



**BHARAT HEAVY ELECTRICALS LIMITED**

CORPORATE RESEARCH & DEVELOPMENT DIVISION

VIKASNAGAR, HYDERABAD - 500 093, INDIA

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## ENQUIRY

To - Enquiry No: 350890401 Enq Date: 07-OCT-08 Due Date: 28-OCT-08 Delivery By: 10-SEP-09

Pin -

Email :

Attn. .

PLEASE SUBMIT YOUR QUOTATION IN SEALED COVER SUPERSCRIBED WITH ENQUIRY NO, ENQUIRY DATE AND DUE DATE SUBJECT TO OUR TERMS AND CONDITIONS ENCLOSED, FOR THE FOLLOWING MATERIALS SO AS TO REACH US ON OR BEFORE THE DUE DATE BY 12 NOON. THE TENDERS WILL BE OPENED AT 2 PM ON THE SAME DAY

PLEASE GIVE REFERENCE OF ENQ NUMBER , ENQ .DATE AND DUE DATE IN ALL YOUR CORRESPONDENCE FOR PROMPT ACTION. IN CASE IF YOU ARE NOT MAKING THE OFFER PLEASE POST A REGRET LETTER AND RETURN THE DOCUMENTS.

SL NO	DESCRIPTION / SPECIFICATION	UNIT	QTY
1	DESIGN, MANUFACTURE, SUPPLY, ERECTION AND COMMISSIONING OF DOUBLE GIRDER EOT CRANES 5/1 TON X 7.4 m IN MAIN HALL AS PER IS 3177 CLASS M5, IS807 AND OTHER RELEVANT STANDARDS AND ENCLOSED SPECIFICATIONS AND COMPLETE WITH ALL ELECTRICALS, RADIO REMOTE CONTROL AND STANDARD ACCESSORIES AS PER REQUIREMENT OF EACH CRANE. CRANES MUST BE RUGGED AND ROBUST IN OPERATION AS PER THEIR NATURE OF WORK. DETAILED SPECIFICATIONS OF COMPLETE E.O.T CRANE ARE ENCLOSED IN ANNEXURE-1.	SET	1

Note: Please submit your offer in two parts as per the enclosed annexure in separate sealed covers as detailed below:

1) First cover shall contain the following:

A) Technical commercial bid along with compliance statement, mentioning applicable duties, taxes etc., and delivery time clearly, (terms, conditions and compliance form enclosed)

B) A copy of the price bid without the prices (unpriced price bid)

2) Second cover containing price bid

3) If the price bid is found to be different from the unpriced price bid in any way, your offer will be rejected

4) Guarantee certificate & manufacturer's test certificate: Required

Important: Taxes & Duties quoted by you 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. Changes in taxes and duties because of the changes in turnover etc. Also be to the supplier's account. In case no tax/duty is included, a self declaration for the exemption may be attached along with the offer.

AS WE ARE ENGAGED IN R&D ACTIVITY "C" FORM WILL NOT BE ISSUED

Yours faithfully  
for

BHARAT HEAVY ELECTRICALS LTD

PLEASE FILL UP THE ENCLOSED VENDOR REGISTRATION FORM AND SEND IT ALONG WITH YOUR QUOTATION. OTHERWISE YOUR QUOTATION WILL NOT BE CONSIDERED. (IGNORE THIS IF YOU HAVE ALREADY SUBMITTED THIS FORM)

KAKKAR PK  
Sr Manager

Email: [pkkakkar@bhelrnd.co.in](mailto:pkkakkar@bhelrnd.co.in)

BHARAT HEAVY ELECTRICALS LIMITED,  
CORPORATE RESEARCH AND DEVELOPMENT VIKASNAGAR, HYD-93  
SPECIFICATIONS FOR 5/1 TON EOT CRANE

