


REQUEST FOR QUOTATION

	BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA	RFQ NUMBER: RAKM000001 RFQ DATE : 19.09.2013	Due Date : 16.10.2013 Time : 13:00 HRS VENUE : NEW ENGG. BLDG
MMI:PU:RF:003			

(address for communication) :	(for all correspondence) Purchase Executive : RAKESH KUMAR Phone : 26999572 Fax : 00918026989227 E-mail: rakeshkumar@bheledn.co.in
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Please submit your lowest quotation subject to our terms and conditions attached for the materials mentioned below. The quotation must be enclosed in a sealed envelope / Fax superscribed with RFQ no. and due date, should reach us on or before the due date by 13.00 hours IST and will be opened on the same day at 13.30 hours at the venue mentioned above. **PLEASE DROP THE OFFER IN THE BOX MARKED RAK PROVIDED AT RECEPTION.**


Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
1	DA0659452464 24" LED BACKLIT MONITOR 24" WIDESCREEN TFT MONITOR, LED BACKLIT SPECIFICATIONS AS BELOW OR BETTER: Viewable Size (MINIMUM) # 24inches MAX RESOLUTION - 1920 x 1200 PIXELS, CONTRAST RATIO - 1000:1 BRIGHTNESS - 250 cd/m2; VIEWING ANGLE - 160V / 170H TYPICAL (@ 10:1 CR) INTERFACE - VGA & DVI-D Height-Adjustable stand, pivot, tilt and swivel provisions to be present. MAKE: DELL, HP, IBM/LENOVO WARRANTY: 3 YEARS - ON SITE - COMPREHENSIVE, NBD INPUT POWER: 100 to 240 VAC; 50/60Hz 24" WIDESCREEN TFT MONITOR, LED BACKLIT	70	ST	35 35	03.01.2014 03.11.2013

TWO PART BID - SUBMIT TECHNICAL AND PRICE BID IN SEPARATE SEALED COVERS

Please note the tender will be opened in the presence of the bidders or his authorised representatives (maximum two per organisation) who choose to be present with authorisation letters. Refer annexure for the terms and conditions.
 Preference will be given to vendors who accepts our standard payment terms i.e.100% payment within 30 days of receipt of material at our works.
 Please specify Terms of delivery, Excise duty, sales tax, Ex-BHEL, Ex-works surcharge, Insurance,P&F, Freight and other taxes very clearly
 For evaluation, exchange rate (TT selling rate of SBI) as on scheduled date of tender opening (Part-I bid incase of two part bid) shall be considered.
 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 www.bhel.com

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2	DA0659452472 22" LED BACKLIT MONITOR 22" WIDESCREEN TFT MONITOR, LED BACKLIT SPECIFICATIONS AS BELOW OR BETTER:	124	ST	47 53 24	03.11.2013 03.01.2014 03.11.2013

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	Viewable Size (MINIMUM) # 21.5 inches MAX RESOLUTION - 1920 x 1080 PIXELS, CONTRAST RATIO - 1000:1 BRIGHTNESS - 250 cd/m2; VIEWING ANGLE - 160V / 170H TYPICAL (@ 10:1 CR) INTERFACE - VGA & DVI-D Height-Adjustable stand, pivot, tilt and swivel provisions to be present. MAKE: DELL, HP, IBM/LENOVO WARRANTY: 3 YEARS - ON SITE - COMPREHENSIVE, NBD INPUT POWER: 100 to 240 VAC; 50/60Hz 22" WIDESCREEN TFT MONITOR, LED BACKLIT SPECIFICATIONS AS BELOW OR BETTER: Viewable Size (MINIMUM) # 21.5 inches				

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3	DA0659452480 DUAL CPU SLAN SERVER Doc No.- PS4042418 Rev - 00 Test Certificate AS PER PS4042418 AS PER PS4042418	2	NO	2	03.11.2013
4	DA0659452499 RAID 5 SERVER FOR maxDNA Doc No.- PS4042419 Rev - 00 Test Certificate	34	NO	8 20 6	03.11.2013 03.01.2014 03.11.2013

TWO PART BID - SUBMIT TECHNICAL AND PRICE BID IN SEPARATE SEALED COVERS

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For and On behalf of BHEL.

RAKESH KUMAR
Control Equipment

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	AS PER PS4042419 AS PER PS4042419				
5	DA0659452510 Operator Station Windows 7 -SATA Doc No.- PS4042417 Rev - 00 Test Certificate AS PER PS4042417 AS PER PS4042417	86	ST	32 36 18	03.01.2014 03.11.2013 03.11.2013
6	DA0659452529 Engineer Station Windows 7 -SATA Doc No.- PS4042417 Rev - 00 Test Certificate AS PER PS4042417 AS PER PS4042417	55	ST	12 20 23	03.11.2013 03.01.2014 03.11.2013
7	DA0659452545 Operator Station Windows 7 -SAS Doc No.- PS4042417 Rev - 00 Test Certificate AS PER PS4042417 AS PER PS4042417	51	ST	25 26	03.01.2014 03.11.2013
8	DA0659452553 Engineer Station Windows 7 -SAS Doc No.- PS4042417 Rev - 00 Test Certificate AS PER PS4042417 AS PER PS4042417	10	ST	10	03.01.2014

Total Number of Items - 8

TWO PART BID: SUBMIT TECHNO-COMMERCIAL & PRICE BID IN SEPERATE SEALED COVERS.

- 1.
- 2.

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Control Equipment

6 OF 6

TERMS AND CONDITIONS
Annexure I to RFQ RAKM000001

BIDDERS TO NOTE: THIS ANNEXURE DULY FILLED AND SIGNED MUST BE SUBMITTED ALONG WITH THE TECHNICAL BID

NO	Details	CONFIRMATION FROM BIDDER AND VENDOR
1	Test certificate: The test certificate containing the serial numbers of the items/material supplied is required.	
2	ALL ITEMS ARE REQUIRED FROM ONE BIDDER AND ONE MAKE ONLY. L1 WILL BE ARRIVED AT AFTER CONSIDERING TOTAL VALUE OF ALL ITEMS. PL NOTE : AFTER RA L1 BIDDER HAS TO GIVE INDIVIDUAL UNIT PRICE AND TOTAL PRICE FOR PLACEMENT OF ORDER.	
3	In case of any short shipments /defective items observed after receipt of material at BHEL EDN, the same will be made good and supplies arranged to BHEL EDN Bangalore by M/S (Bidder) free of cost and charges.	
4	Warranty: 36MONTHS comprehensive onsite warranty is required. Site address will be anywhere in India. Warranty as per specification will be provided. Warranty certificate indicating serial numbers of the items required from Vendor / bidder before release of payment. Defective items will be replaced at site by M/S (bidder) Without any extra charges to BHEL.	
5	PERFORMANCE BANK GUARANTEE: PBG FOR 10 % OF THE BASIC MATERIAL COST SHALL BE FURNISHED IN THE bhel PRESCRIBED FORMAT ONLY (ANNEXURE II FOR INDIGENOUS PURCHASE ORDER AND ANNEXURE II(A) FOR IMPORTED PURCHASE ORDER). PBG shall be valid for 36 months + 6 months claim period from the date of dispatch.(totally 42 months from the date of dispatch) PBG shall be from any of the BHEL consortium Bankers as per annexure III (B) enclosed and banker should send PBG directly to BHEL. Bank should send original PBG to H G NAGARAJA MANAGER IMPORT BHEL EDN MYSORE ROAD PB NO. 2606 BANGALORE 26. OR If PBG is not given then 10 % of purchase order value will be released after warranty period. If the quote is foreign currency then PBG SHALL BE GIVEN BY FOREIGN BIDDER ONLY or foreign vendors associates in India (same name) in Indian rupees. For evaluation, exchange rate (TT Selling rate of SBI) as scheduled date of tender opening (Part 1 bid in case of 2 pat bid) shall be considered. In case of PBG issued by Indian counterpart on behalf of their foreign principle, exchange rate (TT Selling rate of SBI) as scheduled date of tender opening (Part 1 bid in case of 2 pat bid) for calculation PBG value to be consider. If the BIDDER is not accepting to give PBG OR not accepting to get 10 % of basic value after warranty period then the following Loading Factor is applicable: 10% of basic material value will be loaded PBG SHALL BE ISSUED FROM THE 29 BANKS (CONSORTIUM BANKS) AS PER ANNEXURE-E ONLY	
6	Port of Destination: Port of Destination for imports is Bangalore If the quote is for supply items anywhere in India then item to be delivered to BHEL EDN stores. For non agreement on delivery at BHEL EDN (for quote anywhere in India) loading factor 10 %.	
7	IN CASE QUOTATION IS IN FOREIGN CURRENCY THEN TERMS OF SHIPMENT SHALL BE FCA-INTERNATIONAL AIRPORT AS PER ANNEXTURE 1 TERMS WITH EX-WORKS OR EX-WAREHOUSE ARE NOT ACCEPTABLE. BHEL HAS ENTERED CONTRACT WITH FREIGHT FORWARDERS & WILL CONSIDER ACTUAL FREIGHT CHARGES AS PER AGREED RATES WITH OUR FREIGHT FORWARDERS. VENDORS TO INDICATE NO. OF PACKAGES AND WEIGHT.	
8	Offer Validity: Bidder/vendor to confirm the offer validity 90 days from Due date as per enquiry.	
9	Description/Nomenclature of items in Order acknowledgement / confirmation & invoice to be mentioned as per PO.	
10	DELIVERY: Please indicate your delivery in weeks from the date of receipt of purchase order.	
11	BIDDER to confirm that prices quoted are FIRM till completion of orders for multiple Purchase orders / multiple shipments till completion of orders. Packing shall be air worthy/ road worthy best suited for multiple trans-shipments and to take care of transit damages if any.	

