



सत्यमेव जयते

GOVERNMENT OF INDIA
BHABHA ATOMIC RESEARCH CENTRE
MATERIALS GROUP
POWDER METALLURGY DIVISION

Vashi Complex
Navi-Mumbai - 400 703

Tel : 91 - 22 - 2788 7144
Fax : 91 - 22 - 2784 0032

Ref.: PMD/Tender Inv/2022/ 32861/PMD/2022

March 01, 2022

Sub.: Repair and Servicing of Wet-Bag Cold Isostatic Press (CIP) at Powder Metallurgy Division, BARC Vashi

Dear Sir,

For & on behalf of the President of India, quotation in sealed cover is invited for the above mentioned work at Powder Metallurgy Division, BARC Vashi Complex, Navi Mumbai-400703.

The "Technical Bid" and "Commercial Bid" should be sent together in two separate sealed cover superscribed as "**Repair and Servicing of Wet-Bag Cold Isostatic Press (CIP) at Powder Metallurgy Division, BARC Vashi**" and addressed to **Dr. P.K. Patro, SO/F, Powder Metallurgy Division, BARC Vashi Complex, Navi Mumbai – 400703** should reach him on or before 15.00 hrs. on 17/03/2021 by Speed Post/Registered post.

The scope of work is enclosed herewith. The tenderer should write in words as well as in figures, the rate quoted by him. All corrections must be attested by the dated initials of the tenderer.

The time for completion of work/job is 2 months. The same shall be reckoned from the date of issue of work order. The acceptance of the tender rests upon the undersigned with a right to reject the tender in full or part without assigning any reason.

Thanking you,

Yours faithfully,

P.K. Patro
01/03/2022
Dr. P.K. Patro
SO/F, PMD

Head, SIRD, BARC for kind display in BARC website

Annexure-1

Details of the work: **Repair and Servicing of Wet-Bag Cold Isostatic Press (CIP)**

Scope of Work:

The equipment **Wet-Bag Cold Isostatic Press (CIP)** consists of the following subsystems.

- **High-pressure vessel**
- **Vessel top closure system**
- **Pressurisation system**
- **Decompression system**
- **Control and console system**

The following Repair and Servicing works are required for the above system

A. Servicing and checking of operations of Hydraulic system and high pressure components of CIP

1. Hydraulic Pump
2. Hydraulic Power pack
3. Filtration Unit
4. High pressure liquid intensifier
5. Check valve assembly
6. Decompression valves (1st stage and 2nd stage)
7. Bleed and metering valve
8. Emergency release valve
9. Dump Valve
10. High Pressure tubing connection of all the valves

B. Checking of Electrical and control instrumentations

1. Micro-switches and Push button switches
2. Contactors
3. Pressure controller settings
4. Hours run meter
5. Vessel cycle meter
6. All indicators
7. Start and stop button switches
8. PLC system

Any faulty items under A & B are to be replaced by the party. All other consumables like seals, flexible tubes and fittings are to be replaced by the party

C. Calibration of instrumentations

1. Pressure gauge 0 - 40,000 PSI
2. Pressure controller system

After the servicing the system should be demonstrated for operation of **3 cycles of operation to at-least 30,000 PSI.**

Minimum of 1 year of warranty has to be provided after the successful completion of the service and maintenance of the work.

Time for completion of work/job is **2 months** from the day of issue of work-order.

In the "**Technical Bid**" the party must submit documentary evidence of servicing iso pressing systems (hot or cold) and should have sound experience in carrying out similar works.

Terms and Conditions

1. There will be no Free Issue Material (FIM) from the department for the above work. The work shall be completed within two months in case of placing Work order. The payment shall be made only on satisfactory completion of the work and on production of bill, advance stamped receipt and guarantee/warranty certificate for material quality and workmanship for a period of one year from the date of completion of the job.
2. Safety: All the personnel of the party deployed for the work should follow the safety guidelines while working. Any mishap/injury occurring to the deployed personnel due to unsafe work practice shall be contractor's liability.
3. The party shall be sole responsible for any labour related dispute and any injury to contractor's worker during execution of the job.
4. Security: Police verification certificates (PVC) are required for supervisor and all workers employed by the contractor inside BARC. Security instructions on entry of workers, working time etc. are to be followed strictly.
5. Payment: No advance payment will be made. Documentary evidence towards payment of GST (receipt/acknowledgement) may be furnished by the party. Income Tax @2% or as applicable at the time of billing will be deducted from your bill. Any other conditions of payment prevailing at the time of settlement will also be applicable.

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