



BHARAT HEAVY ELECTRICALS LIMITED
CORPORATE RESEARCH & DEVELOPMENT DIVISION
VIKASNAGAR, HYDERABAD - 500 093, INDIA

PHONES:23774494 (EXT:9804)

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RD:DP:MPX:F-04

ENQUIRY

Date 01-03-2016

Ref: 281590171

Enquiry for 25/5T EOT Crane

Enquiry No:281590171

Enquiry Date : 01-03-2016

Due Date: 02-04-2016

Indicative Delivery Date : 31-08-2016

Sl.No	Item Description	Unit	Qty
1	25/5T EOT Crane as per attached Specifications	NO	1
2	Installation and Commissioning of 25/5T EOT Crane	LOT	1

Please submit your quotation for the above material in sealed cover superscribed with enquiry no, enquiry date and due date subject to our enclosed terms and conditions. The quotations shall reach us on or before the due date by 12 noon. The tenders can also be dropped in the tender box kept at the security gate,BHEL R&D. In case you are not in position to submit the offer,please send reply suitably specifying the reasons.

Sl.No	Description	Document Ref.
01	Enquiry, General Terms & Conditions, Commercial Terms & Conditions etc.	Volume - 1
02	Technical specifications, Scope of Supply etc.	Volume - 2

Nishanth Polumahanthi
Sr Engineer
nishanth@bhelrnd.co.in

	ENQUIRY & QUALIFYING CRITERIA	Volume - 1 Enquiry No 281590171
25/5T EOT Crane		

1	Tendor inviting officer / Authority, Designation and Address	Additional General Manager(MM) BHEL R & D, Vikas Nagar (Near Balanagar), Hyderabad -500093
2	Item Description - Qty	1) 25/5T EOT Crane as per attached Specifications - 1 NO 2) Installation and Commissioning of 25/5T EOT Crane - 1 LOT
3	Enquiry Reference no.	281590171
4	Indicative Delivery Date	31-08-2016
5	Due date, Time and place for submission of tender	02-04-2016 upto 12 noon. Sealed Quotations shall be addressed to AGM(MM), BHEL R & D Division, Vikas Nagar (Near Balanagar), Hyderabad AP,India Pin - 500 093 Quotations can also be deposited in the Tender box located at Security Gate of BHEL R & D BHEL shall not be responsible for any postal/courier delay.
6	Place, Date and time of Tech.Bid opening	Tender Opening Cell (Sangam) BHEL R & D Office. 02-04-2016, 2 PM
7	Mode of Submission of Tender	<p>Please submit your offer in one common sealed cover containing two parts in separate sealed covers as detailed below.</p> <p>1) First Cover shall contain:</p> <ol style="list-style-type: none"> Signed General Terms & Conditions (GTC) Filled and Signed Commercial Terms & Conditions (CTC) Filled and Signed Vendor Specifications against BHEL Specifications (Item wise) Signed commercial bid Copy of Price-bid with price(s) cells blank (un-priced price bid) <p>2) Second cover shall contain Price Bid Containing Price quotes, applicable taxes, installation and/or commissioning charges shall be spelt out clearly taking into account total charges rather than quoting vaguely such as charges per man-day or charges per engineer per day etc.</p> <p>If the price bid was found later to be different from the unpriced pricebid format in any way, the offer will be rejected summarily. The rates shall be quoted both in figures and in words.</p> <p>The offers can also be submitted through e-mail and have to be sent in PDF format (files with PDF extension only). Files having extensions other than PDF like RAR, EXE,JPEG etc. and with external links will not be considered. They have to be sent to e-mail id: 'eoffers@bhelrnd.co.in' only. Copies should not be marked to anyone. If the offers are marked to anyone other than to eoffers, their offer will not be considered.</p> <p>The e-mail offers should have two attachments.</p> <p>1) One attachment shall contain</p> <ol style="list-style-type: none"> Signed General Terms & Conditions (GTC) Filled and Signed Commercial Terms & Conditions (CTC) Filled and Signed Vendor Specifications against BHEL Specifications (Item wise) Signed commercial bid Copy of Price-bid with price(s) cells blank (un-priced price bid) <p>2) Second attachment shall contain Price Bid Containing Price quotes, applicable taxes, installation and/or commissioning charges shall be spelt out clearly taking into account total charges rather than quoting vaguely</p>

		<p>such as charges per man-day or charges per engineer per day etc.</p> <p>The subject of the e-mail should contain Enquiry No, Enquiry Date and Due date.</p>
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	GENERAL TERMS & CONDITIONS (GTC)	Volume - 1 Enquiry No 281590171
25/5T EOT Crane		

SL.No.	Clause	BHEL REQUIREMENT
1	General	<p>a. All offers must include name of the contact person, phone no/mobile no, Fax no, email-id. Unsigned offers are liable for rejection.</p> <p>b. We, BHEL R&D, is registered with Department of Scientific and Industrial Research (DSIR) for the purpose of availing Customs Duty exemption in terms of Government Notification no.24/2007-Customs dated 01-Mar-2007 & Central Excise Duty Exemption in terms of Government Notification No. 16/2007-Central Excise dated 01-Mar-2007 as amended from time to time. Hence suppliers are requested to submit their bids clearly stating applicable taxes/duties. All foreign quotes will be evaluated with custom duty @ 5.15% for cost comparison.</p> <p>c. Taxes & Duties quoted will be taken for evaluation of landed cost & order placement and no change will be entertained later except in the case of changes made by the government. However please note that we are availing cenvat credit for service tax and hence service tax will be excluded in calculation of landed cost to BHEL. In case any Taxes/ Duties exempted, a self declaration for the same may be attached to the offer. Changes in taxes and duties because of the changes in turn over etc will be to supplier's account.</p> <p>d. Where ever vendor registration form and EFT details have been submitted earlier, the same need not be submitted again unless there is a change.</p> <p>e. BHEL R&D do not issue 'C' form .</p> <p>f. L1 status shall be decided on Cost to BHEL Basis.</p>
2	Late Tenders	Tenders received after due date/time(12:00hrs) will not be considered
3	Discrepancy in words and figures	<p>(a) If, in the price structure quoted for the required goods/ Services/ works, there is discrepancy between the unit price and the total price (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 the purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price corrected accordingly.</p> <p>(b) If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and</p> <p>(c). 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 (a) and (b) above.</p> <p>(d) If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date upto 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>
4	Two Part bid clarifications	In the case of Two-part bid, the vendor should furnish technical and commercial clarifications, if any, within stipulated time mentioned, failing which, it will be construed that the vendor is not interested in the tender and BHEL shall not consider the offer for further evaluation.
5	Price Impacts	In the event of any bidder, after finalizing the technical specifications and scope of supply, opting to revise their original bid, they have to submit the Price-Impact only. The Original price bid along with Price-Impact bid shall be opened during price bid opening. Unsolicited price impacts will not be considered.
6	Price bid evaluation	<p>All offers in price bid opening or reverse auction shall be evaluated in Indian currency based on unit price, packing & forwarding, taxes/duties, freight charges if any, exchange rate. Loading due to non-acceptance of our standard commercial terms.</p> <p>The exchange rate declared by State Bank of India under TT Selling rate on the technical bid open date shall be adopted for evaluating foreign currency bids.</p>
7	Packing	The supplier shall be responsible for the goods being properly and adequately

		packed so as to prevent any loss, damage or deterioration during transit.
8	Withdrawal	In case the supplier withdraws their offer before placement of order, BHEL reserves the right not to send next enquiry(ies). In case the supplier withdraws the quotation after its acceptance by BHEL or fails to supply the goods as per the terms and conditions of contract, or at any time repudiated the contract wholly or in part, BHEL shall be at liberty to cancel the Purchase Order and to recover from the supplier the extra cost and other loss, incidentals due to the breach of contract on the part of the supplier through risk purchase.
9	Risk Purchase	In case of default/late delivery, BHEL reserves the right to make alternate arrangement for procurement at suppliers risk and cost.
10	Banned List	The offers of the bidders who are in the banned list and the offers of the bidders who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL website www.bhel.com. Guidelines for suspension of business dealings with suppliers/contractors are available on www.bhel.com under supplier registration page
11	Over All L1	Order will be placed on overall L1 basis. Vendors should quote for all items, otherwise the offer will be rejected.
12	Additional Information	Suppliers are requested to visit our web site regularly for any updates and additional information, "All corrigenda, addenda, amendments, time extensions clarifications, etc. to the tender will be hosted on BHEL website only". The corrigendum will not be published in news paper.
13	Destination	Indian Vendors: Destination shall be Stores, BHEL R&D, Hyderabad. Foreign Vendors: 1) BHEL R.O.D Office, Mumbai, India for sea consignments and 2) BHEL R&D, Hyderabad, India for air consignments.
14	Arbitration	Subject to the jurisdiction of Hyderabad/Secunderabad, Andhra Pradesh, India in respect of any suit or other legal proceedings relating this contract.
15	Inspection	On receipt, the goods shall be subjected to inspection and our decision regarding the acceptability of the goods shall be final and binding on the suppliers.
16	Micro Small Enterprises (MSEs)	<p>MSE suppliers can avail the intended benefits only if they submit along with offer, attested copies of either EM II certificate having deemed validity (Two years from the date of issue of acknowledgement in EM-II) or valid NSIC certificate or EM II certificate along with CA certificate (Format as below) applicable for the year, certifying quantum of investment in plant and machinery within the permissible limit as per the act for relevant status (Micro or small) Where the deemed validity of EM II is over. Date to be reckoned for determining the deemed validity will be the last date of technical bid submission. Non submission of such documents will lead to consideration of their bids at par with other bidders and MSE status of such suppliers shall be shifted to Non MSE supplier till the supplier submits these documents.</p> <p style="text-align: center;">Certificate by chartered Accountant on letter head</p> <p>This is to certify that M/s(hereinafter referred to as 'company') having its registered office at is registered under MSMED Act 2006, (Entrepreneur Memorandum No(Part-II) dtd....., Category.....(Micro/Small). (Copy enclosed).</p> <p>Further verified from the Books of Accounts that the investment of the company as on date..... as per MSMED Act 2006 is as follows :</p> <ol style="list-style-type: none"> For manufacturing Enterprises : Investment in plant and machinery (i.e. Original cost excluding land and building and the items specified by the ministry of small Scale Industries vide its notification No.S.O.1722(E) dated October 5, 2006. For Service Enterprises : Investment in equipment (Original cost excluding land and building and furniture, fittings and other items not directly related to the service rendered or as may be notified under the MSMED Act, 2006: Rs..... Lacs <p>The above investment of Rs..... Lacs is within permissible limit of Rs..... Lacs for.....Micro/Small (Strike off which is not applicable) Category under MSMED Act 2006.</p>

