

TENDER NOTICE

Ref. No.: AA:CIT:P32:AC
Date: 10th December, 2009

M/s -----

Dear Sirs,

Subject: Enquiry for Procurement of Ductable Split Air Conditioning Units

Sealed quotations are invited for the procurement and installation of **3 nos. 11TR Ductable Split Air Conditioning Units** as per specifications detailed under "TECHNICAL SPECIFICATIONS" and terms and conditions as enclosed. Firm offers should be submitted in TWO parts as detailed in relevant sections. Both the parts should be individually sealed and superscribed indicating Part No. as required and enclosed in the main cover duly sealed and superscribed.

Before preparing the bids, please see the details in various Sections and enclosed Annexures.

Please note that the sealed tenders will be received by us up to **17:00 hours on 29.12.2009** Techno Commercial Bids (Part-I) will be opened at **15:00 hours on 30.12.2009** in the presence of such tenderers and /or their authorized representatives who choose to be present. The representative should be the same person who has signed the documents or his authorized representative with an authorization letter. There shall not be any overwritten figures in document. All cuttings should be duly signed by the authorized person submitting the offer and should be rewritten in figures and words both. Vendors are required to come prepared for technical clarifications on the opening day. The Price bids (Part-II) may be opened on the same day after discussions/clarifications, if any. **BHEL takes no responsibility for delay, loss or non-receipt of tender documents sent by post and also reserves the right to accept or reject any or part of the tender without assigning any reason thereof.**

Tender should be sent to the office of:

**Sr.DGM (IT-Purchase)
Bharat Heavy Electricals Limited,
CIT Hall, 2nd Floor, HRD & ESI Complex,
Plot No. 25, Sector – 16A, NOIDA (UP) 201301**

With regards
For **Bharat Heavy Electricals Ltd.**

(Ashwini Kumar)
Sr.DGM (IT Purchase)
Tel No.: (0120) 2510505
Email : ashwini@bhel.co.in

1.0 General Instructions to the bidders

- 1.1 Tender documents (non-transferable) will be available from **Friday 11th of December 2009** between 10 AM to 3 PM from SrDGM (IT Purchase), Corporate IT, 2nd Floor, HRD & ESI Complex, Plot No. 25, Sector 16A, Noida, U.P. 201301. Alternatively the tender can be downloaded from the BHEL website.
- 1.2 Last date of submission is 17:00 Hrs on **Tuesday, 29th Of December 2009** and technical bids shall be opened at 15:00 Hrs. on **Wednesday, 30th Of December 2009**.
- 1.3 Earnest Money Deposit (EMD) for the tender is Rs.15,000/- (Rupees Fifteen Thousands only).
- 1.4 EMD is to be submitted in the form of Demand draft in favor of "Bharat Heavy Electricals Limited" payable at New Delhi or Noida.
- 1.5 The tenderer shall closely peruse all the clauses, specifications and requirements etc., indicated in the tender documents, before quoting. Should the tenderer have any doubt about the meaning of any portion of the tender specifications or find discrepancies or omissions in the specifications or if the tender documents are found to be incomplete or require clarifications on any of the technical aspects, scope of work etc., he shall at once contact the official inviting the tenders, for clarifications, before submission of the tender.
- 1.6 Tenderers are advised to study all the tender documents carefully. Any submission of tender by the tenderer shall be deemed to have been done after careful study and examination of the tender documents and with the full understanding of the implications thereof.

2.0 Procedure for Submission & Opening of Bids

- 2.1 Bids shall be accepted by the official inviting the tenders, in two parts, as described below, on or before the due date & time indicated in the Tender Notice.

PART-I: EMD & TECHNO-COMMERCIAL BID

This part shall consist of the following:

- 1) EMD in the form of Pay Order/ Bank Draft of Rs.15,000/- (Rupees Fifteen Thousands only) in favour of "Bharat Heavy Electricals Limited" payable at New Delhi or Noida. In the absence of submission of EMD, the offer will be summarily rejected.
- 2) Volume consisting of:
 - i. Technical offer/ details including literature/leaflets, if any. The bidder can offer only as per requirements specified under technical specifications. BHEL reserves the right to accept or reject the technical offer. Price bids of only techno-commercially short listed vendors will be opened.
 - ii. Authorization by OEM's as per enclosed format.
 - iii. No Deviation Certificate as per enclosed format.
 - iv. Checklist of PRICE BID (Unpriced Copy) as per enclosed format.
 - v. Clause wise compliance of all tender terms and conditions.

PART-II: PRICE BID

Price bid containing PRICES only is to be submitted (in the enclosed Price Schedule format only). Prices shall be quoted in Indian Rupees only. Bidder shall give details of applicable tax rates also along with the price bid.

Price Bid should not contain any technical details and/or Commercial Terms & Conditions as the same are supposed to be contained in PART-I only, so that the same can be evaluated before opening of Price Bid(s).

3.0 Marking On Envelope

- 3.1 Part-I and Part-II offers shall be submitted in two separate sealed envelopes with bidder's distinctive SEAL and super-scribed as follows:

PART-I :

- 1. TENDER ENQUIRY NO. AND ITEM DESCRIPTION**
- 2. DUE DATE OF OPENING**
- 3. "EMD & TECHNO-COMMERCIAL BID".**

PART II :

- 1. TENDER ENQUIRY NO AND ITEM DESCRIPTION**
- 2. DUE DATE OF OPENING**
- 3. "PRICE BID" as per enclosed Format.**

- 3.2 Un-sealed envelopes or envelopes not super-scribed as above may not be accepted/considered.

