

**PURCHASE ENQUIRY**

To M/s	Our E-mail : <a href="mailto:vivekf@bhelswr.co.in">vivekf@bhelswr.co.in</a>	
	<b>ENQUIRY No.</b>	<b>XI037 E</b>
	<b>ENQ.DATE</b>	<b>09.11.11</b>
	<b>DUE DATE</b>	<b>18.11.11</b>

Dear sir,

Kindly submit your sealed quotation by Speed Post / Registered Post / Courier / Air Mail in **two bids viz.**

**(1) Technical cum Commercial Bid & (2) Price Bid** for the material indicated below confirming acceptance to the terms and conditions enclosed ,so as to reach our office on or before 3.00 PM on the due date. Quotation may be sent by Fax only if asked so by BHEL / with prior permission of BHEL.

S.. No	Description of Material	Unit	Qty	Delivery Schedule	Material Required at (Destination)
01	SUPPLY OF PORTA CABINS WITH CHAIRS AND ALL FITTINGS INCLUDING PAINTING AS PER SPECIFICATION & SKETCH ENCLOSED.	NOS	As per Annexur e-II	Within 01 Month from the date of Purchase Order	BHEL SITE OFFICE, 1X600 MW VISA POWER LIMITED PROJECT, NEAR VILLAGE-DEVERI & DUMARPALI, DIST: RAIGARH CHATTISGARH

**A) GENERAL TERMS AND CONDITIONS OF CONTRACT**

Cl. No.	DESCRIPTION
01	Each tender should be sent in a double cover, inner cover should be sealed with tenderer's distinctive seal. The outer cover should bear the address of this office and superscribed with correct Enquiry No. and Due Date. Tender should be free from CORRECTION AND ERASURES. Corrections, if any must be attested. All amounts shall be indicated both in words as well as in figures. Where there is difference between amount in figures and words, amount quoted in words shall prevail.
02	Technical cum Commercial bid will be opened at 4.00 PM on Due Date. The Technical cum Commercial bid should accompany copy of documents like authorized dealership certificate, earlier supply order details of similar equipment and their performance feedback from customers, company profile and present status, product catalogue of the models offered, technical specifications of the product, commercial Terms & Conditions and other relevant documents etc.
03	Price bid of technically accepted bidders only will be opened. No revision of prices will be entertained after Tenders are opened, unless mentioned in our enquiry / asked so by BHEL.
04	Manufacturer's name, Trade Mark or Patent No. if any, shall be specified in the Technical cum Commercial Bid
05	Please mention the relevant national / international standard code of the product quoted for in the Technical cum Commercial bid.
06	The purchaser shall be under no obligation to accept the lowest or any other tender and shall be entitled to accept or reject any tender in part or full without assigning any reason whatsoever.
07	Late tenders (received after Due Date & time) shall not be accepted in any circumstances.
08	Price quoted shall be valid for 90 days from the date of opening
09	Price shall be quoted as per enclosed 'Price Format' only. Quotations not accompanying filled in 'Price Format' are likely to be rejected. Please fill in all the columns of all formats

**BHARAT HEAVY ELECTRICALS LIMITED**  
**PS-WR:HQ:NAGPUR**

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10	The price quoted should be as applicable to DGS & D (Govt. of India) and other Govt. Organizations. In case DGS & D rate / Running Contract is not existing, but a contract is in vogue with any BHEL Unit, reference of the same shall be furnished and same may be applicable to this contract.
11	SECURITY DEPOSIT: The supplier shall have to furnish Security Deposit (Cash/DD/Bank Guarantee from a Scheduled Bank) if so specified in the tender under Special Terms & Conditions.
12	PACKING AND MARKING: The supplier shall arrange for secure protective packing of the goods suitable for tropical conditions to avoid loss, damage, atmospheric action during handling and transit. The packing standards will comply with relevant national standard/carrier's conditions of packing or established practice. If any damage is sustained and the carrier or underwriter attributes it to improper packing, the seller shall be liable to replace the material or reimburse the value of the loss notwithstanding any transit insurance arranged by him or not. The following marking shall be made on each package in black bold letters. NAME & ADDRESS OF CONSIGNEE, DIMENSION OF PACKAGE, WEIGHT DETAILS: GROSS, TARE & NETT These markings should be stenciled or written in bold letters on the package. Should the package be small, suitable cards/metal tags giving these details may be tagged or nailed
13	INSPECTION: Final inspection will be carried out the destination/site/Purchaser's works by the authorized inspecting Officer, if so specified in the tender under Special Terms & Conditions. Whenever preliminary or stage inspection is to be carried out at supplier's works the same is subject to final acceptance after receipt of the material at the destination/Purchaser's works and the decision of the purchaser shall be final. The propriety of goods shall not pass until final acceptance by the purchaser
14	REJECTION: The seller shall intimate the purchaser in writing within 15 days (after being intimated about rejection of goods) regarding disposal action of the rejected material. If no advice is received within this time the purchaser shall be at liberty to return the material at the cost and risk of the seller after receiving the cost if any paid by the Purchaser including inward freight and other incidental charges. The Purchaser will not be responsible for the rejected material thereafter and no claim will rest on him.
15	Delivery: Purchaser shall not be liable to receive and pay for any supply made after delivery date stipulated in the order unless the delivery date is formally extended by the purchaser. Wherever the terms of delivery of the order is other than F.O.R. destination, delivery date will be reckoned as the date of dispatch or the date of readiness after inspection of the material where the Purchaser has agreed for inspection or collection.
16	Test certificate: The seller shall carry out such tests as prescribed by the purchaser / as required in accordance to the relevant national or international standards, in his works and/or and other places as stipulated in the order. Necessary test certificate shall be submitted with delivery of materials. The seller shall also provide at no extra cost the required number of catalogues, drawing and other manuals related to materials under this order.
17	TERMS OF PAYMENT: Payment will normally be made within a month of receipt of material in good condition at destination. Any other payment terms have to be mutually agreed. The seller shall send dispatch documents, invoice etc. in such quantum and a manner as provided in the order. (I) It is expressly understood that in the event of rejection of the materials for which payment has been made against document's through bank the Purchaser reserves the right to claim from the seller the amount paid and the incidental charged incurred in the same manner i.e. negotiating return dispatch documents, through Bank and the Seller shall honour such claim and retire the documents from the Bank. (ii) Bank charges for any payment claimed through Bank shall be borne by the seller and the seller shall also agree to bear any demurrage or other charges arising out of any delay in retirements or documents from Bank due to delayed, insufficient incorrect information furnished. (iii) The seller shall also ensure that the Carriers do not delay dispatch of the consignment once the carrier's receipt is obtained.
18	GUARANTEE WARRANTY: The materials shall be warranted for design material and workmanship and also for performance warranty as specially stipulated by the purchaser in the order in its annexure.
19	INSURANCE: Wherever specifically agreed to and directed, the supplier will insure the goods for all transit risks upto delivery of the goods at the final destination. In all other cases supplier must furnish particulars of dispatch for each consignment immediately after the dispatch of goods. Failure to do this will make the supplier responsible for making good any loss, which otherwise might have been recovered from underwriters.