		Date: (Signature) Name- Membership number -- Seal of Chartered Accountant
17	EMD - CAPITAL	<p>1.Submission of earnest money deposit (EMD) along with offer is required. EMD is to be deposited in cash(as permissible under Indian income tax act) or pay-order/Demand Draft drawn in favour of BHEL R&D,Vikasnagar,Hyderabad 500093 only.</p> <p>In case of foreign bidders e-payment shall also be accepted as EMD.</p> <p>Our bank details for e-payment by foreign vendors are: State Bank of India, BHEL(R&D)- Vikas Nagar Branch, Hyderabad, Andhra Pradesh, India; Pin-500093. Cash Credit A/C No: 10202162640 IFSC Code : SBIN0010622</p> <p>2.EMD by the Tenderer will be forfeited as per Tender Document if, the successful bidder/vendor refuses to honour the Order after award of the Contract on him and /or withdraws his bid and /or unilaterally changes the offer and changes the offer and /or any of its terms & conditions with in the validity period.</p> <p>3.EMD given by all unsuccessful Tenderers shall be refunded on acceptance of award /LOI/PO by successful Tenderer. The EMD of successful bidder shall be returned after submission of Contract Execution Bank Guarantee (CEBG).</p> <p>4.EMD shall not carry any interest.</p> <p>5.EMD amount is Rs/INR. 150000</p>
18	Contract execution Bank Guarantee(CEBG)-Capital	<p>CEBG shall be required for all POs where value (Supply +E&C) of each P.O. is estimated to be more than Rupees 20,00,000/- (INR).</p> <p>The successful vendor shall have to furnish a Contract Execution Bank Guarantee (CEBG) for 10% of the Total PO value in the prescribed format within 30 days from the date of P.O. but before L/C opening. CEBG shall be from one of the Consortium Banks of BHEL or from a reputed Bank and confirmed by any Consortium Bank of BHEL . All bank charges on account of issuance and conformation of CEBG whether incurred in India or outside India will have to be borne by the vendor.</p> <p>CEBG shall be kept valid unit 30 days after the date of E&C Certificate, which will be issued on completion of Erection & Commissioning of equipment which includes erection, commissioning, job proving, performance test, training to operators etc. as prescribed in PO.</p> <p>If the supplier fails to submit the CEBG even with in 60 days from the date of PO, BHEL reserves the right to cancel PO & forfeit the EMD given by the supplier. In addition, in such case, action will be initiated in line with extant guidelines for Suspension of Business dealings with Suppliers.</p>
19	Foreign Vendors	<p>BHEL will deal directly with foreign vendors, where ever required, for procurement of goods.However, if the foreign principal desires to avail of services of an Indian agent,then foreign principal should ensure compliance to regulatory guidelines which require mandatory submission of agency agreement (as per *).</p> <p>* The Agency Agreement shall specify 1) Agency commission, 2) Responsibilities of the agent, 3) Territory, 4) Agreement Period</p>
20	Signing & Stamping	Documents of BHEL's all Terms and conditions submitted with the offer shall be signed and stamped in each page of authorized representative of the bidder

Documents submitted with the offer shall be signed and stamped in each page of authorized representative of the bidder

Read and agreed for all the above general terms and conditions

Signature of the bidder with Seal & Date

	COMMERCIAL TERMS & CONDITIONS (CTC)	Volume - 1 Enquiry No 281590171
25/5T EOT Crane		

SL.No.	Clause	BHEL REQUIREMENT	SUPPLIERS ACCEPTANCE / REMARKS
1	Reverse Auction	<p>BHEL reserves the right to go for Reverse Auction (RA) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. All bidders to give their acceptance for participation in RA. Non-acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides to go for RA.</p> <p>In case BHEL decides to go for Reverse Auction, only those bidders who have given their acceptance to participate in RA will be allowed to participate in the Reverse Auction. Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit „online sealed bid“ in the Reverse Auction. Non-submission of „online sealed bid“ by the bidder will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue.</p>	
2	Two part	<p>Please submit your offer in one common sealed cover containing two parts in separate sealed covers as detailed below.</p> <p>1) First Cover shall contain:</p> <ol style="list-style-type: none"> a. Signed General Terms & Conditions (GTC) b. Filled and Signed Commercial Terms & Conditions (CTC) c. Filled and Signed Vendor Specifications against BHEL Specifications (Item wise) d. Signed commercial bid e. Copy of Price-bid with price(s) cells blank (un-priced price bid) <p>2) Second cover shall contain Price Bid Containing Price quotes, applicable taxes, installation and/or commissioning charges shall be spelt out clearly taking into account total charges rather than quoting vaguely such as charges per man-day or charges per engineer per day etc.</p> <p>If the price bid was found later to be different from the unpriced pricebid format in any way, the offer will be rejected summarily. The rates shall be quoted both in figures and in words.</p> <p>The offers can also be submitted through e-mail and have to be sent in PDF format (files with PDF extension only). Files having extensions other than PDF like RAR, EXE, JPEG etc. and with external links will not be considered. They have to be sent to e-mail id: 'eoffers@bhelrnd.co.in' only. Copies should not be marked to anyone. If the offers are marked to anyone other than to</p>	

		<p>offers, their offer will not be considered.</p> <p>The e-mail offers should have two attachments.</p> <p>1) One attachment shall contain</p> <ol style="list-style-type: none"> a. Signed General Terms & Conditions (GTC) b. Filled and Signed Commercial Terms & Conditions (CTC) c. Filled and Signed Vendor Specifications against BHEL Specifications (Item wise) d. Signed commercial bid e. Copy of Price-bid with price(s) cells blank (un-priced price bid) <p>2) Second attachment shall contain Price Bid Containing Price quotes, applicable taxes, installation and/or commissioning charges shall be spelt out clearly taking into account total charges rather than quoting vaguely such as charges per man-day or charges per engineer per day etc.</p> <p>The subject of the e-mail should contain Enquiry No, Enquiry Date and Due date.</p>	
3	Validity of Offer	90 days from date of techno-commercial bid opening.	
4	Price basis	<p>The prices shall be firm for entire period of contract.</p> <p>The suppliers shall indicate packing and forwarding charges, if any, separately.</p> <p>All foreign suppliers shall quote the lowest prices on 'FOB-Nearest International Airport/Sea port' basis. An amount of 3% on basic value towards freight and insurance will be added for cost comparison.</p> <p>All Indian suppliers shall quote the lowest prices on 'free delivery at BHEL R&D Stores or F.O.R destination' basis only.</p>	
5	Freight & Insurance	Insurance will be arranged by BHEL in case of FOB basis supplies. In such cases, an amount of 3% towards freight and insurance will be added for cost comparison.	
6	Agency Agreement	<p>Guidelines regarding dealing with Indian agents of foreign suppliers</p> <ol style="list-style-type: none"> 1. BHEL shall deal directly with foreign vendors, wherever required, for procurement of goods. However, if the foreign principal desires to avail of services of an Indian agent, then the foreign principal should ensure compliance to regulatory guidelines which require mandatory submission of agency agreement. 2. It shall be incumbent on the Indian agent and the foreign principal to adhere to the relevant guidelines of government of India, issued from time to time. 3. The agency agreement should specify the precise relationship between the foreign oem and services to be rendered by agent / associate, whether general in nature or in relation to the particular contract, must clearly stated by the foreign supplier / Indian agent. Any payment, which the agent / associate receives in India or abroad from the oem, whether as commission or as a general retainer fee shall be brought out in 	

		<p>record in the agreement and be made explicit in order to incur compliance to the laws of the country.</p> <p>4. Any agency commission to be paid by BHEL to the Indian agent shall be Indian currency.</p> <p>5. When ever Indian agents are representing on behalf of their principals, the relevant authorization letter and agreement copy to be enclosed along with technical bid to consider the offer.</p>	
7	Taxes and duties	<p>All Indian suppliers shall clearly mention current sales tax/VAT,Excise duty and Service Tax etc, if any,payable in addition to the quoted price and indicate applicable rates/percentage,item-wise clearly.The vendors should mention applicable Registration Number(s) specifically in their quotation.The suppliers are requested to submit their bids clearly stating applicable taxes and duties.The quoted taxes/duties will be taken for cost evaluation and order placement and no change will be entertained later except in the case of changes made by the government. Please note that we are availing cenvat credit for service tax and hence service tax will be excluded in calculation of landed cost to BHEL. However Proof of payment of service tax is required to be submitted for reimbursement of the same.</p>	
		<p>Payment</p> <p>1) Through L/C:Please note Payment through Letter of Credit (L/C) is for foriegn currency payments only.</p> <p>Where the payments are through L/C (L/C opening charges shall be loaded for landed cost evaluation), payment of Supply value shall be 80% on dispatch and 20% on issue of E&C Certificate. Payment of E&C Value shall be made against E&C certificate issued by BHEL. E&C certificate shall be issued on satisfactory completion of erection, commissioning, job proving, performance test, training to operators etc, as envisaged in PO. The L/C shall be opened by BHEL as per following:</p> <p>(i) With in 30 days of receipt of acceptable CEBG, an irrevocable unconfirmed L/C will be opened for 30% of the payment towards supply, due on shipment i.e. 24% of the Supply value of PO (30% of 80%)</p> <p>Not earlier than 60 days before the shipment date, the value of this irrevocable unconfirmed L/C would be enhanced from 24% to 80% of the Supply value of PO</p> <p>The above L/C can be negotiated after the Shipment against submission of B/L or AWB and such other documents as mentioned in the in the PO. The above L/C will be valid for a period extending 21 days beyond the shipment date for negotiation of documents.</p> <p>(ii)15 days prior to the scheduled &confirmed arrival of the technicians of supplier with their names, an irrevocable unconfirmed L/C will be opened for a value</p>	

