

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

Tel: 25594561

Ref: PIED/AB/2022/378A

08.06.2022

To,

**Sub: Upgradation of existing tram-track trolleys at PIED hot cell facility**

Dear Sir,

Please send us your lowest quotation for the above site work for upgradation of existing tram-track trolley at PIED hot cell facility as per the technical specification and terms and condition given below:

**Scope of work:**

**1. Upgradation of existing tram-track trolleys at PIED hot cell facility**

We have **8 nos. tram-track trolleys to be upgraded**. These trolleys move on the rail track. Load Capacity of existing trolleys is 10MT. These trolleys are used for shifting of the shielded cask. Specifications of existing trolleys are as per following

1.1.	Length	1500mm
1.2.	Width	1200mm
1.3.	Height of top platform	600mm
1.4.	Wheel	Four nos. of solid metal wheel of dia 350mm x 50mm thk.
1.5.	Wheel base	1150mm
1.6.	Wheel Gauge	925mm
1.7.	Tram-track Rail size	BS60R
1.8.	Load capacity	10MT
1.9.	Top Platform	Top platform made with ISMB 200 beam and 25mm thick MS Plate <b>Top platform can take load upto 40MT</b>
1.10.	Drive	3 Ph. AC Geared motor Output RPM- 5RPM Connected with rear wheel shaft using a bevel gear box
1.11.	Bearings	Four nos. SKF Pillow block at four corners of trolley platform
1.12.	Speed of trolley	5 m/min
1.13.	Each trolley has rear two wheels drive wheels and front two wheels driven wheel	
1.14.	Each trolley has a control panel with inverter drive	

These trolleys have to be upgraded to achieve following specifications

2.1	Length	1500mm
2.2	Width	1200mm

2.3	Height of top platform	675mm
2.4	Wheel	Four nos. of solid metal wheel of dia 400mm x 50mm thk.
2.5	Wheel base	1150mm
2.6	Wheel Gauge	925mm
2.7	Tram-track Rail size	BS60R
2.8	Load capacity	20MT
2.9	Top Platform	Existing top platform shall be used
2.10	Drive	3 Ph. AC Geared motor Output RPM- 10RPM Connected with rear wheel shaft using a bevel gear box
2.11	Speed of trolley	12.5 m/min

Existing trolleys are heavily contaminated. Trolleys can't be shifted to outside. Upgradation work shall be done in-situ at PIED.

## 2. Following upgradations have to be done.

- a) Existing wheels (32Nos.) have to be changed.
- b) Pillow bearings(32Nos.) have to be upgraded to take 20MT load.
- c) Geared motors(8Nos.) and associated inverter drive control panel(8Nos.) have to be changed

## 3. Important Note:

- 3.1 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 man power, material, machines or tools for the site work.
- 3.2 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.
- 3.3 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.
- 3.4 The fabricator has to arrange medical fitness certificate for all the working personnel. TLD and Dosimeter will be issued to all working personnel. Since the work is in radioactive area, all working personnel shall strictly follow the instruction of health physicist and dept. supervisor.

**Please note the following :**

1. The work is to be completed within 30 days 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, Mumbai – 85 on or before **21.06.2022** 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 Upgradation of existing tram-track trolleys”
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. Delivery period should be mentioned with all the possible consideration.
12. 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