#	DESCRIPTION	
	<b>MAIN PARAMETERS</b>	
1.0	<b>Class</b>	<i>M5, duty as per IS: 3177-1999 &amp; IS:807 (Indoor)</i>
		VENDOR OFFER
		DEVIATIONS
2.0	<b>Environment</b>	<i>Indoor, Particle controlled</i>
		VENDOR OFFER
		DEVIATIONS
3.0	<b>Capacity (SWL)</b>	<i>5 T (Main) + 1 T (Auxiliary)</i>
		VENDOR OFFER
		DEVIATIONS
4.0	<b>Lifting hooks</b>	<i>Main Hoist: 5 T, Auxiliary Hoist: 1T</i>
		VENDOR OFFER
		DEVIATIONS
5.0	<b>Span (tentative)</b>	<i>7.4 m. (girder rail to girder rail centre)</i>
		VENDOR OFFER
		DEVIATIONS
6.0	<b>Bay length and width</b>	<i>25 m X 8 m approx. (inside wall to wall)</i>
		VENDOR OFFER
		DEVIATIONS
7.0	<b>Longitudinal Travel (LT)</b>	<i>25 m approx.</i>
		VENDOR OFFER
		DEVIATIONS
8.0	<b>Speeds, Crane</b>	<i>Longitudinal : 18-20 m/min (Long Travel - LT)      Transverse : 12-10 m/min (Cross Travel - CT)</i>
		<i>Main Hoist (MH)      Macro movement : 3.0 m/min      Micro movement : 0.3 m/min</i>
		<i>Aux. Hoist (AH)      Macro movement : 4.0 m/min      Micro movement : 0.4 m/min</i>
		VENDOR OFFER
		DEVIATIONS
9.0	<b>Lift</b>	<i>6 m. (hook lift from floor level)</i>
		VENDOR OFFER
		DEVIATIONS
10.0	<b>Hook approach</b>	<i>6.2 m approx. (from DSL-end to opposite end)</i>
		VENDOR OFFER
		DEVIATIONS
11.0	<b>Out of reach for hook</b>	<i>1.0 m from wall on DSL side end, 0.8 m from wall on opposite end.</i>
		VENDOR OFFER
		DEVIATIONS
12.0	<b>End clearances</b>	<i>300 mm (from wall to centre of rail) on either sides</i>
		VENDOR OFFER
		DEVIATIONS

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SPECIFICATIONS FOR 5/1 TON EOT CRANE

DESCRIPTION		
13.0	Head room	<i>2 m approx. (from the top of the gantry rail to the bottom most part of the building truss) A minimum of 100 mm safe clearance is to be kept above the top most point of the crane to the lowest point of the truss.</i>
		VENDOR OFFER
		DEVIATIONS
14.0	Distance from floor to top of gantry rail	<i>VENDOR to provide (ref. 56.0)</i>
		VENDOR OFFER
		DEVIATIONS
15.0	DSL Type and features	<i>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 meters), 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.</i>
		VENDOR OFFER
		DEVIATIONS
16.0	Operation control	<i>Pendant control: Yes ; Radio Remote control (RRC) : yes Both Pendant and RRC should have following buttons - 1. LT 2. CT 3. MH (macro) 4. AH (macro) 5. MH (micro) 6. AH (micro) 7. Light 8. ON/OFF 9. Siren/hooter 10. Emergency off</i>
	No. of speed steps through	<i>Pendant - Two steps ; RRC - Two steps or better ; Pendant operated from floor level and moves with carriage(CT).</i>
		VENDOR OFFER
		DEVIATIONS : Cabin control : Not envisaged
17.0	Noise level	<i>The operating noise of the crane shall be below 80 db.</i>
		VENDOR OFFER
		DEVIATIONS

BHARAT HEAVY ELECTRICALS LIMITED,  
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SPECIFICATIONS FOR 5/1 TON EOT CRANE