8	Payment terms - Capital	<p>equal to 20% of the Supply value of PO plus 100% of the E&C value of PO. The validity of L/C would be sufficient to cover the period required for the completion of E&C plus 21 days as negotiation period.</p> <p>This L/C can be negotiated after: (a) Completion of E&C of the equipment in BHEL and against E&C certificate issued by BHEL and (b) Submission of Performance Bank Guarantee (PBG) by Supplier in the prescribed Format valid for 30 days beyond the warranty period, from one of the Consortium Banks of BHEL or from a reputed Bank and confirmed by Consortium Bank of BHEL for 10% of total PO Value. The PBG confirmation charges shall be borne by vendor.</p> <p>Under all circumstances, CEBG shall be kept valid till be PBG becomes operational.</p> <p>2 Direct Payment (foreign and Indian Suppliers): In case of direct payment , 80% payment of Supply value shall be made with in 45 days form the date of receipt of material at BHEL. Balance 20% of supply value plus 100% of the E&C portion of PO Value will be paid against E&C certificate issued by BHEL and submission of Performance Bank Guarantee (PBG) valid for 30 days beyond the warranty period by Supplier from any of the Consortium Banks of BHEL for 10% of total PO Value in the prescribed Format. The PBG confirmation charges shall be borne by vendor.</p> <p>3. Bank Guarantee and Loading against non acceptance of BHEL,s Payment Terms: If payment terms as mentioned by BHEL are not agreed by bidder, such bidder have to submit Bank Guarantee at the time of payment/opening of LC in the prescribed Format of the amount, exceeding 80% of the PO value, valid till issue of E&C Certificate for the equipment. However, in no case, payment against dispatch shall exceed 90% of the PO Value.</p> <p>Additionally, for any deviation sought including as mentioned above, in Payment Terms by bidder w.r.t. tender conditions, following loading shall be followed: (A) Benchmark Prime Lending Rate(BPLR) of SBI as applicable on the date of tender opening +2%, for the amount & period of relaxation sought by bidder. (B) On account of payment through LC if insisted by bidder , bank charges shall also be loaded for the deviation in (i) opening of LC by BHEL and (ii) period and amount of LC as per prevailing bank rates.</p>	
9	Time period for Supply and E&C- Capital	<p>1 Bidder should quote time period separately for 'Supply' and 'E&C' of equipment.</p> <p>2 The bidders should quote their earliest schedule for supply and E&C against the schedule indicated in the enquiry. BHEL, however, reserves the right to accept an offer not meeting the enquiry schedule.</p>	
		1 For the purpose of penalty for delay in	


10	Penalty for Delay in supply and E&C-Capital	<p>E&C of the equipment the duration will be reckoned from the date of intimation by BHEL to vendor for readiness of site.</p> <p>2 Penalty on delay in 'Supply' and/or 'E&C' will be applicable to the delays attributed to vendor . Penalty will be considered separately for 'Supply' and 'E&C'.</p> <p>The rate of penalty for delayed Supply shall be @ 0.5% per week of delay of total PO value(Supply+E&C). in supply subject to a maximum of 10% of total PO value (Supply+E&C).</p> <p>The rate penalty for delayed E&C shall be @0.5% per week of delay of total PO Value (Supply+E&C) in E&C subject to a maximum of 10% of total PO value (Supply+E&C)</p> <p>Maximum penalty for delay in Supply and E&C together shall be limited to 15% of total PO value (Supply+E&C).</p> <p>In case PO includes more than one machine, the penalty shall be limited to 0.5% per week of delay on total PO Value(Supply+E&C) for the delayed machine.</p> <p>3 Loading on account of non-acceptance of Penalty for delayed Supply and /or E&C shall be as under: In case any bidder is not accepting the above penalty for delayed Supply and/or E&C, the offer of bidder shall be loaded to the extent to which it is not agreed by the bidder.</p> <p>4 Incase, any shortage is noticed viz-a-viz PO requirement in the main equipment/spares, such shortages shall be replenished by supplier on for destination basis without any cost implication to BHEL i.e. Custom Duty and freight charges etc. up to destination for such short supplies shall be borne by the supplier.</p> <p>5.Supply period indicated by bidder should include reasonable time required for approval of drawings and other inputs form BHEL. In the Techno-Commercial Bid, the bidder shall submit milestones for various activities in co-relation with Supply and E&C period quoted by him.</p>	
11	Weight and Packing Dimensions.	The Supplier shall indicate the shipping weight (Kgs) and dimensions(L x W x H in cms) clearly along with offer.	
12	Nature of Vendor submitting the Offer	OEM / Agent / Representative / Dealer / Distributor / Stockist / Trader / Reseller / Channel Partner/ System Integrator / Any Other (Pl. Specify)	
13	Foreign Suppliers without Indian Agent	To be quoted in Foreign Currency. Purchase Order will be placed on Foreign Supplier.	
14	Foreign Principal availing services of an Indian Agent	<p>Foreign principal should ensure compliance to regulatory guidelines which require mandatory submission of Agency agreement. (as per *)</p> <p>To be quoted in Foreign Currency.</p> <p>Purchase order will be placed on Foreign Supplier.</p> <p>Agency Commission will be paid to Indian</p>	

		<p>Agent in Indian rupees.</p> <p>* The Agency Agreement shall specify 1) Agency commission, 2) Responsibilities of the Agent, 3) Territory, 4) Agreement Period</p>	
15	Indian Agent desirous of quoting imported Equipment	<p>Any Indian Agent desirous of quoting imported Equipment, they should submit the quote in foreign currency along with copy of agency agreement (as per *).</p> <p>To be quoted in Foreign Currency.</p> <p>Purchase order will be placed on Foreign Supplier.</p> <p>Agency Commission will be paid to Indian Agent in Indian rupees.</p> <p>* The Agency Agreement shall specify 1) Agency commission, 2) Responsibilities of the agent, 3) Territory, 4) Agreement Period</p>	
16	Indian Vendor Offering fully imported Equipment	<p>To be quoted in Foreign Currency.</p> <p>Purchase order will be placed on Foreign Supplier.</p> <p>As BHEL R&D is registered with Department of Scientific and Industrial Research (DSIR) for the purpose of availing Customs Duty exemption, BHEL desires to import the equipment from foreign supplier with concessional custom duty.</p> <p>In case if it is not possible to quote in foreign currency for imported items, reasons for the same from OEM to be mentioned</p>	
17	Indian Vendor Offering Equipment with partly imported & partly indigenous Items/Services	<p>Imported Items to be quoted in Foreign Currency.(**)</p> <p>Purchase order for imported items will be placed on Foreign Supplier.</p> <p>Indigenous items/services to be quoted in Indian rupees.(**)</p> <p>Purchase order for indigenous items/services will be placed on Indian Supplier.</p> <p>**</p> <p>1) As BHEL R&D is registered with Department of Scientific and Industrial Research (DSIR) for the purpose of availing Customs Duty exemption, BHEL desires to import the foreign items from foreign supplier with concessional custom duty.</p> <p>2) In case if it is not possible to quote in foreign currency for imported items, reasons for the same from Foreign Supplier to be mentioned.</p> <p>3) Authorisation Letter from Foreign Supplier should be submitted.</p>	
18	Indian Vendor offering Items manufactured / assembled / customized in India with imported/indigenous material/sub components.	<p>Please specify both imported and indigenous content in percentage / customization done.</p>	

Note : All the clauses of the above format should be filled and submitted with the Techno Commercial Bid (Part-1). The filled in BHEL Commercial terms & Conditions format submitted with technical bid, responding to all the clauses duly signed with seal **only shall be considered**. Any other Commercial terms & conditions of bidders entered elsewhere in their offer shall not be considered and are liable for rejection.

Read and understood the above commercial terms and conditions

Signature of the bidder with Seal & Date

		ITEM SPECIFICATIONS		Volume - 2 Enquiry NO 281590171
25/5T EOT Crane				
SL.No.	Item			
1	25/5T EOT Crane as per attached Specifications			
	sl no	Descriptions	BHEL Specifications	Vendor Specifications/ Deviations
	1	Double girder box EOT as per IS 3177-1999/FEM-ISO for Indoor use	As per attached Specifications	
		Pre Dispatch Inspection	Inspection shall be carried out by BHEL.The Vendor shall give minimum of 7 days notice for inspection along with internal test certificates. Pl. mention Time in days required from PDI to Despatch =====	
		Manufactures Test Certificate	Manufacturer's Test Certificate required and shall be provided before dispatch.	
		Spares	Offer shall include all the spares required for normal operation of equipment.	
		Accessories	Offer shall include all the accessories required for normal operation of equipment.	
		Minimum Acceptable Warranty	Supplier shall comply to the minimum acceptable warranty period.The offers of the suppliers not complying to the minimum warranty period will be rejected.The minimum acceptable warranty period is 36 months.	
2	Installation and Commissioning of 25/5T EOT Crane			
	sl no	Descriptions	BHEL Specifications	Vendor Specifications/ Deviations
	1	Installation & Commissioning charges	Bidder should quote for installation and commissioning charges for the above in one lot/lumpsum/ or Percentage	
	2	Note on Installation and Commissioning Charges	Installation & Commissioning charges will include services to be rendered at BHEL like erection, commissioning, job proving, performance tests, and on-site training to operators etc. The estimated percentage value of these charges as per BHEL: 10% of Unit price. The Supplier should quote these charges as % of Unit price separately in technical bid. Only in case where quoted value is less than the value (in %) specified above or separate value is not mentioned in the offer, value for Installation and commissioning shall be deemed to be considered as the value indicated above & accordingly supply value will be adjusted from that quoted value and balance will be released as E&C payment as	

		per Payment terms-Capital under Commercial terms and conditions of enquiry.	
G	General Specifications		
	sl no	Descriptions	Vendor Specifications/ Deviations
	1	Annual Maintenance Contract Charges	<p>After completion of standard warranty period, OEM / authorised Indian Agent should provide AMC for period of three years. AMC Charges shall be quoted separately on per year basis in terms of % of equipment cost as detailed below</p> <p>1. % of equipment cost for 1st year 2. % of equipment cost for 2nd year 3. % of equipment cost for 3rd year</p> <p>BHEL reserves the right to release separate AMC order after completion of standard warranty period as per the AMC charges quoted in this bid. The quoted AMC charges will be considered for evaluation of the bid.</p>
2	AMC PAYMENT TERMS	Quarter Yearly,after completion of each Quarter year,pro rate.Non-attendance of preventive visit, pro-rate charges shall be deducted.	