12	<p>Payment terms:</p> <p>A) FOR SUPPLY IN INDIAN RUPEES BHEL standard payment terms as per enquiry are 100 % payment within 30 days after receipt of materials, Test certificate, warranty certificate & PBG. FOR NON AGREEMENT TO TERMS OF PAYMENT OF 100% PAYMENT WITH 30 DAYS CREDIT ... If the quotation is payment through bank ; loading factor : 10 % ... If the quotation is payment on receipt of material at BHEL EDN : Loading factor : 10 %</p> <p>B) FOR SUPPLY IN FOREIGN CURRENCY:</p> <p>BHEL standard Payment for FE quote is " SIGHT DRAFT" SIGHT DRAFT MEANS: BIDDER SHOULD DESPATCH THE ITEM AND SUBMIT DESPATCH DOCUMENTS i.e. 1. INVOICE 2. PACKING LIST 3. AIR WAY BILL 4. TEST CERTIFICATE 5. WARRANTY CERTIFICATE 5 CLEARANCE CERTIFICATE ISSUED BY BHEL EDN BANGALOE DOCUMENTS TO BE SUBMITTED TO OUR BANK THROUGH FOREIGN BANK. ON RECEIPT OF DOCUMENTS BHEL WILL RELEASE THE PAYMENT IMMEDIATELY. BANK CHARGES OUT SIDE INDIA TO BIDDER'S ACCOUNT AND WITHIN INDIA TO BHEL ACCOUNT</p> <p>Clearance certificate for releasing payment: This certificate will be issued by BHEL after receipt of original PBG, Test certificate and warranty certificate, all in originals and acknowledgment from our freight forwarder for having received packages, commercial invoice and packing list for foreign currency order.</p> <p>Any deviation will attract loading factors as mentioned below. In case of foreign currency quote if LC is insisted, Irrevocable LC will be opened with bank charges to respective accounts after receipt of order confirmation / acknowledgement.</p> <p>A) Negotiable documents for LC incase of imports: Airway bill: Original AWB of our authorized air consolidator with two copies. Invoice: Original signed commercial invoice with 2 copies indicating nomenclature of items. Packing list with 2 copies. Copy of clearance certificate issued by BHEL for releasing payments.</p> <p>-----</p> <p>LOADING FACTOR FOR PAYMENT TERMS:</p> <table border="1"> <thead> <tr> <th>BHEL REQUIREMENT</th> <th>INCASE FOLLOWING IS INSISTED BY VENDOR</th> <th>LOADING PERCENT</th> </tr> </thead> <tbody> <tr> <td>AGAINST SIGHT DRAFT (PRESENTATION OF DOCUMENTS ALONG WITH PBG</td> <td>A) 100 % THROUGH IRREVOCABLE LC BANK CHARGES OUTSIDE INDIA TO BENEFICIARY'S ACCOUNT ON PRESENTATION OF DOCUMENTS ALONGWITH PBG</td> <td>10% ON 100% QUOTED PRICE/ FCA VALUE WILL BE LOADED</td> </tr> <tr> <td></td> <td>B) IF BANK CHARGES OUT SIDE INDIA TO BHEL ACCOUNT IS INSISTED</td> <td>Actual Bank charges outside India will be Loaded.</td> </tr> <tr> <td></td> <td>C) IF CONFIRMED LC IS INSISTED ON CONFIRMATION CHARGES TO BENEFICIARYS ACCOUNT IF CONFIRMATION CHARGES TO BHEL ACCOUNT IS INSISTED</td> <td>Actual Bank confirmation charges will be Loaded.</td> </tr> </tbody> </table> <p>NO ADVANCE PAYMENT WILL BE MADE.IF PAYMENT IS INSISTED FOR ADVANCE YOUR OFFER WILL BE REJECTED.</p>	BHEL REQUIREMENT	INCASE FOLLOWING IS INSISTED BY VENDOR	LOADING PERCENT	AGAINST SIGHT DRAFT (PRESENTATION OF DOCUMENTS ALONG WITH PBG	A) 100 % THROUGH IRREVOCABLE LC BANK CHARGES OUTSIDE INDIA TO BENEFICIARY'S ACCOUNT ON PRESENTATION OF DOCUMENTS ALONGWITH PBG	10% ON 100% QUOTED PRICE/ FCA VALUE WILL BE LOADED		B) IF BANK CHARGES OUT SIDE INDIA TO BHEL ACCOUNT IS INSISTED	Actual Bank charges outside India will be Loaded.		C) IF CONFIRMED LC IS INSISTED ON CONFIRMATION CHARGES TO BENEFICIARYS ACCOUNT IF CONFIRMATION CHARGES TO BHEL ACCOUNT IS INSISTED	Actual Bank confirmation charges will be Loaded.	
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13	Gross wt, volume and no of packages of each consignment to be informed. EACH PACKAGE DIMENSION SHALL NOT EXCEED 125"x88"x63" (L X W X H).													
14	SPECIAL NOTE: GUIDE LINES FOR INDIAN AGENTS OF FOREIGN SUPPLIERS ARE ENCLOSED PL GIVE FULL INFORMATION (ANNEXURE A &B).													
15	<p>IN CASE SEZ CLEARANCE BHEL WILL GIVE AUTHORISATION LETTER TO BIDDER TO CLEAR THE GOODS FROM CUSTOM.ALL CLAIMS OF CUSTOM DUTIES AS AGREED UPON MUTUALLY SHALL BE PAID BY THE BIDDER & CLAIM TO BE MADE SUBSEQUENTLY FROM BHEL ALONG WITH THE ORIGINAL INVOICE AND RELEVANT DOCUMENTS AS APPLICABLE.</p> <p>BHEL WILL NOT CLEAR THE GOODS FROM SEZ AREA OFFER SHOULD BE IN INR FOR SEZ CLEARANCE AND DELIVERY TERM AS FOR BHEL EDN STORES ONLY .</p> <p>BIDDERS TO INDICATE CLEARLY PERCENTAGE OF TAXES AND DUTIES FOR WHICH THEY WILL GIVE NECESSARY DOCUMENTS TO CLAIM MODVAT BENEFIT. IN THE ABSENCE OF RELEVANT DOCUMENTS OFFER IS LIABLE FOR REJECTION.</p>													
16	<p>As for as possible, the quotations shall be free from corrections/overwriting. Corrections if any should be initialed with your seal. Any typographical error, totaling mistakes, currency mistake, multiplication mistake summing mistake observed in your priced bids,</p> <p>i. If, in the price structure quoted for the required material, there is discrepancy between the unit price and the total price 9 which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless in the opinion of BHEL EDN there is an obvious misplacement of the decimal point in the unit price, in</p>													

