



Bharat Heavy Electricals Limited
Ceramic Business Unit - Electroporcelains Division
Prof.CNR Rao Circle, Indian Institute of Science Post, Malleswaram
BANGALORE – 560 012 INDIA
Website: www.bhelceramics.com

91(080) 23346352
Office: 91(080) 22182397
Fax: 91(080) 23340535

ENQUIRY FOR AUTOMATED VERTICAL STORAGE SYSTEM AS PER SPECIFICATION

NO.:EP-CPBG-AVSRS/2015-16
GENERAL TERMS & CONDITIONS

ANNEXURE-I

TENDERS SHOULD BE SUBMITTED IN TWO- PART BID

PLEASE FILL ATTACHED **ANNEXURE-2 (PAGE4)** &SUBMIT ALONG WITH YOUR OFFER

THE OFFER SHOULD BE SUBMITTED IN SEALED COVER SUPERSCRIBING THE RFQ NUMBER AND DUE DATE AND ADDRESSED TO:

SR DGM-MATERIALS MANAGEMENT

BHARAT HEAVY ELECTRICALS LTD (BHEL)
ELECTROPORCELAINS DIVISION (EPD)
PROF. C.N.R.RAO CIRCLE, PB NO. 1245,
SCIENCE INSTITUTE POST, BANGALORE 560012

THE OFFER SHOULD REACH WITHIN **14.00 Hrs** ON THE DUE DATE, THE OFFERS WILL BE OPENED AT 14.30 HrS ON THE SAME DATE IN THE PRESENCE OF THOSE VENDORS OR THEIR AUTHORISED REPRESENTATIVES WHO WISH TO BE PRESENT. THE DUE DATE MAY BE ALTERED IN CASE OF INSUFFICIENT RESPONSE FROM VENDORS OR URGENCY OR ANYOTHER REASONS DEEMED VALID. RE-FLOATING ALSO MAY BE RESORTED TO WITH **OR** WITHOUT OPENING THE RECEIVED RESPONSES UNDER THE AFORESAID CIRCUMSTANCES.

I.TECHNO-COMMERCIAL CONDITIONS SHALL INTERALIA CONTAIN THE FOLLOWING:-

COMPLETE TECHNICAL OFFER INCLUDING DETAILED SPECIFICATIONS/DRAWINGS/CATALOGUES/TEST REPORTS/GUARANTEEE/WARRANTY ETC., AS APPLICABLE/REQUIRED TOGETHER WITH EXPERIENCE LIST TO BE FURNISHED.

II. COMMERCIAL ASPECTS COVERING:

- SCOPE OF SUPPLY
- STATUTORY LEVIES
- TERMS OF PAYMENT
- MODE OF PAYMENT
- DELIVERY TERMS
- TRANSIT INSURANCE
- VALIDITY OF THE BID

III **DELIVERY:** EARLIEST POSSIBLE DELIVERY TO BE CLEARLY SPECIFIED IN THE OFFER. THE VENDOR MAY ALSO QUOTE THE EARLIEST DELIVERY PERIOD FOR MATERIAL DELIVERY.

IV **DELIVERY TERM**

F.O.R. BHEL – EPD STORES. UNLOADING TO BHEL / EPD.

V **VALIDITY OF THE OFFER:**

90 DAYS FROM DATE OF OPENING OF TECHNO-COMMERCIAL BID, EXTENDABLE TO A MUTUALLY AGREED PERIOD.

VI. **PRICE IMPACT:**



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IN CASE BHEL ASKS FOR ANY CLARIFICATION THE VENDOR HAS TO SUBMIT THE SAME WITHIN THE SPECIFIED DATE OTHERWISE THE OFFER WILL BE EVALUATED CONSIDERING THE CLARIFICATIONS, IF ANY RECEIVED, AS ON THE SPECIFIED DATE. NO GRACE PERIOD OR LATE SUBMISSION IS ALLOWED.

IN CASE, OUT COME OF TECHNO-COMMERCIAL DISCUSSION HAS ANY PRICE IMPLICATION, ONLY CORRESPONDING **PRICE IMPACT** IS TO BE SUBMITTED BY THE VENDOR IN A SEALED COVER WITHIN THE SPECIFIED DATE.

VII PRICE EVALUATION:

PRICES SHALL BE CONSIDERED ON LANDED COST BASIS (COST TO BHEL). LANDED COST SHALL BE WORKED OUT ON PRICE QUOTED INCLUDING FREIGHT, EXCISE DUTY AND SALES TAX AFTER TAKING OUT CENVAT AND VAT BENEFIT, AS APPLICABLE. THE COMPARATIVE STATEMENT SHALL BE WORKED OUT ON OVERALL LANDED COST BASIS FOR THE WHOLE PACKAGE.