* Vendors are advised to write specifications in detail and not to write like 'Complied/ Yes / No ' etc. in specifications.

Signature of the bidder with Seal & Date



BHEL R&D

Terms & Conditions of Reverse Auction

Against this enquiry for the subject item/ system with detailed scope of supply as per enquiry specifications, BHEL may resort to "REVERSE AUCTION PROCEDURE" i.e., ON LINE BIDDING (THROUGH A SERVICE PROVIDER). The philosophy followed for reverse auction shall be English Reverse (No ties).

1. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.
2. Those bidders who have given their acceptance for Reverse Auction (quoted against this tender enquiry) will have to necessarily submit „online sealed bid? in the Reverse Auction. Non-submission of „online sealed bid? by the bidder for any of the eligible items for which techno-commercially qualified, will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue.
3. BHEL will engage the services of a service provider who will provide all necessary training and assistance before commencement of on line bidding on internet.
4. In case of reverse auction, BHEL will inform the bidders the details of Service Provider to enable them to contact & get trained.
5. Business rules like event date, time, bid decrement, extension etc. also will be communicated through service provider for compliance.
6. Bidders have to fax the Compliance form (annexure IV) before start of Reverse auction. Without this, the bidder will not be eligible to participate in the event.
7. In line with the NIT terms, BHEL will provide the calculation sheet (e.g., EXCEL sheet) which will help to arrive at "Total Cost to BHEL" like Packing & forwarding charges, Taxes and Duties, Freight charges, Insurance, Service Tax for Services and loading factors (for non-compliance to BHEL standard Commercial terms & conditions) for each of the bidder to enable them to fill-in the price and keep it ready for keying in during the Auction.
8. Reverse auction will be conducted on scheduled date & time.
9. At the end of Reverse Auction event, the lowest bidder value will be known on auction portal.
10. The lowest bidder has to fax/e-mail the duly signed and filled-in prescribed format for price breakup including that of line items, if required, (Annexure VII) as provided on case-to-case basis to Service provider within two working days of Auction without fail.
11. 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 be opened as per BHEL?s standard practice.
12. Bidders shall be required to read the "Terms and Conditions" section of the auctions site of Service provider, using the Login IDs and passwords given to them by the service provider before reverse auction event. Bidders should acquaint themselves of the „Business Rules of Reverse Auction?, which will be communicated before the Reverse Auction.
13. If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, action as per extant BHEL guidelines, shall be initiated by BHEL and the results of the RA scrapped/ aborted.
14. The Bidder shall not divulge either his Bids or any other exclusive details of BHEL to any other party.
15. In case BHEL decides to go for reverse auction, the H1 bidder (whose quote is highest in online sealed bid) may not be allowed to participate in further RA process.

AUTHORISATION LETTER FOR E-PAYMENT/ NEFT / RTGS
(PLEASE FILL UP THE FORM COMPLETELY IN CAPITAL LETTERS ON YOUR COMPANY LETTERHEAD ONLY)

Vendor Code (to be filled by BHEL)	
------------------------------------	--

Type of Request (Tick one)	NEW	CHANGE
1 Company Name		
2 Address		
3 City with PIN Code		
4 State		
5 PAN Number		
6 TIN/ VAT No.		
7 CST No.		
8 Service Tax No.		
9 Name of Contact Person		
10 Mobile number		
11 Ph. no. with STD Code		
12 Fax No. with STD Code		
13 Email ID		
14 Website (URL)		

BANK DETAILS FOR EFT / RTGS

1	Bank Name	
2	Branch	
3	Branch Code	
4	Branch Address	
5	Branch Phone No	
6	Account No.	
7	Account Type: SB/ Current/ other (Specify)	
8	MICR Code	
9	IFSC Code	

I, as an authorized representative / owner of the above named company, hereby state as under:

1. Enclosed here with a cancelled cheque in support of our company's bank details.
2. Authorize BHEL R&D Hyderabad, to electronically make payments to the designated bank account with bank charges, if any, to our account.
3. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information, I would not hold BHEL / transferring Bank responsible.
4. I hereby certify that the particulars given above are true, complete and correct.
5. This authority remains in full force until BHEL receives and acknowledge written notification requesting change or cancellation.

Date :
Company
Seal

Authorised Signatory
Designation :



**Corp. R&D
DIVISION
VIKAS
NAGAR,**

RD:MPX:F-13

Bharat Heavy Electricals Limited

HYDERABAD- 500 093 (INDIA)

Ph: 040 - 23772704, Fax: 040 - 23770698, email: mpx@bhelrnd.co.in

VENDOR REGISTRATION FORM

(Indigenous supplier)

[FORM TO BE SUBMITTED* BY THE BIDDER ALONG WITH TECHNICAL-BID]

Before filling, please refer to instructions on page-4

1.0 VENDOR PROFILE:

1.1 Name and address of the vendor:

Phone Nos.:

Fax No.:

Email: 1.

2.

1.2 Local representative name & address in Hyderabad/Secundrabad :

Phone Nos.:

Fax No.:

Email:

Contact Person:

Mobile No:

2.0 TYPE OF ORGANISATION:

PROPRIETORSHIP	Company:	Sister Concern (mention vendor registration number of main organization)	
Partnership	CORPORATION	Small Scale Industry	ANY OTHER(Please specify)

In case of SSI unit, copy of registration to be enclosed. It is requested that MSME registration certificate to be

enclosed

3.0 ANNUAL TURN OVER:

#	Year	Turn-Over, Rs.
1	Current Year(budgeted)	
2	Previous year (200 - 0)	
3	Prior Year (200 - 0)	

4.0 NAME AND ADDRESS OF THE BANKER:

- 4.1 Bank Name
 4.2 Branch name
 4.3 Account number
 4.4 Account Type
 4.5 MICR Code:
 4.6 IFSC Code(RTGS/NEFT):
 4.7 Bank Phone number(s),

Blank cheque, duly cancelled, to be enclosed.

Please note that all payments shall be made through Electronic clearance services to your above account against the orders executed, if any.

5.0 REGISTRATION PARTICULARS(relevant copies to be enclosed)

- 5.1 IT Permanent Account No.(PAN):
 5.2 State Sales Tax/VAT Registration No:
 5.3 Central Sales Tax Registration No:
 5.4 ED Registration No:
 5.5 Service Tax Registration No:
 5.6 PF Account No:
 5.7 Labour Licence No:
 5.8 ESI Account No:

6.0 CONTACT PERSON: S/Sri:

Designation:

Phone / Mobile No:

7.0 TOTAL NUMBER OF EMPLOYEES:

Graduates (Engr/Scientists/Mgmt/Fin.)	Consultants	Workers		
		Sup./Skilled	Semiskilled	Unskilled

8.0 LIST OF PRODUCTS/ SERVICES OFFERED:

#	Products/ Services	Capacity
1		
2		
3		
4		
5		
6		

9.0 REFERENCE LIST :

(Only recognized public and private sector companies, attach if printed copy available)

#	Customer	Volume / Year
1		
2		

3		
4		
5		
6		
7		

10.0 INFRASTRUCTURE / FACILITIES:

#	Facility (with specifications)	Age/ Year procured
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

11.0 REGISTRATION WITH OTHER BHEL UNIT/UNITS:

#	Unit	Registration No	Year
1			
2			
3			
4			

12.0 ANY OTHER INFORMATION :**DECLARATION:**

The information furnished above is true and authentic.

(CEO / PROPRIETOR)

SEAL:

DATE:

Note:

1. Registered bidders, having BHEL (R&D) registration no. or have submitted this format for registration, need not furnish this information again.
2. The competent authority reserves the right to accept or reject the registration.
3. Vendors approved for registration will be informed by mail / email, as convenient. A separate communication will be sent in case of non-registration also, citing reasons thereof.
4. BHEL reserves the right to take penal action as deemed fit if any of the information provided by the vendor(s) is found to be incorrect.
5. AGM, Head (MM) may be contacted for clarification/additional information on registration.

Instructions

1. Fill all items. Please mention "N.A." for items/ clauses not applicable.
2. Use A4 sheets for this document and the enclosures. Use of additional sheets is permitted if space provided is not adequate.
3. Attach copies of latest documents in respect of items 5.0 (Registration no.s)
4. Photographs of registered office and the chief executive/proprietor shall be furnished.



RD:MPX:F-14

Bharat Heavy Electricals Limited

Corp. R&D DIVISION

VIKAS NAGAR,

HYDERABAD- 500 093 (INDIA)

SUPPLIER REGISTRATION FORM

(FOREIGN SUPPLIER)

ALL COLUMNS SHOULD BE PROPERLY FILLED IN THE SPACE PROVIDED FOR.WHEREVER IT IS NOT APPLICABLE PLEASE WRITE "NOT APPLICABLE".INCOMPLETE OR INCORRECT FORMS MAY NOT BE CONSIDERED.