	DESCRIPTION	
18.0	Power supply to trolley	<i>LT : Shrouded DSL; CT : Festooning Cable arrangement</i>
		VENDOR OFFER
19.0	Bridge and carriages	<i>Double girder bridge Box type Double girder, plate built construction, fabricated from rolled steel as per IS:226/IS:2062 plates.</i>
		VENDOR OFFER
20.0	Column supports	<i>RCC/Steel column support will be provided by BHEL (Span 5-6 m).</i>
		VENDOR OFFER
21.0	Fixing arrangement	<i>VENDOR to indicate girder to rail fixing arrangement which is in his scope of supply</i>
		VENDOR OFFER
22.0	Wheel base	<i>LT: min 2000 mm ; CT: min 1600 mm</i>
		VENDOR OFFER
23.0	Power Supply	<i>415 V AC <math>\pm</math>10%, 50 Hz <math>\pm</math>3%, 3 phase- 4 wire system</i>
		VENDOR OFFER
24.0	Brake	<i>Fail safe* electro-hydraulic thrusters for all motions (CT, LT, Hoist etc.) should be totally enclosed conforming to IP:54. (in case of power failure, the load must not move).</i>
		VENDOR OFFER
25.0	Rope fall construction,	<i>to IS: 2266, IS: 1835 6X36 or 6X19 construction with fibre core, ungalvanised rope falls - Main :4, Aux. : 4</i>
		VENDOR OFFER
25.1	Factor of safety	<i>&gt; 6</i>
		VENDOR OFFER
25.2	Ultimate Strength	<i>&gt; 180 kg/sq.mm (test-certificate for breaking load to be submitted)</i>
		VENDOR OFFER
26.0	Type of Coupling	<i>All couplings should be of fully flexible geared type.</i>
		VENDOR OFFER

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DESCRIPTION		
27.0	Transmission and drive	<i>Twin drive with individual shaft and separate motor for LT and central drive for CT. Total no. of wheels - 4, No. of driven wheels -2 and No.of idler wheels -2 for both LT &amp; CT</i>
		VENDOR OFFER
28.0	Ambient temperature	<i>+5<sup>0</sup> C to +55<sup>0</sup> C</i>
		VENDOR OFFER
29.0	Type of hooks	<i>Shank forged "C" hook as per IS:3815 with safety latch arrangement</i>
		VENDOR OFFER
30.0	Rails type	<i>LT: 50 mm Sq.bar CT: 50 mm Sq. bar.</i>
		VENDOR OFFER
31.0	Lubrication system	<i>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.</i>
		VENDOR OFFER
32.0	Bearings	<i>Anti-friction bearings (self aligning, heavy duty, spherical roller type bearings) shall be offered with suitable bearing housings.</i>
		VENDOR OFFER
33.0	Wheels	<i>L' Type, hard (300-350 BHN) die forged alloy steel (C 55-Mn 75) wheels with suitable bearings shall be provided for both LT ( min dia 200mm)and CT( min dia 200mm). Use of lined wheels for noise control is permitted, such design shall be used with prior approval of BHEL.</i>
		VENDOR OFFER

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DESCRIPTION		
34.0	Painting / Colour	<i>The entire equipment shall be painted with off-white / orange colour uniformly, confirming to IS:2932:2003, ISC No.591 (as per IS-5). All surfaces shall be sand blasted and primer coated prior to final coating.</i>
		VENDOR OFFER
35.0	Electrical motor/drives	<i>Crane duty, Class-B /F insulated, squirrel cage induction motors suitable for variable voltage variable frequency (VVVF) drive controls shall be used for all motions and traverses. The hoist motors shall be suitable for inching duty with 150 starts/hr and rated for one hour duty cycle at CDF of 40%. The drive shall have an IP-54 enclosure.</i>
		VENDOR OFFER
36.0	Buffers	<i>Spring loaded buffers shall be provided for LT &amp; CT on either ends.</i>
		VENDOR OFFER
37.0	Limit switches	<i>All limit switches must conform to IP-54 and shall be of shunt types. a) For main and Aux hoist: 1 No. rotary geared + 1 No. counter weight type. b) 2 Nos. each roller lever type each for CT &amp; LT on either ends.</i>
		VENDOR OFFER
38.0	Contactor and fuses	<i>All contactors shall be rated for AC3/AC4 Duty Class. Suitable circuit breaker protection shall be provided for each individual crane motor. Minimum size contactor in power circuit shall be 32 A.</i>
		VENDOR OFFER
39.0	Overload relays	<i>Bi-metallic over-load relays to be provided for all the motors.</i>
		VENDOR OFFER
40.0	Gearing and gear boxes	<i>The gear boxes shall be completely sealed and lubricated for life. Single helical and straight spur gears are to be used for all stages. The body of the gearboxes shall be MS fabricated and stress relieved. The gear boxes shall be horizontal split type and shall feature spherical/roller type bearings.</i>
		VENDOR OFFER