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20	<p><b>DELIVERY FAILURE, TERMINATION &amp; LIQUIDATED DAMAGE:</b> The parties hereto agree that the timely dispatch/delivery and completion of the other schedules as stipulated in order/contract shall be the essence of the Order/Contract. If the seller/contractor fails to complete the dispatch/ delivery and other schedules within the time period stipulated in the order/contract, or within any extension of time granted by the purchaser, it shall be lawful for the purchaser to recover damages for the breach of order/contract without prejudice to any other rights and/or remedies provided for, in order/contract and hereunder.</p> <p>The purchaser reserves the right to recover from the Seller/Contractor, as agreed liquidated damages and <b>not by way of penalty</b>, a sum equivalent to half percent {½% of the total contract price per week part thereof, subject to a maximum of ten percent @ 10%} of the total contract price excluding elements of taxes, duties and freight, if seller/contractor has failed to deliver any part of the goods within the period stipulated in the Order/Contract.</p> <p>The purchaser reserves the right to purchase from elsewhere on account of and at the risk and cost of the seller /contractor without notice to the seller /contractor of goods not so delivered or their equivalent , without canceling the order/contract in respect of the goods not yet due for delivery.</p> <p>The purchaser reserves the right to cancel the order/contract or a portion thereof for the goods not so delivered at the risk and cost of the seller/contractor and the seller/contractor shall be liable to the purchaser for any excess costs thereof.</p>
21	<p><b>RISK PURCHASE :</b> In the event the supplier has failed to deliver or dispatch whole of the goods or any part within the time stipulated or if the same were not available in his stock, the best and the nearest available substitute thereof may be purchased/arranged by purchaser from elsewhere at the risk and the cost of the seller. The purchaser at his option will be entitled to terminate the contract and seller shall be liable for any loss which the purchaser may sustain by reason of such risk purchases in addition to penalty at the rate mentioned in clause 20 above.</p>
22	<p><b>PREFERENTIAL DELIVERY :</b> It should be noted that if an Order is placed on a higher tenderer as a result of this invitation to tender, in preference to the lowest acceptable offer in consideration of the earlier delivery, the seller will be liable to pay the purchaser the difference between the contract rate and that of the lowest acceptable tender on the basis of final price F.O.R. destination including all elements of freight, sales tax, duties and other incidentals in case of failure to complete supplies in terms of such contract within the date of delivery specified in the tender and contract.</p>
23	<p>Purchaser reserves its right to the Public Enterprises price preference facilities as admissible under the Govt. of India policy from time to time.</p>
24	<p>This order or any part thereof shall not be sub-contracted without the purchaser's consent.</p>
25	<p><b>METRIC SYSTEM:</b> Supplier is requested to indicate metric system measurements in all documents.</p>
26	<p><b>INDEMNITY:</b> The Seller shall indemnify the Purchaser against any claim due to any breach of patent, negligence, defective material or injury to seller or his agent.</p>
27	<p>In the event of any reduction in the price, due to change of Govt. duties after award to the work and before delivery commencement, purchaser is entitled to such reduction and may negotiate fresh price at its discretion.</p>
28	<p><b>GENERAL:</b> The purchaser reserves the right to split up the tender and place orders for individual item on different suppliers and also increase or decrease the quantity.</p>
29	<p><b>DISPUTES &amp; ARBITRATION:</b> All cases of disputes will be resolved according to the Indian Arbitration Act 1940</p>
30	<p><b>FORCE MAJEUR:</b> Acts of God, Acts of Government, War, Sabotage, Riots, Civil commotion, Police action, Revolution, Natural Calamities, Epidemic and other similar causes over which the supplier has no control, will amount to Force Majeur. Delay attributable to Force Majeur will be condoned; however the onus of establishing the reason of delay lies with the Supplier.</p>
31	<p><b>Please Note:</b></p> <ul style="list-style-type: none"> <li>a) Tender Specification documents with complete details are hosted in web page (www.bhel.com). Bidders can directly download the same and use for submission of offer. Tender Document charges (Rs 2,000/-) shall be paid to BHEL positively along with or before submission of Offer.</li> <li>b) Interested bidders may alternately collect hard copy of Tender documents from this Office on all working days within the sale period on payment of Tender Document charges of Rs 2,000/- either by DD (in favour of BHEL payable at Nagpur) or cash. Courier charges will be Rs. 500/- extra if T.S. documents are requested through courier.</li> <li>c) BHEL takes no responsibility for any delay/loss of documents or correspondences sent by courier/post.</li> <li>d) BHEL reserves the right to accept or reject any or all tenders without assigning any reasons whatsoever.</li> <li>e) Dates of Price Bid opening will be intimated to Techno Commercially Qualified Bidders later.</li> </ul>

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	<p>f) All corrigenda, addenda, amendments and clarifications to Tender Specifications, revised Tender Submission Dates; etc will be hosted in the web page (<a href="http://www.bhel.com">www.bhel.com</a> → Tender Notifications → View Corrigendum) and NOT in the newspaper. Bidders shall keep themselves updated on all such updates.</p> <p>g) BHEL reserves the right to reject any tender on the basis of unsatisfactory performance of the bidder in any ongoing job or any similar job in the last seven years or for furnishing false information/declaration in the offer.</p>
32	<p>a) Timing of sale of Documents: Tender Specification documents will be issued from BHEL PSWR Nagpur office from 10:00 AM to 4:00 PM on all working days within the period specified in the NIT.</p> <p>b) <b>Holidays:</b></p> <ul style="list-style-type: none"><li>• Sale of Tender Documents shall not take place on National Holidays, holidays declared by the Central or State Governments, Sundays, second and last Saturdays and holidays of BHEL PSWR Nagpur HQ.</li></ul> <p>c) Seeking Clarifications on Tender Specification:</p> <ul style="list-style-type: none"><li>• Clarifications on the Tender Specifications, if any, may be sought by the bidders so as to reach this office at least seven days before the Due Date for submission.</li></ul> <p>d) Supporting Documents:</p> <ul style="list-style-type: none"><li>• Bidders shall submit documents in support of possessing “Qualifying Requirements” as under duly self-certified and stamped by the authorized signatory.</li><li>• Photocopies of Work Orders issued by the Customer containing details of Bill of Quantities/Schedule of Rates.</li><li>• Photocopies of Completion Certificate issued by Customer or Owner of Project.</li><li>• Photocopies of audited Profit &amp; Loss accounts, Balance Sheets, accompanied by relevant schedules for Turnover figures.</li><li>• LATE TENDER: Tender received after the specified time of submission shall not be considered in any circumstances.</li><li>• Offers must be submitted without any deviation</li><li>• Offers received with any deviation or without relevant information as described above are liable to be rejected. Price bids received in the form other than specified in Part-II (Price Bid) are liable to be rejected.</li><li>• Bidder must sign &amp; stamp all pages of this tender specification as an acceptance of tender conditions and must enclose this tender specification with their offer.</li></ul>
32	<p>In case of any contradictions between General and special terms and conditions, the provisions in Special Terms &amp; Conditions will prevail.</p>

Yours faithfully,  
For BHARAT HEAVY ELECTRICALS LTD.

Sr. Engineer (PURCHASE)

**B) SPECIAL TERMS AND CONDITIONS OF CONTRACT**

Clause No	Item Description
01	<p><b><u>QUALIFICATION REQUIREMENT:</u></b></p> <p><b>Bidder must fulfill all the Qualifying Requirements (i.e. a, b, c, d) as under in order to be considered as technically qualified for this Tendering process:</b></p> <p><b>a)</b> Bidder must have, in last two years as on 31/10/2011, executed any one of the following ( i.e. a1 or a2 ):</p> <p style="padding-left: 40px;">a.1) Supplied Porta Cabins to any Unit of BHEL for a value not less than 64 Lakhs, in a Single Order</p> <p style="text-align: center;">or</p> <p style="padding-left: 40px;">a.2) Supplied Porta Cabins to any Government, Semi Government/ or any other Customer for a quantity of not less than 14 numbers in any one Purchase Order.</p> <p style="text-align: center;"><b>AND</b></p> <p><b>b)</b> Bidders must have achieved an Average annual financial turnover of <b>Rs. 65 Lakhs</b> or more over last three Financial Years i.e. 2008-09, 2009-10 &amp; 2010-11.</p> <p style="text-align: center;"><b>AND</b></p> <p><b>c)</b> Net worth of the Bidder based on the latest Audited Accounts as furnished for 'b' above should be positive.</p> <p style="text-align: center;"><b>AND</b></p> <p><b>d)</b> Bidder must have earned cash profit in any one of the three Financial Years as applicable in case of 'c' above based on latest Audited Accounts.</p> <p>=====</p> <p><u>Explanatory Notes for QR 'a'</u></p> <ol style="list-style-type: none"> <li>1. The word 'executed' means the bidder should have achieved the criteria specified in the QR even if the total contract has not been completed or closed</li> <li>2. Porta Cabins means "Self contained, furnished, ready to use Portable cabins" of steel fabricated framework.</li> <li>3. Bidder shall submit the Purchase Order along with proof of completion in favour of QR (a).</li> </ol>
02	<p><b><u>Fulfillment of Qualifying Requirements:</u></b></p> <p>A bidder must satisfy all the Qualifying Requirements stipulated under 'a', 'b', 'c' and 'd' of this Specification, concurrently in order to get qualified.</p>
03	<p><b><u>Earnest Money Deposit (EMD):</u></b></p> <p>Refundable, Non-interest bearing EMD of Rs.1,50,000/- (Rupees One Lakh Fifty Thousand) is applicable for this Tender. EMD shall be paid ONLY by Account Payee Demand Draft in favour of "Bharat Heavy Electricals Limited" payable at Nagpur.</p>
04	The bidder shall submit all documents as called for in the Technical specifications.
05	Bidder should furnish an undertaking for the product support along with uninterrupted and timely supply of fittings for at least 3 years for the quoted item.
06	The offer of the bidder giving unsolicited discount at any stage after the technical bid opening will be rejected.

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07	EVALUATION: - Offers will be evaluated based on total price of all the porta cabin required at a site and also <b>by considering the input credit of ED offered by the vendor (i.e. total landed cost of all the porta cabin of a particular site including taxes, duties and freight <u>minus</u> ED paid for the same).</b>
08	Bidder must confirm whether Excise Invoice shall be given or not. In case bidder confirms that excise invoice shall be given, then the evaluation of bid shall be on the basis landed cost to BHEL excluding Excise Duty.
09	Security Deposit is not applicable for this Enquiry
10	Payment Terms : a) 90% of basic + 100% taxes, duties and freight shall be payable for the Porta cabin supplied at Site in good physical condition after acceptance of installation at site. b) 10% after completion of warranty period of 1 year
11	Incomplete offer shall not be considered for evaluation and shall be rejected.
12	Bidder should submit the complete set of our Enquiry duly signed and stamped along with their offer as an acceptance of terms & conditions.
13	The offers of the bidders who are on the banned list as also the offer of the bidders, who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL web site ( <a href="http://www.bhel.com">www.bhel.com</a> ---> Tender Notification -> List of Banned Firms )

Thanking you,

Yours faithfully,  
For BHARAT HEAVY ELECTRICALS LTD.