- m) THE COMPARATIVE STATEMENT OF THE PRICES PREPARED ON THE REFERENCE DATE SHALL REMAIN FIRM THROUGHOUT THE EXECUTION PERIOD. ANY CHANGE IN DUTY & TAX STRUCTURE DURING EXECUTION OF THE CONTRACT WILL NOT BE CONSIDERED FOR RE-RANKING OF VENDORS.
- n) THE LOWEST PRICE RECEIVED AGAINST BHEL TENDER NEED NOT BE COMMERCIALY LOWEST PRICE (L1).
- o) BHEL RESERVES THE RIGHT/OPTION TO REFLOAT THE TENDER IF L1 PRICE IS NOT THE LOWEST ACCEPTABLE PRICE TO BHELL.

VIII. PAYMENT TERMS:

ALL PAYMENTS WILL BE MADE BY ELECTRONICS TRANSFER OF FUNDS (NEFT) SYSTEM. THE VENDOR SHOULD FURNISH THE NEFT MANDATE.

- 30 DAYS CREDIT FROM THE RECEIPT OF THE ACCEPTED QUANTITY OF GOODS AT BHEL EPD STORE THROUGH NEFT ONLY.

IX LOADING FACTOR:

IF THE OFFER IS NOT IN LINE WITH THE TERMS & CONDITIONS SPECIFIED BY BHEL THE FOLLOWING LOADING CRITERIA WILL BE ADOPTED FOR EVALUATION.

A. PAYMENT TERMS

INTEREST @20.75% P.A. SHALL BE COMPUTED FOR THE DIFFERENTIAL PERIOD BETWEEN BHEL TERMS OF PAYMENT AND THAT OFFERED. NO UNSECURED ADVANCE/AGAINST PROFORMA INVOICE WILL BE PERMITTED.

B. TRANSPORTATION CHARGE & TRANSIT INSURANCE:

AS PER BHEL RATE CONTRACT PREVAILING ON THE DATE OF OPENING OF TENDER.

C. OTHERS:

ANY OTHER COST COMPONENT WHICH THE VENDOR HAS NOT QUOTED. EITHER A SEALED QUOTE FROM THE VENDOR WILL BE OBTAINED OR THE HIGHEST OFFER FOR THAT COMPONENT WILL BE LOADED.

D. BHEL HAS THE OPTION TO DEFER THE SUPPLIES OF ANY PURCHASE ORDER WITH A NOTICE PERIOD OF 20 CALENDER DAYS.



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E. IN CASE OF UNSATISFACTORY PERFORMANCE OF QUALITY/DELIVERY BHEL WILL HAVE THE RIGHT TO DISCONTINUE THE CONTRACT IN PART OR FULL.

X. DEVIATIONS:

A SEPARATE SHEET INDICATING DEVIATIONS IN TECHNICAL SPECIFICATION, COMMERCIAL TERMS AND CONDITIONS TO BE ENCLOSED IN PART-A OF THE OFFER. IF THERE ARE NO DEVIATIONS SAME HAS TO BE CERTIFIED AND DULY SIGNED BY VENDOR.

XI. LATE DELIVERY:

IN CASE OF ANY DELAY IN SUPPLY OF THE EQUIPMENT AN AMOUNT OF 0.5 % PER WEEK UPTO A MAXIMUM OF 10% OF THE CORRESPONDING COMPONENT OF ORDER VALUE WILL BE DEDUCTED..

XII. RISK PURCHASE CLAUSE

BHEL, AT IT SOPTION, WILL BE ENTITLED TO PURCHASE ELSEWHERE AT THE COST AND RISK OF THE VENDOR, EITHER THE WHOLE OR PART OF THE GOODS WHICH THE VENDOR HAS FAILED TO DELIVER WITHIN THE STIPULTED TIME. THE VENDOR SHALL BE LIABLE FOR ANY LOSS THAT BHEL MAY SUSTAIN BY REASON OF SUCH RISK PURCHASES. BHEL RESERVES THE RIGHT TO CANCEL THE CONTRACT IN FULL OR PART, IF PERFORMANCE WITH RESPECT TO QUALITY AND DELIVERY IS UNSATISFACTORY AND BHEL SHALL HAVE THE RIGHT TO ENTER INTO CONTRACT WITH OTHER VENDORS AGAINST SUCH CANCELLATION OF CONTRACT AGAINST RISK PURCHASE CLAUSE.