1.0 GENERAL INFORMATION:

1.1 NAME OF COMPANY

1.2 DETAILS OF HEAD OFFICE:

ADDRESS :
 TELEPHONE :
 FAX :
 EMAIL :
 WEB SITE :

1.3 DETAILS OF FACTORY/WORKS:

ADDRESS :
 TELEPHONE :
 FAX :
 EMAIL :
 WEB SITE :

1.4 DETAILS OF MARKETING AGENT

ADDRESS :
 TELEPHONE :
 FAX :
 EMAIL :
 WEB SITE :

1.5 CHIEF EXECUTIVE

1.6 CONTACT PERSON(S) FOR PRODUCT OFFERED

NAME(S) :
 OFFICIAL CPACITY :
 ADDRESS :
 TELEPHONE :
 FAX :
 EMAIL :

1.7 YEAR OF ESTABLISHMENT

1.8 PRODUCTION CAPACITY PER ANNUM

1.9 PARTICULARS OF PRODUCT INCLUDING SPECIFICATION AND RANGE OFFERED



Bharat Heavy Electricals Limited

Corp. R&D DIVISION

VIKAS NAGAR,

HYDERABAD- 500 093 (INDIA)

Ph: 040 – 23772704, Fax: 040 – 23770698, email: mpx@bhelrnd.co.in

RD:MPX:F-13

GUIDE LINES REGARDING DEALINGS WITH INDIAN AGENTS OF FOREIGN SUPPLIERS

- i. BHEL shall deal directly with foreign vendors, wherever required, for procurement of goods. However, if the foreign principal desires to avail of the services of an Indian agent, then the foreign principal should ensure compliance to regulatory guidelines - which require mandatory submission of an Agency Agreement.
- ii. It shall be incumbent on the Indian agent and the foreign principal to adhere to the relevant guidelines of Government of India, issued from time to time.
- iii. The Agency Agreement should specify the precise relationship between the foreign OEM / foreign principal and their Indian agent and their mutual interest in the business. All services to be rendered by agent/ associate, whether of general nature or in relation to the particular contract, must be clearly stated by the foreign supplier/ Indian agent. Any payment, which the agent or associate receives in India or abroad from the OEM, whether as commission or as a general retainer fee should be brought on record in the Agreement and be made explicit in order to ensure compliance to laws of the country.
- iv. Any agency commission to be paid by BHEL to the Indian agent shall be in Indian currency only.
- v. Whenever Indian agents are representing on behalf of their principals the relevant authorisation letter and agreement copy to be enclosed along with Technical bid to consider the offer.

Enq281590171 - Technical Specifications for 25/5T Double Girder EOT Crane		Vendor's Compliance
DESCRIPTION	BHEL SPECIFICATION	
A	MAIN PARAMETERS	
1	Type of Crane	Double girder box EOT as per IS 3177-1999/FEM-ISO for Indoor use
2	Class & duty	M5 as per IS 3177-1999 or 2m-M5 as per FEM-ISO
3	Main Hoist capacity	25 Tonnes
4	Auxiliary Hoist capacity	5 Tonnes
5	Span (tentative)	8.5 Meters (girder rail to girder rail center)
6	Deflection	shall be \leq span / 900
7	Operation Speeds (maximum)	
8	Main Hoist	2 meters/minute
9	Inching Speed	0.4 meters/minute
10	Auxiliary Hoist	3 meters/minute
11	Inching Speed	0.4 meters/minute
12	Long travel	15 meters/minute
13	Cross travel	10 meters/minute
14	Working clearance distance from center of gantry rail to nearest obstruction (sideways)	500 mm
15	Vertical distance from top of gantry rail to lowest overhead obstruction (maximum)	3.5 meters
16	Distance from floor to top of gantry rail	7
17	Lift Height	
18	Main Hoist	6.5 meters
19	Auxiliary Hoist	6.5 meters
20	Hook Approach	
21	Main Hoist	DSL side \leq 1500 mm, Opposite side \leq 2200 mm
22	Auxiliary Hoist	DSL side \leq 2200 mm, Opposite side \leq 1000 mm

23	Size of gantry rail (Long Travel)	52.1 Kg/mtr as per IS - 3443	
24	Bay length (tentative)	25.0 mtrs (inside wall to wall)	
25	Size of CT Rail	50 mm square bar min.	
26	LT wheel load in Tonnes	Indicate	
27	Number of Trolleys	One	
28	Width of Crane	<= 8 Meters	
B	CONSTRUCTION/STRUCTURAL DETAILS		
1	Main Hoist hook type	Plain 'C' Shank Hook as per IS 3815	
2	Auxiliary Hoist hook type	Plain 'C' Shank Hook as per IS 3815	
3	Hook latches for Aux hoists	Required	
4	Hoist wire ropes	6/36 construction as per IS:2266-1989. Tensile strength 1770 N/sq mm The core shall be fiber core	
5	Number of falls Main Hoist	4	
6	Number of falls Auxiliary Hoist	4	
7	LT Drive	Twin corner drive with horizontal type gear box	
8	Number of wheels for LT drive	4	
9	Diameter of wheels for LT drive	> = 320 mm	
10	Number of driven wheels for LT drive	50% or more	
11	CT Drive	With vertical gearbox	
12	Lubrication of the Crane	Hand pump with grease nipples to be provided at the end carriages and cross trolley	
13	Number of wheels for CT drive	4	
14	Diameter of wheels for CT drive	> = 250 mm	
15	Type of bearings for LT/CT wheels	Anti-friction, spherical roller bearings	
16	Type of mounting of LT/CT wheels	"L" type brackets	
17	Variable speed control		

18	LT Drive	Through VVVF drive	
19	CT Drive	Through VVVF drive	
20	AH Drive	Through VVVF drive with encoder	
21	MH Drive	Through VVVF drive with encoder	
22	Inching speed for MH and AH	Through VVVF drive	
23	Pendant	Shall be movable type. Pendant festooning shall be above the platform at a suitable height. Cable trolleys are to be mounted on suitable I section only.	
24	Radio Remote Control	3-0-3 or 4-0-4 step operation, Hand held / Joy stick type with rechargeable batteries and charger	
25	Duty cycle	40% CDF all motions	
26	Brakes	Electro Hydraulic operated thruster brakes are to be provided for all motions and hoists.(Totally enclosed) conforming to IP:54,(in case of power failure, the load must not move).	
27	Gear Boxes for LT, CT and Hoists	Completely enclosed M.S fabricated and stress relieved split type	
28	Couplings between motor and gearbox	Gearred couplings	
29	Couplings between gearbox and rope drum for hoists	Gearred couplings	
30	Mounting	All the gearboxes, motors, brakes, bearing pedestals, etc. shall be mounted on machined surfaces	
31	Toeguards	Toeguards shall be provided for all openings including for trolley	
32	Railings	Safety hand railings of tubular construction shall be provided across full length of the bridges and end carriages, staircases, around the cross trolley and in any other places where openings have been provided	
33	Jacking pads	Suitable jacking pads should be provided on end carriages and crab for jacking up the crane and crab for changing track wheels	
34	Safety Pads	Suitable reinforced safety pads should be provided under the end carriages and crab to prevent the crane from falling more than 25mm in the event of breakage of a track wheel/bogie/axle. These safety stops shall not interfere with the removal of wheels	
35	End buffers	Spring-loaded buffers / rubber buffers are to be provided for long travel and cross travel.	
36	Measurements	All components including fasteners should be in metric system only	
37	Locking of Parts	Bolts and screws in rotating parts shall be locked.	

38	Painting	The cranes should be painted with two coats of deep orange paint confirming to IS 2932 : 2003, IS No 591 (as per IS 5) after giving primary coat. Girders and trolley frame shall be shot blasted/ Chemically treated before painting.	
39	Plates used for fabrication	To be of rolled steel as per IS 2062 plates. Test certificates to be furnished	
40	End carriages	As per manufacturers design	
41	Butt joints	All butt joints shall be 100% X rayed both compression and tension and both flanges / Webs	
42	Girder	<p>No splice joint – to be of single piece only. No of weldable joints along the total length of the girder should not exceed three</p> <p>a) Suitable gantry girder (runway steel) for the crane shall be offered by the VENDOR and dimensional drawing of the gantry girder must be submitted along with technical offer. The gantry girder proposed for the crane shall be fabricated, supplied, installed and aligned by the VENDOR for a column to column spacing of 4 meters. Crane runway support steel shall be designed with sufficient strength and rigidity to prevent undue lateral or vertical deflection (shall be suitably braced / strengthened) for the maximum wheel loading of the crane. The runway rails shall be installed straight, parallel and level, at the same elevation and center distances as approved.</p>	
42	Girder-contd.	<p>b) VENDOR must indicate and offer the fixing components/hardware like; embedment plates, foundation pockets, clamps etc on horizontal and vertical locations of the columns as well as on the bracket for gantry girder and gantry rail. The VENDOR shall also agree to supply embedment plates etc in advance to enable concreting the same. The embedment of plates to the concrete structure alone will be arranged by BHEL (in case of RCC columns) as per supplied drawing and template.</p> <p>c) The detailed drawing of fixing arrangement, foundation pockets etc showing the above must be submitted for approval before manufacturing the items.</p> <p>d) All associated work of fixing, welding, installing the equipment clamping, grouting the foundation pockets etc. shall be completed by the VENDOR using his equipment and man-power.</p>	
43	Platform	Full length chequered platform shall be provided on both bridges and wherever access is necessary for operation and maintenance. The platforms shall be bolt jointed. Width of the platform on the panel placement bridge shall be > = 1000 mm and on the other bridge shall be > = 750 mm	

44	DSL Type and features	<p>Safe-track Shrouded conductors type DSL system with all safety features must be offered. A four bar (3P+1N) enclosed (shrouded) conductor type system identical to insul-8 shall be provided along the full length of the run way. The bus duct cable shall be connected from the DB (at floor level) to a terminating box at one end of the bridge. 'Power On' indicators for the individual phases R, Y and B in appropriate colour shall be provided at power supply input end of the DSL side. Insulated conductors (Normal thermal rating of 32 Amps) in standard bar length (not less than 4.5 mtrs.), without any exposed live parts to contact shall be provided. The system must be suitably supported to control sagging and mis-alignments, not exerting unwanted tension on the conductor and collector system. Conductors shall have slide in slot features for arresting hanger support mis-alignment. Integrity and smooth running of the system shall be ensured for operation all along the traction.</p>
45	DSL guard	To be provided
46	DSL maintenance cabin	To be provided at suitable height
47	Crane Fabrication	All welding must be done with E 7018 electrodes only. All butt joints shall be of radiographic quality. Compression and tension joints, flanges and webs shall also be radiographed to ensure defect free welds.
48	Operations required through	
49	Pendent	MH, AH, LT & CT. 2 speed steps (10% and 100%) for all motions
50	Radio Remote Control	MH, AH, LT & CT. 3 speed steps for all motions.
51	Column supports	RCC column support will be provided by BHEL (Span 8.5 m).
52	Fixing arrangement	VENDOR to indicate girder to rail fixing arrangement which is in his scope of supply
C	ELECTRICAL EQUIPMENT	
1	Power Supply at DSL	415 volts \pm 10 %, 3 phase, 50, \pm 2 Hz, 4 wires, one conductor earthed. Isolator switch should be provided for isolating the total supply to the crane
2	Control voltage	110 Volts AC
3	Power distribution to trolley	Trailing cable supported on anti-friction wheel cable
4	Connection to pendent	Trailing cable supported on anti-friction wheel cable