Sr. Engineer (PURCHASE)

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**Signature & Seal of Tenderer**

## CERTIFICATE OF NO DEVIATION

**TENDER SPECIFICATION No. : XI037 E**

**I/WE, M/s .....**

HEREBY CERTIFY THAT NOT WITHSTANDING ANY CONTRARY INDICATIONS / CONDITIONS ELSEWHERE IN OUR OFFER DOCUMENTS, I/WE HAVE NEITHER SET ANY TERMS AND CONDITIONS NOR THERE IS ANY DEVIATION TAKEN FROM THE CONDITIONS OF BHEL'S TENDER SPECIFICATIONS, EITHER TECHNICAL OR COMMERCIAL, AND I/WE AGREE TO ALL THE TERMS AND CONDITIONS MENTIONED IN BHEL'S TENDER SPECIFICATION WITH ASSOCIATED AMENDMENTS & CLARIFICATIONS.

SIGNATURE OF THE TENDERER

DATE:

**TECHNO-COMMERCIAL TERMS & CONDITIONS: (PART OF TECHNICAL CUM COMMERCIAL BID)**

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SN	DESCRIPTION OF T & C	TERMS & CONDITIONS AS QUOTED IN THIS TENDER
01	DELIVERY TERMS	F.O.R.DESTINATION
02	PLACE OF DELIVERY	<b>BHEL Site Office, Visa Power Limited Project, Dist: Raigarh, Chattisgarh</b>
03	DELIVERY PERIOD FROM THE DATE OF ORDER	01 MONTH
04	CURRENCY OF PAYMENT	INR
05	PACKING & FORWARDING CHARGES	INCLUDED@_____ % / EXTRA @ _____ % / NOT INCLUDED
06	EXCISE DUTY ( % RATE)	INCLUSIVE@_____ % / EXTRA @ _____ % / N.A.
07	EXCISE DUTY INVOICE (FOR CENVAT BENFIT)	<b>SHALL BE PROVIDED/ NOT PROVIDED</b>
08	<b>VAT/CST WITHOUT C OR D FORM</b>	<b>FOR Chattisgarh-Included @_____ % (or)</b> Extra@_____ % (or) Not Applicable  <b>NO "C" OR "D" FORM WILL BE ISSUED BY BHEL</b>
09	OCTROI / ENTRY TAX AT DESTINATION	<b>EXTRA, IF APPLICABLE SHALL BE PAID BY BHEL ON PRODUCTION OF ORIGINAL OCTROI RECEIPT.</b>
10	FREIGHT CHARGES UP TO DESTINATION	QUOTED EXTRA@_____ % / INCLUDED IN COMPOSITE PRICE <b>BIDDER TO INDICATE APPLICABLE PERCENTAGE/PRICE IN THE PRICE BID CLEARLY.</b>
11	TRANSIT INSURANCE CHARGES	BY BHEL. SUPPLIER HAS TO INTIMATE THE DISPATCH DETAILS TO BHEL'S UNDERWRITERS AS SOON AS THE MATERIAL DISPATCHED.
12	ANY OTHER CHARGES (please specify here the nature of charge)	<b>(AMOUNT TO BE SPECIFIED IN THE PRICE FORMAT)</b>
13	PAYMENT TERMS (Specify scope of Banker's Charges at both ends / Demand Draft Charges)	<b>REFER SPECIAL TERMS &amp; CONDITIONS</b>
14	MODE OF DISPATCH	BY ROAD
15	NAME OF THE GOODS MANUFACTURER / PRINCIPALS	
16	TRADE NAME / MODEL NUMBER OF GOODS	
17	AUTHORIZED DEALERSHIP CERTIFICATE	CERTIFICATE OF MANUFACTURER/PRINCIPALS: ENCLOSED / NOT ENCLOSED
18	WARRANTY / GUARANTEE CONDITIONS	SHALL BE AS SPECIFIED UNDER WARRANTY CLAUSE IN TECHNICAL SPECIFICATION.
19	PRODUCT CATALOGUE / WRITE UP	ENCLOSED / NOT ENCLOSED.
20	CONTACT PERSON'S NAME TEL/MOB No. e-mail id	

SIGNATURE & SEAL OF TENDERER

**(This sheet should be duly filled, signed and sent as a part of technical bid. Otherwise the offer will not be considered for further processing)**



**PRICE FORMAT**

**BHARAT HEAVY ELECTRICALS LIMITED  
POWER SECTOR: WESTERN REGION: NAGPUR**

NAME OF THE TENDERER: \_\_\_\_\_

SELLER'S REF. No. \_\_\_\_\_ DATE : \_\_\_\_\_

ENQUIRY No.: XI037 E

DATED: 09.11.2011

DUE DATE: 18.11.2011

S.N.	DESCRIPTION	TYPE A	TYPE B	TYPE C	TYPE D	TYPE E	TYPE F	TYPE G	TYPE L
A	ITEM DESCRIPTION AS PER ENQUIRY								
B	QTY OFFERED	1	5	3	1	1	1	1	4
C	UNIT RATE								
D	CURRENCY								
E	DISCOUNT IF ANY (%AGE)								
F	DISCOUNT AMOUNT (in Rupees)								
G	DISCOUNTED BASIC PRICE (G = C - F)								
H	PACKING & FORWARDING CHARGES								
I	EXCISE DUTY (PERCENTAGE AND AMOUNT)								
J	EXCISE INVOICE FOR CENVAT BENEFIT								
K	CST / VAT WITHOUT C-FORM (PERCENTAGE & AMOUNT)								
L	FREIGHT UPTO DESTINATION								
M	TRANSIT INSURANCE								
N	OCTROI CHARGES / ENTRY TAX AT DESTINATION	BHEL ACCOUNT	BHEL ACCOUNT	BHEL ACCOUNT	BHEL ACCOUNT	BHEL ACCOUNT	BHEL ACCOUNT	BHEL ACCOUNT	BHEL ACCOUNT
O	<b>TOTAL PRICE AT DESTINATION ( SUM of 'G' to 'N')</b>								
P	TOTAL OF ALL TYPE OF PORTA CABIN(TYPE A+TYPE B+TYPE C+TYPE D + TYPE E +TYPE F +TYPE G +TYPE L) = Rs								

**NOTES:**

- PLEASE USE ADDITIONAL SHEETS IF NECESSARY
- FURNISH FURTHER BREAK UP OF PRICE, IF NECESSARY

**SIGNATURE OF THE TENDERER WITH SEAL**

**ANNEXURE-I****Specification of Porta Cabin****1. APPLICATION:**

Porta Cabins shall be used as offices, office cabins, security cabins, conference hall, dining hall etc. in the outdoor condition in such a fashion that it will be construed as office buildings. This shall be placed in the outdoor and dust laden atmosphere. And also will be subjected to heavy rain and winds. These shall be used by office people for office work, as well as pantry and as well as conference halls & various types of cabins of executives and other people.

**2. WORK / JOB DETAILS:**

Porta cabins will basically be utilized as a replacement of costly and time taking Civil constructions at sites such as office for Construction Manager, Sr. Executive, Field Staff, Documents storage, Security, etc. Also, after their use for a period of 06 months to 03 years, these will be dismantled, transported and deployed at other site.

**3. PHYSICAL CONSTRUCTION:**

These shall be broadly constructed as per details given below:

**3.1 Frames:****3.1.1 Base Frame (Outer frame):**

150mm especially Pressed formed profile of appropriate geometry made of MS sheet (IS 10748 or equivalent) 2.5mm Thick (virgin quality only).

**3.1.2 Stiffeners for base frame:**

75mm x 40mm Pressed formed rectangular hollow Section made of MS sheet (IS 10748) 2.5mm Thick (Min. 3 rows in longitudinal side & 4 rows transverse side)

**3.1.3 Roof top frame (Main outer frame):**

150mm especially Pressed formed profile of appropriate geometry made of MS sheet (IS 10748 or equivalent) 2.5mm Thick.

**3.1.4 Stiffeners (for Top frame):**

50 x 25 x 2.5mm (transverse direction min. 4 rows) & 32 x 32 x 2mm (longitudinal direction min. 3 rows) Pressed formed hollow section made of MS sheet (IS 10748)

**3.1.5 Corner Posts:**

Pressed formed square hollow section of 3.15mm thick M.S sheet of section 91 X 91 X 31.5 mm.

