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Ref.: NRG/NRGPD/SY/2019/160071

सत्यमेवजयते
भारत सरकार

GOVERNMENT OF INDIA

भाभा परमाणु अनुसन्धान केन्द्र
BHABHA ATOMIC RESEARCH CENTRE
Nuclear Recycle Group
Nuclear Recycle Group Projects Division

WIP Service
Building, Trombay,
Mumbai- 400085.
22/08/2019

Dear Sir,

Sub: "Mechanical works of New WMZ Steel Yard at BARC-Trombay, Mumbai as per technical specification."

We require the following work to be carried out on urgent basis:

S. No.	Name of items	Qty.	Completion Schedule
1.	Shifting of mild steel pipe racks, round bar stands and platforms to New WMZ Steel Yard and re-arrangement of all the pipe racks within the steel yard. Segregation, shifting of stainless steel raw material such as large dia. pipes, Hollow Bar Nozzles (HBN), plates, round bars, billets stored at various locations inside BARC premises (AWTF site/ WIP Site), stacking, loading, unloading, unboxing and systematic re-arrangement of these raw material manually with the help of Hydra/ crane being provided by the department free of cost.	1 Job.	The Work shall be completed within 6 Months from the Date of Placement of the work order.
2.	After cleaning of the relocated pipe racks, the same shall be painted with 2 coats of epoxy red oxide (In scope of the contractor) and 2 coats of grey epoxy paint (also in scope of the contractor).	2550Sq.m	
3.	Structural work with material of M.S fencing door.	300 Kg. (Approx.)	
4.	Fabrication, supply and installation of portable cabin.	1 No.	

The above works are to be carried out at New WMZ Steel Yard, BARC-Trombay, Mumbai, as per technical specification. If interested, please submit your most competitive offer for this work, in a sealed envelope via Speed Post Only, duly writing our letter reference number, **on or before 17.00 hrs. 11/09/2019. The offers will be opened on 12/09/2019 at 14.00 hrs.** in the office of Asstt. Accounts Officer, NRG, BARC, Trombay, Mumbai.

Technical Requirements:

1. The contracting firm shall have adequate knowledge of handling of with SS /M.S materials.
2. The work shall be carried out as per instruction of BARC staff at site of work.
3. Enclosed technical specification gives the requirement of tendered work in details.
4. Safety of the operating personnel and material being handled is required to be maintained by the firm.

Please note the following points:

1. Our technical specification (Annexure I) & sketch shall form a part of the W.O.
2. No material will be provided by BARC as free issue material.
3. **The work shall be completed within 06 Months from the date of issue of the work order.**
4. The labors those have valid Police Verification Certificate (with issue date not beyond 6 months) can only be deployed for the job.
5. The firm is required to be security vetted as per BARC security policy.
6. The enquiries should be sent only by speed post and should be addressed to following address:

Ramakant, Scientific Officer-G
Room No. 313, WIP Service Building,
Nuclear Recycle Group Projects Division, Nuclear Recycle Group,
Bhabha Atomic Research Centre, Trombay, Mumbai-400085.

The Enquiries sent by any other mode (manual, courier etc.) shall be rejected without assigning any reasons as per terms and conditions of Accounts, BARC.

The offer shall be kept valid for a period of 45 days from the date of opening. All taxes, levies and transportation charges if any, shall be brought clearly in your offer. Please note that BARC is exempted from paying excise duty. Accounts Officer, BARC, shall provide necessary certificate to this effect. Hence, your offer shall not include excise duty component and, if applicable, the same shall be indicated separately.

Full payment shall be made only after successful completion and acceptance of the work.

- Encl.:
1. Technical specification.
 2. Technical specification of the portable office cabin.
 3. Tentative sketch of portable office cabin.



(Ramakant)
SO/G, NRGPD, NRG
Phone: 022-25591015.

Copy to: Work Order File

Technical Specification
(Enquiry No: NRG/NRGPD/SY/2019/16007 L Dt.22/08/2019.)