5	Panels	<p>a. The panels shall be painted with grey color as per IS 2932:2003</p> <p>b. The total number of panels shall be a minimum of four</p> <p>c. MH drive shall be housed in one panel</p> <p>d. AH drive shall be housed in one panel</p> <p>e. CT & LT drives shall be housed in separate panel</p> <p>f. Protective panel shall be housed in one panel</p> <p>g. Ferrules to be provided for cable connections as per circuit diagram.</p> <p>h. Individual isolating switches / breakers should be provided for MH, AH, CT & LT power circuits</p> <p>i. Separate isolating switch / breaker should be provided for control circuit</p> <p>j. Individual contactors should be provided for all the drives</p> <p>K. Vendor may supply multidoor panel with 4 doors instead with all the items given above included</p>
6	Mounting of panels and resistance boxes	To be mounted on supporting boxes
7	Electrical Motors	Crane duty, one hour rated, class B or F insulation, IP54 protection, 40 % CDF, 150 starts/hour squirrel cage motors for all motions
8	Contactors	Siemens make 3 TF series contactors of suitable rating to be provided in all the circuits
9	Cables	P.V.C armoured, copper multistrand conductors, minimum size 2.5 mm sq. in power circuit and 1.5 mm sq in control circuit. All inter connecting wiring to be done neatly through perforated trays fixed in suitable places.
10	Limit Switches for traverses	Two way lever type limit switches to be provided for CT and LT motion
11	Limit Switches for Main & Auxiliary hoists	One series limit switch with counter weight type and one rotary shunt limit switches for each hoist
12	Earthing	Double earthing are to be provided for all the electrical equipment. A common electrical earthing bus bars to be installed on the cranes covering the entire span and trolley etc.
13	Bell/Electronic Hooter	Bell/Electronic Hooter is to be provided on the crane and incorporated in the electrical circuit
14	Bridge lights	Two numbers of bridge lights are to be arranged under the bridges
15	Cables and routing	PVC insulated and PVC sheathed tough rubber, multi-strand copper cables (1.1 kV grade) shall be used. Terminations shall be done with copper lugs and suitable ferrules at both ends . All power cables should be sized so as to carry 125 % of rated current safely. Control cables shall have a minimum cross-sectional area of 2.5 sq. mm copper.
D	MATERIALS	
1	Gears	EN 9 Helical type

2	Hardness of Gears	225 to 280 BHN	
3	Pinions	EN 19/EN 24 helical type	
4	Hardness of Pinion	250 to 300 BHN	
5	Heat treatment of gears/pinions	Hardened, tempered	
6	Pulleys	Cast Steel IS: 1030 grade 4	
7	Gear Box	IS: 226/IS: 2062 fabricated casing duly stress relieved	
8	Lubrication system	The system offered shall have sealed transmission systems featuring zero leakage of lubricants. Leak /loss of lubricant rate together shall be less than 1% per annum. Topping frequency shall be higher than 5 years.	
9	Bearings	Anti-friction bearings (self-aligning, heavy duty, spherical roller type bearings) shall be offered with suitable bearing housings.	
10	Wheels	C 55 Mn 75 / forged steel with hardness of 300-350 BHN	
11	Rope Drum	Rolled steel plate fabricated (IS-2062) duly stress-relieved with flanges at both ends or seamless steel pipe (as per ASTM 106 Gr A or B). Rope drum to be machine grooved in hoisting direction. Dia of drum/rope ratio to be as per IS: 3177-1999. 100% X-ray quality welding for circumference joint to be done. The drum shall be mounted on antifriction ball/roller bearings.	
12	Hooks	Made of mild steel/EN3A or wrought iron/20Mn2 to IS:6294/1971 with a hardness of 150-180 BHN and Nut to be forged from C45 material	
13	Makes of other bought out components	To be as per annexure 1	
E	DOCUMENTATION		
1	List of documents to be submitted with offer (offer will be rejected unless these are submitted)	Point-wise clarifications to all points of this specification including deviations, if any Sketches showing full details of cranes with dimensions / end clearances (between center of LT rails to column face of building), overhead clearance from LT rails, hook approach limits, lift height, etc.	
2	Total weight of crane in Tonnes	Indicate	
3	Weight of assembled trolley in Tonnes	Indicate	
4	Weight of crane girder in Tonnes	Indicate	
5	List of drawings/documents for approval before manufacture of crane. Note: It is the	General Arrangement (GA) drawing of crane GA Drawing of Trolley GA Drawing of individual mechanism Drawings of bridges, end carriage, and their connections	

<p>responsibility of the supplier to get the drawings/documents approved. No extension of delivery will be accepted in case of any delay in submission/approval of drawings</p>	<p>Sub-assembly drawings for wheels, hook blocks, gearboxes, and rope drums Calculation for selection of motor, gearbox and brake Calculation for bridge girder, end carriage and selection of wheels Total weight of structural, mechanical and electrical equipment separately Weight of operator's cabin (if any) together with all equipment mounted in it. Quality Plan Electrical/electronic circuit diagrams for total crane Layout diagram of Electrical panels and items inside the panels Test certificates of all boughtout items like hooks, steel plates, wire ropes, etc and for crane (certified by "Competent person" as per as per AP Factories Rules/Acts/Laws 4 Nos. Cranes operation and maintenance manuals. 1 No. spare parts manual Drawings of all wheels 3 sets of drive manuals Cabling scheme / interconnection diagram</p>
<p>6</p> <p>List of drawings/documents to be submitted at the time of inspection of crane at supplier's works and at BHEL</p>	<p>Will be checked/inspected by BHEL/third party appointed by BHEL Will be checked/inspected by BHEL/third party appointed by BHEL. The crane will be checked for all functions and operations. Check of Crane span and diagonal - 10Kg pull should be applied while checking Vendor shall agree to 3 stage inspection as follows: Stage-1 a) Verification of test-certificates for raw materials for girders, end carriages etc. b) Verification of X-ray report of the butt joint of girders c) Box girder setting before closing the bottom flanges inspecting the quality of the welding and waviness. d) Trolley frame fabrication before setting the mechanism Stage-2 a) Bridge and end carriage with wheel assembly and alignment checking. b) Span, diagonal wheel alignment, mechanism assembly and alignment checking. c) Free running of the mechanism d) Measurement of camber in the bridges e) End carriage fabrication</p>
<p>F</p> <p>TESTING/INSPECTIO</p> <p>N</p>	
<p>1</p> <p>During manufacture</p>	
<p>2</p> <p>After manufacture</p>	
<p>3</p> <p>Crane span</p>	
<p>4</p> <p>Stage inspections</p>	

		Stage-3 a) Final load-test and deflection test (Loads shall be arranged by the supplier)	
		b) Measurement of deflection and permanent set	
		c) 25 % overload lifting ability checking	
5	Quality Plan	Vendor shall submit the complete 'Quality Plan' for the project along with the detailed procedures for all the checks and performance tests to be carried out at works as well as after installation along with the technical offer.	
6	Clearance for dispatch	The equipment shall be dispatched only after testing/inspection at supplier's works and on written clearance from BHEL	
G	ERECTION & COMMISSIONING		
1	At BHEL works	Part of supplier's scope.	
2	Material (lifting equipment, lifting tackles, etc) required during erection and commissioning	Part of supplier's scope. All lifting machines/tackles to be inspected and certified by "Competent Person" as per AP Factories Rules/Acts/Laws before use.	
3	Load test	To be done as per relevant IS standards.	
4	Test certificate for crane	Part of supplier's scope. To be inspected and certified by "Competent Person" as per AP Factories Rules/Acts/Laws before use.	
H	GENERAL		
1	Environment	All equipment shall be tropicalised to operate in normal shop floor conditions of temperature +5° C to +55 ° C and maximum relative humidity of 95 %.	
2	Noise level	The operating noise of the crane shall be below 100 db.	
3	Guarantee	Supplier shall guarantee all equipment for a period of 36 months from the date of commissioning at BHEL works	
4	Oils & grease	First filling of oils and grease are in supplier's scope	

5	Manufacturer's reference list	<p>The manufacturer should have manufactured, at least five DG box type EOT cranes of 25 tons or higher capacity and with span \geq 8.5 meters (of Class M5 or higher as per IS 3177/1999 or equivalent), in the last 5 years as on date of enquiry. The Cranes should have been supplied for Engineering industry / steel plants. List of these cranes to be furnished with names of contact persons, telephone and FAX nos. and e-mail IDs. The supplier should furnish copies of the purchase orders and commissioning reports or performance certificates issued by the customers as documentary proof of the above.</p> <p>Note: Cranes supplied to irrigation projects will not be considered The crane is required for an upcoming Test bed Facility at BHEL Corporate R&D. The vendor may visit BHEL Corporate R&D before submitting an offer.</p>	
6	General clearance sketch	General clearance drawing showing the clearances and other important parameters as per the specifications is to be enclosed along with the offer	
7	Spares & Services	<p>a) Vendor shall agree to attend to the installation within 24 hours of service call (first 36 months).</p> <p>b) A list of mandatory spares must be provided by the supplier.</p> <p>c) A set of special tools and commissioning spares are to be included in the supply.</p>	