**3.1.6 Side/vertical intermediate Post & horizontal stiffeners:**

Especially Pressed formed profile of appropriate geometry made of 2.0 mm thick M.S sheet for holding wall paneling (compressed sandwich panel) ,all fitting & fixtures including AC and Over Head cabinets etc.

**3.1.7 Lifting Hooks & Base Plates:**

Necessary lifting hooks for loading, unloading shall be provided. All the corner post shall have min. 16mm thick base plate of size 250mmx250mm on both top and bottom.

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**Signature & Seal of Tenderer**

**3.2 Paneling:****3.2.1 Main Wall paneling:**

The interior shall be aesthetically finished to give custom built appearance with good workmanship. Main Wall Paneling shall be of **CONTINUOUS SANDWICHED PANEL (CSP)** with **PUF (Polyurethane Foam)** insulation of density  $40 \pm 2 \text{ Kg/M}^3$  and overall thickness 60mm with 0.5mm thick **PPGI** (pre painted galvanized iron) sheet of approved color (preferably light gray color) on both sides. An additional off-white colored wall paneling of 8mm thick hollow extruded polymeric section (syntax or Equivalent) with tongue and groove arrangement on inner surface of **CSF** panel to be fixed with suitable anti-corrosive frame grid arrangements. All electrical wiring shall be concealed with PVC conduit between CSF and Inner polymeric panel

**PPGI sheet make shall be ISPAT INDIA LIMITED/ JSW or Approved Equivalent.**

**3.2.2 Roof:**

Roofing shall be of **50mm thick PUF** insulation of density  $40 \pm 2 \text{ Kg/M}^3$  with 0.5mm thick **PPGI** (pre painted galvanized iron) sheet of approved color (preferably light gray color)

**PPGI sheet make shall be ISPAT INDIA LIMITED/ JSW or Approved Equivalent.**

**3.2.3 False ceiling:**

The false ceiling shall be made out of anti corrosive painted 19mm square hollow section design to fix to the roof frame with suitable hangers. **The clear height of ceiling shall be 8 ft. from the finished floor level.** Cut out should be made properly wherever necessary for fixing electrical fitting. False ceiling shall be done with 8mm thick hollow extruded polymeric section (syntax or Equivalent) with tongue and groove arrangement. The color of Ceiling should match with inner wall panels.

**3.2.4 Partition:**

Partition frame to be made out of anticorrosive painted 25 mm hollow square section of 16 SWG thicknesses as per IS-4923 and double side paneling with polymeric section of minimum thickness 6 mm. These panels are to be joined together by tongue and groove using self tapping screws. The color of PVC partition should match with wall panels. **Doors for partition of height 6 feet (wherever required)** should be polymeric fully open able air tight doors with proper accessories, and locking arrangement etc. Bunk house Cabin Type –A shall have full partition with PVC doors and vision panels (Ref. drawings).

**3.3 Furniture for work station:****3.3.1 Tables:**

Layout and dimensions of tables for different types of cabins shall be as per drawings. Materials shall be extruded polymeric panel (PVC) as per IS 10151/1982 of 25mm thick with proper supporting legs and clamping arrangement with wall frame.

**3.3.2 Overhead cabinets:**

Layout and dimensions of overhead cabinets for different types of cabins shall be as per drawings. Materials shall be extruded polymeric panel (PVC) as per IS 10151/1982 of 25mm thick with proper locking and fixing arrangement with wall frame. It should be strength enough to take load of files.

**3.4 Bottom flooring:**

The floor shall consists of min. 0.80mm thick **PPGI** (pre painted galvanized iron) sheet as outer most Skin followed by 25mm thick marine plywood conforming to IS: 710. The plywood shall be finally covered with 1mm thick Vinyl sheet of approved Texture and color.

**PPGI sheet make shall be ISPAT INDIA LIMITED/JSW or Approved Equivalent.**

**3.5 Rain water gutter:**

Especially Pressed formed profile of appropriate geometry made of 2.0 mm thick M.S sheet for Rain water gutter with having min 65mm diameter of GI rain water down comer connected with L bow (Ref. drawings).

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**3.6 External Doors and Windows:****3.6.1 Windows:**

Glazed sliding type windows of required dimension as per drawing shall be made out of PVC extruded sections with horizontal two track sliding. Windows shall be fitted with 4mm thick Tinted Glass with proper locking arrangement. Safety aluminum Grills/ guard bars of suitable sections shall be provided in all windows. Window sill shall be decided as per the height of work station. All Windows shall be fitted with Rain-shed (canopy) made from 1.0 mm thick color coated sheet. Canopy shall be folding type with proper holding and locking arrangement and shall be used as a protective cover to the glazed window at the time of transportation.

**3.6.2 M.S Doors:**

M.S. frame shall be made from pressed steel using CR (corrosion resistant) Steel of 1.5mm thick. Door shutter shall be made of suitable M.S. Frame covered with 0.5mm thick PPGI sheet both side with PUF insulation (density  $40 \pm 2 \text{ Kg/M}^3$ ) so as to match with wall panel. High Quality Mortice Lock, Aldrop, Stopper, Handle & other accessories shall be provided.

**Location of the door shall be as per the drawings**

**4. CAPABILITIES AND FEATURES:**

All cabins shall be made to withstand heavy & continuous rains, turbulent wind, and summer hot temperature up to 50 deg. centigrade and dust laden atmosphere. For making these heat effective suitable paint from outside to be done such as white paint.

**5. ACCESSORIES:****5.1 Electrical Installation, Telephone and Data cabling:****5.1.1 Main electric supply (Normal 3 Ph, 4 wire supply)**

Main electrical inlet shall be through Cutler, Hammer make IP-55 certified 5 Pin welding socket (63Amp). All wiring shall be done with Finolex / Anchor Make FRLS multi-strand copper wire and cable of concealed type (refer wall paneling details) for wiring. The wiring of Air Conditioner (AC) should be 6 Sq.mm and for lighting/Fans should be 4 Sq.mm. One main incoming distribution board (3Ph-4 wire) should be provided in each cabin with 1 No. ELCB along with 63 Amps 3 pole MCB and individual MCBs for light, fans and AC. All MCBs shall be housed in metal enclosure. UPS power supply. Main wire entry should be from the opposite side of the entry door.

**5.1.2 UPS power supply**

UPS inlets supply shall be through Cutler, Hammer make IP-55 certified 5 Pin welding socket (63Amp). These sockets should be mounted on outside wall of the cabin and further connected to Main distribution board inside the cabin having provision of incoming MCB 32Amps, 2 Pole and MCB at each sitting arrangement including internal wiring from Main Board up to the switch socket for further distribution. All wiring shall be done with Finolex/Anchor Make FRLS multi-strand copper wire 2.5mm square cable of open type with using proper channel (PVC - C section channel) closer for wiring.

**5.1.3 Telephone and Network cabling:**

One (1) No. Junction Box with Lock and Key should be mounted outside the Cabin for connecting to external telephone lines and network data cables. The junction Box should have provision for connecting at least four telephone lines and for connecting external network cabling type CAT-6. The cable should be terminated on Krone connectors and should be wired to the Telephone, outlets inside the cable. One (1) No. 8 port D-Link switch should be mounted inside the cabin and further internal cabling shall be done with CAT-6 cables. Cabling from D-Link switch to users nodes is within the scope of work.

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**5.1.4 Electrical Fittings:**

Electrical fittings for different type of cabins are as per given table:

Sl. No.	Item Name	Unit	Type of Bunk House						
			A	B/E	C	D	F	G	L
1	Air conditioner -1.5 T capacity	Nos.	2	1	1	2	1	1	0
2	Tube light CFL type	Nos.	3	3	3	6	3	3	1
3	Fan	Nos.	2	2	2	4	2	2	1
4	Main power distribution board.	Nos.	1	1	1	1	1	1	1
5	UPS power distribution board.	Nos.	1	1	1	1	1	1	1
6	Main power inlet 5 pin socket.	Nos.	2	2	2	2	2	2	2
7	Telephone and network crone box	Nos.	1	1	1	1	1	1	1
8	Bulb head fitting CFL type.	Nos.	1	1	1	1	1	1	1
9	24 port D-Link switch for networking.	Nos.	1	1	1	1	1	1	1
10	Switch board for Computer, UPS, telephone and networking point	Nos.	2	6	8	8	8	1	1

**5.2 Marking/Identification/Name Plate:**

Each Unit shall be marked externally with the followings:

- Name & address of Manufacturer
- Type and Serial No. (Serial no. should be as per SN-19 of Special Condition of Contract)
- Max. Permissible distributed floor loads
- Max. External size
- Max. Weight of unit for lifting
- Position of lifting & anchoring points
- Suitability of stacking
- BHEL Logo: The Main Door should carry a logo of BHEL made of stainless steel embossed.

**6. INPUT CONDITIONS:****6.1 Main electric supply:**

AC 3 Ph, 4 wire commercial /DG supply shall be provided by BHEL.

