



RRMD, BARC
Mumbai-400085
Fax: 022-25594311/6241

Government of India
Bhabha Atomic Research Centre
Research Reactor Maintenance Division

TENDER NOTICE

Tender Notice No: RRMD/TR-1/ 05/ 2022

Date: 31/ 03 /2022

To,
(Company name)

Sub:Tender enquiry for Supply & commissioning of outdoor Automatic/Manual controlled Cathodic Protection Rectifier panel

Sealed tenders, in two parts in the prescribed format, are hereby invited for and on behalf of the President of India by the Head, RRMD BARC, Trombay, and Mumbai-400085 for supply and commissioning of outdoor Automatic/Manual controlled Cathodic Protection Rectifier panel as per specifications from experienced vendors having adequate experience and capabilities to execute similar works.

i.	Name of Work	Supply & commissioning of outdoor Automatic/Manual controlled Cathodic Protection Rectifier panel
ii.	Period of Completion	6 (Six) months
iii.	Quotation Submission	Submission of quotation shall be done only through registered post/speed post, through Indian postal services addressed to "AO-III, RG Office, Dhruva, BARC, Trombay, Mumbai-400085", so as to reach this office latest by 15.00 hrs on 10.05.2022 , super scribing the 'QUOTATION' and our tender Ref. No., on the envelope. Hand delivery or courier will not be accepted.
iv.	Tender document is prepared in two parts viz. Part 'A' (Technical Bid) and Part 'B' (Price Bid). Part 'A' consists of Technical Bid (Technical Specifications), Schedule 'A' (List of Materials to be Supplied by the Department) and Schedule 'B' Bill of Quantity.	
v.	Tender Part 'A' Opening date	11.05.2022
vi.	Tender Part 'B' Opening date	Will be decided after technical evaluation.

Quotations are required to be submitted in separate sealed and super-scribed envelopes containing and indicating the following.

I	First Envelope	Part 'A'
II	Second Envelope	Part 'B' (Price Bid)

All the sealed envelopes shall then be placed in another envelope, sealed & super-scribed with the name of the work, last date of tender submission and submitted through registered post/speed post to the address mentioned above.

The quotation shall be in the format of schedule 'B' of tender, and shall include the Ref. No. of this Tender enquiry, PAN no. and GSTN of the firm. The scope of work and the terms and conditions are given below.

1.0 Scope of the work:

The work involves Supply & commissioning of outdoor Automatic/Manual controlled Cathodic Protection Rectifier panel with the following:

- 1.1 Supply of Cathodic Protection Rectifier panels, control cards, analog meters, fuse links, diode modules, SCR modules and required accessories.
- 1.2 Commissioning of 2 nos. of Automatic/Manual controlled Cathodic Protection Rectifier panels at Jetty.
- 1.3 Integration and commissioning of Cathodic Protection Rectifier panels.

2.0 Terms and conditions:

- 2.1 The offer should be valid for consideration for at least 45 days from due date of the offer.
- 2.2 The work shall be completed within **six months** after issue of the work order.
- 2.3 Payment would be released after satisfactory completion of the entire job only. Vendor should submit bills in triplicate along with an advance stamped receipt. Release of advance or interim payment cannot be considered.
- 2.4 **Taxes:** Income tax @ 2% and other taxes as applicable will be deducted from your bill amount. It shall be ascertained that the Invoice raised by a registered supplier of taxable goods/services along with other details specifically indicates location of supply, tax component to be separately indicated in the invoice.
- 2.5 The vendor should also clearly reply in his tender to "whether the contractor / vendor has any relative working in BARC or the contractor himself is an ex-employee of BARC or the contractor has any ex- employee of DAE on his payroll".
- 2.6 The employees deputed at site by the contractor should have a valid Police Verification Certificate.
- 2.7 Contractor should mention their valid **PAN** No. and GSTIN in the quotation, failing which the offer shall be rejected.
- 2.8 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.
- 2.9 The vendor or sub-vendor, 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, TV or Internet without the prior written approval of BARC.

3.0 Safety and Security:

- 3.1 All the persons should be physically and mentally fit. The responsibility of all safety precautions related with a particular job at site primarily lies with the Contractor. The contractor & his persons shall strictly observe all security and safety regulations prevailing at the site. All the workers, supervisors & engineers of the contractor shall have proper medical certificates issued by the competent authorities.

- 3.2 The contractor or executing agency shall adopt adequate safety measures as per the Job Hazard Analysis (JHA) control measures suggested. The personal protective equipment to contract workers, supervisors & engineers shall be supplied by the contractor at his own cost.
- 3.3 All workers, supervisors & engineers of the contractor shall wear necessary protective clothing, helmets & canvas/safety shoes properly laced & follow the safety requirements strictly, while working at site.
- 3.4 Contractor personnel shall also abide by the Radiation Safety precautions as directed by the Health Physicist of the site.
- 3.5 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. All workers should be insured at the cost of the contractor.
- 3.6 All covid-19 precautions are to be strictly followed.
- 3.7 Security instructions should be strictly adhered to.
- 3.8 The employees deputed at site by the contractor should have a valid Police Verification Certificate.

4.0 Instructions to Tenders:

- 4.1 Price quoted shall be filled up in the same format given in the Schedule-B with GST if any.
- 4.2 You are requested to contact Shri Sanjay Kumar, TO(C) on Tel no. 25596241/4323 from 9 AM to 4 PM to arrange entry permit if anyone wants to visit the BARC to assess the job clearly and specifically before making the offer.
- 4.3 The acceptance of the tenders will rest with Head, RRMD 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.
- 4.4 Quotation received after the due date and time shall be summarily rejected.