8	Scope of supplies	<p>The scope includes (but not limited to) : design, material, fabrication, assembly, testing (at works and at BHEL site), supply, packaging, forwarding, transportation, receipt, unloading, storage, erection (all tools tackles, crane, equipment that would be required for erection is to be arranged by supplier) , installation, testing (supplier must arrange for all materials, instruments and equipment that will be required for the Load test, including arranging of dead weights), commissioning of the complete package, proving of performance etc.</p>	
9	Purchaser's scope	<p>a) Electrical power supply: 415 V AC +/- 10 %, 3 phase, 50 HZ +/- 3%, 4 wire supply of suitable capacity will be provided with a DB at one point at floor level. The cabling is to be done from this limit point by the supplier.</p> <p>b) Water and air, if any.</p> <p>c) A copy of civil drawing of the proposed site will be provided to the supplier, for reference.</p>	
10	Details to be furnished by the supplier	<p>a) Total weight of the crane including electrical equipment.</p> <p>b) Total width of the crane.</p> <p>c) Total weight of the trolley including electrical equipment</p> <p>d) Total Weight of each bridge assembled and ready for erection with and without mechanical and electrical equipment.</p>	

	DESCRIPTION	BHEL SPECIFICATION
		<p>e) Weight of each end carriage assembled and ready for erection.</p> <p>f) Total weight of structural, mechanical and electrical equipment separately.</p> <p>g) Specifications with respect to civil inputs requirement.</p> <p>h) Details of the capacities of motors (electrical rating).</p> <p>i) Vendor must indicate their requirement and tolerance with respect to the civil concrete bracket(on which the gantry girder would be seating).</p> <p>j)The inputs like maximum wheel load etc. (required for the design of the bracket)</p> <p>k) Vendor must specify the gantry girder section dimension.</p> <p>l)The height difference between hook top most position and the gantry rail.</p> <p>m) Distance between the two hooks (Aux & Main).</p>
11	Supplier shall submit	<p>a) Test-certificates for Hoist rope, Hook, Electrical motors, Couplings, Gear boxes, Pulleys, Wheels, Bearings, etc.</p> <p>b) Material test-certificates for the structural steel, drums, rope, brake drums, pulleys, wheels, shafts etc.</p>
12	Major scope of the Supply	<p>Consists of the following major systems which are to be designed, manufactured, supplied, transported, installed, integrated completely and commissioned in total with all tests and checks (works and site).</p> <p>a) Double girder EOT crane (complete package)</p> <p>b) Shrouded type DSL System for crane as per specified details</p> <p>c) Gantry girder and rail as per specified bay length</p> <p>d) Total erection, integration, commissioning and testing of the above said packages as complete unit.</p>
13	Miscellaneous	<p>a) Hand rails, jacking pads for jacking up and changing wheels, safety pads in case of breakage of fasteners, dimension in metric system, locking of all fasteners are to be provided.</p> <p>b) All equipment like gear-boxes, motors, brakes are to be mounted on machined surface and shall have machined foot.</p> <p>c) A well designed chequered plate platform for attending maintenance of the crane shall be provided. The platforms shall be complete with hand railing and toe-guards.</p> <p>d) A safety Ladder shall be provided at suitable location to reach the crane platform for attending maintenance of the crane</p>

	<p>e) Three nos. of each 150 watts Metal Halide lamps with fittings should be provided under the crane bridge. The lights on/off controls are to be provided at pendant push-button station.</p> <p>f) As safety feature, a hooter alarm should be provided with control.</p>	
	<p>a) Any other requirements not set forth in these specifications, but necessary for the safe and reliable operation of the equipment shall be included.</p> <p>b) Quantities other than specified shall be supplied for satisfactory commissioning of the equipment. Variations due to structural constraints shall be incorporated; increase in quantities if any shall be informed to and approved by BHEL. Prorate cost of additional material shall be admissible.</p> <p>c) BHEL reserves right to use uncompleted/ unsatisfactory equipment</p>	

DESCRIPTION	BHEL SPECIFICATION
14 IS Reference	a) Crane duty class : IS 3177-1999, IS 807 (indoor)
	b) Rails : IS 3443
	c) Ropes : IS 2266, IS 1835
	d) Hooks : IS 3815
	e) Rolled steel : IS 226 (1975), IS 2062 (1992)
	f) Pulleys : IS 1030 Gr 4 (Sheaved Pulleys)
	g) Steel for rope drum : IS 2062, IS 3177-1999
	h) Gear box : IS 226, IS 2062
	i) Painting : IS 557
	15 Important
2. The offer and all documents enclosed with offer should be in English language only.	
3. BHEL reserves the right to verify the information submitted by the vendor. The offer with false/ incorrect/incomplete information may be rejected.	
4. Vendor shall sign and stamp all sheets	
5. Offers submitted shall be valid for a period of minimum 4(four) months from date of commercial bid.	
6. Revised technical bid may be necessary should the specification need up gradation/ modification on technical scrutiny.	
7. Vendor must answer all points	

Enq281590171 - 25/5T Crane
Bought Out Components

Sl No.	ITEM	MAKE	OTHER DETAILS	Vendor's Compliance
1	Bearings	SKF / FAG / Timken / RHP/NBC		
2	Cables	Lapp / Igus / Finolex/Radiant	Cables with copper conductors only, Flex CL5	
3	Connectors	Elmex / Wago /Connect Well		
4	Contactors	Siemens / ABB / Telemecanique		
5	Master Controller	Siemens / SOC / WMI / EMM / Omega		
6	Couplings	Hi-Cliff / WMI / OEM /Nu-Teck		
7	Fuse / Fuse holders	English Electric / SIEMENS		
8	Hooks	Herman Mohatta / Hercules / Steel Forgings / Smriti Forgings / EE Karachiwala		
9	Isolator Switch	Siemens/L&T/ABB		
10	Isolators	Siemens/L&T/BCH / Telemecanique/ ABB		
11	Limit Switches	Siemens / SOC / OMEGA / Kaku	IP54 or better	
12	Lubrication Pump/motor	CENLUB		
13	MCB	Siemens /L&T/Schneider		
14	MCCB	Siemens/ L&T/Schneider		
15	Motors (Auxiliary)	BBL / CROMPTON GREAVES / ALSTOM / SIEMENS /ABB	IEC Frame sizes, IP54 or better	
16	Motors (Slipring)	BBL / CROMPTON GREAVES / ALSTOM / SIEMENS /ABB	IEC Frame sizes, IP54 or better, Crane duty, 1 hour rated, 40% CDF	
17	Overload relay (Electrical)	SIEMENS		

18	Overload relay (Mechanical)	ELECTROGEAR		
19	Panels	SIEMENS / DANDAPANI / Rittal / Original equipment manufacturer	Should be made from 18 G sheet steel, Powder coated and should be provided with panel locking facility.	
20	Pendent pushbutton station	HANSU	With colour coded pushbuttons and name plates	
21	Pneumatic timers	Bharatia Cutler Hammer		
22	Push Buttons	SIEMENS		
23	Radio Remote Control	Stromag / SNT	3-0-3 or 4-0-4 step operation, Hand held / Joy stick type with rechargeable batteries and charger	
24	Rails		CR 60 / CR 80 / CR 100 / CR 120 / Square bar as per IS-3443	
25	Resistance Box	BCH / SOC / WMI / OMEGA / VEPL	IP11 or better	
26	Thruster Brakes	SOC / WMI / OMEGA / SNS	IP54 or better	
27	Squirrel cage induction motors (suitable for crane duty application and to run with VVVF drives)	BBL / CROMPTON GREAVES / ALSTOM / SIEMENS / ABB	IEC Frame sizes, IP54 or better, Crane duty, 1 hour rated, 40% CDF.	
28	Variable frequency drives with regenerative braking resistance	ABB drives - Type : ACS850 / ACC 850 Siemens - Type : Master drives Yaskawa drives	Digital type	
29	Wire Rope	Usha Martin / Fort William / Bharat wire ropes		
30	Encoders	Hubner / KUBLER	Type: POG 9 or POG 10 of Hubner	

CONTRACT EXECUTION BANK GUARANTEE BOND(CEBG)

(To Be submitted by Successful vendor only, within 30 days of Purchase Order, but before LC opening)

This deed of guarantee made this day of 2015 . by the..... Bank Ltd, (hereinafter referred to as “the Bank”) in favour of Bharat Heavy Electricals Limited, Corporate Research and Development division, Vikasnagar, Hyderabad, Andhra Pradesh, india-500093 having its registered Office at New Delhi with its Unit Office at Hyderabad (herein after called BHEL) where as M/s..... having its registered office at (hereafter called the “the Contractor”) have entered in to contract with BHEL for the supply of vide Purchase Order No dated

1. We Bank Ltd, do hereby undertake to pay to BHEL an amount not exceeding Rs..... against any loss or damage caused to or suffered or would be caused to or suffered by BHEL by reason of any breach by the said Contractor of any of the terms or conditions contained in the said Purchase Order.
2. We, Bank Ltd, do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from BHEL stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by BHEL by reason of any breach by the said Contractor of any of the terms or conditions contained in the said Purchase Order or by reason of the Contractor’s failure to perform the said Purchase Order. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs/.....
3. We, Bank Ltd, further agree to the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Purchase Order and that it shall continue to be enforceable till all the dues of BHEL under or by virtue of the said Purchase Order have been fully paid and its claims satisfied or discharged or till BHEL certifies that the terms and conditions of the said Purchase Order have been fully and properly carried out by the said Contractor and accordingly discharges the guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the we shall be discharged from all liability under this guarantee thereafter. But where such claim or demand has been preferred by the Company with the Bank before the expiry of the said date the claim shall be enforceable and Payable only by any one of the BHEL Consortium Banks in India (List is attached herewith) notwithstanding the fact that the said enforcement is effected after the said date
4. For the purpose of this clause, any letter making demand on the Bank by BHEL dispatched by Registered Post with Ack. Due or by Telegram or by any Electronic media addressed to the Bank (**any one of the BHEL Consortium Banks as per list attached as selected by the vendor**) shall be deemed to be the claim / demand in writing referred to above irrespective of the fact as to whether and when the said letter reaches the Bank, as also any letter containing the said demand or claim is lodged with the Bank personally.
5. We,.....Bank Ltd, further agree with BHEL that BHEL shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Purchase Order or to extend time of performance by the said contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by BHEL against the said Contractor and to forbear or enforce any of the terms and conditions relating to the said Purchase Order and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor or for any forbearance, act or omission on the part of BHEL or any indulgence by BHEL to the said Contractor or by any such matter of thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.
6. Any claim or dispute arising under the terms of this document shall only be enforced or settled in the Courts at Hyderabad/ Secunderabad, Andhra Pradesh, India.

