

**Ref:** NRG/ TDD/HCEAS/SCL/2018/PortaCabin/OPA/104114

**Date:** 28/05/2018

**NIT for Minor Fabrication**  
**Due date: 14/06/2018**

Sealed quotations are invited for and on behalf of the President of India for the work as described below. The last date of submission of sealed quotation is **14/06/2018** up to 15:00 hrs at 207-C-6, WIP Process Building, Trombay, Mumbai 400085, of Technology Development Division. Please mention the reference number on the front cover of the sealed quotation. Sealed quotation shall only be sent through Postal Speed Post/Normal Post only. Hand delivery of the quotations is strictly not allowed. The sealed quotation will be opened on the same day at 15:30 hrs. in the office of authorized tender opening officer, TDD, NRG, BARC.

| Description of work  | Quantity | Duration  |
|--|----------|-----------|
| Fabrication, supply and installation of MS Container type Portable office Cabin at site of BARC, Trombay, Mumbai-400085. Qty.- 01 No. designated as Cabin A. | 01 No.   | 03 Months |

**1.0: General:** Portable Cabins are intended to be utilised as a temporary office and washroom facility related activities. 01 nos. Portable Cabins as described as Cabin A is to be fabricated, supplied, transported and installed at BARC sites by successful Bidder as per technical specifications, requirements & layout sketches.

**1.1: Technical Specifications for Portable office Cabin A:**

**Refer General Arrangement Sketch “Cabin A”**

**Principal Dimensions:**

- Overall Outer Length:** 18 Feet
- Overall Outer Width:** 10 Feet
- Overall Outer Height:** 8.5 Feet
- Permissible Tolerance:** +/- 1 inch

**Construction Details:**

|                             |   |
|-----------------------------|---|
| <b>Base Frame</b>           | Standard MS I beam ISMB 100.  |
| <b>Corner Posts</b>         | Standard MS Box 60 X 60 X 5 mm  |
| <b>Top Frame</b>            | Standard MS Box of 50 X 50 X 3 mm   |
| <b>Bottom Stiffeners</b>    | Standard MS Box 50 x 50 x 3 mm  |
| <b>Side Wall Stiffeners</b> | Standard MS box 50 X 50 X 2.6 mm  |
| <b>Top Stiffeners</b>       | Standard MS Box 30 X 30 X 2.5 mm  |
| <b>Side &amp; End Walls</b> | MS pressed steel vertical corrugated sheets of thickness 1.6 mm.  |
| <b>Roof</b>                 | MS sheet 1.2 mm thk. adequately supported with proper frame trusses made of MS structural members with proper slope for water drainage. |