	<p>which case the total price as quoted shall govern and the unit price corrected accordingly.</p> <p>ii. If there is an error in total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected.</p> <p>iii. If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject of (i) and (ii) above.</p> <p>iv. If there is such discrepancy in an offer, the same shall be conveyed to the bidder by BHEL EDN with target date up to which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of the purchaser, the bid is liable to be ignored.</p> <p>BIDDER SHALL HONOUR THE SAME IN CASE ORDER IS AWARDED FOR THE SAIT TENDER ENQUIRY / RFQ.</p>	
17	<p>QUOTATION SHALL BE SUBMITTED IN TWO PART BID</p> <p>TECHNO-COMMERCIAL AND UN-PRICED offer in sealed envelope and Priced offer in a separate sealed envelope along with price summary. BOTH THESE ENVELOPES SHALL BE AGAIN KEPT IN SINGLE SEALED ENVELOPE.</p> <p>BIDDER SHALL ENSURE TO SUPERSCRIBE THE ENVELOPE WITH RFQ NUMBER , RFQDATE, RFQ DUE DATE</p> <p>TENDER(QUOTATION) TO BE DROPPED IN THE TENDER box WITH CE,M&C, SC&PV, TCS, DEFENCE BEFORE 13.00 HOURS . ON THE DESIGNATED DUE DATE.</p>	
18	<p>Penalty for late delivery: For reckoning the date for delayed delivery for penalty purpose the quoted delivery will be considered. In the event of any negotiation/ recorded discussion the agreed delivery period will be considered for penalty purpose. In case of imports the date of handing over the packages along with commercial invoice and packing slip to our freight forwarder along with written confirmation from our air consolidator that packages are handed over to them for further air freight to India will be treated as proof of delivery or alternatively HAWB/AWB no and date will be treated as proof of delivery for penalty purpose. Penalty applicable is 0.5% per week max limited to 10% of Po value.</p> <p>LOADING FACTOR FOR NON AGREEMENT FOR PENALTY FOR DELAYED DELIVERY:</p> <p>... If the quotation is NOT AGREEABLE : loading factor 10 % ... If the quotation is 5% maximum agreed ; loading factor 5% ... If the quotation is other than the above : Loading factor (10 % _ quoted Max%)</p> <p>PENALTY FOR DELAYED WILL BE RECKONED WITH RESPECT TO PO DELIVERY AS GIVEN BELOW:</p> <p>.. If the delivery is at BHEL EDN by supplier, then delivery date at BHEL EDN will be the reference ... If the delivery is ex works (transportation by BHEL EDN) then invoice date will be the reference. (for supply of items anywhere from India only) ... If the dispatch is with documents through bank then invoice date will be the reference.</p> <p>For imported items: For imported items handed over to our freight forwarders will be the reference of delivery (acknowledgement for having received the packages along with all documents with date as a proof is required).</p>	
19	<p>Qualification criteria:-</p> <ol style="list-style-type: none"> 1. The bidder shall be an original equipment manufacturer (HP, DELL, IBM/LENOVO) OR an authorized partner of any one of these OEMs. Bids from any other make or computer assemblers will be rejected. In case of authorized partner the bidder must submit Authorization letter from OEM authorizing him to quote for the Tender. 2. The bidder shall have experience of executing similar works (Supply of similar workstations and servers) for any major project / customer in last three years, ending on 31st March 2013. <p>BIDDER should have executed a maximum of three orders of the total value of more than INR one crore. Copies of purchase orders and dispatch documents should be furnished for proof of the above.</p>	

For the above orders:-		
if quoted by	ordered on	documents required
OEM	OEM	PO COPY & DESPATCH PROOF FROM OEM
DEALER	DEALER	PO COPY & DESPATCH PROOF FROM DEALERS
OEM	DEALER	PO COPY FROM DEALER & QUOTATION COPY FROM OEM AND PROOF OF DESPATCH FROM DEALERS
DEALER	OEM/ DISTRIBUTORS	PO COPY FROM OEM / DISTRIBUTORS & QUOTATION COPY FROM DEALER AND PROOF OF DESPATCH FROM OEM/ DISTRIBUTORS.
If the above terms are not complied with, the offer will be liable for rejection.		
20	<p>Reverse auction: against this enquiry for the subject item /system with detailed scope of supply as per enquiry specifications, BHEL EDN reserves the right to follow REVERSE AUCTION PROCEDURE i.e, ON LINE BIDDING ON NETWORK, before finalizing the purchase order on technically competent bidders, as per the guidelines given in Annexure G enclosed. In case BHEL does not resort to Reverse Auction the price bids and price impacts (if any) already submitted and available with BHEL shall only be opened as per BHEL's standard practice without seeking any more price impacts on account of BHEL not going for Reverse Auction an process further</p>	
21	VENDOR to confirm that the quoted model will be supplied till the Completion of delivery.	

PI note: - 1) BHEL EDN shall be at liberty to cancel the tender at any time, before ordering, without assigning any reason.

2) HIGH SEA SALE OFFER WILL BE CONSIDERED.

BHEL

BIDDER

Guidelines for Indian Agents of Foreign Suppliers

- 1.0 There shall be compulsory registration of agents for all Global (Open) Tender and Limited Tender. An agent who is not registered with BHEL shall apply for registration in the registration form in line with SEARP.
 - 1.1 Registered agents will file an authenticated Photostat copy duly attested by a Notary Public/Original certificate of the Principal confirming the agency agreement and giving the status being enjoyed by the agent and the commission/ remuneration/ salary/ retainership being paid by the principal to the agent before the placement of order by BHEL.
 - 1.2 Wherever the Indian representatives have communicated on behalf of their principals and the foreign parties have stated that they are not paying any commission to the Indian agents, and the Indian representative is working on the basis of salary or as retainer, a written declaration to this effect should be submitted by the party (i.e. Principal) before finalizing the order.
- 2.0 Disclosure of particulars of agents/ representatives in India, if any.**
- 2.1 Tenderers of Foreign nationality shall furnish the following details in their offers:
 - 2.1.1 The Bidder(s)/ Contractor(s) of foreign origin shall disclose the name and address of the agents/ representatives in India if any and the extent of authorization and authority given to commit the Principals. In case the agent/ representative be a foreign Company, it shall be confirmed whether it is existing Company and details of the same shall be furnished.
 - 2.1.2 The amount of commission/ remuneration included in the quoted price(s) for such agents/ representatives in India.
 - 2.1.3 Confirmation of the Tenderer that the commission/ remuneration, if any, payable to his agents/ representatives in India, may be paid by BHEL in Indian Rupees only.
 - 2.2 Tenderers of Indian Nationality shall furnish the following details in their offers:
 - 2.2.1 The Bidder(s)/ Contractor(s) of Indian Nationality shall furnish the name and address of the foreign principals, if any, indicating their nationality as well as their status, i.e. whether manufacturer or agents of manufacturer holding the Letter of Authority of the Principal specifically authorizing the agent to make an offer in India in response to tender either directly or through the agents/ representatives.
 - 2.2.2 The amount of commission/ remuneration included in the price (s) quoted by the Tenderer for himself.
 - 2.2.3 Confirmation of the foreign principals of the Tenderer that the commission/ remuneration, if any, reserved for the Tenderer in the quoted price(s), may be paid by BHEL in India in equivalent Indian Rupees on satisfactory completion of the Project or supplies of Stores and Spares in case of operation items.
 - 2.3 In either case, in the event of contract materializing, the terms of payment will provide for payment of the commission/ remuneration, if any payable to the agents/ representatives in India in Indian Rupees on expiry of 90 days after the discharge of the obligations under the contract.
 - 2.4 Failure to furnish correct and detailed information as called for in paragraph 2.0 above will render the concerned tender liable to rejection or in the event of a contract materializing, the same liable to termination by BHEL. Besides this there would be a penalty of banning business dealings with BHEL or damage or payment of a named sum.

Annexure-B

This format is applicable only to Indian Suppliers/ Agents supplying indigenous portion of Foreign Purchases.

* In all other cases, extant guidelines of SEARP, 2010 are to be followed.

SEARP (SRF) Clause No	Detail
	Name & address of the firm
1.0	Products/ Systems / Services being considered for
2.0	General Information
2.2	Name of Chief Executive
2.3	Details of authorized signatory
3.0	Ownership Information
3.1	Type of firm
3.2	Nature of Business <ul style="list-style-type: none"> • Attach authorization letter and agency agreement from Principal (from whom capital equipment is procured) • Attach copy of declaration from Foreign Principal for total guarantee/ warranty of indigenous supplies
3.3	Year of establishment
3.4	Year of commencement of business
4.0	Registration particulars
4.1	Permanent Account No.
4.2 / 4.3	Sales Tax / TIN no
4.6	Service tax no. (in case of E&C)
5.0	Organisational strength
6.0	Other particulars
6.1	If the company is already registered with other units
6.2	Directors/ Partners, if related to any BHEL Employee
6.9	If any Ex BHEL Personnel employed by the Company
6.12	Details of pending legal issues with BHEL
6.13	Bank Account information
9.0	Financial information
9.6	Sales/ Turnover details of last 3 years (or from the date of incorporation whichever is less)

---X---

LIST OF INTERNATIONAL AIRPORTS

Sl. No	Country	Air Ports
1	Austria	Vienna, Linz, Graz
2	Australia	Sydney, Melbourne, Perth
3	Belgium	Antwerp, Brussels
4	Canada	Toronto, Montreal
5	China	Shangai
6	Cyprus	Lamaca
7	Czech Republic	Prague (Via Frankfurt)
8	Denmark	Copenhagen
9	Egypt	Cairo
10	Finland	Helsinki
11	France	Paris (Rosy), Lyon
12	Germany	Darmstadt, Manihem, Nurnberg, Hamburg, Stuttgart, Munich, Koln, Dusseldorf & Hannover, Frankfurt, Berlin
13	Hongkong	Hongkong
14	Italy	Rome, Milan, Turin, Bologna, Florence
15	Ireland	Dublin
16	Isrel	Telaviv
17	Japan	Tokyo, Osaka
18	Malaysia	Kaulalampur, Penang
19	Neatherlands	Amsterdam, Rotterdam
20	Newzealand	Auckland
21	Norway	Oslo
22	Oman	Muscat
23	Philiphines	Manila
24	Romania	Bucharest
25	Russia	Moscow
26	Saudi Arabia	Riyad
27	Singapore	Singapore
28	Slovakia	Bartislowa
29	South Africa	Johannesburg, Durban
30	South korea	Kimpo
31	Spain	Barcelona
32	Sweden	Stockholm, Gothenburg, Milano
33	Switzerland	Basle, Zurich, Geneva
34	Taiwan	Taipei
35	U.A.E.	Dubai
36	U.K.	Landon (Heathrow), Newcastle, Oxford, Cheltham, Bristol, Wellingborough, Birmingham, East Midland, Manchester, Leeds, Glasgow.
37	U.S.A.	Newyork, Chicago, Sanfrancisco, Los Angeles, Atlanta
38	Ukraine	Kiev