**6.2 Foundation:**

Suitable foundation shall be done by BHEL. Foundation requirement shall be given by bidders at with the price bid.

**7. Standard:**

As per DIN/ISO / ANSI / BIS / BS Standard.

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**8. Environmental Conditions:**

Weather conditions are tropical, atmosphere may be dust laden during some part of the year.

Ambient Conditions: Temperature = 5 to 50 degree Celsius

Relative Humidity = 95% max.

Max. Temperature variation is up to 25 deg Celsius in 24 hours.

No hazardous chemicals shall be required to be used in the manufacturing of cabins.

All Cabin interiors shall be made eco friendly and withstand in all weather conditions such as heavy rain, turbulent wind, hails, summer hot sun and dust laden etc.

**9. Scope of work & supply:****9.1 Scope of Work:**

Design, Engineering, Supply, Transportation and Installation over the foundation/platform (provided by BHEL) in all respects including fittings, fixtures, accessories, electrification, sanitary, plumbing etc. at various construction sites (in the state of Maharashtra, M.P., Gujarat, Chhattisgarh (C.G.), U.P., Rajasthan, Bihar, Goa etc.)

**9.2 Scope of supply:**

Bidders shall supply Porta cabin as per given schedule (time & destination).

**10. Pre-dispatch inspection/testing (at Supplier works)****10.1 Shop Inspection:**

Periodical inspection of process at least at three stages: –

- a) During welding process of main frame for inspection of materials & welding quality.
- b) At internal & external paneling & insulation.
- c) At Furnishing, electrocutions & finish paint.
- d) Checking of quality records

**Minor modifications, if any, required to be carried out which will be specified during the stage of inspection/manufacturing process. Rates quoted should consider this aspect also.**

**10.2 Testing of CSP Panel:**

Successful bidder (after award of tender) shall submit the test certificates like Fire test & Impact test for CSP panels from recognized Govt. institution / CBRI (Central Building Research Institute, Roorkee). The mentioned tests are indicative only. Any additional tests relevant to this product shall be submitted. The certificates shall be submitted during manufacturing of CSP panels.

**10.3 Rain Test:**

Bidder shall make necessary arrangement to carry out rain test to check water seepage from inside the cabin, on sampling basis however vendor to do the test on all cabins & furnish the records.

**11. Tooling:****11.1 Tool Box:**

Suitable tool box to be fitted in each cabin, tool box should consist of dismantling & assembly of accessories such as lights, fans, air-conditioners etc.

**11.2 First aid box:**

First aid box without medicine should be fitted at appropriate location in each cabin.

**12. Erection and Commissioning:**

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During the first installation( for each cabin) at site, manufacturers shall depute their technician to check placement of cabins over the pedestal, all fittings, fixtures and electrical installation, Air conditioner, fans, lights etc. and to ensure successful operation of Bunk House at site. Minor wear and tear occurred during transit which involves denting and painting shall be done by Manufacture free of cost. Suitable Quantity of touch up paint should be supplied.

**13. Final Inspection**

Final inspection shall be carried out after erection & commissioning which includes proper functioning of all accessories such as Air conditioner, fan, lights, switch boards & operations of all windows and door locking etc.

**14. Guarantee:**

- One year warranty for workmanship & materials.
- Three years for painting as per European scale of rusting RE3 (10% of total surface). However normal wear & tear and damage by external impact etc. are not covered.

**15. Training/Familiarization at BHEL Site:**

Supplier shall give familiarization training to BHEL personnel at site regarding general maintenance and safety precautions and dismantling of fans, lights, Air conditioners, fire extinguishers and other fitments etc.

**16. Safety and environment:**

Suitable no. of portable Fire Extinguisher (for all types of fire) shall be provided in each cabin at appropriate location with all fitting and fixtures. The pressure capacity of Fire Extinguisher shall be 2.5 Kgf. (to be supplied in the offer).

And also, suitable safety provisions to be inbuilt for safety of the working personnel and for the safety of equipment & other items.

**17. Documents required by BHEL (with the delivery):**

- Supplier shall provide 02 sets of user manual and part catalogs per set of Porta cabin. User manual should consist of electrical circuit diagrams of each type of cabin.
- Also spare part manual to be supplied indicating each construction part and source of B.O. items with their Part No. / Model No.

**18. Experience clause/ Performance certificate:**

Bidder shall submit the certificate of similar works carried out by providing copies of work order and at least one performance certificates from customers for more than one year usages.

**19. Customer list and reference:**

Bidders shall submit the list of their customers for whom the similar works done or in process.

**20. Painting:**

The All Exposed Structural frame shall be painted with one coat primer and two coat enamel paint with white color.

Primer coat shall be red oxide 35 micron DFT and synthetic enamel paint shall be 50 micron DFT of two coats of Asian/ Burger make. Total dry film thickness (DFT) of finished paint should not be less than 135 micron including primer.

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**21. Packing & Dismantlability:**

All the interior fittings/accessories (air conditioner & fans etc.) shall be easily removable which can be packed separately during transportation from one site to another.

**22. Lifting provisions:**

Necessary lifting hooks for loading, unloading shall be provided. All the corner post shall have min. 16mm thick base plate of size 250mmx250mm on both top and bottom.

**23. Anchoring provision:**

Necessary anchoring lugs shall be provided at suitable places for grouting on the floor and lugs for fastening over trailers during transportation.



**ANNEXURE-II**

Type	Description	Quantity (in Nos.)
A	Construction Manager	1
B	Sr. Executive Cabin	5
C	Field Cabin	3
D	Conference	1
E	Finance Cabin	1
F	System & Computer	1
G	Documentation	1
L	Security Cabin	4
Total		17

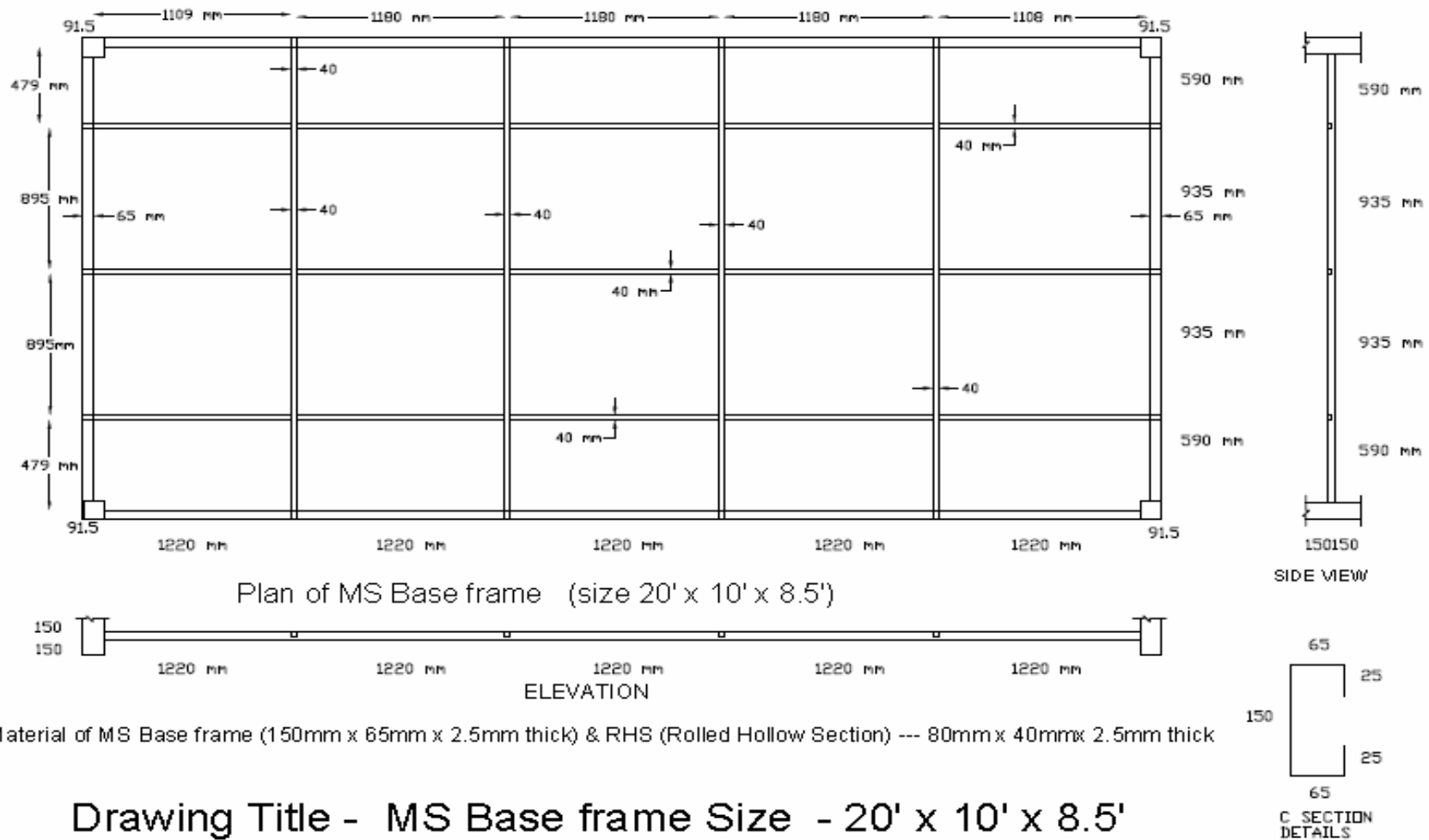
Sr. Engineer (PURCHASE)