1. SCOPE:

S. No.	Name of Items	Qty.
1.	Shifting of mild steel pipe racks, round bar stands and platforms to New WMZ Steel Yard and re-arrangement of all the pipe racks within the steel yard. Segregation, shifting of stainless steel raw material such as large dia. pipes, Hollow Bar Nozzles (HBN), plates, round bars, billets stored at various locations inside BARC premises (AWTF site/ WIP Site), stacking, loading, unloading, unboxing and systematic re-arrangement of these raw material manually with the help of Hydra/ crane being provided by the department free of cost. The total material to be handled works out to be approx. 700 Tons.	1 Job.
2.	After cleaning of the relocated pipe racks, the same shall be painted with 2 coats of epoxy red oxide (In scope of the contractor) and 2 coats of grey epoxy paint (also in scope of the contractor).	2550Sq.m
3.	Structural work with material of M.S fencing door.	300 Kg. (Approx.)
4.	Fabrication, supply and installation of portable cabin.	1 No.

The above works are to be carried out at New WMZ Steel Yard, BARC-Trombay, Mumbai, as per technical specification.

2. **Material to be handled:** Following Stainless Steel (SS) raw materials are required to be handled and re-arranged in the pipe and plate racks :
 - a. SS pipes and Hollow Bar Nozzles (HBN) from 6 mm NB to 350 NB size (length: random lengths).
 - b. SS Tubes from 6 mm to 50 mm diameter (length: random lengths).
 - c. SS plates from 1 mm thickness to 50 mm thickness (size: various).
 - d. SS 304L rods, bars and billets in the sizes ranging from 12 mm to 350 mm dia.
 - e. M.S Pipe Racks (approximate 0.5-1.0 MT weight each).
 - f. Total quantum of materials in the form of stands, pipes, plates, rods and bars etc. works out to be 700 MT (approx.).
3. **Manpower requirement:** Four (4) nos. of labors are required on a continuous basis at site of work i.e. WMZ steel Yard, WIP Complex Area and AWTF Site area, inside BARC, Trombay.
4. **Completion period:** Within 06 Months from the date of issue of the work order.
5. **Method of handling:**
 - a. **SS pipes, HBN, Tubes, Large dia. pipes, round bars, billets:** Manually by hand piece by piece or using Hydra (shall be provided by the department free of cost) in bulk lot wise.
 - b. **SS plates:** Manual guidance & placement using hydra or fork lift whichever is available (shall be provided by the department free of cost).
 - c. **Pipe Racks:** Manual guidance & placement using hydra/ fork lift and/ or truck (shall be provided by the department free of cost).
6. **Security requirements for labors:**
 - a. The labors those who have valid Police Verification Certificate (with issue date not beyond 6 months) can only be deployed for the job.
 - b. The firm is required to be security vetted as per BARC security policy.
7. **General:**
 - a. The work shall be carried out as per instruction of BARC staff.
 - b. The workers are required to report at site of work in time.
 - c. Personal safety gadgets such as helmets, gloves, boots etc. shall be arranged by the firm.
 - d. Safety of the workers during the handling shall be in scope and responsibility of the contractor.

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Technical Specification For Portable Office Cabin
(Enquiry No: NRG/NRGPD/SY/2019/L6007LDt.22/08/2019.)

1. **Scope:** The portable cabin is intended to be utilized as site office for WMZ Stores, BARC Trombay. This portable cabin is to be fabricated, supplied, transported and installed at BARC site by contracting firm as per this technical specification and attached sketch.
2. **Principal Dimensions:**
Overall Outer Length: 15 Feet.
Outer Width: 10 Feet.
Outer Height: 8.5 Feet.
Permissible Tolerance: +/-10mm
3. **Construction Details:**