4.0 Bid Submission

- 4.1 Bids shall be addressed to the official inviting Bids by name and designation and sent at the following address:

Sr.DGM (IT-Purchase)
Bharat Heavy Electricals Limited,
CIT Hall, 2nd Floor, HRD & ESI Complex, Plot No. 25,
Sector – 16A, Noida (UP) 201301
Telephone no. : (0120) 2510505
Email : ashwini@bhel.co.in

- 4.2 Bids can also be delivered in person to the official inviting Bids.
- 4.3 Bids submitted by post shall be sent by "REGISTERED POST" only and shall be posted with due allowance for any postal delay. Bids shall be submitted latest by 17:00 Hrs. of the due date. Bids received after the Due Date and Time of opening are liable to be rejected.

5.0 Bid Opening

- 5.1 PART-I (EMD & Techno-commercial bid) may be opened on the due date and time as specified in the Enquiry Letter, in the presence of bidders who may like to attend. Part-II (Price Bid) shall be opened subsequently. However, Purchaser reserves the right to open both the parts simultaneously i.e. Part-I and Part-II together.
- 5.2 In case of public opening, date and time of Price Bid (Part-II) opening shall be intimated to the technically and commercially acceptable bidders only.
- 5.3 Purchaser also reserves the right to open the earlier i.e. superseded price bids, if any, submitted by the bidder(s), if required.
- 5.4 Not more than one representative will be permitted to be present for the tender opening.
- 5.5 No correspondence shall be entertained from the bidders after the opening of Price Bid(s).

6.0 Bid Validity

The bids shall remain valid for a period of 90 days from the last date of submission of offers.

7.0 Rejection of bid and other conditions

- 7.1 Late bids will not be entertained and rejected summarily.
- 7.2 The offer is liable to be rejected, if it is found after the Price Bid Opening that the Checklist of Price Bid submitted by the bidder, as a part of Part-I offer, is different from the actual Price Bid.
- 7.3 Non-compliance with any of the requirements and instructions of the Tender Enquiry may result in the rejection of the bid.
- 7.4 Standard pre-printed conditions of the bidders attached to the offer will not be accepted and only those mentioned in the body of his offer will be considered.
- 7.5 Unsolicited bids shall not be entertained. Unsolicited revised Price Bids also, shall not be entertained at any stage of the tendering process and will lead to automatic disqualification of the party's bid.
- 7.6 Purchaser reserves the right to negotiate the tender, if required.
- 7.7 The remuneration, which the Successful Bidder shall receive from the contract, will be subject to normal tax liability in India.
- 7.8 All cutting, overwriting in the proposal should be authenticated by the initials of the authorized signatory. In case of any calculation error the unit rates would prevail. The amount will also have to be written in words.

8.0 Tender Evaluation

- 8.1 Totals/ Gross Total of Prices should be indicated both in words as well as in figures. If there is a difference between price quoted in words and figures or if there is any other price discrepancy, higher value(s) will be considered for evaluation and lower values will be considered for ordering.
- 8.2 Though offer of higher warranty/ configuration/ rating, than what is required as per tender specifications, may be accepted, no extra weightage or preference will be given for the same.
- 8.3 Prices of optional items, if any, shall not be considered for Price evaluation and comparison, unless stated otherwise.
- 8.4 After finalizing the techno-commercial offers, BHEL may adopt Reverse Auction process for arriving at the lowest price offer.

Commercial Terms & Conditions

1.0 Eligibility Criteria

- a) The bidder shall be either OEM (Daikan, Hitachi, Blue Star, Ogeneral, Carrier) or its authorized distributor/ dealer. If the bidder is not OEM, the bidder shall submit an authorization letter, as per enclosed format.
- b) The bidder shall have minimum 3 (Three) years of experience in the commissioning and installation of air conditioning units at the time of tender enquiry. The bidder shall provide necessary documentary evidence for the same.
- c) The OEM and or bidder shall have established service centre in Noida or Delhi.

2.0 Scope of Work

The broad scope of work shall be as per **Annexure-A**. However, any work even if not specifically mentioned but reasonably implied for the successful installation and commissioning of Air Conditioning Units shall be construed as a part of the scope of work.

3.0 Schedule for Supply:

The successful bidder shall complete the supply in **30 days** from the date of placement of order.

4.0 Schedule of Work

The installation and commissioning as per entire scope of work shall be completed within a period of **15 days** from the date of supply.

5.0 Performance Bank Guarantee

The successful bidder has to submit Performance Bank Guarantee (PBG) equal to 10% of total order value, valid for a period of 15 months from the date of successful installation and commissioning. The Purchaser will discharge the Performance Bank Guarantee after completion of the Bidder's performance obligations, including any warranty obligations, under the contract.

The Performance Bank Guarantee issued from any nationalized bank, HDFC bank or ICICI bank will be acceptable. The Bank guarantee will be as per the format given by BHEL.