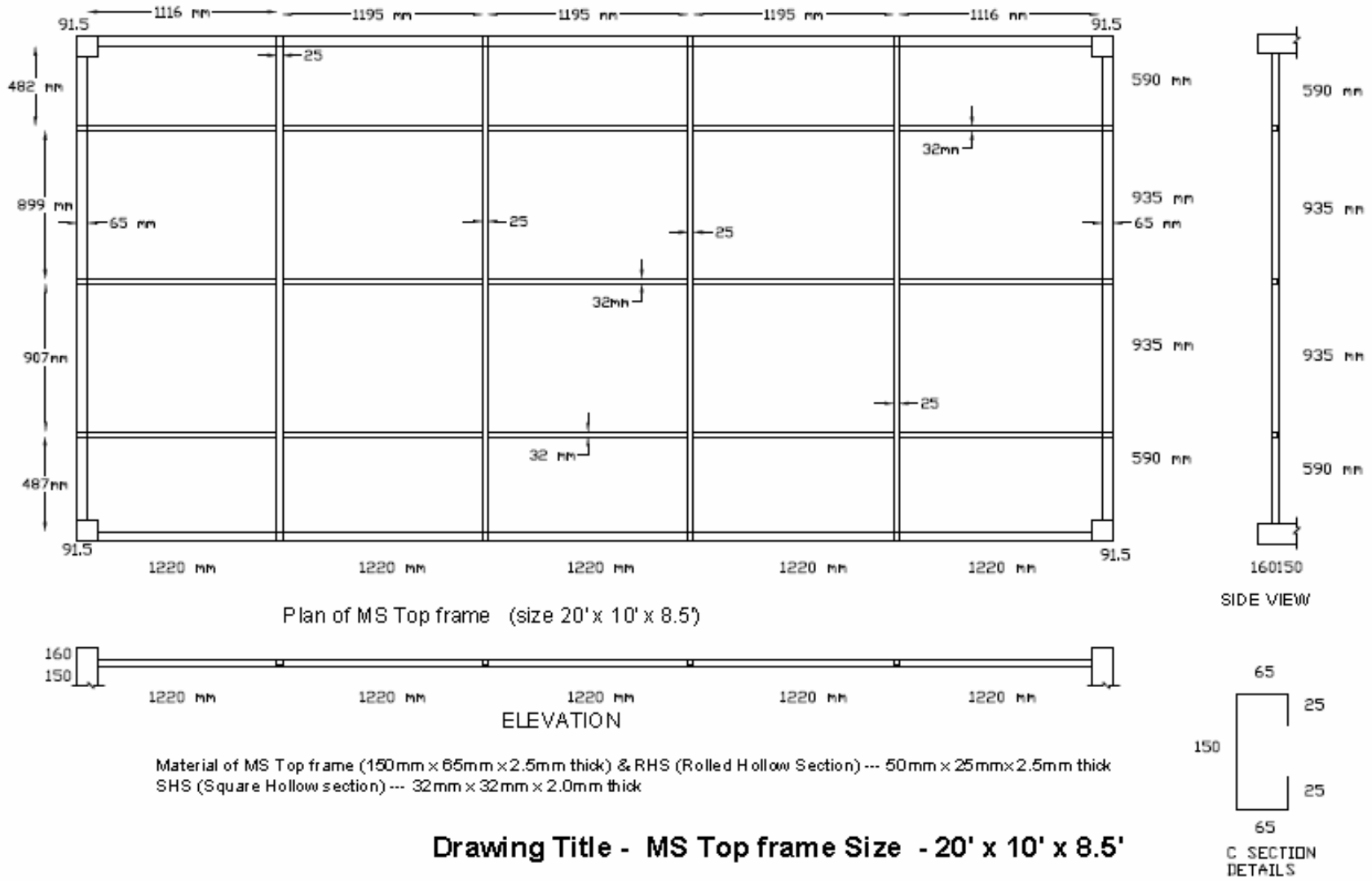
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Signature &amp; Seal of Tenderer