We, Bank Ltd, lastly undertake not to revoke this guarantee during its currency except with the previous consent of BHEL in writing.

In witness whereof we..... (indicate the name of Bank) have hereunto setout Bank Seal the..... day
..... month 201

The contact details of the Issuing Bank such as Email ID, Phone No. and Fax No. should be indicated in the CEBG. Also please note that the CEBG should be forwarded to us with the covering letter of the issuing Bank with signature and seal.

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- (1) It should be typed in the Rs. 100 value of stamp paper.**
 - (2) It should be signed by TWO bank officials with Rubber stamp containing names & employee numbers of bank officials**
 - (3) It should be submitted with bank covering letter with sign and seal of the bank official.**

Please note that issuance of the CEBG without meeting the above requirement will render the document invalid.

Performance Bank Guarantee (PBG) format

(To Be submitted by Successful vendor only, after completion of E&C, but before seeking balance payment)

1. THIS DEED OF BANK GUARANTEE MADE THIS DAY OF MONTH OF YEAR ----- by -----
----- (name& address of the BANK) (herein
after called the **BANK**) in favour of M/s Bharat Heavy Electricals Limited, Corporate R&D, Vikasnagar,
Hyderabad - 500 093, Andhra Pradesh, having its registered head office at BHEL House, Siri Fort, New Delhi -
110 049, India (herein after called the **COMPANY**).
2. WHERE AS the **COMPANY** placed a purchase Order on M/s ----- (supplier name)
having registered office at ----- (address)
(hereinafter Called the **CONTRACTOR**) for Manufacture, Supply, Erection & Commissioning of -----
----- vide Purchase Order No.----- dated -----for Rs.----- (Rupees ---
-----only)(hereinafter called the **CONTRACT** (which expression shall
include all amendments thereto).
3. AND WHEREAS one of the conditions for placing such **CONTRACT** is that the **CONTRACTOR** shall provide
the **COMPANY** with **BANK GUARANTEE** to an extent of Rs. ----- (**Rupees** -----
----- **only**) in pursuance and completion of the terms and conditions of the
said **CONTRACT** for the performance of the said **CONTRACT**.
4. AND WHEREAS the **CONTRACTOR** have approached the **BANK** and at their request and in consideration of
the arrangement bond arrived at between the said **CONTRACTOR** and the said **COMPANY**, We, the **BANK**
have agreed to give such **GUARANTEE** (hereinafter called as **GUARANTEE**) mentioned to the aforesaid
COMPANY.
5. NOW therefore, these present witness that, We, the **BANK**, by the hand of Shri, -----, its
lawfully and duly constituted attorney, do hereby undertake to pay without demur to the aforesaid **COMPANY** a
sum of Rs. ----- (**Rupees** ----- **only**) on demand being made by the said
COMPANY and to keep the said **COMPANY** indemnified to the extent of Rs.----- (**Rupees** -----
----- **only**) by virtue of this **GUARANTEE** against any loss/damage caused to
/suffered by the said **COMPANY**, by reason of any breach by the aforesaid **CONTRACTOR** of any of the terms
and conditions, stipulations or undertakings or anyone of them contained in the said **CONTRACT** (s) and the
tender documents and for the payment of any money payable by the said **CONTRACTOR** to the said
COMPANY under the terms and conditions of the said **CONTRACT** (the decision regarding the breach, loss,
damage or payment due being solely in the **discretion** of the said **COMPANY**). We, the **BANK**, further undertake
to pay the aforesaid amount in a lump sum on demand without demur or such part thereof the **COMPANY** may
demand from time to time, irrespective of the fact whether the said **CONTRACTOR** admit, or denies such claims
or questions its correctness in any Court, Tribunal or Arbitration proceedings before any authority.
6. The aforesaid **GUARANTEE** will remain in force and we shall be liable under the same irrespective of any
concession or time, being granted by the said **COMPANY** to the **CONTRACTOR** and the **COMPANY** and
GUARANTEE will **remain in full force** irrespective of any change of terms, conditions or stipulations or any
variations in the terms of said **CONTRACT(S)** irrespective of whether notice of such **change and or variation is**
given to us or not and claim to receive such notice of any change and or variation of terms and conditions of the
said **CONTRACT** (s) is hereby specially waived off by us. Further, we shall not be released from this
GUARANTEE by any forbearance or exercise or non exercise of any of the powers or rights under the said
CONTRACT(S) by the **COMPANY** against the **CONTRACTOR** irrespective of whether notice of such
forbearance, enforcement or non-enforcement of any powers or rights, modifications or change made in said
CONTRACT (s) or concession shown to **CONTRACTOR**

7. The **GUARANTEE** herein contained shall not be determined or affected by the liquidation or winding up or insolvency or change in the constitution of the **CONTRACTOR** but shall in all respects and for all purposes be binding and operative until all payment of all monies due or that may hereafter become due to the said **COMPANY** are settled irrespective of any liability or obligation of the **CONTRACTOR** under the said **CONTRACT**.
8. A reference to this **GUARANTEE** in the **CONTRACT** placed already but pending as on date shall be sufficient to bind the **BANK** in respect of their liability under this **GUARANTEE** and this **GUARANTEE** shall be read as an integral part of the **CONTRACT**.
9. We, the **BANK**, further agree that the **GUARANTEE** herein contained shall remain in full force and effect during the period that would be taken for the performance of the said **CONTRACT** and that it shall continue to be enforceable till all the dues of the **COMPANY** under by virtue of the said **CONTRACT** have been fully paid and its claims satisfied or discharged or till the **COMPANY** certifies that the terms and conditions of the said **CONTRACT** have been fully and properly carried out by the said **CONTRACTOR**.
10. Any claim or dispute arising under the terms of this document shall only be enforced or settled in the courts at Hyderabad/ Secunderabad, Andhra Pradesh-India, only.
11. The **Bank** declares that the BG is enforceable in Hyderabad/ Secunderabad, AP where the **Company** is located, from their branch ----- (Branch address of the Bank). *(this clause is to be incorporated in case the BG is from non-consortium banks)*.
12. AND lastly the **BANK** undertakes not to revoke this **GUARANTEE** during its currency except with the prior consent of the **COMPANY** in writing.
13. The **BANK** declares that it has powers to issue this **GUARANTEE** under the **BANK**'s memorandum and articles of association and the undersigned has full powers to do so on its behalf under the powers of Attorney granted to him by the proper authorities of the **BANK**.
14. Notwithstanding anything to the contrary contained herein before, our liability is restricted to **Rs. ----- (Rupees ----- only)**. This **GUARANTEE** is valid up to **(30 days beyond the warranty period)**----- from the date of execution of this deed and a claim period of **two months** beyond the validity date. Unless a written demand is served under this **GUARANTEE** within **two months** from the end of the above said validity period all the rights of the **COMPANY** under the **GUARANTEE** shall be forfeited and we, the **BANK**, shall be released and discharged from all liability there under.

Dated this ----- Day of ----- Month of Year -----.

 Signature of the person duly
 Authorized to sign on behalf of
 The bank with full address and
 Office seal.

WITNESS:

1

2

CHECK POINTS FOR FURNISHING THE BANK GUARANTEE (BG) AND CEBG

1. The bank guarantee (BG) should be submitted on Rs. 100/- Non judicial stamp paper or part values totaling to Rs.100/-
2. The Non-judicial stamp paper should be purchased by the issuing bank.
3. The BG should be forwarded along with Banker's covering letter, with signature and seal. The contact details of the Issuing Bank such as Contact person(s), designation, Email ID, Phone No. and Fax No. should be indicated in the document
4. All the details in the blanks to be filled by typing, failing which every hand written entry / corrections should be attested with stamp.
5. The executor (bank authorities) is required to mention the power of attorney no. and date of execution in his favour authorizing him to sign the document.
6. Witnesses column should invariably be signed by the bank officials with name and designation.
7. Clear cut claim period of 2 months beyond the validity date, should be provided as per clause 14.
8. BG No. and date should be mentioned in all pages of BG. All pages should be endorsed/ signed by the executor(s)
9. Please note BG. from co-operative banks are not acceptable.
10. BG. from our consortium banks are preferable. (Our consortium banks list is enclosed).
11. **In case of BG. from non consortium bank (private or public sector bank) the clause no. 11 has to be mentioned with full address of the bank's branch at Hyderabad.**
12. In case of BG issued by foreign Bank, it may be confirmed by our consortium bank in India.
13. BG. of other banks (banks other than consortium banks, public sector banks and cooperative banks), can be accepted if their net worth is more than Rs. 500 crores as on last balance sheet date.(a certificate and copy of latest balance sheet to be given by the bank at the time of giving bank guarantee)

List of Consortium Banks

A	Nationalised Banks	B	Public Sector Banks
1	Allahabad bank	20	IDBI
2	Andhra bank	C	Foreign banks
3	Bank of Baroda	21	CITI Bank N.A
4	Canara Bank	22	Deutsche Bank AG
5	Corporation bank	23	The Hongkong and Shanghai Banking Corporation Limited
6	Central bank	24	Standard Chartered Bank
7	Indian Bank	25	The Royal Bank of Scotland N.V.
8	Indian Oversea Bank	26	J P Morgan
9	Oriental bank of Commerce	D	Private bank
10	Punjab National Bank	27	Axis Bank
11	Punjab & Sindh Bank	28	The Federal Bank Limited
12	State Bank of India	29	HDFC
13	State Bank of Hyderabad	30	Kotak Mahindra Bank
14	Syndicate Bank	31	ICICI
15	State Bank of Travancore	32	Indusind Bank
16	UCO Bank	33	Yes Bank
17	Union Bank of India		
18	United Bank of India		
19	Vijaya Bank		