6.0 Bid Prices

The Bidder shall give the pricing as a total composite price inclusive of all prevailing levies & taxes i.e. Sales Tax, Service Tax, Excise Duty, Custom Duty, packing, forwarding, freight and insurance, Octroi / Entry Tax, etc.

7.0 Discounts

The Bidders are informed that discount, if any, should be merged with the quoted prices. Discount of any type, indicated separately, will not be taken into account for evaluation purposes.

8.0 Confidentiality

The Bidder shall keep confidential any information related to this tender. The Bidders shall note that the confidential information will be used only for the purposes of this tender and shall not be disclosed to any third party for any reason whatsoever.

As used herein, the term "Confidential Information" means any information, including without intimation, information created by or for the other party, whether written or oral, which relates to internal controls, computer or data processing programs, algorithms, electronic data processing applications, routines, subroutines, techniques or systems, or information concerning the business or financial affairs and methods of operation or proposed methods of operation, accounts, transactions, proposed transactions or security procedures of either party or any of its affiliates, or any client of either party, except such information which is in the public domain at the time of its disclosure or thereafter enters the public domain other than as a result of a breach of duty on the part of the party receiving such information. It is the express intent of the parties that all the business process and methods used by the Bidder in rendering the services hereunder are the Confidential Information of the Bidder.

At all times during the performance of the Services, the Bidder shall abide by all applicable BHEL's security rules, policies, standards, guidelines and procedures. The Bidder should note that before any of its employees or assignees is given access to the Confidential Information, each such employee and assignees shall agree to be bound by the term of this tender and such rules, policies, standards, guidelines and procedures by its employees or agents.

The Bidder should not disclose to any other party and keep confidential the terms and conditions of this Contract agreement, any amendment hereof, and any Attachment or Annexure hereof.

The obligations of confidentiality under this section shall survive the rejection of the contract.

9.0 Payment Terms

The payments shall be in the following manner:

- a) Equivalent to 90% of the order value, after successful installation as per scope of work.
- b) Equivalent to 10% of the order value against submission of performance bank guarantee as per clause 5.0 or after completion of warranty.
- c) The payment of AMC charges will be made on quarterly basis in arrears.

All payments will be released from the office of the undersigned on submission of invoices in duplicate and reports towards successful installation / satisfactory performance.

10.0 Purchaser's Rights

The Purchaser reserves the right to make changes within the scope of the Contract at any point of time.

- a) The Purchaser reserves the right to accept or reject any or all bids, and to annul the Tender process at any time prior to the issue of Letter of Award.

In this case, the Purchaser shall not incur any liability to the affected Bidders or any obligation to inform the affected Bidders about reasons for such action.

- b) The Bidder shall not sub-contract the services like Installation, integration and Project Management etc. without written consent from BHEL. Further, BHEL shall not be liable for making any payments to the sub-bidders.

11.0 Penalties

A) Late Delivery & Commissioning:

Any delay by the Successful Bidder in the delivery or commissioning of the services as per time schedules defined in **Clause 3.0 & Clause 4.0** will make the Successful Bidder liable to any or all of the following:

- a) Forfeiture of EMD.
- b) Imposition of penalty.
- c) Termination of the contract for default.

If the Bidder fails to complete supply, installation and commissioning within **45 days from the date of issue of Purchase Order**, BHEL shall without prejudice to its other remedies under the contract, deduct a sum equivalent to the 0.5% of the total order value for every week (seven days) or part thereof of delay, up to maximum deduction of 5% of the total charges of undelivered quantity/services. Once the maximum is reached, BHEL may consider termination of the contract and/ or forfeiture of EMD.

B) Support:

- a) The bidder shall provide support escalation matrix with contact numbers and email addresses.
- b) For availability & uptime/downtime purposes, timings @ 24 hours by 7 days will only be considered.
- c) Upon registering a service or support complaint (over phone or email) with the bidder, the service engineer shall be deployed within **2 working hours**.
- d) If after registering a complaint with the bidder, a service engineer is not deployed within 2 working hours, **a penalty of Rs.200/- per hour** or part thereof will be deducted from the annual maintenance charges payable to the bidder.

12.0 Force Majeure

Neither party shall be responsible to the other for any delay or failure in performance of its obligations due to any occurrence commonly known as Force Majeure which is beyond the control of any of the parties, including, but without limited to, fire, flood, explosion, acts of God or any governmental body, public disorder, riots, embargoes, or strikes, acts of military authority, epidemics, strikes, lockouts or other labour disputes, insurrections, civil commotion, war, enemy actions.

If a Force Majeure arises, the Bidder shall promptly notify BHEL in writing of such condition and the cause thereof. Unless otherwise directed by BHEL, the Bidder shall continue to perform his obligations under the contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event. The Bidder shall be excused from performance of his obligations in

whole or part as long as such causes, circumstances or events shall continue to prevent or delay such performance.

13.0 Arbitration

In the event of any dispute or difference arising out or touching upon any of the terms and conditions of this contract and /or in relation to the implementation or interpretation hereof, the same shall be resolved initially by mutual discussion and conciliation but in the event of failure thereof, the same shall be resolved in accordance with "the Arbitration and Conciliation Act, 1996" and any subsequent amendments. The venue of arbitration shall be in Delhi.

14.0 Laws Governing the Contract

The order/ contract shall be executed and governed by the laws of India and the courts of India alone shall have jurisdiction in respect of any matter arising under or in connection with the order/ contract.