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DESCRIPTION		
41.0	Rope drum	<i>Rope drum shall be fabricated from steel plate and stress relieved / MS seamless pipe . The drum shall have flanges at either end and shall be machine grooved in the hoisting direction. The drum shall be fabricated as per IS:3177-1999 maintaining ratios (of diameter of the drum to the diameter of the rope). Circumference weld joint shall be checked for 100% X-ray quality .</i>
		<table border="1" style="width: 100%;"> <tr> <td style="width: 60%;">VENDOR OFFER</td> <td>DEVIATIONS</td> </tr> </table>
VENDOR OFFER	DEVIATIONS	
42.0	Gantry Girder	<i>a) Suitable gantry girder (runway steel) for the crane shall be offered by the VENDOR and dimnsional 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 6 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 centre distances as approved.</i>
		<i>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 coulmns) as per supplied drawing and template.</i>
		<i>c) The detailed drawing of fixing arrangement, foundation pockets etc showing the above must be submitted for approval before manufacturing the items.</i>
		<i>d) All associated work of fixing, welding, installing the equipments clamping, grouting the foundation pockets etc. shall be completed by the VENDOR using his equipment and man-power.</i>
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DESCRIPTION		
43.0	Materials to be used	<p><i>Rope drum: Fabricated rolled steel IS:2062 or seamless tube of suitable diameter and shell thickness.</i></p> <p><i>Pulleys : Cast steel IS:1030 Gr.4 (sheaved pulleys)</i></p> <p><i>Gear Box : IS: 226/ IS: 2062 fabricated casing duly stress-relieved (horizontal type)</i></p> <p><i>Gear : EN9, Pinion: EN19/EN24</i></p> <p><i>Hardness : 250 to 280 BHN (of pinion) 225 to 280 BHN (of gears), Heat treatment: Hardened and tempered</i></p> <p><i>Wheels: C 55 -Mn 75/ forged alloy steel with hardness of 300-350 BHN</i></p>
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44.0	Crane Fabrication	<p><i>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. The girder must be in single piece, no splice joint is permitted.</i></p>
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45.0	Cables and routing	<p><i>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-sectionl area of 2.5 sq. mm copper.</i></p>
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DESCRIPTION			
46.0	Controls	<i>Individual panel boards (standard make, conforming to IP-54) are to be provided for each motion (LT, CT, Hoist etc). Individual isolating switches for power and control circuits are to be provided in the panels. The control supply voltage shall be maintained as 110 V AC, single phase, 50 Hz.</i>	
		VENDOR OFFER	DEVIATIONS
47.0	Accepted make* of the bought out items * For Indian VENDORS only		VENDOR OFFER
		<i>a) Bearing : SKF/ZKL/NBC</i>	
		<i>b) Thrust brakes : SOC/TSS/SNS</i>	
		<i>c) Cables : Finolex/ LAPP/ Radiant</i>	
		<i>d) Couplings : WMI/Wagman/Nu-Teck/Flexi Tran</i>	
		<i>e) Contactors / Isolators : Siemens/L&amp;T/BCH / Telemecanique/</i>	
		<i>f) Hooks : Herman Mohetta/Hercules/Steel Forging / EEK</i>	
		<i>g) Limit switches : Siemens/SOC/SNS</i>	
		<i>h) Motors : GEC/Crompton/ABB/Siemens/Bharat Bijilee</i>	
		<i>i) Wire rope : Usha martin/Fort William</i>	
		<i>j) Isolator switches : Siemens/ L&amp;T/ Schneider</i>	
		<i>k) MCCB : Siemens/L&amp;T/MDS/Schneider/ Legrand</i>	
		<i>l) Radio remote control : Stromag/SNT (Model:CC /Acropolis alongwith charger, if any</i>	
		<i>m) Fuses and fuse units : Siemens/English Electric</i>	
		<i>p) Controllers, limit switches (IP:54) : SOC/WMI/OMEGA/TSS/SNS</i>	
<i>n) Panel boards : Siemens / Rico/Rettle /BCH /OEM</i>			
<i>o) Gear Boxes : Shanti/Elecon/Radicon/Nu-Tech</i>			
<i>p) DSL (shrouded) : Stromag/Safetrack</i>			