XIII. INSPECTION

INSPECTION OF THE MATERIAL WILL BE CONDCUTED BY BHEL EITHER ON ITS RECEIPT AT BHEL OR AT VENDORS PLACE. IN CASE OF PRE-DESPATCH INSPECTION ADEQUATE NOTICE HAS TO BE GIVEN BY THE VENDOR FOR DEPLOYMENT OF BHEL'S PERSONNEL. BHEL RESERVES THE RIGHT TO WAIVE INSPECTION & HAVE THE RIGHT TO REVIEW THE QUALITY PLAN OF THE MANUFACTURER AND ACCESS TO THE PROCESS DATA OF THE MANUFACTURER. ALL NECESSARY TEST & CALIBRATION CERTIFICATES SHOULD ACCOMPANY SUPPLY.

XV. THE VENDOR SHALL FILL ANNEXURE-2 ATTACHED & SUBMIT WITH THE OFFER (Pg 4)



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ANNEXURE- 2

ESSENTIAL CRITERIA OF OFFER

ADDRESS OF THE FIRM			
SL.NO	PARAMETER	BHEL SPEC/RERQUIREMENT	VENDOR'S OFFER
1	Name of Contact person	TO BE MENTIONED	
2	E-mail ID	TO BE MENTIONED	
3	Mobile number	TO BE MENTIONED	
4	Land Line number	TO BE MENTIONED	
5	Fax number	TO BE MENTIONED	
6	Delivery Term	F.O.R.BHEL EPD STORES	
7	Payment terms	30 DAYS CREDIT FROM GOODS RECEIPT , FOR ACCEPTED QTY THROUGH NEFT ONLY	
8	Late Delivery	APPLICABLE AS PER CLAUSE XI.	
9	Risk Purchase clause	APPLICABLE AS PER CLAUSE XII	
10	Lead time for Supply	20 WEEKS FROM PO DATE	
11	Offer validity	90 DAYS FROM DATE OF TENDER OPENING	
12	Tax and Duty Structure	EXCISE DUTY %	
		EDUCATION CESS %	
		CENTRAL SALES TAX %	
		VAT %	
		ANY OTHER	

SIGNATURE OF THE TENDERER

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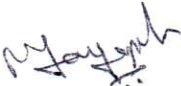



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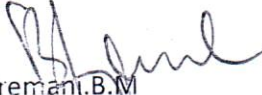
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A.SCOPE	Supply installation & commissioning of the vertical storage and retrieval system as per the following specifications.
B.TECHNICAL SPECIFICATIONS:	Offer shall be corresponding to the parameters under the specifications below and point wise compliance to the following specification is required
1. Description:	Automated Vertical Modular Storage System having static trays with mobile extractor system . The system shall have series of trays positioned at both front & rear columns. A retriever unit, controlled by an onboard controller, shall the required tray and position of the same at the access window for loading and unloading of components.
2.Machine Dimensions:	6150+/- 10mm. Supplier to specify the maximum height of proposed equipment and clearance required all around the machine for installation & maintenance. The system must have provision to add further modules for height wise expansion at a later date.
2.1 Height	
2.2 Width	1975+/-25mm Shall accommodate tray dimensions specified in clause 3.
2.3 Depth	2275+/-50mm.
3.Tray dimensions/ details:	
3.1 Width	1650+/-10mm
3.2 Depth	620+/-20mm
3.3 Storage height for each tray.	Shall be flexible to accommodate materials of different height automatically.
3.4 Material	Trays shall be of rustproof material
3.7 Capacity of each Tray	Shall be capable of carrying up to 300kg.



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Dy. Manager/WEX


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Manager/MM


Hiremani.B.M


S.Muralidharan


S.Arunachalam

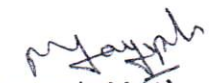


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3.8 No. of Trays:	60nos.
3.9 Distance between the trays:	Should automatically adjust depending upon the component height.
3.10 Safety	When the load on individual trays exceeds the limit as indicated at clause 3.7, the vertical storage system shall trip automatically.
4. Component Storage & Retrieval 4.1	Shall be accessible by part number of minimum of 15 digits alphanumeric. Shall also be accessible by location number of 6 digits numeric or alphanumeric.
4.2	While loading and retrieving; only the desired tray shall move and be made accessible at the access window.
4.3	Trays shall be placed on rubber or plastic loads to avoid vibrations.
4.4 Drive mechanism:	The driving system for the extractor movements has to be provided with suitable drive mechanism which ensures stability & balance.
5 . ESD requirement:	System is meant for storing electronic components that are sensitive to electrostatic discharge .The system shall have suitable features of ESD protection while handling, storing and retrieval of components.