viii

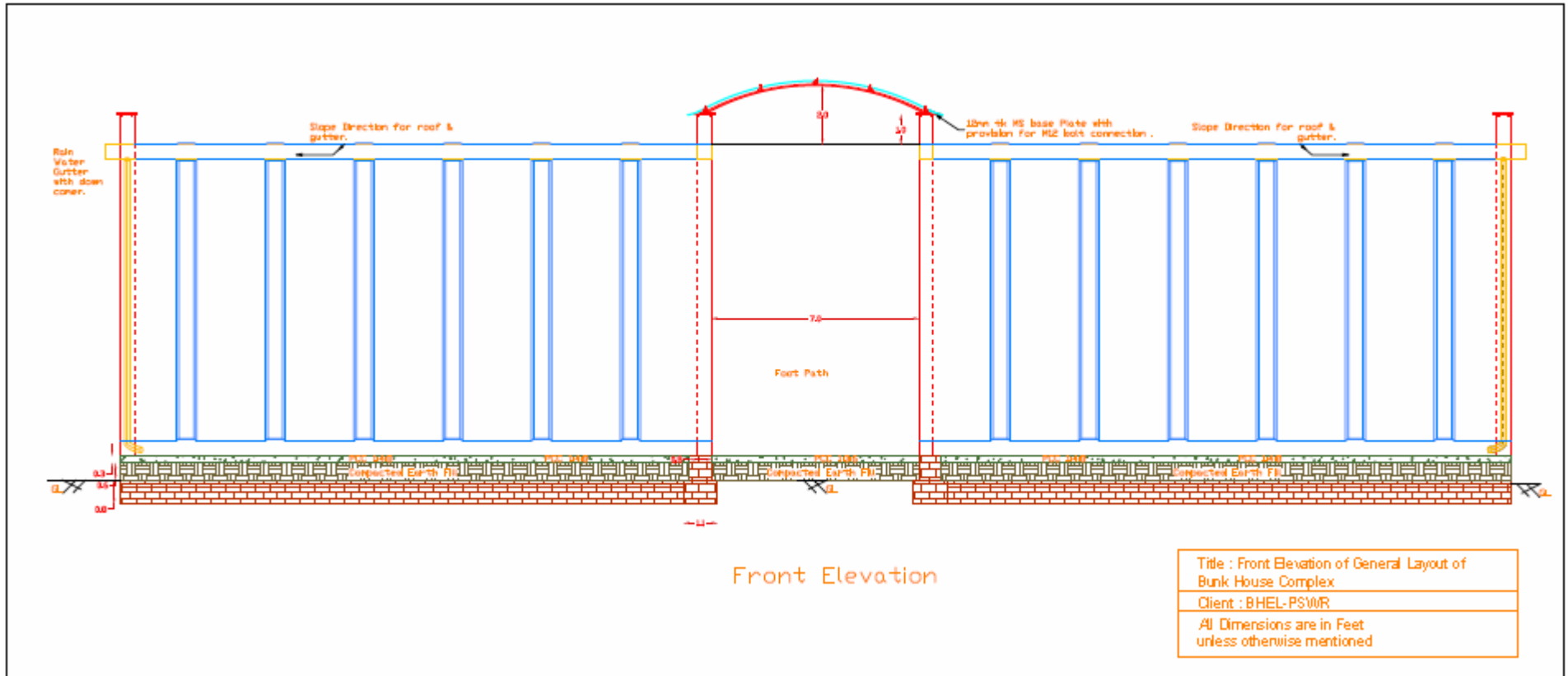
**ANNEXURE-III**





## ENQUIRY NO.XI037 E

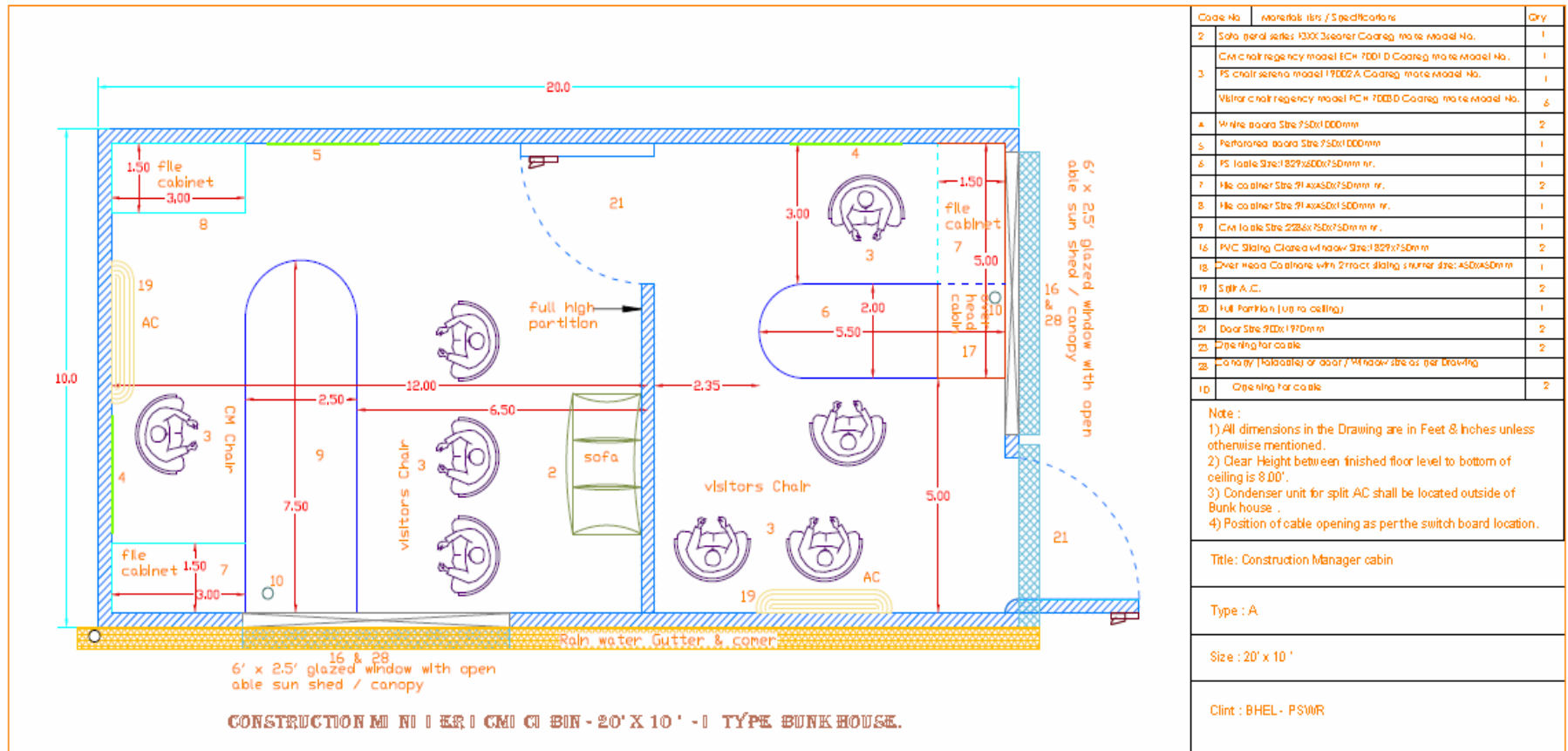
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**BHARAT HEAVY ELECTRICALS LIMITED**  
**PSWR-NAGPUR-440001**  
**DT. 09.11.2011**