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DESCRIPTION		
48.0	Earthing	<i>A common electrical Earthing bus is to be installed on the crane, covering the entire span and trolley etc. Double earthing to be provided for all the electrical equipments. Suitable earthing arrangement should be extended from crane to the rail and gantry girder, which in turn must be perfectly earthed as per Indian Electricity rules.</i>
		VENDOR OFFER
		DEVIATIONS
49.0	Documents with Technical bid	VENDOR OFFER
		DEVIATIONS
		<i>1. General arrangement drawings of the crane showing the requisite details are to be submitted along with technical offer.</i>
		<i>a) Top most point of the crane to bottom most point of the truss</i>
		<i>b) Hook approach on either side from the walls</i>
		<i>c) Rail to rail distance (Span)</i>
		<i>d) Total height of the lift etc.</i>
		<i>2. Sample O&amp;M Manual (soft/hard copy)</i>
		<i>3. Manufacturers reference list and background for last 10 years.</i>
		<i>4. Point-wise response / clarification to all the above points (offer may be rejected if not complied with)</i>
50.0	Drawings and documents ( 5 sets each )	<i>Following documents and drawings shall be submitted for approval before manufacture of the crane.</i>
		<i>a) GA drawing of the crane</i>
		<i>b) GA drawing of the crab/trolley</i>
		<i>c) GA drawing of the individual mechanism</i>
		<i>d) Drawing of bridges, end carriages and their connections, sub-assembly, drawings for wheels, hook blocks, gear boxes and hoist drum.</i>
		<i>e) Calculation for selection of motors, gear reducers, brakes, couplings</i>
		<i>f) Calculation for bridge girder, end carriage and their connections</i>
		<i>g) Drawing pertaining to power and control wiring circuits</i>
		<i>h) Quality plan</i>
		<i>i) Document pertaining to BO items / not covered in NIT</i>

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DESCRIPTION					
51.0	Stage inspections	<p><i>Vendor shall agree to 3 stage inspection as follows:</i></p> <p><i>Stage- 1</i></p> <p><i>a) Verification of test-certificates for raw materials for girders, end carriages etc.</i></p> <p><i>b) Verification of X-ray report of the butt joint of girders</i></p> <p><i>c) Box girder setting before closing the bottom flanges inspecting the quality of the welding and waviness.</i></p> <p><i>d) Trolley frame fabrication before setting the mechanism</i></p> <p><i>e) End carriage fabrication</i></p>			
		<p><i>Stage-2</i></p> <p><i>a) Bridge and end carriage with wheel assembly and alignment checking.</i></p> <p><i>b) Span, diagonal wheel alignment, mechanism assembly and alignment checking.</i></p> <p><i>c) Free running of the mechanism</i></p> <p><i>d) Measurement of camber in the bridges</i></p>			
		<p><i>Stage-3</i></p> <p><i>a) Final load-test and deflection test (Loads shall be arranged by the supplier)</i></p> <p><i>b) Measurement of deflection and permanent set</i></p> <p><i>c) 25 % overload lifting ability checking</i></p>			
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52.0	Quality Plan	<p><i>Vendor shall submit the complete 'Quality Plan' for the project alongwith 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.</i></p>			
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DESCRIPTION		
53.0	Spares & Services	<p>a) Vendor shall agree to attend to the installation with in 24 hours of service call (first 12 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>
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VENDOR OFFER	DEVIATIONS	
54.0	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, equipments that would be required for erection is to be arranged by supplier) , installation, testing (supplier must arrange for all materials, instruments and equipments that will be required for the Load test, including arranging of dead weights), commissioning of the complete package, proving of performance etc.</p>
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55.0	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>
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DESCRIPTION				
56.0	Details to be furnished by the supplier	<p>a) Total weight of the crane including electrical equipment.  b) Total width of the crane.  c) Total weight of the trolley including electrical equipment  d) Total Weight of each bridge assembled and ready for erection with and without mechanical and electrical equipment.  e) Weight of each end carriage assembled and ready for erection.  f) Total weight of structural, mechanical and electrical equipments separately.  g) Specifications with respect to civil inputs requirement.  h) Details of the capacities of motors (electrical rating).  i) Vendor must indicate their requirement and tolerance with respect to the civil concrete/steel bracket (on which the gantry girder would be seating).  j) The inputs like maximum wheel load etc. (required for the design of the bracket)  k) Vendor must specify the gantry girder section dimension.  l) The height difference between hook top most position and the gantry rail.  m) Distance between the two hooks (Aux &amp; Main).</p>	VENDOR OFFER	DEVIATIONS
57.0	Supplier shall submit	<p>a) Test-certificates for Hoist rope, Hook, Electrical motors, Couplings, Gear boxes, Pulleys, Wheels, Bearings, etc.  b) Material test-certificates for the structural steel, drums, rope, brake drums, pulleys, wheels, shafts etc.</p>	VENDOR OFFER	DEVIATIONS

