

दूरभाष :
TELEPHONE :
तार : बार्क-मुंबई, चेम्बुर.
TELEGRAMS: BARC-MUMBAI, CHEMBUR.
टेलिक्स : ०११-६१०१७/०११-६१०२२ बार्क ईन
TELEX: 011-61017/011-61022 BARC IN
फेक्स संख्या : ९१-२२-५५०५१५१
FAX NUMBER: 91-22- 5505151



सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA

भाभा परमाणु अनुसंधान केन्द्र
BHABHA ATOMIC RESEARCH CENTRE
Research Reactor Maintenance Division

ट्रॉम्बे,
मुंबई-४०० ०८५.
TROMBAY,
MUMBAI-400 085.

Ref: RRMD/ TR-1/TN- 12 /2022

11th August 2022

Tender Enquiry

Sub : **Repair and reconditioning of Head Section of Travelling Water Screen no.1 (TWS) of Dhruva.**

Sir,

Sealed quotation is invited, for and on behalf of the President of India, for the above job. The work site, nature and scope of work etc. are detailed under.

1.1 **Tender offer is to be submitted in two parts viz. Part-A (Techno- commercial Bid) and Part-B (Price Bid).**

In **Part-A** (Technical Bid) bidder must attach following documents ;

- a) Latest PAN No, GST Certificate / Number.
- b) List of available plant & machinery.
- c) List of technical manpower along with organizational structure.
- d) Proof of having satisfactorily completed similar works.

In **Part-B** (Price Bid) the quotation shall be in the format of attached schedule-B and shall show the basic cost and GST separately, if applicable.

1.2 Tenders are required to be submitted in separate sealed envelopes, containing and indicating the following on outside:

First Envelope	Tender no.	Part-A (Technical Bid)
Second Envelope	Tender no.	Part-B (Price Bid)

The technical bid and the financial bid should be sealed by the bidder in separate covers duly super scribed and both these sealed covers are to be put in a bigger cover which should be sealed and duly super scribed with the name of the work, name and address of bidder, tender notice no. and due date.

1.3 Sealed and super scribed Tenders as mentioned above in 1.2 shall be sent to and will be received up to **15.00 hrs. of 1st September, 2022** in the office of **AO III, Reactor Group, Dhruva, BARC, Trombay, Mumbai-400085. The quotation shall be sent through registered post/speed post through Indian postal services only.** Quotation delivered by person or through courier will not be accepted and not considered for bidding process.

1.4 After opening of Part-A of the tender, bidders shall be evaluated, for their techno-commercial capability to carry out the work based on;
a) Technical capabilities in regard to tendered work
b) Organizational structure.
c) Available resources, skilled man power.

- d) Quality and safety consciousness.
- e) Adherence to time schedule for the completed works.

Those who do not satisfy the conditions shall not be considered. Part-B (Price Bid) of tender will be opened at a later date only for the successful bidders who are qualified through technical evaluation.

- 1.5 The acceptance of tender will rest with Director, Reactor Group, BARC on behalf of President of India who does not bind himself to accept the lowest tender and reserves to himself the authority to reject an or all of the tenders received, without assignment of any reason. All tenders in which any of the prescribed conditions at Item 6. are not fulfilled or are incomplete in any respect are liable to be rejected.

2. Introduction:

The job is related to Travelling Water Screen (TWS) no.1, installed at Dhruva Jetty, in BARC, Mumbai. The TWS is installed in a 32 feet deep concrete chamber. The chamber gets sea water through an opening having a 150 x 150 coarse screen. The specification of the TWS is as per attached annexure.

Recently, the TWS had a breakdown in which the Head shaft (drive sprocket shaft), chain, safety shear pin device etc. got damaged. No damage is observed on the baskets and links. The detailed scope of work envisaged is as below.

3. Scope of work

- 3.1 Fabrication, Supply and installation of Head Shaft, 2500mm long MOC: SS 316 as per original.
- 3.2 Fabrication, Supply and Installation of Head Sprockets complete with teeth and inserts, Approx dia 900mm MOC: as per specifications (see annexure)
- 3.3 Disassembly and total dismantling of TWS head section, Repairs/reconditioning of damages to head section and frame including replacement of damaged parts like,
Gear box output sprocket cum safety device with shear pin (additional 10 pairs of shear pin also required), take up screws,
Idler sprocket and its support,
Head shaft Bearings, Idler sprocket Bearings, Gear box Bearings, shaft keys and keyways.
- 3.4 Assembling back the head section with new components, installation of removed baskets and links complete, servicing and recommissioning of TWS.
- 3.5 Provide proper graduation of take up screw mechanism.