|                                      |  |
|--------------------------------------|--|
| <b>Weather Shed</b>                  | 1 Foot wide over doors & Windows Made of MS sheet of 1.2 mm thickness with proper framework made from MS angles.   |
| <b>Internal Paneling</b>             | 1 mm thk. Plastic decorative laminate sheet fixed on min. 8 mm thk. Marine grade plywood. The panel is to be supported by suitable MS framework.   |
| <b>Roof Internal Paneling</b>        | 1mm thk. Plastic decorative laminate sheet fixed on min. 5mm thk. Marine grade plywood. The panel is to be supported by suitable MS framework.   |
| <b>Insulation</b>                    | All voids within the External & Internal wall to be filled with 75 mm thk. Resin bonded fiber glass wool of density 2 Lbs/CFT confirming to <b>IS 8183</b> .   |
| <b>False Ceiling</b>                 | 9 mm Pre-laminated marine plywood to be used.  |
| <b>Flooring</b>                      | MS bottom ribs network of ISMC 75 X 40 X 5 mm channels to be fabricated. One centre support of 18' and 6-8 supports of 10' length to be provided. 18 mm 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 1.3 mm 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.  |
| <b>Doors (Main &amp; Partition )</b> | Two separate MS doors (one for main office, one for partition) and two nos. sliding full height Glass Doors) are to be provided. Main Door frames to be made with MS Box section of 50 X 50x 2.8 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. The Glass Door shall be made from anodized aluminum extruded & powder coated heavy section with clear glass of 4 mm thick. Inside & outside locking arrangements & handles to be provided. |
| <b>Windows</b>                       | 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 section of 50 X 25 X 2.5 mm. Windows' frame shall be of anodized aluminum extruded & powder coated heavy section. Clear Glass of 4 mm thickness to be provided. Outside collapsible grill made of 12 X 10 mm (approx.) MS sections and with locking arrangement to be provided.  |
| <b>Painting</b>                      | 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.  |
| <b>Hooks</b>                         | Four nos. of hooks of proper strength are to be provided for lifting & shifting of Cabin.  |
| <b>Partition</b>                     | Partition within Cabin has to be made from anodized aluminum extruded & powder coated heavy section with 02 nos. Sliding Glass Doors all having clear glass of 4 mm thick.   |
| <b>Regulating codes</b>              | For MS work - For material - IS 2062 2011<br>For Welding (Metal Arc) – IS 816, Welding rods – E 6013<br>For Painting – IS 1477 -2-1971   |
| <b>Air conditioners (02 Nos.)</b>    | Supply and Installation of split Air Conditioners - <b>02 Nos.</b> : 1.0 ton split AC of 3 star rating Voltas/Blue star/ whirlpool/LG with copper tube for inlet and outlet, mounting brackets and metal clad switch-socket.   |
| <b>Electrical fittings</b>           | 1. The cabin will receive 415 V, 3 phase with Neutral power supply to be terminated in Powder coated TPN Distribution Board, IP 43,  |

|                          |   |
|--------------------------|---|
|                          | <p>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> <ol style="list-style-type: none"> <li>1. 1: 4 pole RCBO , 415 V AC 63 A rating, 300mA sensitivity, 10 kA breaking capacity, Legrand make of model # 411379 - 1 No.</li> <li>1.2: Single pole MCB, 240 V AC 16 A rating, C curve, 10 kA breaking capacity, Legrand make of model # 408590-18 Nos. (06 per phase)</li> </ol> <p><b>Further Electrical Distribution of all plug points, ACs, lighting shall be done from this Board by wiring/cabbling.</b></p> <ol style="list-style-type: none"> <li>2. 03 Nos. LED tube lights 4 feet length of approx. 20 watts of reputed make properly mounted and supported at Ceiling.</li> <li>3. 06 Nos. 5 pin penta plug sockets of 15/5 amp with 10 A MCB (at 6 places, 03 at work station, 03 no. in partition). The switches &amp; sockets should be of Roma/Anchor make.</li> <li>4. LED bulbs, approx. 18 watt – 04 nos., one outside each door &amp; 02 nos. on outside horizontal face above window.</li> <li>5. Rotor fans – 2 nos., 10” size of reputed brand properly mounted and supported at Ceiling.</li> <li>6. Exhaust fan – one no. 10 ” size in partition area of reputed make.</li> <li>7. 3 pin input industrial socket of 16 amps with proper MCB/ELCB to be provided on the outer wall of cabin with box.</li> <li>8. 06 Nos. LED Flood Light Fixtures of 50 Watts, Prestolite (Product code PLFL50) or Equivalent make to be installed and wired on outside of Cabin with Individual Switches.</li> <li>9. Telephone socket – One No. Of telephone socket.</li> <li>10. 03 Nos. of Emergency LED light Lanterns of Philips/Eveready make.</li> </ol> <p>Note: All the wiring should be FRLS PVC insulated copper wire of Polycab/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. &amp; 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> |
| <b>Work Station Desk</b> | <p><b>01 no. self standing CRCA powder coated desk of size 3000 mm (L) x 450 mm (W) x 800 mm (H)</b> made of 14/16 gauges CRCA sheet with frame structure, powder coated with 03 drawers on both ends, locking arrangements, handle and foot rest arrangement. A sliding platform for Computer key boards (02 nos.) to be provided in the Center. The colour of paint shall be Siemens gray. The drawing and colour should be got approved by Engr. In Charge. The Desk shall be aesthetically designed and manufactured.</p>   |
| <b>Office Chairs</b>     | <ol style="list-style-type: none"> <li>1) Supply and delivery of 03 nos. Revolving Chair with cushion, half back rest and arms of sturdy construction and asthetic look.</li> <li>2) Supply and delivery of 12 nos. Plastic Chair with full back rest and arms of sturdy construction and asthetic look of Supreme/Neelkamal make.</li> </ol> <p>Make &amp; Model of both types of Chairs shall be approved by Engr. In Charge.</p>   |