BHARAT HEAVY ELECTRICALS LIMITED,  
CORPORATE RESEARCH AND DEVELOPMENT VIKASNAGAR, HYD-93  
SPECIFICATIONS FOR 5/1 TON EOT CRANE

DESCRIPTION			
58.0	O&M manuals	<i>Equipment operation instructions, maintenance and service manuals (together with all VENDOR manuals for bought out items), Mechanical and Electrical drawings, Part list are to be supplied in 5 sets each.</i>	
		VENDOR OFFER	DEVIATIONS
59.0	Miscellaneous	<p><i>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.</i></p> <p><i>b) All equipments like gear-boxes, motors, brakes are to be mounted on machined surface and shall have machined foot.</i></p> <p><i>c) A well designed chequered plate platform for attending maintainance of the crane shall be provided. The platforms shall be complete with hand railing and toe-guards.</i></p> <p><i>d) 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.</i></p> <p><i>e) As safety feature, a hooter alarm should be provided with control.</i></p>	<p>VENDOR OFFER</p> <p>DEVIATIONS</p>
60.0	Major scope of the contract	<i>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).</i>	
		<p><i>a) Double girder 5T/1T EOT crane (complete package)</i></p> <p><i>b) Shrouded type DSL System for the crane bay length of 25m</i></p> <p><i>c) Gantry girder and rail for bay length of 25X2 = 50 m.</i></p> <p><i>d) Gantry girder rail as required</i></p> <p><i>e) Total erection, integration, commissioning and testing of the above said packages as complete unit.</i></p>	

BHARAT HEAVY ELECTRICALS LIMITED,  
CORPORATE RESEARCH AND DEVELOPMENT VIKASNAGAR, HYD-93  
SPECIFICATIONS FOR 5/1 TON EOT CRANE

DESCRIPTION			
61.0	General	<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>	
		VENDOR OFFER	DEVIATIONS
62.0	Guaruntee	The vendor shall guaruntee 12 month trouble free service after installation of the equipment.	
		VENDOR OFFER	DEVIATIONS
	IS Reference	<p>a) Crane duty class : IS 3177-1999, IS 807 (indoor)</p> <p>b) Rails : IS 3443</p> <p>c) Ropes : IS 2266, IS 1835</p> <p>d) Hooks : IS 3815</p> <p>e) Rolled steel : IS 226 (1975), IS 2062 (1992)</p> <p>f) Pulleys : IS 1030 Gr 4 (Sheaved Pulleys)</p> <p>g) Steel for rope drum : IS 2062, IS 3177-1999</p> <p>h) Gear box : IS 226, IS 2062</p> <p>i) Painting : IS 557</p>	
		VENDOR OFFER	DEVIATIONS