4. Technical Specification:

- 4.1 The specifications and MOC of various components are as per attached Annexure.
- 4.2 Special care shall be taken while machining keyways of head shaft so that both sprocket teeth are in alignment after installation.
- 4.3 Sprocket arm cross section shall be of same orientation and thickness as existing one.
- 4.4 The fabricated and supplied items/components shall be as per the above MOC, exactly similar in size and tolerance as per existing components. It shall be the responsibility of the Contractor to take the dimensions of existing components and ensure their matching.
- 4.5 The material thickness at all levels of fabricated components shall be either same as or better than existing components, to ensure strength and life of those components.
- 4.6 Machined /mating surfaces shall be free of any scratches/blow holes etc and the surface shall be smooth.

5. Quality control tests

- 5.1 MTC shall be submitted for all new components.
- 5.2 100% D.P. Test on finished product shall be done on sprockets and head shaft.
- 5.3 Running of assembled unit continuously for at least 72hrs for endurance test.
- 5.4 All the above tests shall be satisfactory.

6. Terms and conditions.

- 6.1. The contractor shall visit the site and familiarize himself with the equipment set up, site difficulties, quantum of work, requirement of special tools and gadgets if any etc. before submitting quotation. Those who quote without visiting the site shall be considered to have not understood the scope of work, and their quotation shall be liable to rejection.**
- 6.2. The contractor shall make arrangements for all the necessary Tools, tackles, equipments etc., required for the job.
- 6.3. All the Personnel brought for the work shall have valid Police Verification Certificates.
- 6.4. HSN codes of each item shall be specifically mentioned. The quotation shall be inclusive of all the charges including the transportation, mobilization and relevant taxes.
- 6.5. The vendor shall quote clearly with item wise break-up in enclosed Schedule B format. Any taxes, duties, levies etc. is to be quoted separately.
- 6.6. GST registration number and PAN number shall be indicated in the quotation. Quotations without mentioning these numbers shall be rejected
- 6.7. The prices quoted by the vendor shall be valid for at least three months from the date of opening of the tender.
- 6.8. Transportation and safe delivery of all the components to BARC shall be done by the vendor at his own expense.
- 6.9. As per notification issued by the Ministry of Finance, Department of Revenue of Government of India, the goods (other than services) specified herein are exempted from GST to certain extent to including Department of Atomic Energy. Interstate transaction for R&D will attract IGST @ 5% only as per notification No. 47/17-Integrated Tax (Rate) dated 14.11.2017. Transaction within the state will attract Central Goods and Service Tax (CGST) @ 2.5% and State Goods Service Tax (SGST) @2.5% as per notification no. 45/2017- dt. 14.11.2017. This limits the total GST component to 5%. A GST exemption certificate approved by Competent Authority will be issued to the firm before dispatch of the items. Hence this limit may be considered while submitting the quotation.
- 6.10. While the contract is intended to be valid for a period of six months, the department reserves the right to terminate this contract by giving a notice of one month and without any financial obligation on the part of department. In the event of cancellation of the contract for a reason or the other the payment for service carried out will be paid on pro-rata basis.
- 6.11. Proportionate amount shall be deducted from charges for non-compliance of work.

7. Scope of department:

- 7.1. Necessary power supply arrangement shall be provided as required.
- 7.2. Ladder/scaffolding material /chain pulley blocks shall be supplied as per availability. Erection of scaffolding will be under contractor's scope.

8. Safety:

- 8.1 All the persons working at site shall be physically and mentally fit. All applicable industrial & safety precautions shall be taken by the contractor in respect of their personnel working at site. It shall be compulsory for workers to wear helmets and shoes at site.**
- 8.2 Contractor personnel shall also abide by the radiation safety precautions as directed by the Health physicist of the site.
- 8.3 Above work calls for strict adherence to safe work practice. BARC shall not be responsible for any damage, injury, death etc of any contractor's personnel under any circumstances. No compensation claim shall be admitted in this regard.**

9. Payment Terms and conditions:

- 9.1. No advance or part payment is admissible. The full and final payment will be made within 45 days after completion of the job in all respects.
- 9.2. Income tax @ 2% & GST TDS @ 2% will be deducted from the amount. Quotation shall be inclusive of these taxes.