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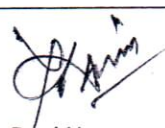
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6. Access Window	
6.1 Number of window.	One
6.2 Position	The base of the access window shall be at an elevated position of 833mm (approximate) above the ground level. Shall be alternate to different height in case need arises in future.
6.3 Height of opening	850+/-150mm
6.4 Access time	Shall be of the order of 30 to 45seconds.
6.5 Safety	<ol style="list-style-type: none">1. Front end of access window shall be duly enclosed with lockable safety shutters to prevent settlement of dust.2. Photocell curtains shall be provided for protection against accidents at the outermost door of the access window .The operator control must be provided at/near the access window and the point of location of the console shall be external to the photo curtain.3. Working light at access point.4. The rear side of the access window shall de duly enclosed with automatic door mechanism .Automatic door mechanism shall be always in closed condition during the movement of the extractor & the same will operate only during storing & retrieval of components in any of the called trays .This door shall ensure safety & prevent accidental spillage of components into the intermediate space while loading & retrieval of components.
7.General Safety	<ol style="list-style-type: none">1. Noise level less than 65 decibels.2. Materials shall be protected against mechanical damages. Features to be stated explicitly.3. System shall be provided with emergency stop switches.4. Protection against free fall of extractor, in case of power failure , shall be provided .On resumption of power the extractor shall complete the task that was interrupted .5. Back-up power shall be provided for 15-20 minutes for the control


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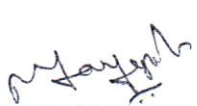


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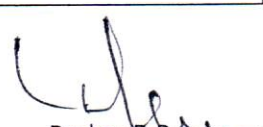
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	<p>system.</p> <ol style="list-style-type: none">6. Back-up facility for data shall be provided.7. Indication of safety status with error display on the panel to enable the operator to identify the problem.8. Shall have a counter to log the number of hours machine is operated.9. There shall be a soft start/stop feature to avoid jerky movement of tray.10. Overload indication /protection must be available.11. Single phase preventer shall be provided in 3 phase machines.12. Imbalance status display -permanent display of the system's load distributions during the positioning process.
8. Space utilization	Trays shall be optimally located in available storage slots depending upon the height of stored material without manual intervention.
9. Software, control & interface	<ol style="list-style-type: none">1. Shall have the feature of access control through password.2. System language: English
10. Power Supply	220V AC +/-10%,SINGLE PHASE ,50Hz(or) 415V AC +/-10%,THREE PHASE ,50Hz.
11. Exterior finish & colour	Shall be suitably painted, colour selectable at the time of ordering , available options to be specified.
12. Operating conditions	Temperature : upto 45 degree centigrade . Relative Humidity:90%RH.


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13. Redundancy system (Expanded safety by-pass system):

All the redundancy features provided with the standard equipment shall be mentioned. This is for uninterrupted function of the unit even in case of electrical /electronic component failure to enable operator to continue working without any problem with redundancy components available and defect shall be displayed on the screen.

14. Qualification criteria:

A) The vendor should have supplied and commissioned vertical storage system similar to the one called in this specification with a minimum height of 6meter and tray carrying capacity of minimum 300kg to minimum two users in any of the BHEL units in India. The system should be working satisfactorily for minimum 3 years. User certificate from these users in the format prescribed in page no.12 shall be furnished along with the quotation.

OR

The vendor should have supplied and commissioned vertical storage system similar to the one called in this specification with a minimum height of 6meter and tray carrying capacity of minimum 300Kg to minimum three reputed firms in India. Reputed firms shall be public sector or Private Ltd. Companies. The system should be working satisfactorily for minimum 3 years. User certificate from these users in the format prescribed in page no.12 shall be furnished. BHEL reserves the right to visit or contact the responsible persons from these organizations for feedback.

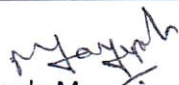
B) Offers can be submitted by Indian or Foreign vendors. However a foreign vendor shall have an authorized India dealer(s)/representative (s) for sales and service who has handled the sales and service of this system for at least 2 years.

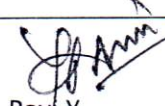
C) If the offer is submitted by the dealer/representative, authorization letter from the original equipment manufacturer (OEM), shall be enclosed along with the offer.