# BHARAT HEAVY ELECTRICALS LIMITED

CORPORATE R&D DIVISION, VIKAS NAGAR, HYDERABAD – 500 093, AP, India

Ph: 0091-40 – 23778474, FAX: 0091-40 – 23770698

## General Terms and Conditions of Enquiry & Contract for the Purchase of Goods/ Services

1. The quotation and any order resulting from this enquiry shall be governed by these General Terms and Conditions of enquiry and contract for the supply of goods and the supplier quoting against this enquiry shall, unless specifically stipulates any different terms or conditions, be deemed to have read and agreed to the same.
2. Sealed quotations in double cover with tenderer's distinctive seal, superscribing enquiry number, date and due date are to be submitted so as to reach on or before due date & time, addressed to **Additional General Manager(MM), Bharat Heavy Electricals Limited, Corporate Research & Development Division, Vikasnagar, Hyderabad, Andhra Pradesh, India – PIN-500 093, India.**

In the case of **Two-part bid**, each inner cover shall clearly be labeled as a) **Technical & Commercial Bid** containing technical data/ drawings/ catalogues/ quality plans along with commercial terms and conditions & copy of the price bid with the price columns left blank (unpriced price bid), b) **Price bid** containing prices quotes. Installation and/or Commissioning charges shall be spelt out in absolutely lucid terms, taking into account total charges, rather than quoting vaguely, such as charges per man-day or charges per engineer per day etc. **If the price bid was found later to be different from the unpriced price bid in any way, the offer will be rejected summarily.**

3. **Tender/ Technical bid Opening:** Unless specified otherwise, tenders/ technical bids will be opened on appointed date and time as mentioned in the enquiry or as communicated changed date/time, if any, in the presence of such of those tenderers who may be present.
4. **Delayed/ Late Tender:** Tenders, which have been posted by registered post through the postal department in time before opening date but received after tender opening, shall be treated as regular tenders. Other tenders received after tender opening time shall be treated as late tenders and normally they may be rejected.
5. The Quotation should be free from overwriting and erasures. Corrections and additions, if any, must be attested. Supplier should indicate in the quotation dimensions (Size), weight, rate etc., in the metric system unless the enquiry calls for different unit.
6. **Validity of Quotation:** All quotations shall be kept open for acceptance for a period of ninety days from the date of opening of Tenders/ Technical bid and this shall be deemed to be an express condition of all quotations. The rate shall be quoted in both figures and in words.
7. In the case of Two-part bid, the vendor should furnish technical 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.
8. **Revision of Pricebid:** In the event of any bidder, after finalizing the technical specifications and scope of supply, opting to revise and submit their latest price bid, then BHEL reserves the right to open their original / previous price bid also while evaluating revised bid.
9. **Pricebid Opening:** Unless specified otherwise in the enquiry, the Price bids of technically qualified vendors shall be opened with prior intimation in the presence of such of those tenderers who may be present.
10. **Conformity to Specifications:** The material should be of the best quality and shall be conforming to our specification given in our enquiry. Unless otherwise agreed upon by BHEL, no payment shall be due by BHEL in respect of any sample. Offers without details of specifications/ applicable catalogues will not be considered and are liable to be rejected.
11. **Terms of Delivery:** All suppliers shall quote the lowest prices on ex-works and FOB/FCA basis. Foreign suppliers will also indicate their Indian agent's name and address with percentage of agency commission out of the quoted price, if any. Name and Address of the supplier's Bankers address should also be given. Indian suppliers for the indigenously manufactured/ imported stock shall quote on Ex-works /Free-on-Rail/Road /FOR-destination basis, indicating packing & forwarding charges, if any, separately.
12. **Taxes and Duties:** Unless specified otherwise in the enquiry, BHEL do not provide "C" or "D" Form as it is engaged in R&D. All Indian suppliers shall clearly mention 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. It will be paid

only if Registration Number under State(TIN)/ Central Sales Tax or Service Tax is specifically mentioned in the Bill/Invoice. Vendors without a Sales Tax/VAT registration and applicable Service Tax registration will not be considered.