- 9.3. The attached 206AB declaration format along with supporting documents shall be submitted. Otherwise double TDS will be deducted as per IT clause 206AB.
- 9.4. For payment the following shall be provided
1. Original Bill in duplicate
 2. Taxes need to be shown separately in the bill.
 3. Advance stamped receipt.
 4. GST registration number, PAN number to be indicated in the stamped invoice.
 5. The attached GST undertaking shall be filled and submitted.
- 9.5. Payment will be made **only** through ECS/Core Banking System. Hence, please furnish the bank details such as Bank's name & address, A/c No. and IFSC code in the invoice
- 9.6. BARC is the final consumer of the goods/services procured and does not intend to make any outward supply. BARC will not avail the benefits of Input Tax Credit and hence, the goods can be supplied without quoting the GSTIN of BARC, Mumbai on the invoice. The invoices taxed under GST, as per rates applicable under the GST Schedule of Rates, shall be admitted for payment

10. Completion schedule:

- 10.1. The job shall be completed within **180 days** from the receipt of the work order.
- 10.2. Time is the essence of the contract. If you fail to comply with this condition you shall be liable to pay compensation.
- 10.3. Penalty clause : Any delay in the completion of the job which is attributable to the vendor, is liable for a penalty @ ½ % of the work-order value per week (max. 10%).
- 10.4. In case extension in the job completion period is required, the vendor has to write to BARC & it should be approved / justified by the concerned Division in BARC.

11. CONFIDENTIALITY CLAUSES.

(i) Confidentiality :

No party shall disclose any information to any third party concerning the matters under this contract generally. In particular, any information identified as “**Proprietary**” in nature by the disclosing party shall be kept strictly confidential by the receiving party and shall not be disclosed to any third party without the prior written consent of the original disclosing party.

This clause shall apply to the sub-contractors, consultants, advisers or the employees engaged by a party with equal force.

(ii) “Restricted information” categories under section 18 of the Atomic Energy Act, 1962 and “Official Secrets” under Section 5 of the Official Secrets Act, 1923 :-

Any contravention of the above mentioned provisions by any contractor, sub-contractor, consultant, adviser or the employees of a contractor will invite penal consequences under the aforesaid legislation.

(iii) Prohibition against use of BARC's name without permission for publicity purposes :-

The contractor or sub-contractor, consultant, adviser or the employees engaged by the contractor shall not use BARC's name for any publicity purpose through any public media like Press, Radio, T.V. or Internet without the prior written approval of BARC.

12. Security Instructions

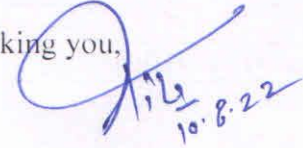
Please indicate whether any of your relatives are employed in BARC or you or any of your employees were employed in BARC or any other units of DAE.

13. General:

- 13.1 Outside persons have to contact concerned departmental staff to prepare entry permit to visit BARC. They will have to bring along ID proof and undergo biometrics entry (one time only) at the entry security.
- 13.2 The Contractor shall visit the site to understand the scope of work. **Those who quote without visiting the site shall be considered to have not understood the scope of work, and their quotation shall not be considered.**
- 13.3 Quotation received after the due date and time shall be summarily rejected
- 13.4 The acceptance of the tenders/quotations will rest with Director, RG who does not bind himself to accept the lowest offer, and reserves to him the authority to reject any or all the tenders received without assigning any reason.
- 13.5 You may contact Shri U.D. Patil/S.Vishwakarma at Telephone No. 559 9076/6258 or write to ramavar@barc.gov.in, for further clarifications.

Encl: Schedule B, Annexures, GST undertaking

Thanking you,



Manoj Tilara

Maint. Supdt (Mech).

For & On behalf of President of India.

मनोज तिलारा / Manoj Tilara

अनुरक्षण अधीक्षक (यांत्रिक) / Maintenance Supdt. (Mechanical)

अनुसंधान निदेशक अनुरक्षण प्रभाग / RPMD

भाभा परमाणु अनुसंधान केंद्र / Bhabha Atomic Research Centre

भारत सरकार / Government of India

ट्रॉम्बे, मुंबई / Trombay, Mumbai - 400 085.

Annexure

Sr.No.	Technical Specifications of TWS	
I	TWS Specifications :	
a)	Type:	Single flow Two post type, of inserted screen guide
b)	Capacity: (At cleanliness factor 100%)	8475 M ³ /hr. at min. water depth
c)	Basket clear Opening	1770 mm
d)	Chain pitch	610 mm (2 feet)
e)	Pit Depth	11354 mm
f)	Screen Speed :	3 Mtrs./Min
g)	No. of baskets	44
h)	Design Differential	1500 mm
i)	Max. Sea water velocity : At low water level	0.7 M/Sec.
II.	Material Specifications:	
1.	Head and Foot shaft	SS 316
2.	Torque tube for head shaft	SS 316
3.	Capston nut	Pb IS28
4.	Bearing housing for Head Shaft	C.I. with 3 to 5% Ni Gr. FG 260 IS 210
5.	Head and Foot shaft sprockets	C.I. with 3 to 5% Ni Gr. FG 260 IS 210 / SS316
6.	Tooth insert	SS 410 Hardened Six teeths / wheel
7.	Pin, bushing	SS 316
8.	Rollers of chain	SS 316
9.	Head Shaft bearing bushes	Phosphor bronze
10.	Foot shaft bearing bushes	Teflon
11.	Main structural frame	M.S.
12.	Driver chain 2.5" pitch	Carbon steel
13.	Drive sprocket / Take up screw	EN8 / EN9
14.	Shear pins	BS 970 EN8, (hardened)
15.	Screen mesh	SS 316, 14 SWG size; 10mm x 10 mm
16.	Screen basket frame	SS 316 L Overtap type, angular frame
17.	Basket bolts	SS 316
18.	Side bar of chain	SS 316
19.	Guide ways	NI – Cast iron 2 to 2.5 % Ni.
20.	Boot Plate:	SS 316/ 10 mm thick
IV	OTHER ASPECTS :	
	Drive system	Motor, fluid coupling, worm gear box
1)	Drive motor	2.2 KW 3 HP, 4 pole, 1400 rpm
	Worm gear box ratio	400:1
Head room available from pump room to highest hook position is 4 Mtrs. Hence, the longest, component should not exceed 3.5 Mtrs.		