Base Frame	Standard MS I beam ISMB 100.
Corner Posts	Standard MS Box 60 x 60 x 5 mm
Top Frame	Standard MS Box of 50 x 50 x3 mm
Bottom Stiffeners	Standard MS Box 50 x 50 x 3 mm
Side Wall Stiffeners	Standard MS box 50 x 50 x3 mm
Top Stiffeners	Standard MS Box 30 x 30 x3 mm
Side & End Walls	MS pressed steel vertical corrugated sheets of thickness 1.6mm.
Roof	MS sheet 3mm thick shall be adequately supported with proper frame trusses made of MS structural members with proper slope for water drainage.
Weather Shed	1 Foot wide over main door & Windows made of MS sheet of 3mm Thickness with proper frame work made from MS angles (50 x 50 x 4 mm Thk.)
Internal Paneling	1mmthk. Plastic decorative laminate sheet fixed on min.8 mm thk. Marine grade plywood. The panel is to be supported by suitable MS frame work.
Roof Internal Paneling	1mm thk. Plastic decorative laminate sheet fixed on min.6 mm thk. Marine grade plywood. The panel is to be supported by suitable MS frame work.
Insulation	All voids within the External & Internal wall to be filled with 75 mm thk. Resin bonded fiber glass wool of density 2Lbs/ CFT confirming to IS 8183.
False Ceiling	12 mm Pre – laminated marine plywood (reputed make) to be used.
Flooring	MS bottom ribs network of ISMC 75 x 40 x 5 mm channels to be fabricated. One center support of 18' and 6 – 8 supports of 10' length to be provided. 18mm thick Marine plywood is to be fixed with self – tapping screws over the structure. The inner surface to be finished by fixing vinyl sheet of 3mm thickness by glue with 3" skirting. The inner as well as outer surface of the Ply is to be coated with black polymer paint for protection from water.
Main Door	MS main door be provided. Main Door frames to be made with MS Box section of 50 x 50 x 3 mm. Doors will have same cross section as the walls, insulation and finish & to be provided with thick rubber seal to prevent Dust & Water from entering the cabin. The doors will be outward opening. Inside & outside locking arrangements & handles to be provided.
Windows	02 Windows, horizontally double shutter sliding type of size 6' x 3' size on one side and 6' x 3' on another side. Frame to be made of MS box

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	section of 50 x 25 x 3mm. Windows frame shall be of anodized aluminum extruded & powder coated heavy section. Clear glass of 4mm thickness to be provided. Outside collapsible grill made of 12 x 10mm (approx.) MS sections and with locking arrangement has to be provided.
Painting	All the MS structure & plates to be painted with two coats of epoxy primer & two coats of epoxy paint 35 micron Dry Film Thickness (DFT) per coat. The DFT test will be witnessed by BARC. The inside surface of the side walls & roof is also to be painted with a coat of primer & paint.
Hooks	Four nos. of hooks of proper strength are to be provided for lifting & shifting of cabin from one place to another.
Regulating codes	For MS work – For material – IS 2062 2011 For Welding (Metal Arc)–IS816, Welding rods–E6013 For Painting–IS1477– 2– 1971
Air conditioner	Supply and Installation of split Air Conditioner– 01No. (1.5 tons split AC of 5 star rating Voltas/ Blue star/ Whirlpool/ LG Make with copper condenser and copper tubing for inlet and outlet, mounting brackets and metal clad switch-socket).
Electrical fittings	<p>The cabin will receive 415V, 3phase with Neutral power supply to be terminated in Powder coated TPN Distribution Board, IP43, Double door (outer acrylic door), 4 way per phase, Surface mounting type, 8+12 modules, Legrand make of model # 607750 along with the following:</p> <p>4 pole RCBO, 415V AC63A rating, 300mA sensitivity, 10kA breaking capacity, Legrand make of model #411379 – 1No. Single pole MCB, 240VAC 16A rating, C curve, 10kA breaking capacity, Legrand make of model #408590 – 18Nos. (06 per phase). Further Electrical Distribution of all plug points, AC's, lighting shall be done from this Board by wiring/ cabling. 03 Nos. LED tube lights 4 feet length of approx. 20 watts of reputed make properly mounted and supported at Ceiling. 06 Nos. 5 pin penta plug sockets of 15/ 5amp with 10A MCB (at 6 places, 03 at workstation, 03 no. in partition). The switches & sockets should be of Roma/ Anchor make. LED bulbs, approx. 18watt – 04 nos., one outside each door & 02 nos. on outside horizontal face above window. Rotor fans – 2 nos., 10" size of reputed brand properly mounted and supported at ceiling. Exhaust fan – one no. 10" size in partition area of reputed make. 3 pin input industrial socket of 16amps with proper MCB/ ELCB to be provided on the outer wall of cabin with box. 6 Nos. LED Flood Light Fixtures of 50 Watts, Prestolite (Product code PLFL 50) or Equivalent make to be installed and wired on outside of cabin with individual switch. Telephone socket – One No. Of telephone socket. 03 Nos. of Emergency LED light Lanterns of Philips/ Eveready make.</p> <p>Note: All the wiring should be FRL SPVC insulated copper wire of Poly cab/ RR cable make Concealed in PVC conduits. The wires to be used of proper rating of 2.5 Sq. mm for light, workstation sockets, fans etc. & 4 sq.mm for A/C. Detailed wiring scheme shall be prepared and it's approval shall be obtained prior to it's implementation.</p>
Work Station Desk	01 no. self – standing CRCA powder coated desk of size 3000mm (L) x 450mm (W) x 800mm (H) made of 14/16 gauges CRCA sheet with frame structure, powder coated with 03 drawers on both ends, locking

