

**GOVERNMENT OF INDIA  
BHABHA ATOMIC RESEARCH CENTRE  
WASTE MANAGEMENT DIVISION  
WASTE MANAGEMENT FACILITY, TROMBAY**

Ref: **WMD/ETP/EEI/CCTVCR/11928**

Date: 29.10.2021

**NOTICE INVITING TENDER**

Sealed quotations are invited on behalf of President of India by 'Supdt., ETP & DC, WMD, Nuclear Recycle Group, Trombay' for the following work from contractors having adequate experience and capabilities to execute such magnitude of similar works and who have similar experience with different units of Department of Atomic Energy (DAE), Nuclear Power Corporation of India Ltd., Public sector undertakings etc.

**Name of work:**

Minor works w.r.t. **Refurbishment of Control room of CCTV camera system at ETP Trombay**, as per details given in Annexure No. "WMD/ETP/EEI/ CCTVCR//Work-details".

**Terms & Conditions -**

- a. The tenderer may contact telephonically on '022-25594127' for clarifications, if any w.r.t. scope and details of the works. Last date for entertaining such queries shall be **10.11.2021** up to **16:00 hrs**, only on working days.
- b. Tenderer shall send the quotation in attached proforma and printed on letter-head with GST, etc. and break-up of Taxes, duties, levies, other charges, if any.
- c. Sealed quotation should clearly indicate Name of Work, Reference No. & Due date of submission of quotation. Address on the envelope should read:

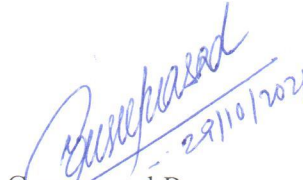
**Kind attention:** Guruprasad R., SO/E,  
Room No - 122, Effluent Treatment Plant (ETP),  
Bhabha Atomic Research Centre, Trombay, Mumbai-400085

Such sealed quotation should reach above address through '**registered post/speed post**' only through Indian Postal Service. **Last date for receipt of sealed quotation is 17.11.2021 up to 14:00 hrs.**

- d. The Sealed Quotations will be opened on **17.11.2021 at 14:30 hrs** in Divisional office, WMD, BARC, Trombay.
- e. **Supdt., ETP & DC, WMD**, Nuclear Recycle Group, Trombay, reserves the right to accept / reject any or all the quotations, without assigning any reason thereof.
- f. Quoted offer by the tenderer shall be valid for **minimum 60 days** from the date of opening and also the quoted price shall remain firm during the period of execution of the order.

Encl: Annex- 'WMD/ETP/EEI/ CCTVCR//Work-details'.

: Format proforma for quotation

  
Guruprasad R.,  
SO/E.

## TECHNICAL SPECIFICATION

### 1. Refurbishment of Bakelite + Glass partitions.

A Control centre / room is planned for upcoming CCTV camera system in room No. 122 of ETP Building. This control centre is located beside the existing telephone exchange room. Presently in room no.: 122, 09 nos. of open office cubicles (fabricated of Bakelite & Glass) are available as work space for personnel. An open cubicle adjacent to the telephone exchange is planned to be augmented into a closed room for it to serve as a control Centre. **The floor space / ceiling area of the open cubicle is 10 ft x 8 ft.**

The present partition structure:

- a. **On 2 sides**, it comprises of a combination of Bakelite {4ft (H) x 3ft (L) - 5mm thick} and glass {0.8ft (H) x 3ft (L) - 5mm thick} - 2 pieces / side, fixed together using 1 1/2" x 2" box pipe aluminium section.
- b. **One side** is made of **brick wall**.
- c. The **fourth side** (adjacent wall to the telephone exchange) is made up of Bakelite {7ft (H) x 3ft (L) - 5mm thick} - 2 pieces.

The proposed enclosed room structure:

It shall be erected above the present structure **to a height of 7ft** to match the present highest height. Finally it shall have 4 ft of Bakelite sheet and 3 feet of transparent Glass partition. This will require the following to be done:

1. Extend the Bakelite {4ft (H) x 3ft (L) - 5mm thick} and glass {0.8ft (H) x 3ft (L) - 5mm thick} - 2 pieces / side, fixed together using 1 1/2" x 2" box pipe aluminium section on **2 sides up to the height of 7 feet with** glass {3 ft (H) x 4 ft (L) - 5mm thick} - 2 pieces/ side.
2. The brick wall shall be **retained as it is**.
3. The fourth side (adjacent wall to the telephone exchange) is made up of Bakelite {7ft (H) x 3ft (L) - 5mm thick} - 2 pieces - **retained as it is**.
4. The present open doorway shall be closed with a door made up of Bakelite {4ft (H) x 3ft (L) - 5mm thick} and glass {2.5ft (H) x 3ft (L) - 5mm thick}, fixed together using 1 1/2" x 2" box pipe aluminium section. It shall have door stopper, concealed lock and handle on both sides.
5. The ceiling of the proposed room shall be of mineral fibre sheet (2 ft x 2 ft) mounted on 20 x 20 mm grid.
6. The ceiling shall also comprise of LED tube lights (**02 nos.**) - 2 ft x 2 ft size fitted on 20 x 20 mm grid.