Format of quotation, Schedule-B

Name of work: **Repair and reconditioning of Head Section of Travelling Water Screen no.1 (TWS) of Dhruva.**

Sl. No.	Description of items	Unit	Quantity (a)	Rate (b)	Total cost c = a x b
1.	Fabrication, Supply and installation of Head Shaft, 2500mm long MOC: SS 316 (ASTM A 479 GR. F 316) as per original	Nos.	1		
2.	Fabrication, Supply and Installation of Head Sprocket complete with teeth and inserts, Approx dia 900mm MOC: as per specifications and site	Nos.	2		
3.	Disassembly and total dismantling of TWS head section, Repairs/reconditioning of damages to head section and frame including replacement of damaged parts as mentioned in 3.3, Assembling back the head section with new components, installation of removed baskets and links complete, servicing and recommissioning of TWS as detailed in the tender.	Lumpsum	1		
		Total			
		GST			
		Final Total			

Total in words:

Signature and stamp of Contractor:

Annexure-III

UNDERTAKING

(Goods & Service Tax)

The following certificates should be submitted by the suppliers / contractors to the paying authority on the bill itself when Goods & service Tax (GST) is claimed as extra by the contractors / suppliers.

1. **Certified that** the Goods and packing on which Goods & Service Tax (GST) has been charged, have not been exempted under the Goods & Service (GST) or the rules made there under.
2. **Certified further that** we have actually paid Goods & Service Tax (GST) and are being assessed to Goods & Service Tax (GST) and also that where there are statutory exemptions under the GST act concerned we have availed of the same and certify non availability of such provision for Goods & Service Tax (GST).
3. **Certify that** in respect of the amount claimed in the bill, no claim is pending for refund / or is admissible. Certify that in the event of our getting refund in whole or in part of the element of Goods & Service Tax (GST), we shall pass on the benefit of the amount of refund obtained by us.
4. **Certified further that** we (our branch of agent)

(Address) _____

are registered as dealer in the State of _____ under the Central
Registration No. _____ for the purpose of
Goods & Service Tax (GST).

(Signature with rubber Stamp)

206AB Declaration

To whomsoever it may concern

Undertaking pursuant to Section 206AB of the Income Tax Act, 1961
Declaration confirming filing of Income Tax Return for immediate two preceding years(Section 206AB of Income Tax Act)

I, [], in the capacity of Individual/ Proprietor/ Partner/ Director/Authorized signatory of [Entity Name] PAN No , do hereby make the following declaration as required under the relevant provisions of the Income Act, 1961 (hereinafter referred as 'the Act'):

1. That I/We am/are authorized to make this declaration in the capacity as Individual/ Proprietor/Partner/Director.
2. I/We hereby declare and confirm that I/We do not fall under the definition of 'specified person' as provided in section 206AB of the IT Act.
3. I / We have duly filed return of income for FY 18-19 & FY 19-20 within due date as per Section 139(1) of the Income-tax Act, 1961 -Yes/No
4. If return has been filed the details are as follows:

I/We, [], having PAN No , do hereby confirm that the provision of section 206 AB is not applicable in my/our case as I/We am/are regular in filing of Income Tax Return. The details alongwith proof of documents of acknowledgement numbers and date of filing of income tax returns for last two financial years are furnished below:

Sr	Financial year (Assessment year)	Date of Filing IT return	ITR Acknowledgement No.

5. I/We hereby take responsibility for any loss/liability fully including any Tax, interest, penalty, etc. that may arise due to incorrect reporting of above information

All the aforesaid representations are true and correct, and we/I agree to furnish any evidence required by [] at any time in support thereof.

On behalf of _____

Name of the authorised signatory& Designation:

Name of entity

Seal
Date