|                                       |   |
|---------------------------------------|---|
| <b>Steel Cupboard</b>                 | 01 No. good quality storage cupboard made of 16/18 gauges 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) |
| <b>Mini Bottle cooler/<br/>Fridge</b> | 01 No. small capacity (approx. 50 Litres) Bottle cooler/Fridge of standard make to be provided inside the cabin.  |

**2.0: Notes:**

- 2.1: The sketches attached are for general reference only.
- 2.2: Bidder shall submit detailed drawings for both cabins with Bill of Quantity and make of items along with Offer.
- 2.3: Bidders shall quote Lumpsum Cost for each type of Cabin as Finished Item. Transportation and Installation cost shall be quoted separately.
- 2.4: **The Vendor shall be qualified only if he is having minimum five years of experience in fabrication and supply of Portable Cabins of similar nature. The current and previous PO /WO shall be submitted as references.**
- 2.5: **The offers will be evaluated on overall total cost basis for both the cabins.**
- 2.6: The Cabins are to be supplied on Safe Door Delivery Basis to BARC Site and un-loading, placement at designated location without any damage to Cabins or any of their items is in the scope of successful Vendor.
- 2.7: The contractor shall bring all the required material handling equipments like Hydra, Crane (if required), Wire rope slings, D-shackles etc. for unloading and installation of the cabins.
- 2.8: Quotation shall be valid for minimum **30 days** from the date of opening.
- 2.9: 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), No Demand Certificate from Security. 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.
- 2.10: Income tax @ prevailing rate at the time of execution of work and applicable surcharge on Income Tax as applicable & education cess on IT & SC as applicable will be deducted from the bill.
- 2.11: Work shall be completed **within 90 days** of release of work order.
- 2.12: Quotations are to be on printed letter head and should mention Goods and Services Tax (GST) Registration Number as well as any other prevailing Tax Registration Number registered with local, state/Central authority, PAN Number of the firm, Service Tax Registration Number etc.
- 2.13: Similarly claims raised by the firms are also to be in Printed Invoice formats consisting of the above Registration Numbers.
- 2.14: It is necessary to mention Taxes Registration Numbers clearly in the quotation, without which the offers will not be considered.
- 3.0: GST: Will be paid as applicable to BARC. Since the goods to be supplied against the work order are meant for Research purpose of a Research Organisation under Department of Atomic Energy, the concessional rates of GST are applicable. Necessary Certificates will be made available by BARC.
- 4.0 **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.

### **5.0: Installation Practices:**

- 5.1: The contractor shall use proper electrical plug, sockets, MCB, Wires. Use of loose wiring will not be permitted.
- 5.2: The contractor shall follow all safe practices to produce neat Quality finished Product and excellent workmanship to the satisfaction of Engineer in charge.
- 5.3: The Contractor should supply and install all the fixtures, which may not be specifically mentioned in above, but necessary for the completeness of the work, without any additional cost.
- 5.4: All the accessories such as clamps, MS boxes, MS Angles, screws, fixers, ravel plugs, PVC flexible conduits etc. should be supplied by the Contractor.
- 5.5: The contractor shall be responsible for any loss or damage during transportation, handling and storage of any component of the Cabins.
- 5.6: The installation of the above work should be as per the guidance of Engineer-in-charge of work.