Courts at Delhi/ New Delhi shall have exclusive jurisdiction to decide the dispute, if any, arising out of or in respect of the contract to which these conditions are applicable.

15.0 Merger & Acquisition

In case of mergers and acquisitions of the bidder company or the OEM, all the contractual conditions and obligations shall automatically get transferred to acquiring company / entity and acquiring company must assume all the obligations of the contract till the end of the contract period.

16.0 Bankruptcy

If the Bidder becomes bankrupt or have a receiving order made against him or compound with his creditors or being a Corporation commence to be wound up, not being a voluntary winding up for the purpose only or amalgamation or reconstruction, or carry on their business under a receiver for the benefit of their creditors or any of them, BHEL shall be at liberty:

- a) To terminate the engagement forthwith without any notice in writing to the Bidder or to the liquidator or receiver or to any person in whom the Bidder may become vested.
- b) To give such liquidator or receiver or other person the option of carrying out the engagement subject to their providing a guarantee for the due and faithful performance of the engagement up to an amount to be determined by BHEL.

17.0 Clause wise Compliance

Bidders are required to furnish clause wise compliance to BHEL tender enquiry terms and conditions. This should be enclosed in Part-I of the offer.

Annexure-A

1. Scope of Work

Scope includes supply, installation, testing and commissioning of Air-cooled split air conditioners conforming to the specifications and schedule of supply and installation given in **Annexure-B** and in accordance with the 'Bill of Material' given in **Annexure-C**. The scope also includes dismantling of the existing 3 AC Units (7.5TR each), extraction of existing pipes and any civil work required for the installation of new AC Units and the associated piping.

The AC Units are to be installed in the Server Room at CIT Noida. The evaporative units shall be installed in the Server Room and the condensing units shall be placed on the roof of the building. The Server Room is on 2nd Floor and there is one more floor above the Server Room. The distance between the evaporative units and the condensing units will be around 15 meters. The **Annexure-D** shows the locations where the three AC Units will be installed. There is space constraint in the server room and the supplied units should fit into the slots where the existing units are currently fixed. Bidder shall visit the site, **necessarily**, before quoting and ascertain location of the evaporative & condensing units and the length of the refrigerant pipes required. All refrigerant pipes required shall be supplied and fixed by the bidder (AC Contractor) within the quoted price. The installation shall be carried out in accordance with the best engineering practices to the complete satisfaction of the BHEL site engineer to ensure proper return, and vibration-free and noise-free installation. Any damage to the walls, building, floor, tiles, etc during the installation of the ACs shall be made good by the bidder on its own cost. Apart from other operational and safety controls, provision shall also be made for manual reset with HP/LP cut out and for non-recycling control relay.

2. Testing

The actual refrigeration capacity of the evaporative unit as tested at site shall not be below the capacity under the specific conditions as contained in the manufacturer's literature forming a part of the contract - but in no case less than the capacity specified in the tender.

3. Technical Support

The supplier shall provide on-site Technical Support for the offered product during warranty period and during AMC period.

4. Warranty

The system shall carry at least one year warranty from the date of successful commissioning and installation. It shall include repair and replacement of all components like compressor, evaporative coils, filters, refilling of refrigerant, lubricant oil, etc.

5. AMC

The bidder shall provide comprehensive AMC for the next five years after the expiry of warranty period. The AMC shall include repair, maintenance and replacement of all faulty components like compressors, filters, evaporative coils, etc. The refilling of refrigerant and lubricant oil shall also be covered under AMC.

Annexure-B**SCOPE OF WORK**

S. NO.	Description	Unit	Quantity
A	Supply of Equipment		
1.0	Air cooled Ductable Split Units		
1.1	Supply, of ductable type Air cooled split units each complete with multiple scroll compressors, accessories / controls, motor, air cooled condenser, integral refrigerant copper piping with accessories , direct expansion cooling coil of copper tube, Aluminum fin construction. Centrifugal blower with motor vibration, isolators, all housed within cabinets. The unit shall be suitable for 415 +/- 10 %, 50 cycles, 3 phase AC supply. Unit shall be complete with thermostat, internal wiring and starter panels for each compressor as required. Capacity : 11.0 TR (2 W + 1 SB) Air Qty:4400 CFM	sets	3
B	Installation and Commissioning		
1.0	Air cooled Ductable Split Units		
1.1	Lifting, shifting, installation, testing and commissioning of ductable type Air cooled split units each complete with multiple hermetically sealed scroll compressors, accessories / controls, motor, air cooled condenser, integral refrigerant copper piping with accessories , direct expansion cooling coil of copper tube, Aluminum fin construction, centrifugal blower with motor vibration, isolators, all housed within cabinets. The unit shall be suitable for 415 +/- 10 %, 50 cycles, 3 phase AC supply. Units shall be complete with thermostat, internal wiring and starter panels for each compressor as required.		
1.2	No. of Units Required	Sets	3
1.3	Capacity : 11.0 TR each	Sets	3
1.4	Configuration: 2 Working + 1 Standby		
1.5	Air Qty:4400 CFM per unit		
2.0	R 22 gas charged Refrigerant.		
2.1	Supply, installation, testing and commissioning of refrigerant grade copper tubing in ceiling / wall interconnecting outdoor and indoor units duly insulated with insulation to prevent any heat loss,	M	RMT