BHEL EDN APPROVED TRANSPORTERS FOR INLAND ROAD TRANSPORTATION

1. M/s Awagaman Road Carriers Ltd., Bangalore. (AWG)
2. M/s BLR India pvt., Ltd., Bangalore. (BLR)
3. M/s Delhi Assam Roadways corporation Ltd., Bangalore. (DRL)
4. M/s Indo Arya Central transport Ltd., Bangalore. (IACT)
5. M/s Prakash parcel Services, Bangalore. (PPS)
6. M/s Road Carrier of India, Bangalore. (RCI)
7. M/s Union Roadways Ltd., Bangalore. (URL)

PERFORMANCE BANK GUARANTEE

(FOR FOREIGN PURCHASE ORDERS)

BANK NAME AND ADDRESS

Bharat Heavy Electricals Limited (BHEL),
Electronics Division,
PB No. 2606,
Mysore Road,
BANGALORE- 560 026
INDIA

Dear Sir,

Ref: CONTRACT PERFORMANCE GUARANTEE.

WHEREAS you have entered into a contract reference No PO NO. _____
with M/s _____ having its registered office
at _____ for the supply of
_____ as detailed in your purchase order No.
_____ which is hereinafter referred to as "the said contract" and

WHEREAS M/s _____ has
undertaken to produce a Bank Guarantee for 10% (Ten Percent) of _____ the contract
price amounting to _____ (_____)
_____) to secure its obligations to Electronics Division, BHEL
having its registered office at New Delhi for the performance of the contract including the
warranty of the equipment supplied, We _____ Bank
, _____ hereby expressly, irrevocably and
unreservedly undertake and guarantee as principal obligors on behalf of
M/s _____ that in the event Bharat Heavy Electricals
Ltd. (B.H.E.L.) declares to us in writing that M/s _____
has not fulfilled any obligation according to the contractual obligation of the said contract,
to pay you on demand and without demur to Bharat Heavy Electricals Ltd., Electronics
Division , Mysore Road, P.B.No. 2606, Bangalore-560 026, India an amount of
_____ (in _____ words
_____)

subject to as may be determined below:

- 1) Notwithstanding any right M/s. _____ may have
directly against you or any disputes raised by M/s
_____, Your written demand
shall be conclusive evidence to us that repayment is due under the terms of the said
contract and shall be binding on us.
- 2) We shall not be discharged or released from this undertaking and Guarantee by
any arrangements, variations made between you and M/s.
_____ with or without our consent and Knowledge or

by any alterations in the obligations of M/s. _____ by any forbearance whether as to payment, time, performance or otherwise.

- 3) This guarantee shall remain valid until the end of twenty-four weeks after the close of the warranty period or until the same is reported by BHEL to us whichever is earlier.
- 4) We agree and undertake not to revoke this guarantee during its validity unless discharged in writing by you subject to the provision of clause (7) below.
- 5) This guarantee shall be a continuing guarantee subject to the foregoing and shall not be discharged by any change in the constitution of the Bank or M/s. _____.
- 6) This guarantee shall be governed by and constructed in accordance with the Laws of India.
- 7) At any time _____ Bank may render this guarantee null and void by paying to Bharat Heavy Electricals Ltd. the full amount being _____ (in _____ words _____)

For and on behalf of Bank
by its Authorised Signatory

Note:

- (1) To be executed in INR 100 Non-Judicial stamp paper by any authorized Indian Bank.
- (2) To be submitted directly by banker to concerned executive in purchase dept., Please give BHEL address to banker.
- (3) Do not enclose with Bank document.
- (4) Any Modification & omissions to this are not permitted

PERFORMANCE BANK GUARANTEE

(FOR INDIGENOUS PURCHASE ORDERS)

THIS DEED OF GUARANTEE made and executed on the _____ day of _____ (year), by the _____ (Bank), registered under the Companies Act 1956/Nationalised Bank constituted under the Banking Companies (acquisition and transfer of undertakings) Act constituted under the State Bank of India Act / Subsidiary Banks Act, having its registered / head office at _____ represented herein by its Branch Manager / authorised representative Sri. _____ & Sri. _____ (Hereinafter called 'guarantor ' which term shall mean and include its successors and assigns)

IN FAVOUR OF BHARAT HEAVY ELECTRICALS LIMITED

_____ (Buyer's Name), a company registered under the companies Act, 1956 having its registered office at BHEL House at Siri Fort , New Delhi-100 049 and its Electronics Division at Mysore road, Bangalore-26 (hereinafter referred to as the 'Company' Which term shall include its successors and assigns):

Whereas the company has placed an order on _____ (State the name of the company / firm and its address) (hereinafter referred to as the 'Supplier' which term shall mean and include its liquidators, successors and assign) for the supply of system under order / Contract No _____ Dt _____.

AND WHEREAS the supplier has agreed to supply the materials and carryout the works as detailed and in accordance with the terms set out in the said order/contract.

AND WHEREAS the company is not required to pay to the supplier a sum of Rupees _____ being the 10% of the value of the goods supplied / Works performed / Services rendered under the said order / contract between the supplier and the company, till the company is satisfied with the mechanical Warranties and the performance standards stipulated in the said order / contract between the company and the supplier has been duly fulfilled, except against a Bank Guarantee for the said sum of Rs _____ in favour of the company by reputed Bank, in which case the company has agreed to make payment to the supplier of the said sum of Rupees _____ being (...%) of the value of the goods supplied / Works performed / Services rendered under the agreement between the supplier and the company and the Guarantor has at the request of the supplier, agreed to furnish this Guarantee subject to the terms and conditions stated below:

NOW THIS DEED WITNESSES THAT IN pursuance of the above said agreement, the guarantor hereby agrees and covenants With company is as follows :-

- 1) That during the period this contract of Guarantee remains effectual, the guarantor shall be liable in respect of the amount due and owing to the company in respect of the payments to the extent of Rs _____ (in words)

_____ against any loss or damage caused to or suffered by the company by reasons of any breach of the terms of the said order / contract / Agreement by the supplier.

- 2) The Guarantor hereby undertakes to pay the amounts due and payable under this guarantee without any demur, merely on demand from the company intimating that the amount claimed is due by way of loss or damage caused to or suffered or would be caused or suffered by the supplier of any terms contained in the said order / contract. Any such demand made on the guarantor shall be conclusive as regards the amount due and payable by the Guarantor irrespective of the fact whether the Contractor / supplier admits or denies.
- 3) The Guarantor further agrees that the agreement herein contained shall remain in force and effect till all the supplies to be made / Works to be performed / Services to be rendered under the said order / contract / agreement are completed to the entire satisfaction of the company or till company certifies that the terms and conditions of the said order / contract / agreement have been fully and properly carried out by the said supplier and accordingly discharges the Guarantee. Unless a demand or claim under this guarantee is made on the guarantor in writing on or before the expiry of claim period indicated in clause 6 below , the guarantor shall be discharged from all the liability under this guarantee thereafter.
- 4) The guarantor further agrees with the company that the company shall have the fullest liberty without the consent of the guarantor and without effecting in any manner the obligations of the guarantor hereunder to vary any of the terms of the said order / contract / agreement or extend the time of performance by the said supplier from time to time or refrain from exercising the power exercisable by the company against the said supplier or to forebear or omit to enforce any of the terms and conditions relating to the said order / contract / agreement, and the guarantor shall not be relieved of its liability in whole or in part , by reason of any act, commission or forbearance on the part of the company or by reason of any such variation, or extension being granted to the said supplier or by reason of any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving the guarantor.
- 5) The guarantor undertakes not to revoke this guarantee during its currency except with the previous consent of the company in writing.
- 6) Notwithstanding anything herein above contained, the liability of the guarantor under these presents is restricted to Rs_____. The guarantee shall be in force till its expiry on _____ unless a demand is made on the guarantor within SIX months from the date of expiry, all the liability of the guarantor under this guarantee shall stand fully discharged. The decision of the claimant in regard to breach of contract is final and binding on the Bank.

IN WITNESS whereof, the guarantor, acting through it authorised representative has executed this deed of Guarantee on the day, month and year first above written.