D) No authorized representative shall quote for more than one OEM.

E) The offer shall be only for new equipment and not for any refurbished/used equipment. A declaration to the above effect to be furnished.

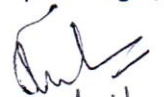
F) All the parts used in the machine shall also be new and not used /refurbished ones. A declaration to

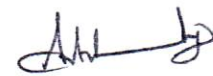

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the above effect to be furnished.

G) The vendor shall be in a position to provide service and spare support for the installation in India. The vendor/India representative should stock critical spares required for the system in their warehouse in India and should be able to attend to service calls in one day time .

H) The vendor or their authorized service representatives should have trained engineers in India for commissioning and service for the offered equipment. A declaration to the above effect to be furnished.

I) The vendor shall be in a position to undertake AMC for the equipment with BHEL after the expiry of the warranty /guarantee period either directly or through a service representative .The vendor should have successfully completed AMC for familiar machines for at least one year in India and necessary proof to be furnished.

J) The vendor shall arrange for a demonstration of their machine or a similar system operating in India, if required by BHEL.

15.Details to be furnished along with technical offer:

1. System parameters with the brief explanation of features.
2. If more than one model is quoted, separate offer with complete technical details shall be submitted for each model.
3. Clause wise deviations, if any, have to be brought out clearly .If there are no deviations , the vendor has to positively certify compliance to the specifications in toto.
4. The complete technical information and catalogue shall be given.
5. Power consumption -maximum and average shall be specified.
6. All safety features shall be explicitly listed , including that of failure of drive motor ,chain etc.
7. Make of controller and motor , Bearing.
8. Battery backup period.
9. Type of computer interface.

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16. Document to be submitted along with technical offer:

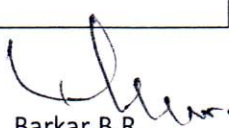
1. Details of authorized service agents in India to be furnished.
2. All commissioning/service requirements such as power, compressed air, water, lubricants, coolants, consumables and any civil requirements like special foundation arrangements etc. have to listed.
3. Time required for installation and commissioning shall be mentioned.
4. Drawing of internal arrangement.
5. CD containing video presentation of the operation in English language.

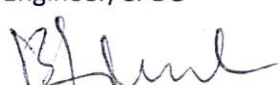
17. Documents to be furnished along with equipment (in English language):


1. Three ORIGINALS of operation, maintenance, service & spare parts manual have to be supplied along with the equipment.
2. Detailed Hydraulic, Pneumatic, Electrical and Electronic circuit diagram have to be provided in triplicate.
3. The lubrication points are to be identified on the machine with respect to O&M manual. The schedules for lubrications are to be provided.
4. Test certificate/Inspection Report shall be submitted prior to dispatch along with the equipment serial number details.
5. Warranty certificate mentioning serial number of the unit, customer name, date of supply etc. shall be provided with original documents of shipment.


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18. OPTIONAL ACCESSORIES


1. Network card with suitable software for interfacing multiple units with single P.C.
2. Network card with suitable software for interfacing with external SAP system.
3. Additional trays.
4. Inventory management software.

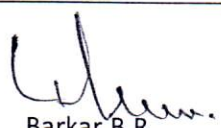
Breakup of prices shall be given for each optional necessary .Main equipment and optional accessories shall be procured from a single vendor .Procurement of optional accessories is at the discretion of BHEL.

19. General Terms:

1. Supplier shall guarantee for one year of trouble free performance of equipment from date of commissioning and shall carry out preventive maintenance periodically, at least once in 3 months.
2. The equipment and accessories shall carry on-site, comprehensive warranty of one year from the date of commissioning including spares and service.
3. Training shall be provided to minimum 3 BHEL personnel for operation & maintenance at no additional cost to BHEL.
4. The software upgrades during warranty period shall be provided free of cost.
5. Immediately after the purchase order, vendor shall survey the proposed site and identify the location and modification required for civil, electrical, mechanical, maintenance access, safety etc. features. This shall be completed within 15 days of purchase order placement.


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USER CERTIFICATE

This is to certify that the vertical storage system, model no.....
supplied by M/s.....On.....(Date) is
working satisfactorily at our works.

The vendor has performed periodical maintenance of the system every..... month
for the past years.

The dimension of the machine is(height),(width),
.....(depth)

and carrying capacity of tray isKg.

Date:

Signature:

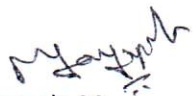
Name of the user:


Department:


Phone no.of the user:
(landline)

Address of company:

Company seal


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