S. NO.	Description	Unit	Quantity
	suitable sizes as per specifications detailed below:		
2.2	Interconnecting concealed Refrigerant piping Totaline/ Rajco / Mandev make constructed from hard drawn seamless copper tubes 0.63 mm thick and tested as per the requirements of ASTM E 243 standards. Refrigerant piping shall be complete with copper fittings and soldered joints and supported and anchored to the building structure using steel hangers, anchors, brackets and supports which shall be fixed to the building structure by means of inserts or expansion shields. All external piping shall run in cable tray.	M	RMT
2.3	All Refrigerant piping shall be insulated with 9 mm thick sleeve of nitrile rubber Superlon/ Aflex/ K flex make having K value of 0.03 W/mK at 10 Deg C mean temperature and minimum density of 50 kg/ cum. The insulation shall be covered with lagging fabrics canvass, glass fibre mesh or glass fibre cloth .The selected non flammable lagging shall be dipped and finally finished with 2 coats of thermal insulation protective canvass coating confirming to Americal standard test methods. The joints shall be properly sealed with R 242 adhesive of polychloroprene to ensure proper bonding of the ends.	M	RMT
2.4	Civil works for refrigerant piping, cutting and chasing of walls and making them good.	LOT	Lumpsum
3.0	Control and Power cables		
3.1	Supply, installation, testing and commissioning of power/ control cables of PVC sheathed flexible copper wire complete with earthing between indoor and outdoor units. All external cables shall run in cable trays.	LOT	Lumpsum
4.0	Drain Piping		
4.1	Supply, installation, testing and commissioning of rigid heavy duty UPVC drain piping (20/25/32 mm dia) suitable for 10 kg/ sqcm pressure rating for indoor units complete with necessary elbow, tees, reducers, brass connector between GI and PVC pipe etc.	M	RMT
4.2	All drain piping shall be insulated with 6mm thick sleeve of nitrile rubber Superlon/ Aflex/ K flex make having K value of 0.03 W/mK at 10 Deg C mean temperature and minimum density of 50 kg/ cum.	M	RMT
5.0	Civil works for drain piping		