(Seal of the Bank to be affixed)

WITNESS

- 1.
- 2.

BHEL MEMBER BANKS (CONSORTIUM BANKS)

PBG SHALL BE ISSUED FROM THE FOLLOWING BANKS OR THEIR BRANCH OFFICES ONLY

1	STATE BANK OF INDIA
2	PUNJAB NATIONAL BANK
3	HDFC BANK
4	SYNDICATE BANK
5	CANARA BANK
6	INDIAN BANK
7	ST. BANK OF HYDERABAD
8	ICICI BANK
9	STANDARD CHARTERED BANK
10	UCO BANK
11	KOTAK MAHINDRA
12	ORIENTAL BANK OF COMMERCE
13	STATE BANK OF TRAVANCORE
14	CENTRAL BANK
15	IDBI BANK
16	FEDERAL BANK
17	HSBC LTD
18	DEUTSCHE BANK
19	CORPORATION BANK
20	CITI BANK
21	BANK OF BARODA
22	ABN AMRO BANK
23	UNITED BANK OF INDIA
24	VIJAYA BANK
25	UNION BANK OF INDIA
26	PUNJAB & SIND BANK
27	ANDHRA BANK
28	BANK OF INDIA
29	AXIS BANK

ANNEXURE - F

This format is applicable only to Indian Suppliers/ Agents supplying indigenous portion of Foreign Purchases.

SEARP (SRF) Clause No	Detail
	Name & address of the firm
1.0	Products/ Systems / Services being considered for
2.0	General Information
2.2	Name of Chief Executive
2.3	Details of authorized signatory
3.0	Ownership Information
3.1	Type of firm
3.2	Nature of Business <ul style="list-style-type: none">• <i>Attach authorization letter and agency agreement from Principal (from whom capital equipment is procured)</i>• <i>Attach copy of declaration from Foreign Principal for total guarantee/ warranty of indigenous supplies</i>
3.3	Year of establishment
3.4	Year of commencement of business
4.0	Registration particulars
4.1	Permanent Account No.
4.2 / 4.3	Sales Tax / TIN no
4.6	Service tax no. (in case of E&C)
5.0	Organisational strength
6.0	Other particulars
6.1	If the company is already registered with other units
6.2	Directors/ Partners, if related to any BHEL Employee
6.9	If any Ex BHEL Personnel employed by the Company
6.12	Details of pending legal issues with BHEL
6.13	Bank Account information
9.0	Financial information
9.6	Sales/ Turnover details of last 3 years (or from the date of incorporation whichever is less)



Electronics Division, Bangalore

ANNEXURE - G

GUIDELINES FOR REVERSE AUCTION PROCEDURE

Against this enquiry for the subject item/system with detailed scope of supply as per enquiry specifications, BHEL-EDN proposes to resort to "REVERSE AUCTION PROCEDURE" i.e., ON LINE BIDDING ON NETWORK, before finalizing the purchase order on technically competent bidders as per the guidelines given below:

1. Reverse Auction procedure shall be applicable for 2 Part bid tenders only.
2. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate, BHEL will engage the services of a service provider, having network all over the world. The online bidding can be done from the vendor's respective offices on their computers with Internet facility or at any of the cyber cafe, for which service provider's representative will provide all necessary training and assistance before commencement of on line bidding. Training is free of cost .
3. Vendors have to fax the Compliance form in the prescribed format (provided by Service provider) before start of Reverse auction. Without this, Reverse auction will not be started. Delay in faxing the above will lead to disqualification.
4. BHEL will send the Auto formulated EXCEL sheet which will help to arrive at "Total Cost to BHEL" like Basic Material cost, Packing & forwarding charges, Excise duty, Sales Tax/VAT, Freight charges, Insurance (by BHEL), Service Tax for Services,(-) ED disclaimer if any, and loading factors (for non-compliance to BHEL standard Commercial terms & conditions) for each of the vendor to enable them to fill-in the price and keep it ready for keying in during the Auction.
5. Reverse auction will be conducted on a mutually agreed schedule and time.
6. After Reverse auction is conducted , successful bidder has to Fax the Filled-in Excel sheet showing the final value accepted in Reverse Auction with breakup of each element as indicated in Sl No. 4 above to the service provider within 48 hours of Auction without fail.

Note: No changes are allowed in Rate of Excise Duty, Sales Tax, Freight, Insurance, Service Tax and Loading factors after auction is completed.

7. After the reverse auction is conducted, the bidder whose price is lowest (total cost to BHEL, after considering all factors as per enquiry including Loading factors for deviations to BHEL standard Commercial Terms & conditions), BHEL will process the tender as per BHEL purchase norms. Purchase order will be issued without loading factors for deviations.

Note: BHEL will also reserve the right to open the sealed price offer submitted by the vendors for comparison purpose, if deemed necessary, without any intimation to the technically and commercially accepted bidders.

8. In case BHEL decides not to go for Reverse Auction procedure for this tender enquiry, the Price bids and price impacts (if any) already submitted and available with BHEL shall only be opened as per BHEL's standard practice without seeking anymore price Impacts on account of BHEL not going for Reverse Auction. Hence please quote your best lowest price in first instant itself.
9. Training by service provider will be given only once for the subsequent reverse auction. Training will not be given for a company which has already taken training for the FIRST REVERSE AUCTION conducted by BHEL-EDN, Bangalore.



Electronics Division, Bangalore

GUIDELINES FOR REVERSE AUCTION PROCEDURE

10. **Activities involved in Reverse Auction :**

- a) BHEL will inform the vendor in writing, the Service provider's information to enable them to contact & get trained. Alongwith the above information Business rules/policy also will be sent.
- b) Vendors have to contact Service provider and send Compliance form for having understood Reverse Auction procedure and ready for Auction.
- c) BHEL will send the Auto formulated Excel sheet (blank format without prices) as mentioned in SI No.4 above to the respective vendors.
- d) Vendors have to fill-in the Excel sheet (provided by BHEL) including Loading factors and get ready for Reverse Auction.
- e) Date & Time of Reverse Auction and Website address will be intimated by Service Provider.
- f) Bid decrement will be indicated in the Website after the Sealed bid is over and before start of Reverse Auction.
- g) Vendors will have to key-in the "Total cost to BHEL" (as worked out in the Excel sheet mentioned in SI No.4 above) in the "Sealed Bid" of the Reverse Auction within specified time duration of 20 to 30 minutes. After "Sealed Bid" auction, the lowest bidder's value or BHEL's start bid price will be the starting bid value for the commencement of Reverse Auction (English Reverse).
- h) At the end of Reverse Auction time (English Reverse), the lowest bidder value will be known on the network.
- i) Successful bidder has to fax the filled-in EXCEL sheet showing the final value accepted in the Reverse Auction with breakup of each component within 48 hours of completion of the Reverse Auction without altering any of the terms to the service Provider. Any alterations will be taken as sabotaging the tender process and will invite disqualification of vendor to conduct business with BHEL for the period of 2 years.
- j) The loading factors for non-conformance to BHEL standard commercial terms are only for arriving at lowest Bidder. In the event of Purchase order, same will be issued without loading factor values indicated in EXCEL Sheet. We repeat PO, will be issued for scope of supply+ Packing & Forwarding charges if any, Excise duty, Sales Tax, Service Tax for services and Freight & Insurance. Insurance will be to BHEL Account.



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
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REVISION HISTORY SHEET

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REV No.	DATE	NATURE OF CHANGE	REASON	PREPARED BY	REVIEWED BY
00	05/04/2013	FIRST ISSUE	---	ST	PRS

		Revision: 00	 Reviewed by: PRITHVI RAJ S		
			Prepared by	Issued by	Date
			 Sakeer T	CE-Engg (HMI) - 404	05.04.2013

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			REV: 00	
			PAGE 02 OF 05	
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		Revision: 00	Reviewed by: Prithvi Raj S 	
		Prepared by  Sakeer T	Issued by CE-Engg (HMI) - 404	Date 05.04.2013



