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Government of India
Bhabha Atomic Research Centre
Isotope & Radiation Applications Division

Ref: IRAD/14/155

9th April, 2019

Sub: Invitation of Quotation for Proposal for Preparation of General Assembly Drawing, procurement of raw materials & Standard Components, fabrication, testing of Resin Fixation Unit (RFU; Qty-01) for AHCAF, IRAD, CFB, BARC. (As per Annexure-I)

Dear Sir,

In connection with the above mentioned work you are requested to submit your quotation on the basis of the following requirements. The detail Technical Specification is attached.

1. The Party shall procure all the raw materials required for the work.
2. All material & components shall be of tested quality.
3. Quotation must reach by speed / registered post through Indian Postal Service to Head, Isotope & Radiation Applications Division on or before 25th April 2019 by 16.00 hrs and should be sent in a sealed envelope superscripted with the above reference number and due date. The tender will be open on 26th April 2019.
4. The party should furnish their PAN No. and GST No. along with the quotation, otherwise their quotations are liable to be rejected and it may also please be emphasized that quotation are submitted on printed letter heads.
5. The address on the envelope should read:
Head,
Isotope & Radiation Applications Division,
Bhabha Atomic Research Centre, Trombay
Mumbai – 400085
Attn: Shri Sanjay Kumar/ Shri A. K. Pradhan
(Contact: 25597103/25596877)
6. The party must offer warranty on the components & work for satisfactory performance for a period of not less than 12 months.
7. The fabrication work and testing work is subject to inspection by our officers. The work will be inspected by our officers at your site. Necessary inspection facilities should be provided to our officers for inspection at your site.
8. Contractor should have previous job experience in erection of rails.
9. No advance payment in full or in part will be admissible and payments will be made only after completion of work.
10. The offer shall clearly indicate the time required for completing the entire work, taxes or levy, if any.
11. Head, Isotope Radiation & Applications Division, BARC reserves the right to accept / reject any or all quotations without assigning any reason.

(Sanjay Kumar)
SA/E, HCOS, IRAD

Enclosures: Technical Specification

BARC Website,
SIRD, CC

Job Specification

Ref: IRAD/14/155

April 01, 2019

The following job needs to be carried out urgently on minor work basis:

1. Brief Description of the job:

Proposal for Preparation of General Assembly Drawing, procurement of raw materials & Standard Components, fabrication, testing of Resin Fixation Unit (RFU; Qty-01) for AHCAF, IRAD, CFB, BARC. (As per Annexure-I)

2. Scope of Work:

2.1 Preparation of General Assembly Drawing

The supplier has to prepare general assembly drawing of Resin Fixation Unit & submit for purchaser's approval.

2.2 Procurement of raw materials & Standard Components

The supplier has to procure all the raw materials & Standard Bought out Components (BOC) as per drawing / bill of material with purchaser's approval as per relevant standards.

2.2.1. Material testing

All raw materials shall be subjected to IGC test in accordance with ASTM A-262, practice A or practice E. All pipes shall be seamless cold drawn, stress relieved, annealed, pickled & passivated. All pipes shall be inspected & tested & shall meet the specification ASTM A 312 TP-304L. The pipe inner & outer surfaces shall be free from scale, dirt, grease or any other foreign materials. The pipes shall be straight & shall have good surface finish.

2.3 Fabrication & stage inspection

The supplier has to fabricate Resin Fixation Unit as per approved fabrication drawing. The stage inspections will be carried out by purchaser at different stages at supplier's workshop.

2.3.1 Welding specification

All welding shall comply with requirements of ASME boiler & pressure vessels section III subsection NF component supports & section IX. Electrode designations & qualifications shall be as per AWS standards. After weld edge preparation, the surfaces shall be subjected to Liquid Penetrant Examination in accordance with ASME section III NB-2546 & acceptance shall be as per NB-2546.3

2.3.2 Surface Finish

All the external surfaces of the flask & the source cavity of the flask should be buffed to mirror finish. All surfaces of all the components unless otherwise indicated, shall be finished by machining, grinding, polishing or anodizing. All machined surfaces shall be smooth (surface finish 3.2 µm or better) & free from any defects & irregularities

2.4 Pre-dispatch Inspection & Delivery

The purchaser will carry out pre-dispatch inspection of Resin Fixation Unit at supplier's site. After purchaser's approval the finished Resin Fixation Unit will be safely delivered to AHCAF Facility, IRAD, CFB, BARC, and Mumbai.

2.5 Documentation

The supplier will prepare & submit all the stage inspection reports & documents, Raw material test certificate, document & test report of Standard Bought out Components (BOC) after completion of work as per purchaser's requirements.

[Sanjay Kumar]
SA/ E, HCOS, IRAD

[A. K. Pradhan]
Head, HCOS, IRA

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Supply of Resin Fixation Unit.

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April 1, 2019

Sr.No.	Job Description	Qty.	Remarks
1.	MS Drum Mild stainless Steel drum dia. 550mm X 1mm thick X 450mm height. With proper locking with handle lid Dai. 560mm, with Dia. 12 X 8 holes as per attached drawing	10	
2.	SS 304 Drum Handling Supporter .(as per attached drawing) MOC: Stainless Steel 304.	01	
3.	Resin stirrer (Branded) Stirring mechanism ϕ 140mm and stirrer shaft length 570mm, medium duty, variable speed selection, no load speed 1000 rpm. Torque 12Nm. Lid: MOC MS 540mm OD x 10 mm thick, Handle-02 nos. 100mmx 50mm x 8mm thick.	01	
4.	Grappler: MOC: SS-304	02	

Chemical & Mechanical test reports of Raw Materials are required.

[Sanjay Kumar]
SA/ E, HCOS, IRAD

[A. K. Pradhan]
Head, HCOS, IRAD