  
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The following items shall be **supplied** for the installation of the partition:

Sr. No.	Item Description	Quantity (Supply & Installation)
1.	<b>Side Walls</b>	
a.	<b>Jindal</b> make of equivalent 1 ½" x 2" box pipe, Aluminium section with 100 Micron powder coated paint.	70 feet
b.	Transparent Glass 5 ft x 4 ft size & 5 mm thick	05 nos.
c.	Bakelite Sheet (for door) 3.5 ft x 3.5 ft size & 5 mm thick	01 no.
d.	Concealed door lock	01 no.
e.	Door handle	02 nos.
2.	<b>Ceiling</b>	
a.	Mineral Fibre sheet (2 ft x 2 ft size)	18 nos.
b.	LED tube light fixture (2 ft x 2 ft size)	02 nos.

The items offered by the supplier shall be complete in all respects. However requirement of any other item **not** covered by this specification but essential for proper fabrication and installation shall be included in the quotation.

## 2. Air-conditioner (Supply & Installation).

This specification covers **Supply, Installation, testing, commissioning and warranty** of fixed speed inverter type Window air conditioners of nominal capacity 2.0 TR. The Window air conditioner shall be suitable for Cooling, Dehumidification, Air filtration & Air circulation.

  
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### Technical Details:

Sr. No.	Description	Rating
1.	Nominal Cooling capacity in TR	2 TR
2.	Type of compressor	Rotary / Scroll
3.	Refrigerant	R-32 / R-410A
4.	Condenser & Evaporator Coils	The condenser and evaporator cooling coil of the window AC should be fabricated out of copper tubes of suitable size. <b>Aluminium coils shall not be accepted.</b>
5.	No. of Fan Speed	As per manufacturer's standard
6.	Power Supply	230V AC $\pm$ 10%, 1 ph. 50 Hz.
7.	BEE Star Rating (Minimum)	3 Star as per existing norms
8.	SEER in w/w	Higher value will be preferred.
9.	Temperature indicator	Digital
10	Remote Control	Cordless with LCD or LED display
11	<b>Quantity</b>	<b>01 no.</b>

### Applicable Standards and codes:

Window air conditioners shall be supplied as per **IS:1391-1992 (Part- I)**.

### Installation, testing and commissioning:

The A/C shall be fitted along with teak wood / aluminum frame wherever required. Supply and installation of wooden / aluminum frame for installation of window A/C unit is also included. The frame if fabricated out of teak wood should be having cross sectional area of 3" x 2". Aluminum frame for installation shall be acceptable provided thickness of the aluminum channels/ angles, shall not be less than 3 mm including all necessary accessories such as packing felt, screws etc. for complete installation.

After installation at site the window air-conditioner will be again tested for its performance and capacity. Window air-conditioner will be accepted only after satisfactory completion of testing and commissioning.

### Warranty:

The air conditioner shall bear a comprehensive on-site warranty of **ONE** year. The supplier has to mention period of the warrantee in their offer.

**Minimum 04 servicing shall be carried during the warranty period, free of cost.**



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## GENERAL NOTES:

### Quotation:

1. **Guarantee:** All the items (supplied & installed) related to partitioning work and performance of Air Conditioner shall be guaranteed against faulty material, Defective Design and poor workmanship for a period of **One Year (12 months)** from the **date of repairing of system**.
  
2. **Notes (Commercial):**
  - 4.1 Offer shall be **valid for minimum 60 days** from the date of opening and quoted price shall remain firm during the period of execution of the order.
  - 4.2 Any deviation from the specification shall be clearly mentioned in your offer.
  - 4.3 Payment will be made within **30 days of completion of the work**.
  - 4.4 Work shall be **completed within 60 days** of release of work order.
  - 4.5 Quoted price shall be exclusive of all taxes & taxes – rate and amount shall be columned serparately.
  
3. **Other General Notes:**
  - 5.1 Contractor personnel shall have police verification clearance and adhere to all Security norms of the department.
  - 5.2 All the health & safety norms as stipulated by the department shall be followed by the contractor personnel. All the safety wears required for the job and tools, tackles shall be arranged by the contractor.
  - 5.3 Injury, if any to the contractor's personnel shall be the responsibility of the contractor and not of the department. Contractor will bear all the medical expenses however First-aid help will be given by the department as far as possible.

*Quoted*

### Format proforma for quotation

Sr. No.	Item Description	Qty	Rate	Total Cost	Rate	Total Cost
			(Rs)	(Rs)	(Rs)	(Rs)
			Supply	Installation		
1A.	<b>Side wall Refurbishment:</b> Bakelite Sheet (3.5ft x 3.5ft x 5 mm thick) – 01 no. Transparent glass (5ft x 4ft x 5 mm thick) – 05 nos. 1 1/2" x 2" powder coated Al. Section - 70 ft Door lock - 01 no. And Door Handle - 02 nos.	140 Sq.ft..				
1B.	<b>Ceiling Fabrication</b> Mineral Fibre Sheet (2ft x 2ft) - 18 nos. LED tube light fixture (2ft x 2ft) - 02 nos.	80 Sq.ft..				
2.	2TR Window air Conditioner + AMC	01 no.				
3.	<b>BASIC TOTAL</b>					
4A.	<b>GST @ 5% (For Supply)</b>					
4B.	<b>GST @ 18% (For Installation)</b>					
5.	<b>Grand Total</b>					

Please note that for supply (only) – GST exemption certificate shall be provided  
(for the balance 13%)

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