A4-11

STATION LAN SERVER WITH DUAL CPU AND RAID 5

PS / 404 / 2418


Rev 00

PAGE 03 OF 05

(A) SERVER BASE UNIT – DA0659452480

SPECIFICATION:	SUPPLIER REMARKS (YES/NO)
Make: DELL , HP/ COMPAQ, IBM / LENOVO	
Type : SERVER TOWER / CMT Power Supply: Redundant, Hot swappable Power Supplies. Input: 100 to 240 VAC; 50~60Hz.Redundant Fan Kit, Power Cords (suitable for Indian type sockets) for both Power Supplies to be provided.	
Restart: Must have power failure protection Processor: Two nos. of Quad Core Intel Xeon Processor E5600 series or E5-2600 series, 1.80 GHz (min) or better, 1066 MHz FSB	
RAM: 4GB minimum (dual channel symmetric:2 GB per channel preferred) ECC DDR3 Ram, expandable to minimum 4 GB Hard drive: Minimum of 3 Nos. x 450Gb SAS Hot swappable Hard Disks.	
Graphics: Integrated / Graphic controller supporting 1600 x 1280 resolution with true colors. Should support 22" / 24" LED Backlit Monitors	
DVD WRITER (DVD-RW): DVD ± RW multi-layer Drive, must support Multi-Read. Minimum software: Roxio/Nero Direct CD software ver 5 or later must be installed DVD ROM: DVD-ROM Drive , must support Multi-Read operation, along with suitable driver	
Expansion Slots: Minimum 5 Nos. of which 4 Nos. must be PCIe based slots	
Ethernet Ports: Three (3) 10 / 100 Base-T Ethernet ports with RJ45 connectors, plug in on PCI/PCI Express slots in addition to onboard RJ45 port. PC manufacturer supplied NIC Cards should be provided. Ethernet cards must use same driver	
Ports: As a minimum 1 No. Standard Serial Port, 4 Nos. USB (Or USB to Serial converter to be provided)	
RAID: RAID controller and associated hardware/software, for RAID 5 implementation to be provided. RAID 5 to be implemented.	
Video Ports & Connectors: DVI / Analog VGA ports or adapters	
Keyboard/ Mouse : PS/2 / USB Standard keyboard and PS/2/ USB optical scroll mouse with mouse pad.	
OS: Should support Windows 2008 R2 Server OS.	
Chassis Lock : Chassis lock to be provided	
Warranty : 3 years On-site Comprehensive Warranty to be provided	
Browser : Microsoft Internet Explorer, version 5 or above	
Drivers: All controllers to be supplied with drivers suitable for Windows 2008 R2 Server, along with installation / set up utilities and System Management software.	





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	 <p>भारत भारती एल A4-11</p>	<p>STATION LAN SERVER WITH DUAL CPU AND RAID 5</p>	<p>PS / 404 / 2418 Rev 00 PAGE 03 OF 05</p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Copy Right And Confidential The Information On This Document Is The Property Of Bharat Heavy Electricals Limited . It Must Not Be Used Directly Or Indirectly In Any Way Detrimental To The Interest Of The Company.</p>	<p>(B) NOTE</p> <ol style="list-style-type: none"> 1. Initial installation will be at our works in BHEL/EDN, Bangalore for testing along with customer. Subsequently material will be sent to site. 2. Any deviations with respect to the above specification should be brought out in the offer otherwise offer may be rejected 3. Installation of Windows 2008 R2 Server and RAID 5 Configuration shall be done by Vendor at the time of initial installation of machines at BHEL, EDN. 4. All components must be compatible for Windows 2008 R2 Server 5. PSPEC should be filled in all respects and all options answered and duly signed by supplier. This is mandatory and offer will be rejected on non submission. <p>(C) DOCUMENTS TO BE GIVEN ALONG WITH QUOTATION</p> <ol style="list-style-type: none"> 1. Technical data sheet for Server. 2. Filled checklists given in this specification, duly signed by supplier. 3. Single point contact detail to be furnished for After sales service support under Warranty. 4. Deviations, if any, to our specification. <p>(D) DOCUMENTS TO BE GIVEN ALONG WITH EQUIPMENT</p> <ol style="list-style-type: none"> 1. Manuals / CD's for computer to be supplied. <p>(E) TEST CERTIFICATE</p> <ol style="list-style-type: none"> 1. Test Certificates for the System to be provided on installation. <p>(F) WARRANTY</p> <ol style="list-style-type: none"> 1. Three Year Comprehensive On site warranty for all equipment / accessories supplied is to be provided. 		

CHECKLIST FOR SERVER STATION WITH DUAL CPU & RAID 5

To be filled by the supplier. - DA0659452480

Sr. No.	Details	Remarks
A.1	Make: DELL / HP-COMPAQ / IBM -LENOVO.	YES/NO
A.2	Type: Server	
A.3	Power Supply: Redundant, Hot swappable Power Supplies. Input: 100 to 240 VAC; 50~60 Hz.Redundant Fan Kit, Power Cords (suitable for Indian type sockets) for both Power Supplies to be provided.	YES/NO
A.4	Restart: Must have power failure protection	YES/NO
A.5	Processor: Dual CPU, Quad Core Intel Xeon Processor E5600 Series - 2.00 GHz (min) / E5-2600 Series – 1.8GHz (min) or better, 1066 MHz FSB (minimum)	YES/NO
A.6	Hard drive: Minimum of 3 Nos. x 450Gb SAS Hot swap Hard Disks.	YES/NO
A.7	SAS Controller: OEM supplied SAS Controller	YES/NO
A.8	RAM: 4GB minimum(dual channel symmetric:2 GB per channel) ECC DDR Ram, expandable to minimum 16 GB	YES/NO
A.9	DVD-RW: 1 DVD +/- RW DUAL LAYER with Light-Scribe or equivalent SATA Drive, must support Multi-Read. Minimum software: Roxio/Nero Direct CD software ver 5 or later must be installed.	YES/NO
A.10	DVD ROM: 48X DVD-ROM SATA Drive , must support Multi-Read operation, along with suitable driver	YES/NO
A.11	Expansion Slots: Minimum 5 Nos. of which 4 Nos. must be PCIe Slots	YES/NO
A.12	Ethernet Ports: Three (3) 10 / 100 Base-T Ethernet ports with RJ45 connectors, plug in on PCI/PCI Express slots in addition to onboard port. PC manufacturer supplied NIC Cards should be provided. Ethernet cards must use same drivers.	YES/NO
A.13	Serial Port: 1 No. Standard Serial Port	YES/NO
A.14	USB Port: Minimum of Four (4) USB port	YES/NO
A.15	RAID: RAID controller and associated hardware/software, for RAID 5 implementation to be provided. RAID 5 to be implemented.	YES/NO
A.16	Keyboard/ Mouse: Standard keyboard and optical scroll mouse with mouse pad.	YES/NO
A.17	Browser: Microsoft Internet Explorer, version 5 or above.	YES/NO
A.18	Drivers: All controllers to be supplied with drivers suitable for Windows 2008 R2 Server, along with installation / set up utilities and System Management software.	YES/NO
A.19	Chassis lock provided	YES/NO
A.20	WARRANTY: Three years on-site comprehensive warranty	YES/NO
A.21	Graphics: Integrated / graphics controller. Confirm that offered configuration supports 22" / 24" LED Backlit Monitors	YES/NO
B.1	Initial installation will be at our works in BHEL/EDN, Bangalore for testing along with customer. Subsequently material will be sent to site	YES/NO
B.2	Any deviations with respect to the above specification should be brought out in the offer otherwise offer may be rejected	YES/NO
B.3	Installation of Windows 2008 R2 Server along with RAID 5 configuration shall be done by Vendor at the time of initial installation of machines at BHEL, EDN.	YES/NO
B.4	All components must be compatible for Windows 2008 R2 Server	YES/NO
	Supplier's signature & Seal	

			PURCHASE SPECIFICATION SERVER STATION WITH RAID 5			PS / 404 / 2419
						REV. No. 00
						PAGE 2 OF 5
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REVISION : 00						
Approved		 PRS				
		Prepared  SAKEER T	Checked  PRS	Issued CE-Engg / HMI	Date 05-04-13	



PURCHASE SPECIFICATION
Server Station with RAID 5

PS /404 / 2419

REV. No. 00

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REVISION HISTORY SHEET


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Rev No.	DATE	Nature Of change	Reason	Prepared by	Checked by	Approved by
00	05/04/13	FIRST ISSUE	--	ST	PRS	PRS

REVISION : 00

Approved 
PRS

Prepared

SAKEER T

Checked

PRS

Issued
CE-Engg / HMI

Date
05-04-13



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PURCHASE SPECIFICATION
Server Station with RAID 5

PS / 404 / 2419

REV. No. 00


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(A) BASE UNIT - DA0659452499