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	arrangements, handle and foot rest arrangement. A sliding platform for Computer key boards (02nos.) to be provided in the center. The color of paint shall be Siemens gray. The drawing and color should be got approved by Engineer In Charge. The Desk shall be aesthetically designed and manufactured.
Work Station Seating	1) Supply and delivery of 06nos. revolving Work Station Seating with cushion, half back rest and arms of sturdy construction and aesthetic look. 2) Supply and delivery of 6 nos. plastic Seating with full back rest and arms of sturdy construction and aesthetic look of Supreme/Neel Kamal make. Make & model of both types of work station seating arrangement shall be approved prior to execution by Engineer In Charge.
Steel Cupboard	01 No. good quality storage cupboard made of 16/18 gauge CRCA sheet with frame structure, powder coated with 5 horizontal compartments (Godrej store well design) to be provided. Size 78" (H) x 36" (W) x 22" (D).
Mini Bottle cooler/ Fridge	01 No. small capacity (approx. 50 Liter) Bottle cooler/ Fridge of standard make to be provided inside the cabin.

4. General Notes:

- a. The sketches attached are for general reference only.
- b. Bidder shall submit detailed drawings for cabin with bill of quantity and make of items along with offer.
- c. Bidders shall quote lump sum cost for cabin as finished item, including its transportation and installation cost, taxes if any shall be quoted separately.
- d. The cabin is to be supplied on safe door delivery basis to BARC site and un-loading, placement at designated location without any damage to the cabin or its items. If there is any damage, it is in the scope of the contracting firm.
- e. Material handling equipment like hydra, crane etc. (if required) shall be provided by the department free of cost, all other tools & tackle required for the installation of the portable cabin shall be in the scope of the contracting firm.
- f. The Payment will be made as per Government procedure after the job is completed satisfactorily in all respects and has been approved by the officer supervising the job. Payment shall be made only on satisfactory completion of work, removal of debris/ waste arising out of the work carried out from site and on production of bill in duplicate, advance stamped receipt, guarantee/ warranty certificates, stores receiving voucher duly signed by ASO (if applicable), In general after submission of all the papers mentioned in work order, it takes about a month period for releasing the payment, as per standard practice followed in BARC.

5. Undertaking:

The vendor shall give undertaking stating that he has understood the entire scope of work inclusive of technical, supply, installation, testing and commissioning requirements as well as other associated security/ safety and other general requirements.

6. Installation Practices:

- a. The contractor shall use proper electrical plug, sockets, MCB, Wires. Use of loose wiring will not be permitted.
- b. The contractor shall follow all safe practices to produce neat Quality finished Product and excellent workmanship.
- c. The contractor should supply and install all the fixtures, which may not be specifically mentioned in above, but necessary for the completion of the work, without any additional cost.
- d. All the accessories such as clamps, MS boxes, MS angles, screws, fixers, ravel plugs, PVC flexible conduits etc. should be supplied by the contractor.
- e. The contractor shall be responsible for any loss or damage during transportation, handling and storage of the components during installation of the cabin.

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f. The installation of the above work should be as per the guidance of Engineer – In – charge of the work.

