

**Government of India  
Bhabha Atomic Research Centre  
Post Irradiation Examination Division  
Radiological Laboratories, Trombay, Mumbai 400 085**

Tel: 25594561

Ref: PIED/NHF/AB/2022/121A

03.03.2022

**Sub: In-situ modification of MSM installation trolleys and associated components at NHF site, RLG**

Dear Sir,

Please send us your lowest quotation for the following site works at NHF, RLG as per the site condition and the scope of work given below:

**Scope of work:**

- 1. Modification of MSM installation trolley Qty. Two Nos..**
  - a) Dismantling of existing mechanism of manipulator thru tube clamping and pushing arrangement.
  - b) Dismantling of rails and finishing of top plate of scissor lift.
  - c) Cutting of LM rails to the size given by site engineer.
  - d) Fabrication of LM rail mounting plates.
  - e) Fitting and welding of mounting plate on the top plate of scissor lift.
  - f) Assembly of LM guide system.
  - g) Fitting of thru tube clamping channel over the LM blocks.
  - h) Increasing the clamping height of thru tube by modifying the clamps as per instruction.
  - i) Fabrication of swing type jacks as per the instruction.
  - j) Fitting and welding of front jacks of the trolley.
  - k) Fitting of ISA 75 angle track below the top rollers of the scissor lift.
  - l) Welding of angle track with top plate.
  - m) Dismantling, cleaning and re-assembly of hydraulic valves of scissor lift.
  - n) Testing of the modified MSM installation trolley.
  - o) Mock-up trial of installation and removal of RDMSM with the help of modified trolley.
  - p) Mock-up trial shall be done minimum ten times.
  
- 2. Fabrication of manipulator shifting trolley Qty. 10 nos.**
  - a) Three manual shifting trolley of size 1500mm long X 650mm wide X1500mm height shall be made .
  - b) Fabrication of trolley frame structure by using 30mm square hollow SS 304 stainless steel pipes pipes.
  - c) Cutting of square pipe to the size by power hack saw and finishing of cut portion.
  - d) Fitting of frame structure.
  - e) Welding and grinding of frame structure.
  - f) Fitting of castor wheels.

- g) Fabrication of pipe clamps with 250NB SS pipe.
  - h) Fitting and welding of clamps on the top of the trolley.
  - i) Finishing and buffing.
  - j) Cutting to the size, fitting and welding.
  - k) Welding shall be done with GTAW.
  - l) Testing of trolleys
- 3. Fabrication of Step ladder for MSM maintenance Qty. Six nos.**
- a) Six step ladders of two different sizes shall be made.
  - b) Fabrication of ladder frame structure by using 30mm square hollow SS 304 stainless steel pipes.
  - c) Cutting of square pipe to the size by power hack saw and finishing of cut portion.
  - d) Fitting of frame structure.
  - e) Welding and grinding of frame structure.
  - f) Fitting and welding of steps.
  - g) Fitting of castor wheels.
  - h) Finishing and buffing.
  - i) Cutting to the size, fitting and welding.
  - j) Welding shall be done with GTAW.
- 4. Fabrication and installation of counter weights for MSM. Qty. 120Nos**
- a) Fabrication of four lead casting dies of 200mm X 300mm X 25mm.
  - b) Fabrication of exhaust system for lead melting as per the instruction given by site engineer.
  - c) Casting of counter weights.
  - d) Finishing of counter weights.
  - e) Installation of counter weights on the MSM as per instruction given by the site engineer.


**Important Note:**

1. The fabricator has to arrange all materials, welding machine, welding consumables, grinders, sanders, hand trolley and other tools for site work by him. Department will not provide any machines or tools for the site work.
2. All your electrical appliances shall have a performance certificate without which they cannot be connected to the electrical supply points provided by the department. Hence, you are requested to obtain the certificate for the appliances before bringing them into BARC.
3. Since the scope of work involves **site work**, you shall obtain **clearance from police and CID** for all staff who may be deputed for site work at PIED, RLG, BARC. This is mandatory and the responsibility of obtaining such a clearance is within your scope of work.

**Please note the following :**

1. The work is to be completed within **12 months** of receiving the firm work order from us.
2. The sealed quotations shall reach the office of the Head PIED, New Hot Cells Facility, RLG, BARC, Mumbai – 85 on or before **14.03.2022 by Registered Post of Indian postal services.**
3. Please address your offer to: **Anil Bhandekar, SO/G, Post Irradiation Examination Division, RLG, BARC, Trombay, Mumbai-400 085.**
4. The quotations are to be sent in a sealed envelope with the following information marked on top of the envelope: “Quotation for MSM installation trolley”
5. Offers sent by telegram, telex, fax or e-mail will **not** be considered.
6. All taxes should be mentioned clearly.
7. Quotation should be in the printed letter head /quotation format which should consist of Sales Tax Registration Number, PAN Number of the firm, Service Registration Number, etc.
- 8. Quotation shall be signed by proprietor or authorized person and affix company seal.**
9. Computer generated quotation form will not be accepted.
10. Income Tax @2% will be deducted at source from your bill
11. Offer should be on free delivery basis to RLG Zonal Stores, BARC, Trombay.
12. Delivery period should be mentioned with all the possible consideration.
13. Payment will be made within 30 days from the date completion.

Yours sincerely,



**ANIL BHANDEKAR**  
Scientific Officer  
Government of India  
P.I.E. Division, B.A.R.C.  
Trombay, Mumbai - 400 085.

Anil Bhandekar  
SO/G, PIED