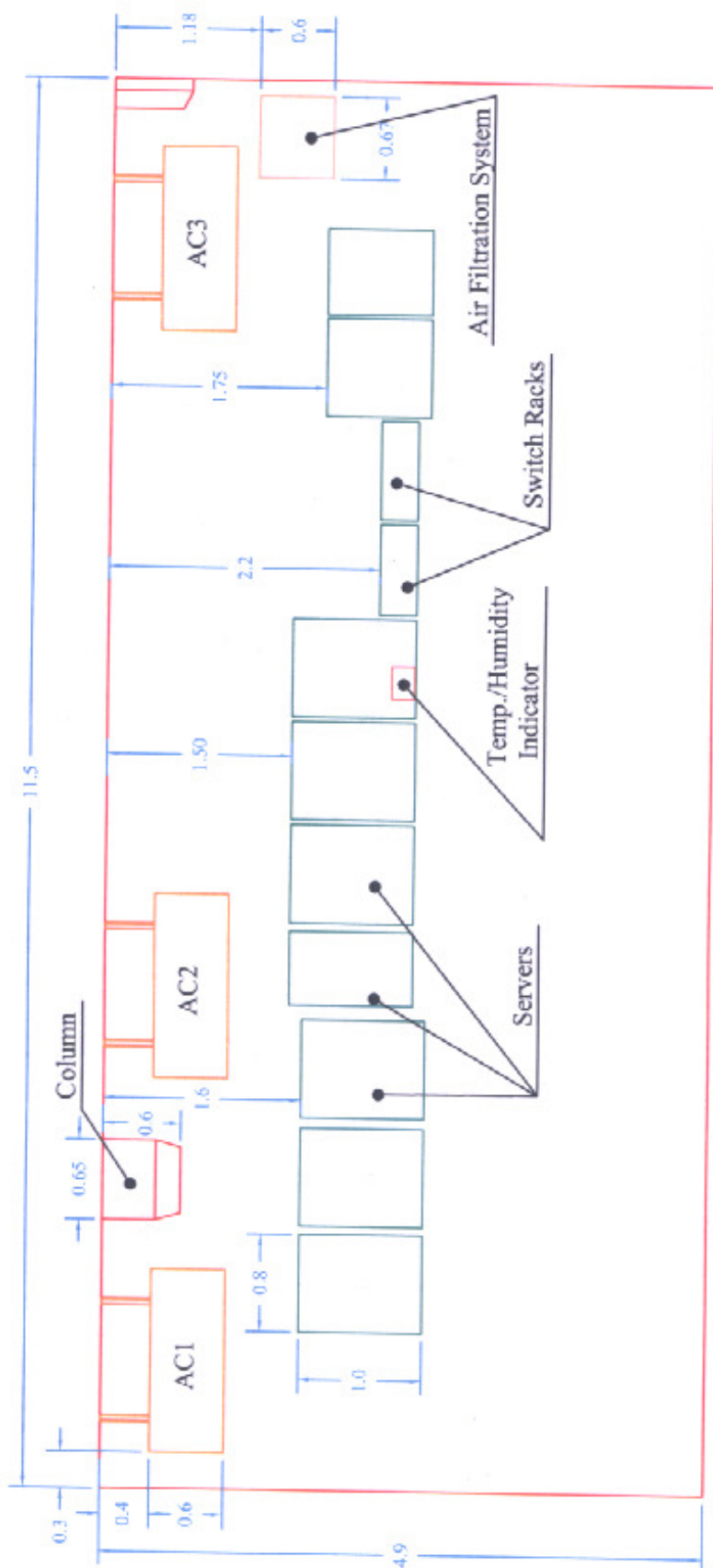
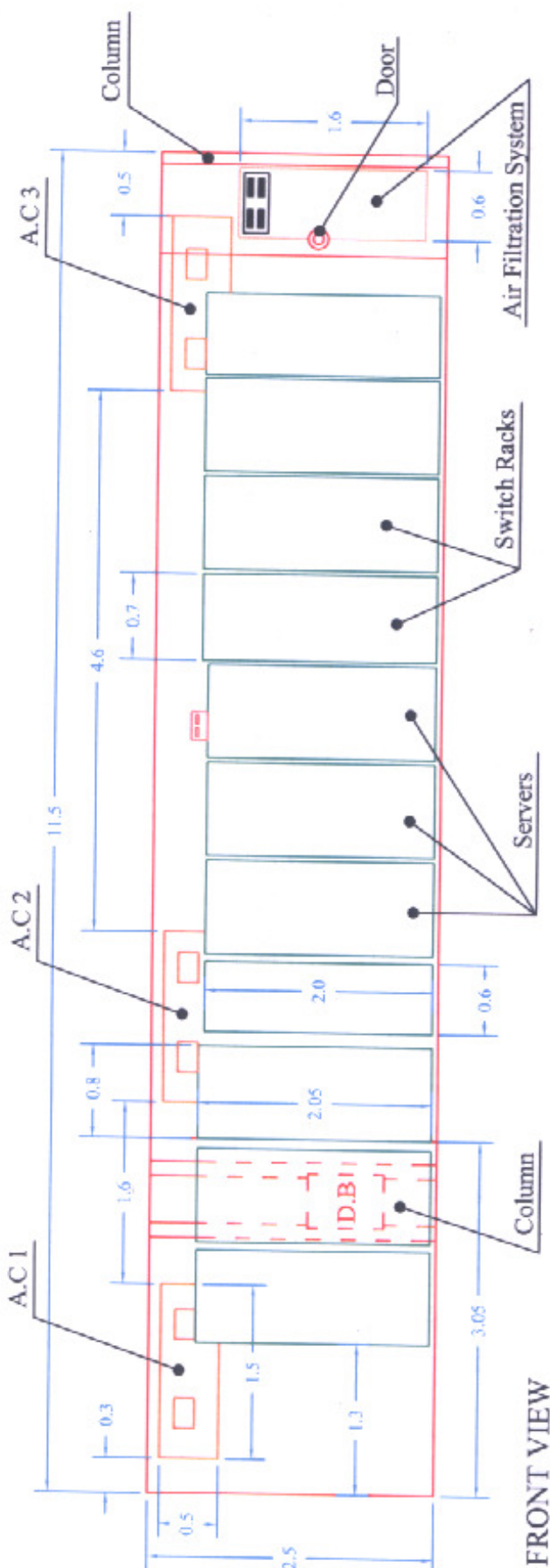
S. NO.	Description	Unit	Quantity
5.1	Cutting and chasing of walls/ floor/ glass and making them good.	LOT	Lumpsum
6.0	Air Distribution		
6.1	Site Fabricated Duct: Supply, Fabrication, Installation and testing of sheet metal ducts in accordance with the approved shop drawings and specifications and shall also conform to the specifications. The duct shall be fabricated at site to suit pieces, and as per site requirements.	LOT	Lumpsum
7.0	Continuous Linear Grill (Fixed Bar)		
7.1	Supply, Installation, Testing and commissioning of single louvered continuous linear supply and return air grille as per site requirements.	LOT	Lumpsum
7.2	Powder coated extruded Aluminum grilles of approved shade and color with VCD.	SqM	Lumpsum
7.3	Powder coated extruded Aluminum grilles of approved shade and color without VCD.	SqM	Lumpsum
8.0	Insulation		
8.1	Duct Thermal Insulation (for site fabricated ducts) : Supply and Application of external thermal insulation of ducting with closed cell polyethylene, 12mm thick	SqM	Lumpsum
9.0	Outdoor Stands		
9.1	M.S. Iron Angle Stands (Condenser Stands), for Ductable Split ACs	Nos.	3
10.0	Sequential Controller		
10.1	Sequence Controller for sequencing of ON/OFF in between Units.	Nos.	1
11.0	Epoxy Coating		
11.1	Corrosion Prevention Treatment for copper U bends and Brazing Joints for chemical resistance.	LOT	Lumpsum
C	Dismantling		
1.0	Dismantling of Air cooled Ductable Split Units		
1.1	Dismantling of the existing 3 AC Units (7.5TR each) and extraction of existing pipes and any civil work required for the same.	LOT	Lumpsum
NOTE	The system shall be complete with all items required to make the system functional in accordance with good engineering practices in the air-conditioning industry.		