ENQUIRY NO.XI037 E

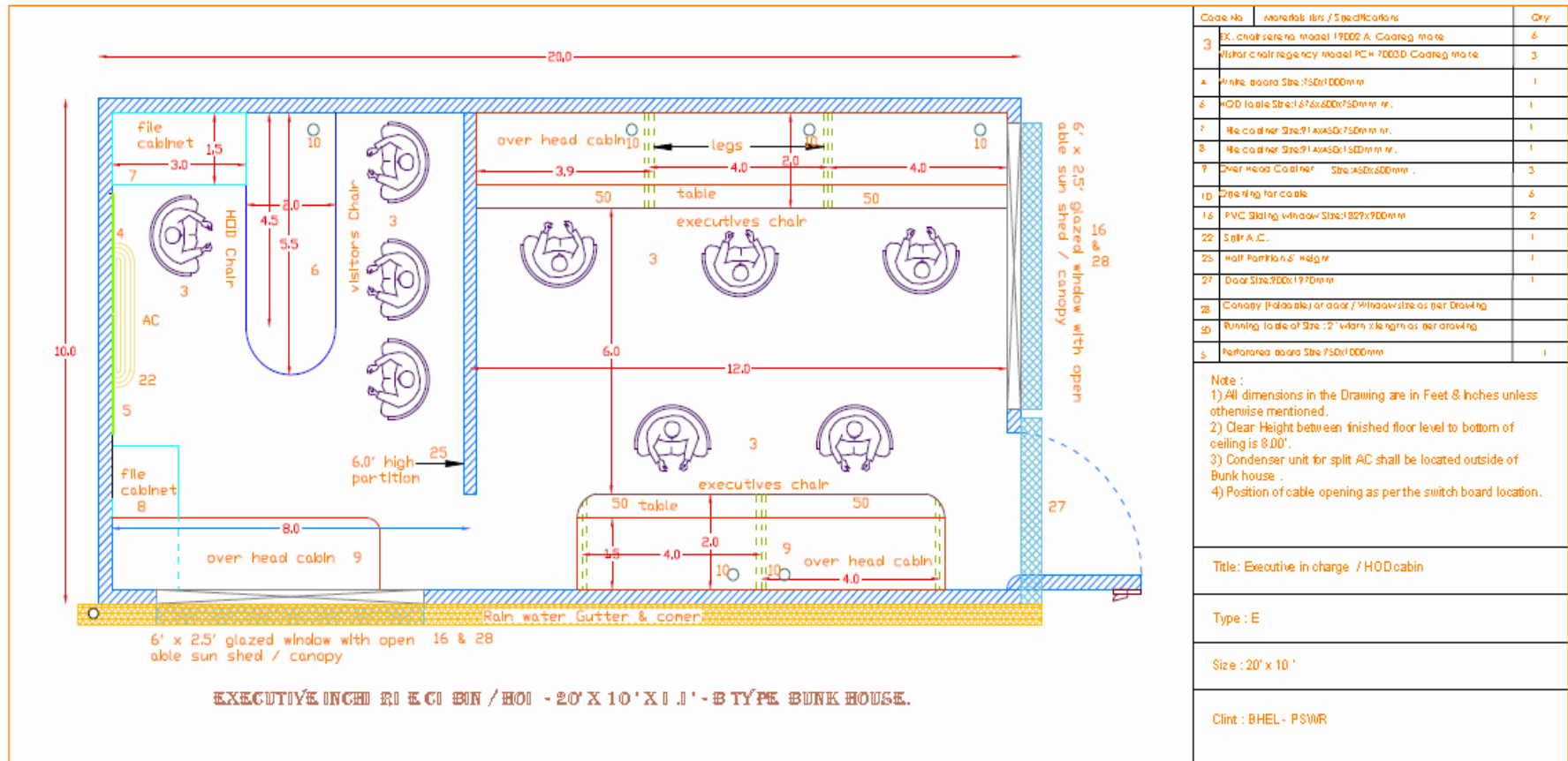
DUE DATE: 18.11.2011

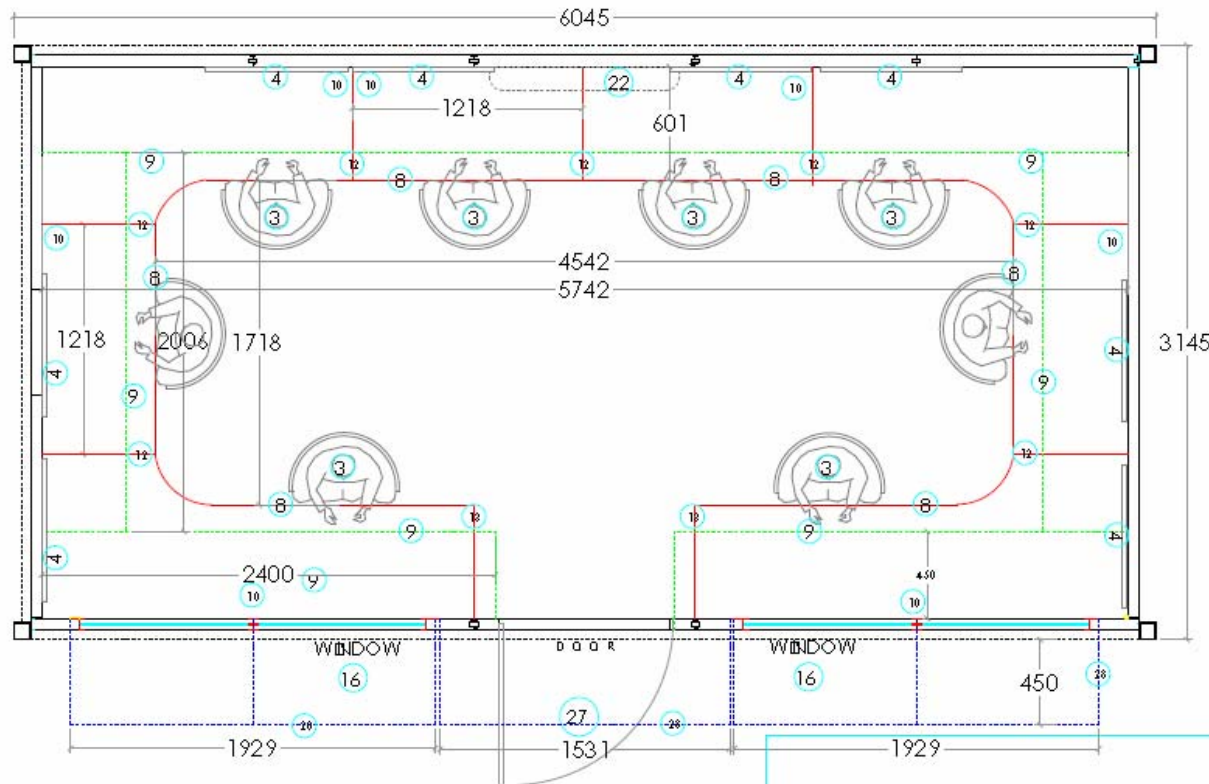


**BHARAT HEAVY ELECTRICALS LIMITED**  
**PSWR-NAGPUR-440001**  
**DT. 09.11.2011**

ENQUIRY NO.XI037 E

DUE DATE: 18.11.2011





3	Motor/Staff chair regency model PCH 7002D Godre make.	8
4	White board Size 750x1000mm	8
8	Running Table Size as per Drawing.	2
9	Over Head Cabinete Size as per Drawing.	
10	Opening for cable	8
12	Table partition wall 450mm height from top table surface	7
18	Partition wall up to bottom of Over head cabinete	2
16	PVC Sliding Glazed window Size 1829x750mm	2
22	Split A.C.	1
27	Door Size 500x1970mm	1
28	Canopy (Foldable) at door / Window size as per Drawing	

Note:  
1) All Notes shall be followed as per other drawings

Field Cabin/Staff Size: 20'x10'---- Type: C

BHEL PSWR



Architectural drawing of a Conference Hall. The room is rectangular with a central table and chairs. Dimensions are provided for various elements: 16' 0" 28" for the top and bottom walls, 27' 0" 28" for the side walls, and 22' 0" 28" for the side walls. The drawing includes a central table with chairs, a whiteboard, a door, and a window. The drawing is labeled "CONFERENCE HALL 11-10' X 10' - 1 TYPE BUNKHOUSE".

Note :

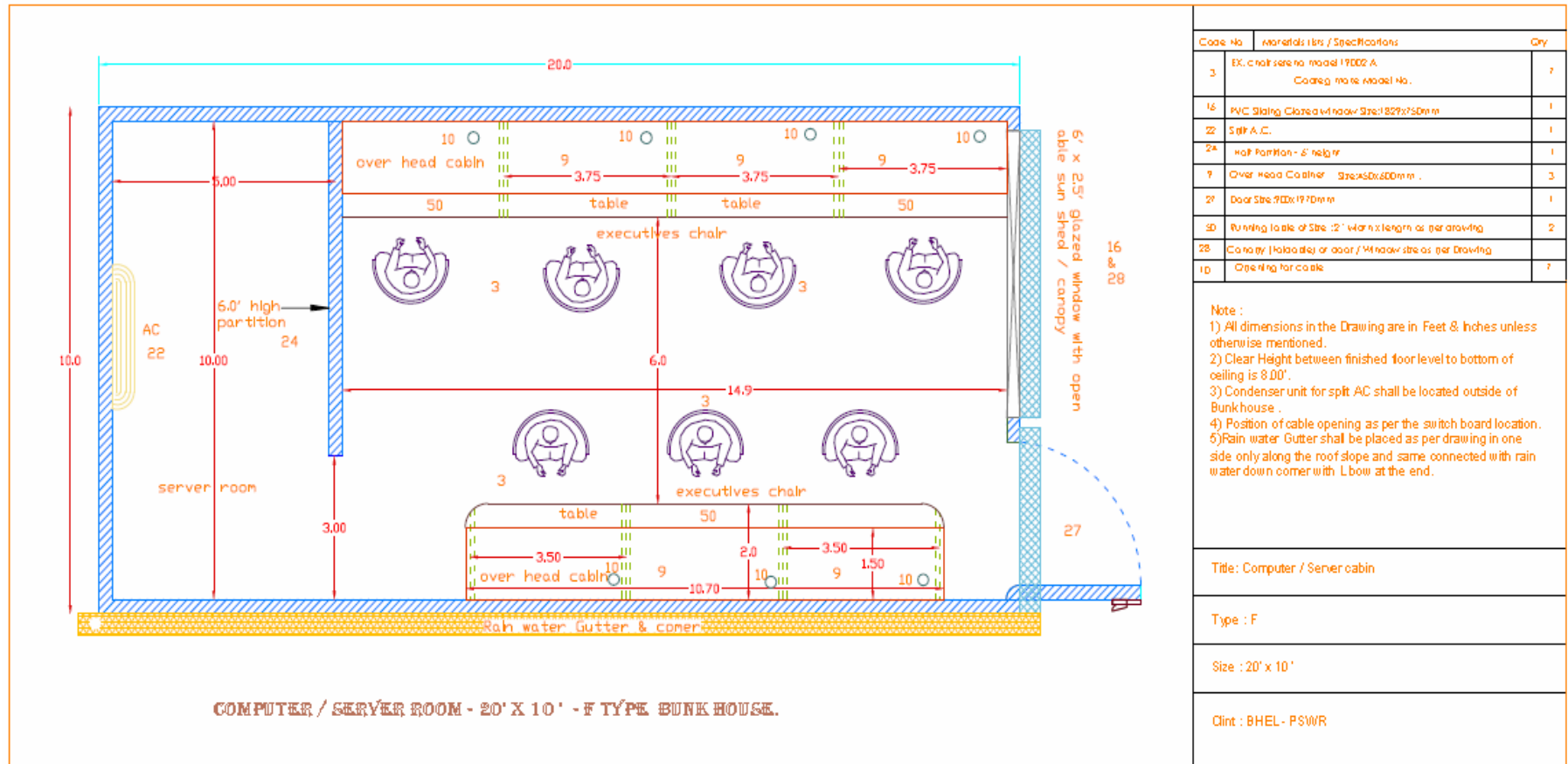
- 1) All dimensions in the Drawing are in feet & inches unless otherwise mentioned.
- 2) Clear Height between finished floor level to bottom of ceiling is 8.00'.
- 3) Condenser unit for split A/C shall be located outside of Bunk house.
- 4) Position of cable opening as per the switch board location.

4	White board Size:750x1000mm	1	22	Split A.C.	2	Title : Conference Hall
16	PVC Sliding Glass window Size:3270x330mm	5	26	Canopy (foldable) or door / window as per Drawing	7	Type : D
3	1) chair and stool 1400 x 400mm 2) Chair and stool 1400 x 400mm	1	27	Door Size:9'00x19'70mm	2	Size : 40' X 10'
10	Speaker for cable as per drawing	6	21	Conference Table Size:8840 x10'00x600 height	1	Client : BHEL-PSWR

BHARAT HEAVY ELECTRICALS LIMITED  
PSWR-NAGPUR-440001  
DT. 09.11.2011

ENQUIRY NO.XI037 E

DUE DATE: 18.11.2011



ENQUIRY NO.XI037 E

20.0

10.0

Racks

4.0

legs

Racks

34

1.5

Racks

34

3.0

4

5.0

3

AC 22

1.5

20

3.0

10

2.2

2.0

1.5

Racks

1.5

Racks

2.0

4.0

Racks

3.5

6' x 2.5' glazed window with open able sun shield / canopy

16

28

27

Rain water Gutter & corner

Code No.	Materials / Specifications	Qty.
A	White board Size: 750x1000mm	1
B	EX. chairs: see model 17002A. Coating: more model No.	1
C	PVC Slating Closed window Size: 1820x750mm	1
D	P.A. table Size: 3' X 1' X 2' 5" H.	1
E	Split A.C.	1
F	Door Size: 900x190mm	1
G	Facts of Size: 900 / 450 mm warm up or Ceiling or per drawing	
H	Convey (tablets) or door / Window size or per Drawing	
I	Ceiling for coats	1

- 1) All dimensions in the Drawing are in Feet & Inches unless otherwise mentioned.
- 2) Clear Height between finished floor level to bottom of ceiling is 8'00".
- 3) Condenser unit for split AC shall be located outside of Bunk house.
- 4) Intermediate rack at every 1.5' height.
- 5) All racks are back to back type.

Type : G

Clint : BHEL - PSUR