7. Inspection & Testing:

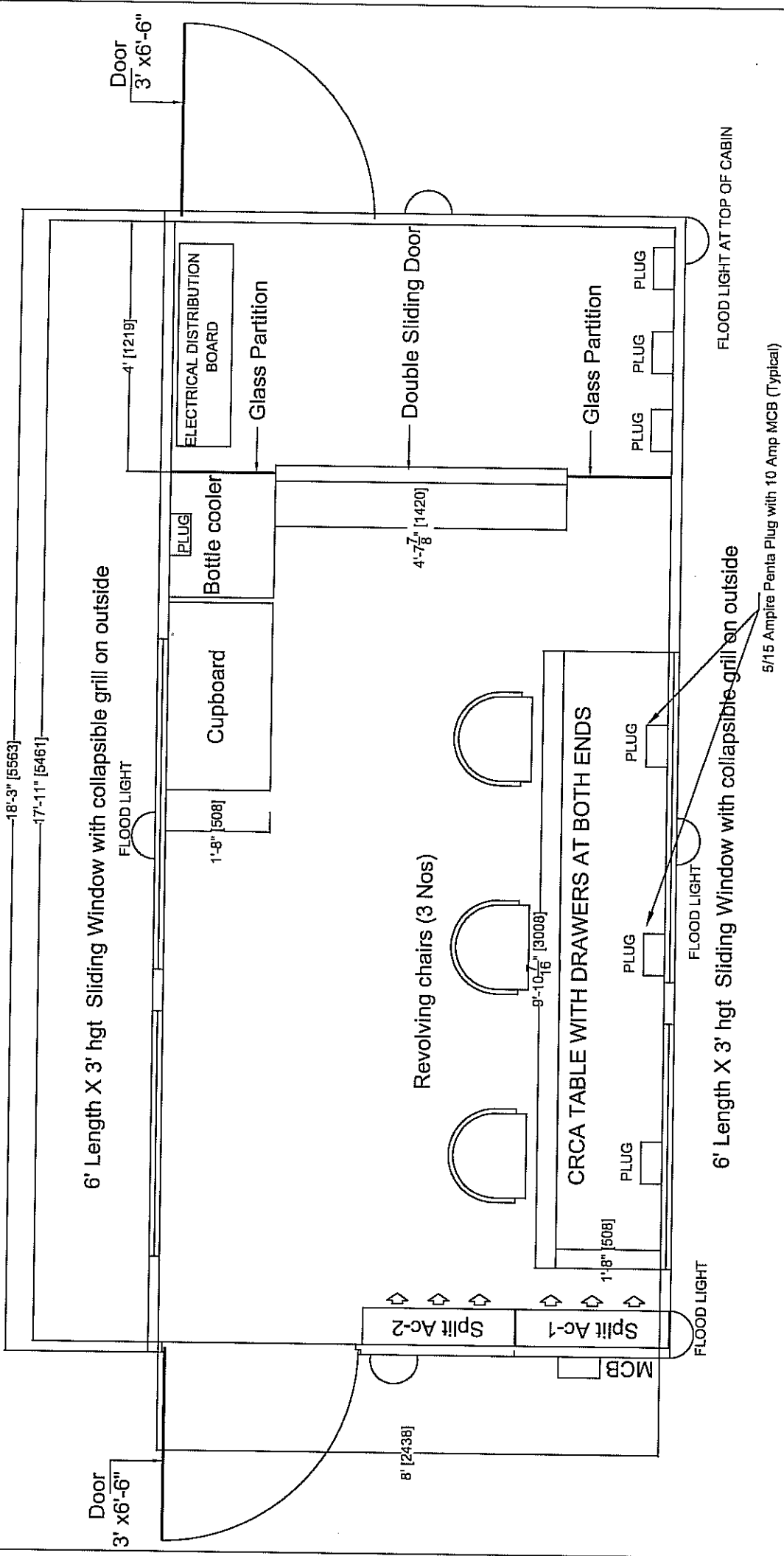
- a. Stage wise inspection by Engineer in Charge or his authorized representative will be carried out through out fabrication of cabin. A prior approval must be taken before purchase/ fitting of bought out items.
- b. All the items/ materials supply items shall be inspected at contractor's end/ sourcing agency before dispatch by Engineer in Charge or his team.
- c. Functional tests shall be repeated at site after installation & commissioning before final acceptance.

8. Working Conditions:

The contractor shall fulfill all the BARC security requirements for transporting the cabin inside BARC and installing at the same at designated place.

9. **Warranty:** The contractor shall warranty the main structure of the cabins for at least 3 years.

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