### **6.0: Inspection & Testing:**

- 6.1: Stage wise inspection by Engineer-in-Charge or his authorized representative will be carried out through out fabrication of Cabins vis-à-vis Mechanical, Civil, Electrical works. A prior approval must be taken before purchase/fitting of bought out items.
- 6.2: All the items / materials Supply items shall be inspected at Contractor's end/Sourcing Agency before dispatch by Engineer in Charge or his team.
- 6.3. Functional tests shall be repeated at site after installation & commissioning before final acceptance.

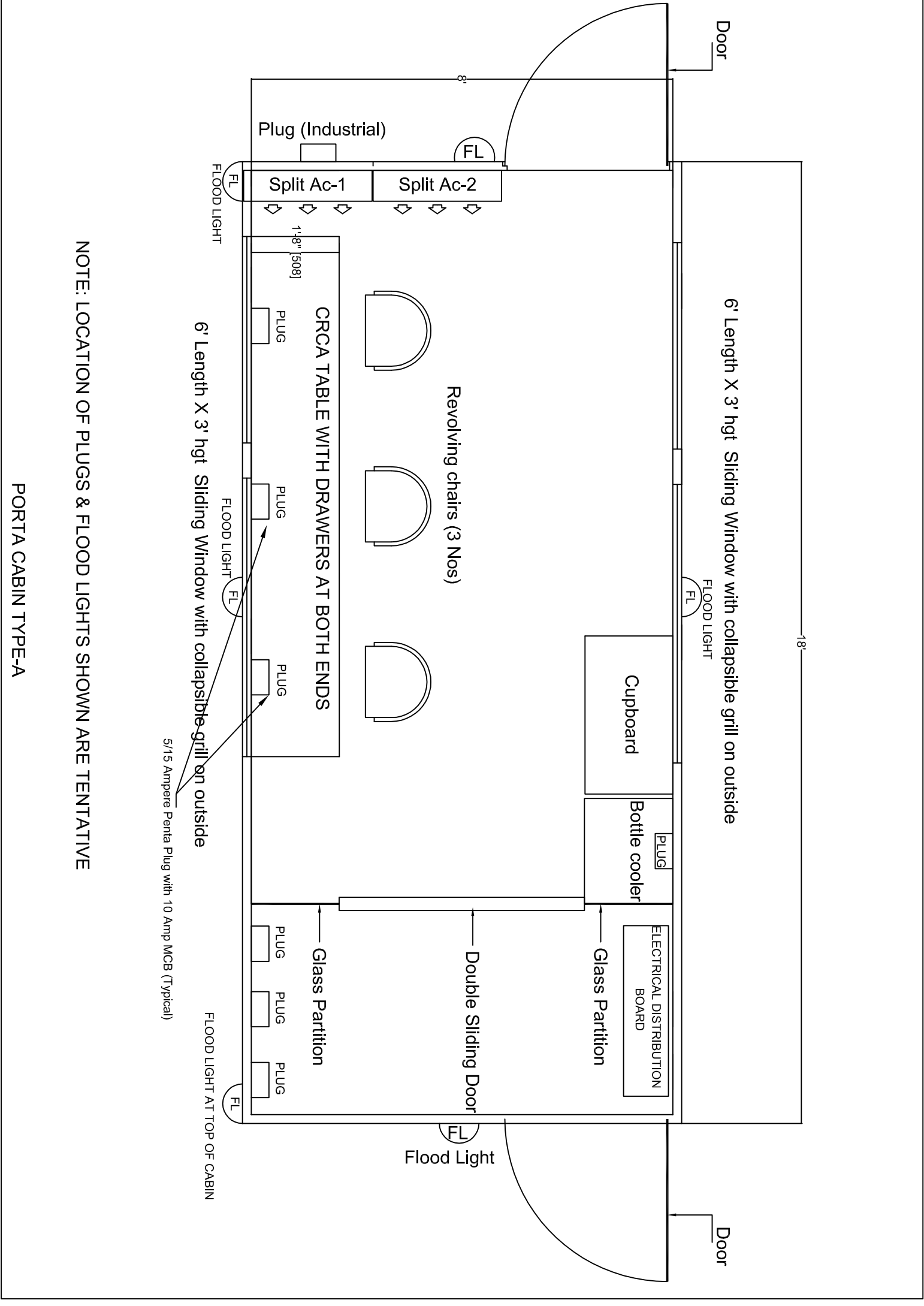
**7.0: Working Conditions:**The contractor shall fulfil all the BARC security requirements for transporting the Cabins inside BARC and installing at designated place.