Thanking you,

Yours faithfully,

Sd/-
Head, RRMD, BARC
(For and on behalf of the President of India)

Enclosures: Schedule –A & B

Schedule –A

Tender Notice No: RRMD/TR-1 /05/2022

dated 31/ 03 /2022

Name of Work: Supply & commissioning of outdoor Automatic/Manual controlled Cathodic Protection Rectifier panel at Jetty.

Sl. No.	Description	Qty	Unit	Rate
1.	Water	As required	Litre	Free
2.	Electricity	As required	KWH	Free

Schedule – B

Tender Notice No: RRMD /TR- 1 /05/2022

dated 31/ 03/2022

Name of Work: Supply & commissioning of outdoor Automatic/Manual controlled Cathodic Protection Rectifier panel

Sl. No	Name of items	Qty (Q)	Supply Rate (S)	Commissioning Rate (I)	Item wise Supply Cost (S x Q)	Item wise Commissioning Cost (I x Q)
1.	Supply & commissioning of outdoor Automatic/Manual controlled Cathodic Protection Rectifier panel as per specifications	2nos.				
2.	Set of control card consisting of 1 no. each type	2 set.				
3.	Set of meters consisting of one no. of each type	2 set.				
4.	Set of fuse link consisting of 1 no. of each type	4 set.				
5.	Set of indicator lamps consisting of 1 no. of each type	2 set.				
6.	Diode Module	2 nos.				
7.	SCR Module	1 nos.				
8.	Lighting arrestor	4 nos.				
9.	Set of RC & MOV Surge suppressors consisting of 1 no. of each type	1 set.				
10.	Filter capacitors	2 nos.				
11.	Set of Rotary switch consisting of 1 switch of each type	2 set.				
12.	Set of Toggle switch consisting of 1 switch of each type.	2 set.				
13.	Total basic cost of supply					
14.	Total basic cost of Commissioning					
15.	GST on basic cost of Supply @18%					

16.	GST on basic cost of commissioning @ 18%	
17.	Total Cost (including all taxes & levies)	

Signature of the contractor with seal

Note: The prices shall be quoted clearly without any overwriting. Overwriting/ correction are not acceptable.

Annexure-I

Technical Specifications for Auto/Manual Controlled Cathodic Protection Rectifier unit

For Items at Sr. No. 1 in Schedule-B: Auto/Manual Controlled C. P. Rectifier units

Parameter	Specifications / accessories
Input	240V + 10%, 1Ph, 50 Hz., AC
Output	0 to 8V, 0 to 50A DC
Mode of Operation	a) Automatic Reference Mode b) Constant Voltage/Constant Current (AVCC/CVCC) control Mode c) Manual Control Mode
Controls	Reference Voltage Set: Potentiometer is used to set the desired internal reference voltage from +0.5V to -2.0V. (With respect to Zn Electrode.) O/P Voltage Set: 0 to 8 Volt by Potentiometer to set the desired output voltage. Over current Set: 0 to 55Amp. by Potentiometer to set the desired value. Auto/ Manual Selector: Rotary switch for select Auto or Manual Coarse Control: Rotary switch for coarse control of DC output voltage. Fine Control: Rotary switch for fine control of DC output voltage. Auto Ref. /AVCC/CVCC Mode Selector: toggle switch for selection of modes. Ref. Electrode Selector: 4-position rotary switch to select one of the four reference electrodes. Anode Current Selector: rotary switch to select desired anode for monitoring the anode current Ref. Voltmeter Selector: Toggle switch for selection of Internal Reference Voltage or External Reference voltage to read in voltmeter. Mains ON/OFF : Mains ON/OFF MCB DC O/P ON/OFF: DC O/P ON/OFF MCB
Protection	1. HRC fuses in input supply lines. 2. HRC fuses in Main Transformer Input. 3. HRC fuses in each outgoing anode lead and the DC -ve lead. 4. Lightning arrestor on AC and DC sides 5. MCB on AC and DC sides. 6. Surge suppressors at Input & output and across each Diode/SCR 7. Fast acting Electronic Overcurrent/Overload protection
Remote Monitoring	1. Under protection } 2. Over protection } Two Change over contacts of 3. Reference Fail } a common relay are available 4. Over current } for remote alarm indication.
Standard Indications	1. AC Supply ON 2. Unit working in Auto Mode 3. Unit working in AVCC Mode 4. Under protection 5. Overprotection 6. Over current 7. Reference Fail
Standard Metering	1. AC Input Voltage

	2. AC Input Current 3. DC Output Voltage 4. DC output Current 5. Individual Anode Current 6. Reference Voltage
No. of Reference Inputs	Four Nos. Zinc Facility provide to select manually any one Reference Input for monitoring & Control.
Construction	Outdoor Installation type, confirming to IP55 degree of Protection. Natural Air Cooled (AN). Lockable doors in the front & back. Lexan viewing window for viewing of Meters & Indications without opening doors of the Panel.
Painting/ Finishing	High durability of Powder coating of shade RAL 7032 (Siemens Grey) with proper pre-treatment as per standard Industrial Practice.

Inspection & Testing:

Inspection & testing of all items will be carried out by BARC at vendor's works for ascertaining conformity to functional & performance specifications.

Guarantee:

The material should be guaranteed against any defective design & poor workmanship for a period of 12 months from the date of receipt of material at purchaser's end.