Accepted Makes of Equipment and Materials

SNo	Equipment / Material	Approved Makes
1	Ductable split units	Diakin/Blue Star/ Hitachi/ Carrier/Ogeneral
2	Air Distribution/Ducting GI Sheets	Sail / Nippon / Tata /Jindal
3	Grills/ Diffusers	Mapro/ Servex
4	Insulation	Supreme/Aflex/Paramount/Trocellan
5	RP Tissue	UP Twiga / Styrene Packing
6	Red Oxide, Zinc Chromate Primer	ICI / Berger
7	CPRX	Shalimar
8	Dash Fasteners	Cannon / Chetak/Fisher
9	Extruded Aluminum Sections	Mahavir / Jindal
10	Propeller Fans	Crompton/ Khaitan
11	Refrigerant piping	Diamond/ Star/Totalite/Met Tube
12	Power cables/ Control cables	Gloster/ CCI/Finolec/ National
13	Drain piping(PVC Rigid)	Polypack/Sepia
14	Voltage stabilizer	Electrom/ Logicstat/Blue bird
15	MCB	L&T/ Schneider/MDS
16	PVC conduit	AKG/Plaza
NOTE	For any other item required for successful completion, but not included in the above list the Contractor shall take prior written approval from the Consultant.	

Annexure-C**Bill of Material**

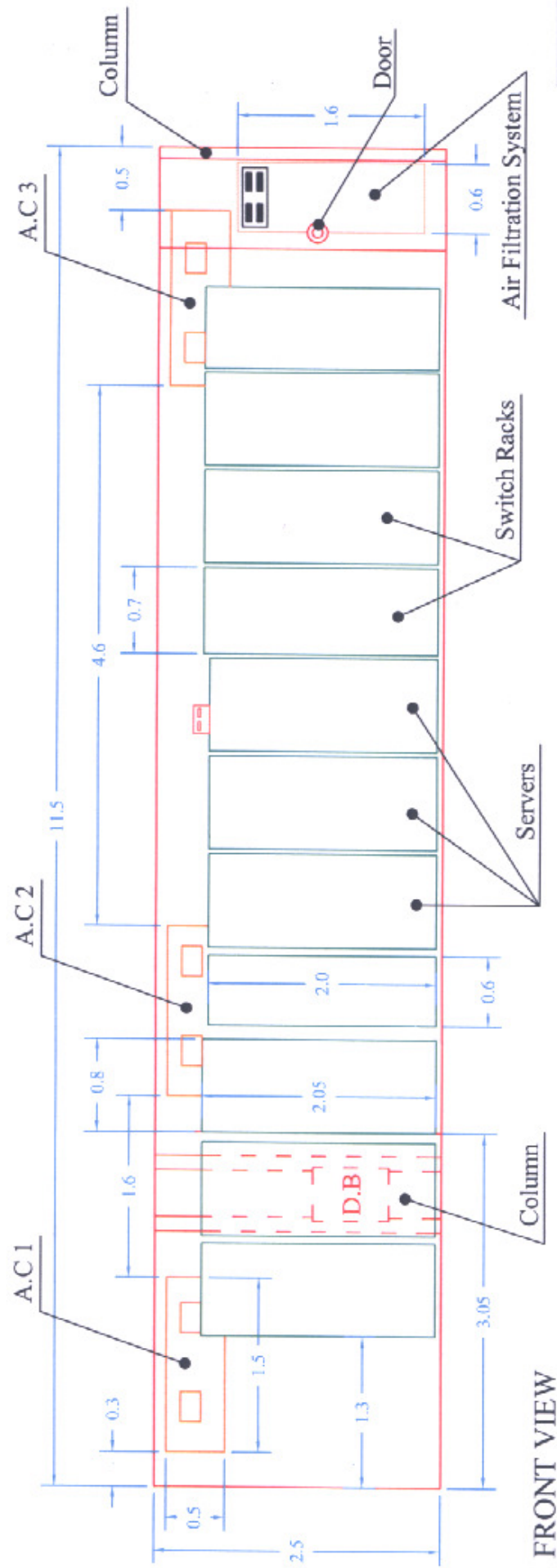
S. No.	Item Name	Qty	Unit of Measurement
1	11.0 TR Ductable Split AC	3	Nos.
	Ancillary Work		
2	Dismantling of existing ductable ACs	3	Nos.
3	Standard Installation for 11.0 Tr Ductable AC	3	Nos.
4	Duly insulated Refrigerant Copper Piping	100	RM
5	Electrical Cable for 11.0 Tr Acs, as per AC power requirements	100	RM
6	Sequence Controller for Machine	1	Nos.
7	25 mm Hard PVC Drain piping	50	RM
8	M.S. Iron Angle Stands for DUctable Split ACs	3	Nos.
9	Epoxy Paint for Machine and Open Refrigerant Coper piping	3	Nos.
10	Civil Works for Indoor & Outdoor Connecting pipe Making Hole Outdoor unit structure, etc.	3	Lumpsum
NOTE:	The quantities of cables and pipes are approximate and tentative only. The bidder shall visit the site before quoting and assess the actual required quantities of all the items.		