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

9.0: Contact undersigned for any other technical enquiry about the job.

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Encl: 1. Sketch of the Porta-Cabin  
2. Format of the Financial Bid.



18'

Door

Door

6' Length X 3' hgt Sliding Window with collapsible grill on outside

FLOOD LIGHT

FL

FLOOD LIGHT

FL

Cupboard

Bottle cooler

ELECTRICAL DISTRIBUTION BOARD

Glass Partition

Double Sliding Door

Flood Light

FL

Revolving chairs (3 Nos)

CRCA TABLE WITH DRAWERS AT BOTH ENDS

1'-6" (508)

Plug (Industrial)

Split Ac-1

Split Ac-2

FL

FLOOD LIGHT

FL

6' Length X 3' hgt Sliding Window with collapsible grill on outside

FLOOD LIGHT

FL

FLOOD LIGHT AT TOP OF CABIN

FL

PLUG

PLUG

PLUG

Glass Partition

PLUG

PLUG

PLUG

PLUG

5/15 Ampere Penta Plug with 10 Amp MCB (Typical)

NOTE: LOCATION OF PLUGS & FLOOD LIGHTS SHOWN ARE TENTATIVE

PORTA CABIN TYPE-A

**Financial Bid**

Ref NIT: NRG/TDD/HCEAS/SCL/2018/PortaCabin/OPA/104114

Date: 28/05/2018

| 1        | 2  | 3           | 4                    | 5 (=3X4)         |
|----------|--|-------------|----------------------|------------------|
| SI No    | Name of items  | Qty/Unit    | Unit Rate (Rs./Unit) | Sub Total in Rs. |
| 1.       | <b>Portable office Cabin A:</b> Size: 18' (L) X 10' (W) X 8.5' (H) Basic Cabin as per specifications.  | 180 Sq.Ft.  |                      |                  |
| 2.       | <b>Glass Partition/Glass Door for Cabin</b> as per specifications.   | 07 Sq. mtr. |                      |                  |
| 3.       | <b>Supply and Installation of split Air Conditioners:</b> 1.0 ton split AC of 3 star rating Voltas/Blue star/whirlpool/LG with copper tube for inlet and outlet, mounting brackets and metal clad switch-socket. | 02 Nos.     |                      |                  |
| 4.       | <b>Electrical fittings:</b> Electrical Distribution Boards with MCBs, Wiring & Providing the fittings as per Specifications.   | Lump sum    |                      |                  |
| 5.       | <b>Work Station Desk:</b> CRCA powder coated desk of size 3000 mm (L) x 450 mm (W) x 800 mm (H) as per specifications.   | 1 No.       |                      |                  |
| 6.       | <b>Office Chairs Revolving</b> as per specifications.  | 03 Nos.     |                      |                  |
| 7.       | <b>Plastic chairs</b> as per specifications.   | 12 nos.     |                      |                  |
| 8.       | <b>Steel Cupboard</b> Size 78" X 36" X 22" as per specifications.  | 01 No.      |                      |                  |
| 9.       | <b>Mini Bottle Cooler/Fridge :</b> A small capacity (Approx. 50 Litres) Bottle cooler/Fridge of reputed make to be provided inside the cabin.  | 01 No.      |                      |                  |
| <b>A</b> | <b>Total (Rs.)</b>   |             |                      |                  |
| <b>B</b> | <b>GST on Supply (Rs.)</b>   |             |                      |                  |
| <b>C</b> | <b>Transportation Cost (Rs.)</b>   |             |                      |                  |
| <b>D</b> | <b>GST on Transportation Cost (Rs.)</b>  |             |                      |                  |
| <b>E</b> | <b>Grand Total (Rs.)</b>   |             |                      |                  |

Signature &amp; Seal of the Vendor