valid registration with NSIC for tendered item along with their approved monetary limit are furnished by the bidder. However, if the estimated value of the tender is more than their monetary limit, bid document shall not be supplied free of cost.</p> <p>iii) No waiver of security deposit up to the monetary limit for which the unit is registered</p> <p>iv) No price preference over the quotation of the large scale units.</p>

C) GENERAL:

1.	Tender forms can be obtained from the office of Executive Engineer(Civil) between 09:30 Hrs and 16:00 Hrs from 08/10/2015 to 28/10/2015 on payment of non refundable fee of Rs.500/- each plus postal charges of Rs.50/-(if required by post) by cash/DD in favor of EE(C) CWPRS payable at Pune. Tender documents can also be downloaded from the CWPRS website www.cwprs.gov.in should be submitted along with tender fee of Rs.500/- in the form of DD drawn in favor of EE(C), CWPRS payable at Pune.
2.	Reputed firms may send their lowest offer for the same in sealed Envelope in person/by post so as to reach the EE(C) CWPRS, Pune 24 on or before 02/11/2015 up to 14:30 Hrs. The bid will be opened at 15:00 Hrs on 02/11/2015.
3.	The Bid received after due date and time will not be taken into consideration.
4.	The validity of the Bid should be at least 180 Days.

5.	The total system satisfying above specifications from a single bidder will only be considered.
6.	Any queries regarding the system should be clarified before submission of bid.
7.	The bid should accompany a compliance statement with the signature of the bidder, specifying compliance to each and every specification of each and every item/sub item mentioned in all the Job requirement of this document. The bid is liable to be rejected if compliance statement, duly signed, is not supplied with the technical bid.
8.	The bidder should undertake installation / assembly within the stipulated time of completion.
9.	The quotation should accompany detailed technical literature and leaflets of the quoted model where ever applicable. No deviation from the above mentioned specifications would be accepted.
10.	Being a Central Government Organization Octroi is not applicable, but Octroi Exemption Certificate will be issued, if necessary.
11.	Insurance during the transit of the system components should be borne by the supplier.
12.	Any damage caused to the system while dismantling the existing components shall be repaired/replaced by the bidder.
13.	The cost of any additional/special end items required during assembly shall be borne by the bidder
14.	The bidder should provide a list of at least three similar / equivalent works carried out in last three years in Government, Public, Private sector etc. value of which should be minimum 4 lakh.
15.	CWPRS officials if necessary will visit the firm premises for capacity verification.

D) MANNER OF SUBMISSION OF BIDS

Bidders may please note that they have to submit their bids in sealed envelope

Envelope should contain:

- i) Bidders' covering letter.
- ii) Documents relating to exemption from EMD, if any.
- iii) Cost of Bid document in the form of DD for Rs.500/- drawn in favor of Executive Engineer (Civil), CWPRS, payable in case of tender documents downloaded from website. Also Bid document can be Purchased by cash from CWPRS on any Working day.
- iv) PAN number may be mentioned (not applicable for foreign suppliers).
- v) EMD of **Rs. 8121/-** (Rupees Eight Thousand One hundred twenty one only) (2% of Tendered value) in the form of Demand Draft (DD) or Fixed Deposit Receipt (FDR) on any Schedule Bank drawn in favor of Executive Engineer (C), CWPRS, Khadakwasla, Pune 24 should be enclosed. The Bid will be summarily rejected, if the exact EMD is not submitted in this envelope.
- vii). Against each item/sub item the bidder should indicate his compliance in the last column of tables in annexure-I and all the pages 1 through 11 of this bid document describing technical specifications and terms and conditions of the work should be signed by the bidder and

returned in this envelope as a token of his acceptance to the contents therein, in the absence of which the bid would be rejected.

- viii). Cost clearly indicating in figures and words for the present ~~work~~ in the prescribed format, i.e. schedule of price, as Annexure III.

The above document must be submitted, duly signed, in the absence of which the bid would be rejected.

- ix). The bidder should specifically note that he / she is not expected to put any conditions in his / her bid and further that if any such condition is included in the bid, the bid may be rejected outright treating the same as conditional bid.
- x). All the documents should be put in one large envelope and the same should be submitted duly written at the top

%JOB WORK FOR SUPPLY, INSTALLATION AND COMMISSIONING OF WAVE DATA ACQUISITION SYSTEM FOR PHYSICAL WAVE MODEL OF KAMRAJAR PORT AT CWPRS

The bid should be submitted to:

Executive Engineer (Civil)
Central Water and Power Research Station
Khadakwasla
Pune - 411 024. INDIA

E) MODE OF OPENING & EVALUATION OF BIDS:

Bids received up to the due date will be opened as far as possible on the date and time specified by the Executive Engineer (Civil), Central Water and Power Research Station (CWPRS), Khadakwasla, Pune-411024 in the presence of the intending bidders or their representatives. The bids received after the due date and time of submission will not be considered at all. Such offers will neither be opened nor entered in the bid opening register. In the event of opening date being declared as closed holiday or any other reason, bids would be opened on next working day.

SIGNATURE OF BIDDER

EXECUTIVE ENGINEER (CIVIL)
CWPRS, PUNE

SCHEDULE OF PRICENAME OF WORK:

JOB WORK FOR SUPPLY, INSTALLATION AND COMMISSIONING OF WAVE DATA ACQUISITION SYSTEM FOR PHYSICAL WAVE MODEL OF KAMRAJAR PORT AT CWPRS

Sl. No.	Description	Quantity	Amount (Rs.)
1.	JOB WORK FOR SUPPLY, INSTALLATION AND COMMISSIONING OF WAVE DATA ACQUISITION SYSTEM FOR PHYSICAL WAVE MODEL OF KAMRAJAR PORT AT CWPRS As per Annexure-I	One Set.	
		Total (Rs.)	
		(Rs. In words)	

SIGNATURE OF BIDDER

EXECUTIVE ENGINEER (CIVIL)
CWPRS, PUNE