Category	Requirement
Make	DELL / HP-COMPAQ / IBM -LENOVO.
Type	Server
Power Supply	Redundant, Hot swappable Power Supplies. Input: 100 to 240 VAC; 50~60 Hz. Redundant Fan Kit, Power Cords (suitable for Indian type sockets) for both Power Supplies to be provided.
Restart	Must have power failure protection.
Processor	Intel Xeon Processor E5600 Series - 2.00 GHz (min) / E5-2600 Series – 1.8GHz (min) or better, 1066 MHz FSB (minimum)
Hard drive	Minimum of 3 Nos. x 450 Gb SAS Hot swappable Hard Disks.
SAS Controller	Manufacturer supplied SAS Controller
RAM	4GB minimum(dual channel symmetric:2 GB per channel) ECC DDR3 Ram, expandable to minimum 16 GB
DVD-RW	DVD +/- RW DUAL LAYER with Light-Scribe or equivalent SATA Drive, must support Multi-Read. Minimum software: Roxio/Nero Direct CD software ver 5 or later must be installed.
DVD ROM	48X DVD-ROM SATA Drive , must support Multi-Read operation, along with suitable driver
Expansion Slots	Minimum 5 Nos. of which 4 nos. must be PCIe slots,
Ethernet Ports	Three (3) 10 / 100 Base-T Ethernet ports with RJ45 connectors, plug in on PCI/PCI Express slots in addition to onboard RJ45 port. PC manufacturer supplied NIC Cards should be provided. Ethernet cards must use same drivers.
Serial Port	1 No. Standard Serial Port
USB Port	Minimum of Four (4) USB port
RAID	RAID controller and associated hardware/software for RAID 5 implementation to be provided. RAID 5 to be implemented.
Keyboard/ Mouse	Standard keyboard and optical scroll mouse with mouse pad.
Browser	Microsoft Internet Explorer, version 5 or above.
Drivers	All controllers to be supplied with drivers suitable for Windows 2008 R2 Server, along with installation / set up utilities and System Management software.
Chassis lock	Chassis lock to be provided
WARRANTY	Three years on-site comprehensive warranty
GRAPHICS	Configuration offered Should support LED based 22" / 24" TFT Monitors

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	 <p>बि एच ई एल A4 - 11</p>	<p align="center">PURCHASE SPECIFICATION Server Station with RAID 5</p>	<p>PS / 404 / 2419</p>
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			<p>REV. No. 00</p>
			<p>PAGE 3 OF 4</p>

CHECKLIST FOR SERVER STATION WITH RAID 5

To be filled by the supplier. DA0659452499

Sr. No.	Details	Remarks
A.1	Make: DELL / HP-COMPAQ / IBM -LENOVO.	YES/NO
A.2	Type: Server – MODEL Quoted	MODEL:-
A.3	Power Supply: Redundant, Hot swappable Power Supplies. Input: 100 to 240 VAC; 50~60 Hz. Redundant Fan Kit, Power Cords (suitable for Indian type sockets) for both Power Supplies to be provided.	YES/NO
A.4	Restart: Must have power failure protection	YES/NO
A.5	Processor: Quad Core Intel Xeon Processor E5600 Series - 2.00 GHz (min) / E5-2600 Series – 1.8GHz (min) or better, 1066 MHz FSB (minimum)	YES/NO
A.6	Hard drive: Minimum of 3 Nos. x 450Gb SAS Hot swap Hard Disks.	YES/NO
A.7	SAS Controller: OEM supplied SAS Controller	YES/NO
A.8	RAM: 4GB minimum(dual channel symmetric:2 GB per channel) ECC DDR Ram, expandable to minimum 16 GB	YES/NO
A.9	DVD-RW: DVD +/- RW DUAL LAYER with Light-Scribe or equivalent SATA Drive, must support Multi-Read. Minimum software: Roxio/Nero Direct CD software ver 5 or later must be installed.	YES/NO
A.10	DVD ROM: 48X DVD-ROM SATA Drive , must support Multi-Read operation, along with suitable driver	YES/NO
A.11	Expansion Slots: Minimum 5 Nos. of which 4 nos. must be PCIe slots	YES/NO
A.12	Ethernet Ports: Three (3) 10 / 100 Base-T Ethernet ports with RJ45 connectors, plug in on PCI/PCI Express slots in addition to onboard port. PC manufacturer supplied NIC Cards should be provided. Ethernet cards must use same drivers.	YES/NO
A.13	Serial Port: 1 No. Standard Serial Port	YES/NO
A.14	USB Port: Minimum of Four (4) USB port	YES/NO
A.15	RAID: RAID controller and associated hardware/software, for RAID 5 implementation to be provided. RAID 5 to be implemented.	YES/NO
A.16	Keyboard/ Mouse: Standard keyboard and optical scroll mouse with mouse pad.	YES/NO
A.17	Browser: Microsoft Internet Explorer, version 5 or above.	YES/NO
A.18	Drivers: All controllers to be supplied with drivers suitable for Windows 2008 R2 Server, along with installation / set up utilities and System Management software.	YES/NO
A.19	Chassis lock provided	YES/NO
A.20	WARRANTY: Three years on-site comprehensive warranty	YES/NO
A.21	Confirm that configuration offered supports 22"/24" LED TFT Monitors	YES/NO
B.1	Initial installation will be at our works in BHEL/EDN, Bangalore for testing along with customer. Subsequently material will be sent to site	YES/NO
B.2	Any deviations with respect to the above specification should be brought out in the offer otherwise offer may be rejected	YES/NO
B.3	Installation of Windows 2008 R2 Server along with RAID 5 configuration shall be done by Vendor at the time of initial installation of machines at BHEL, EDN.	YES/NO
B.4	All components must be compatible for Windows 2008 R2 Server	YES/NO
	Supplier's signature & Seal	

			PURCHASE SPECIFICATION WORKSTATION PC's		PS/ 404/ 2417										
					REV. No. 00										
					PAGE 2 OF 11										
COPY RIGHT AND CONFIDENTIAL The information on this document is the property of Bharat Heavy Electricals Limited. It must not be used directly or indirectly in anyway detrimental to the interest of the company.		<h2 style="margin: 0;">PURCHASE SPECIFICATION FOR maxStation Windows 7 BASED SATA and SAS</h2>													
		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">1. OPERATOR STATION</td> <td style="width: 50%;">- SATA (OWS)</td> </tr> <tr> <td>2. ENGINEER STATION</td> <td>- SATA (EWS)</td> </tr> <tr> <td>3. ENGINEER STATION –RAID1</td> <td>- SATA (EWS)</td> </tr> <tr> <td>3. OPERATOR STATION</td> <td>- SAS (OWS)</td> </tr> <tr> <td>4. ENGINEER STATION</td> <td>- SAS (EWS)</td> </tr> <tr> <td>5. ENGINEER STATION -RAID1</td> <td>- SAS (EWS)</td> </tr> </table>				1. OPERATOR STATION	- SATA (OWS)	2. ENGINEER STATION	- SATA (EWS)	3. ENGINEER STATION –RAID1	- SATA (EWS)	3. OPERATOR STATION	- SAS (OWS)	4. ENGINEER STATION	- SAS (EWS)
1. OPERATOR STATION	- SATA (OWS)														
2. ENGINEER STATION	- SATA (EWS)														
3. ENGINEER STATION –RAID1	- SATA (EWS)														
3. OPERATOR STATION	- SAS (OWS)														
4. ENGINEER STATION	- SAS (EWS)														
5. ENGINEER STATION -RAID1	- SAS (EWS)														
		REVISION : 00	Approved  Prithvi Raj S												
		Prepared  Kamlesh Kr Jain	Checked  Kamlesh Kr Jain	Issued CE-Engg / HMI	Date 10/04/13										



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**PURCHASE SPECIFICATION
WORKSTATION PC's**

PS / 404 / 2417

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(A) WORKSTATION BASE UNIT - SATA


SPECIFICATION:	OPERATOR STATION SATA(OWS) DA065945 2510	ENGINEER STATION SATA(EWS) DA065945 2529	ENGINEER STATION RAID-1 SATA DA0659452 537
Make: DELL , HP/ COMPAQ, IBM / LENOVO	YES	YES	YES
Type : Tower / CMT	YES	YES	YES
Input: 100 to 240 VAC; 50/60Hz. Power Cords (suitable for Indian type sockets) to be provided.	YES	YES	YES
Restart: Must have power failure protection	YES	YES	YES
Processor: Intel Xeon E3-1200 Series (minimum 3.10GHz) or higher, Raid 0,1,5 capability, with Intel Chipset	YES	YES	YES
RAM: 4 GB (2 X 2GB symmetrical) DDR3 ECC (minimum 1333MHz) RAM, expandable to minimum 8 GB	YES	YES	YES
Hard drive: Minimum 500Gb SATA Hard Disk (7200 RPM).	YES	YES	2Nos.
Sound: Integrated Audio with in-built speakers	YES	YES	YES
Graphics: OEM recommended PCI-Express Graphics card with full 16X support, minimum 512 MB RAM, support 1600 x 1280 resolution with true colors. Dual Output.	YES	YES	YES
DVD WRITER (DVD-RW): 16X DVD +- RW multi-layer Drive, must support Multi-Read. Minimum software: Roxio/Nero Direct CD software ver 5 or later installed	NO	YES	YES
DVD ROM: 16X/48X DVD-ROM Drive, must support Multi-Read operation, along with suitable driver	YES	YES	YES
Expansion Slots: Minimum 3 Nos. PCIe based slots	YES	YES	YES
Ethernet Ports: 10/100/1000 Base-T Ethernet ports excluding Onboard port. Cards must be from OEM If Dual Onboard is available – 1 Dual Port NIC on PCIe additional	A: 2 NIC – PCIe B: Dual Onboard + 1 Dual Port NIC PCIe	A: 2 NIC – PCIe B: Dual Onboard + 1 Dual Port NIC PCIe	A: 2 NIC – PCIe B: Dual Onboard + 1 Dual Port NIC PCIe
Ports: 1 No. Standard Serial Port, 6 Nos. USB(minimum)	YES	YES	YES
Video Ports/Connectors: DVI/Analog VGA ports/adapters	YES	YES	YES
Keyboard/ Mouse : USB Standard keyboard and USB optical scroll mouse with mouse pad.	YES	YES	YES
Operating System: Genuine Windows 7 Professional 64 bit with latest service pack to be preloaded. WIN 7 Professional Recovery / IMAGE CD TO BE SUPPLIED	YES	YES	YES
Browser : Microsoft Internet Explorer, version 5 or above	YES	YES	YES
Drivers: All controllers to be supplied with CD having drivers suitable for Windows 7 Professional, with required installation / set up utilities.	YES	YES	YES
Security Feature: 1. Chassis lock	YES	YES	YES
WARRANTY : Three Years on-site comprehensive warranty	YES	YES	YES