TOP VIEW

Layout of Server Room

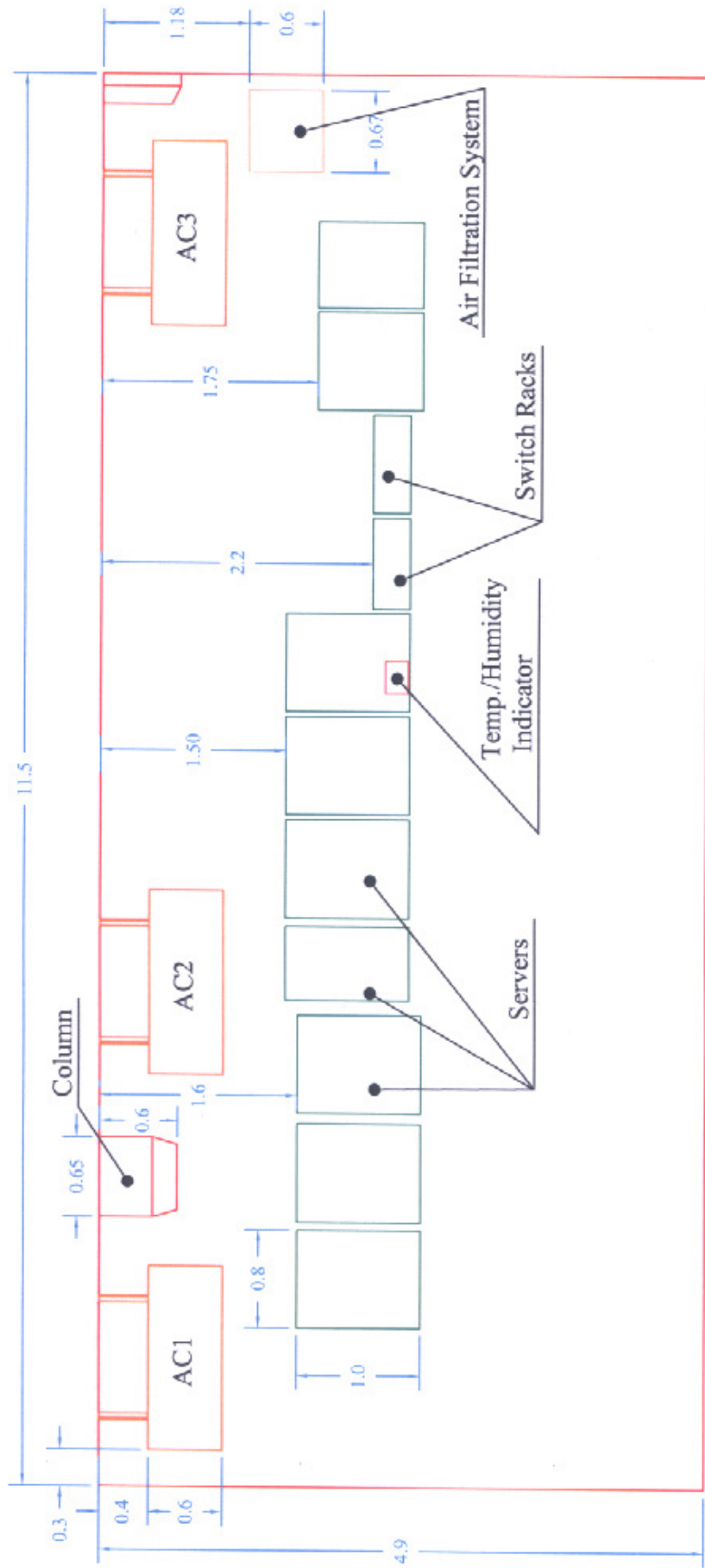
Note: All dimensions are in Meter.



FRONT VIEW

FAHIM

Note: All dimensions are in Meter.



TOP VIEW

FORMAT: NO DEVIATION

This is to certify that our offer is exactly in line with your tender enquiry no. **AA:CIT:P32:AC dated 10.12.2009**. This is to expressly certify that our offer contains no deviation, either Technical or Commercial, in either direct or indirect form.

Signed By:

Name: _____

Designation: _____

Organization: _____

Date & Place: _____

Phone/Fax/Mobile/Email: _____

Stamp & Seal: _____

FORMAT: AUTHORIZATION BY OEM

Date: _____

To,
BHEL
CIT, NOIDA

Subject: **Letter of Authority**

Tender Ref. No.: **AA:CIT:P32:AC dated 10.12.2009**

Dear Sir,

We hereby authorize _____ who fulfills the requirements of the tender enquiry ref. no. AA:CIT:P32:AC dated 10.12.2009 to quote/ negotiate and service the equipment as required in the above tender enquiry.

The authorized agency would ensure reliable service during complete contract period. In case of any default we would do alternative arrangement on the same terms and conditions as negotiated and finalized in this tender enquiry.

(Authorized Signatory)

For _____

Note: This 'Letter of Authority' should be issued on the letterhead of OEM and enclosed in Part-I.

Air Conditioning Units for Server Room

Price Bid

S.No.	Item Name	Qty	Unit Rate (INR) Excluding Taxes	%age Taxes	Total Charges for the total Qty inclusive of taxes (INR)
1	Supply and installation of Air Conditioning Units as per the scope of work (Annexure-A) with refrigerant and necessary piping.	3			
2	Annual Maintenance Charges (AMC) per annum after expiry of warranty	3			
			Total Cash Outflow (INR)		
	NOTE : The charges of dismantling of existing AC units shall be incorporated within S. No. 1				