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	 <p>बि. एच. ई. लि. A4 - 11</p>	PURCHASE SPECIFICATION SAS-WORKSTATION PC's	PS / 404 / 2417		
			REV. No. 00		
			PAGE 4 OF 11		
COPY RIGHT AND CONFIDENTIAL The information on this document is the property of Bharat Heavy Electricals Limited. It must not be used directly or indirectly in anyway detrimental to the interest of the company.	(B) WORKSTATION BASE UNIT - SAS				
	Category	Requirement			
	SPECIFICATION:	OPERATOR STATION SAS (OWS) DA06594 52545	ENGINEER STATION SAS (EWS) DA06594 52553	ENGINEER STATION RAID-1 SAS DA06594 52561	
	Make: DELL , HP/ COMPAQ, IBM / LENOVO WORKSTATION	YES	YES	YES	
	Type : Tower / CMT	YES	YES	YES	
	Input: 100 to 240 VAC; 50/60Hz. Power Cords (suitable for Indian type sockets) to be provided.	YES	YES	YES	
	Restart: Must have power failure protection	YES	YES	YES	
	Processor: Intel Xeon E3-1200 Series (minimum 3.10GHz) or E5-1600 (min 2.8GHz) or E5-2400 / 2600 Series (minimum 1.80GHz), Raid 0,1,5 capability, with Intel Chipset	YES	YES	YES	
	RAM: 4 GB (2 X 2GB symmetrical) DDR3 ECC (minimum 1066MHz) RAM, expandable to minimum 8 GB	YES	YES	YES	
	Hard drive: Minimum 450Gb SAS Hard Disk (3Gb/s min)	YES	YES	2 Nos.	
	SAS Controller : OEM SAS Controller card	YES	YES	YES	
	Sound: Integrated Audio with in-built speakers	YES	YES	YES	
	Graphics: OEM recommended PCI-Express Graphics card with full 16X support, with minimum 512 MB RAM, supporting 1600 x 1280 resolution with true colors. Dual Output	YES	YES	YES	
	DVD WRITER (DVD-RW): 16X DVD +- RW multi-layer Drive, must support Multi-Read. Minimum software: Roxio/Nero Direct CD software ver 5 or later must be installed	No	YES	YES	
	DVD ROM: 16X/48X DVD-ROM Drive , must support Multi-Read operation, along with suitable driver	YES	YES	YES	
	Expansion Slots: Minimum 4 Nos. PCIe based slots	YES	YES	YES	
	Ethernet Ports: 10/100/1000 Base-T Ethernet ports excluding Onboard port. Cards must be from OEM If Dual Onboard is available – 1 Dual Port NIC on PCIe additional	A: 2 NIC – PCIe B: Dual Onboard + 1 Dual Port NIC PCIe	A: 2 NIC – PCIe B: Dual Onboard + 1 Dual Port NIC PCIe	A: 2 NIC – PCIe B: Dual Onboard + 1 Dual Port NIC PCIe	
	Port: 1 No. Standard Serial Port, 6 Nos. USB (minimum)	YES	YES	YES	
	Video Ports & Connectors: DVI/Analog VGA ports or adapters	YES	YES	YES	
	Keyboard/ Mouse : USB Standard keyboard and USB optical scroll mouse with mouse pad.	YES	YES	YES	
Operating System: Genuine Windows 7 Professional 64 bit with latest service pack to be preloaded. WIN 7 Professional Recovery / IMAGE CD TO BE SUPPLIED	YES	YES	YES		
Browser : Microsoft Internet Explorer, version 5 or above	YES	YES	YES		
Drivers: All controllers to be supplied with CD having drivers suitable for Windows 7 Professional, with required installation / set up utilities.	YES	YES	YES		
Security Feature: 1. Chassis lock	YES	YES	YES		
WARRANTY : Three Years on-site comprehensive warranty	YES	YES	YES		


		 A4 - 11	PURCHASE SPECIFICATION WORKSTATION PC's	PS / 404 / 2417
				REV. No. 00
				PAGE 5 OF 11
<p>(B) NOTE</p> <ol style="list-style-type: none"> Initial installation will be at our works in BHEL/EDN, Bangalore for testing along with customer. Subsequently material will be sent to site. Any deviations with respect to the above specification should be brought out in the offer otherwise offer may be rejected Installation of Windows 7 Professional shall be pre-installed or done at the time of initial installation of machines at BHEL, EDN. All components must be compatible for Windows 7 64 bit Professional. Checklist attached (ANNEXURE-1) with the PSPEC should be filled in all respects and all options answered and duly signed by supplier. This is mandatory and offer will be rejected on non submission. <p>(C) DOCUMENTS TO BE GIVEN ALONG WITH QUOTATION</p> <ol style="list-style-type: none"> Technical data sheet for Workstation. This is MANDATORY Filled checklists given in this specification duly signed by supplier. Single point contact detail to be furnished for After sales service support under Warranty. Deviations, if any, to our specification. NOTE - Technical data sheet of quoted Models and Filled checklists ARE MANDATORY. Offer will be Technically REJECTED if not accompanied by them. <p>(D) DOCUMENTS TO BE GIVEN ALONG WITH EQUIPMENT</p> <ol style="list-style-type: none"> Manuals / CD's for computer to be supplied. <p>(E) TEST CERTIFICATE</p> <ol style="list-style-type: none"> Test Certificates for the System to be provided on installation. <p>(F) WARRANTY</p> <ol style="list-style-type: none"> Three Year Comprehensive On site warranty for all equipment supplied is to be provided. The exact location will be intimated at time of placement of PO. 				
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	<h2 style="margin: 0;">PURCHASE SPECIFICATION</h2> <h3 style="margin: 0;">WORKSTATION PC's</h3>	PS / 404 / 2417		
		REV. No. 00		
		PAGE 6 OF 11		
ANNEXURE-1: CHECKLIST – OPERATOR WORKSTATION (SATA): - DA0659452510				
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	Make: DELL , HP/ COMPAQ, IBM / LENOVO – Specify Model		YES	
	Type : Tower / CMT - Specify		YES	
	Input: 100 to 240 VAC; 50/60Hz. Power Cords (suitable for Indian type sockets) to be provided.		YES	
	Restart: Must have power failure protection		YES	
	Processor: Intel Xeon E3-1200 Series (minimum 3.10GHz) or higher, Raid 0,1,5 capability)with Intel Chipset		YES	
	RAM: 4 GB (2 X 2GB symmetrical) DDR3 ECC (minimum 1333MHz) RAM, expandable to minimum 8 GB		YES	
	Hard drive: Minimum 500Gb SATA Hard Disk (7200 RPM minimum).		YES	
	Sound: Integrated Audio with in-built speakers		YES	
	Graphics: OEM recommended PCI-Express Graphics card with full 16X support, with minimum 512 MB RAM, supporting 1600 x 1280 resolution with true colors. Dual Output.		YES	
	DVD ROM: 16X/48X DVD-ROM Drive , must support Multi-Read operation, along with suitable driver		YES	
	Expansion Slots: Minimum 3 Nos. PCIe based slots		YES	
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	Ports: 1 No. Standard Serial Port, 6 Nos. USB (minimum)		YES	
	Video Ports & Connectors: DVI / Analog VGA ports or adapters		YES	
	Keyboard/ Mouse :- USB Standard keyboard and USB optical scroll mouse with mouse pad.		YES	
	Operating System: Genuine Windows 7 Professional 64 bit with latest service pack to be preloaded.		YES	
	WINDOWS 7 PROFESSIONAL Recovery / IMAGE CD TO BE SUPPLIED		YES	
	Browser : Microsoft Internet Explorer, version 5 or above		YES	
	Drivers: All controllers to be supplied with CD having drivers suitable for Windows 7 Professional, with required installation / set up utilities.		YES	
Security Feature: 1.Chassis Lock		YES		
WARRANTY : Three Years on-site comprehensive warranty		YES		

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