13. **Insurance:** Insurance will be arranged by BHEL in case of Ex-Works as well as FOB basis supplies.
14. **Terms of Payment:** Full payment will be made within 30 days after receipt, inspection and acceptance of the material (and where involved, Erection and commissioning of the material/ equipment at BHEL/Destination) by Crossed cheque and no Bank commission charges are admissible. The Cheque will be sent by registered post and BHEL is in no way responsible if loss occurs due to delay by postal authorities and cheques falling into improper hands or through forgery or fraud. Suppliers having RBI-SEFT-enabled accounts can seek payment through Electronic Fund transfer. For foreign suppliers, the preferred payment term will be on Sight Draft basis and bank charges inside India will be to BHEL account and outside India will be to supplier's account.
15. Suppliers shall quote competitive price and best delivery for all the items mentioned in the enquiry. BHEL reserves the right to reject partial quotations and to place order on overall landed cost basis. Correct date of effecting supplies in the event of an order should be indicated in the offer. If the supplier's quoted terms are different from BHEL standard payment terms, interest @10.5% per annum (or as indicated in the enquiry) will be loaded to the quoted prices for difference of payment period.
16. **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 and indicate packing charges, if any, separately.
17. **Part/ Split Ordering:** BHEL reserves right to Order part of the item/ quantity of the enquiry and split the order among qualified vendors.
18. In case the goods enquired are on Rate Contract basis with any other unit of BHEL, such fact should be clearly indicated in the quotation giving full particulars of Rate Contract number, validity and price and also your willingness to comply with order if placed against such Rate Contract. A true copy of Rate contract signed by the supplier should be sent with the quotation.
19. **Inspection:** On receipt, the goods shall be subjected to inspection and also test, if necessary, and our decision regarding the acceptability of the goods shall be final and binding on the suppliers.
20. **Consequences of Failure To Deliver:** The time stipulated for delivery of goods shall be deemed to be the essence of the contract and delivery must be completed within the stipulated date/s. In the event of supplier's failure to supply the goods by the stipulated date/s, BHEL shall be entitled to levy a penalty of ½% per week for the delayed no of weeks or part thereof for the undelivered portion of PO subject to a maximum of 10% total order value.
21. **Withdrawal from the Contract:** 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 incidental to the breach of contract on the part of the supplier.
22. **Guarantee/ Warranty certificate and Manufacturer's Test report:** Invariably in all cases where it is so stipulated, the supplier should furnish Guarantee/ Warranty certificate valid for a period of 18 months from date of supply or 1 year from the date of receipt, acceptance and commissioning(or more, if provide by oem) whichever earlier and manufacturer's Test report along with the goods, failing which, BHEL shall have the right to reject the goods.
23. All ferrous/ non-ferrous items shall be colour coded as per bureau of Indian standards/ or IS standards/ BHEL Standards.
24. **Recovery of Dues:** BHEL shall recover any amount due from the supplier or any amount outstanding to the credit of the supplier with BHEL R&D unit or any other BHEL unit(s) and/or by legal action.
25. **Arbitration & Forum for Legal Proceedings:** All disputes arising in connection with indigenous/ foreign supplies shall be settled through arbitration held at Hyderabad, AP, India and arbitration shall be appointed by Arbitration Tribunal of the Federation of Andhra Pradesh Chambers of Commerce and Industry, Hyderabad, AP, India. The Courts at Secunderabad/ Hyderabad, AP, India shall have jurisdiction in respect of any suit or other legal proceeding arising from or relating to this contract

The rights and remedies of BHEL stated in these General terms and conditions shall be in addition and supplemental to its rights and remedies under law and custom or usage of trade or business and shall in no way be deemed to limit, curtail, supercede or derogate from its said rights and remedies.



**ANNEXURE “AA**  
**BHARAT HEAVY ELECTRICALS LIMITED**  
**CORPORATE RESEARCH & DEVELOPMENT DIVISION**  
**VIKASNAGAR, HYDERABAD – 500 093. INDIA**

**MATERIALS MANAGEMENT DEPARTMENT**  
**(Information for Technical & Commercial bids with general terms)**

**ENCLOSURE TO ENQ No:**

**DATE:**

- a) Please indicate(    / ) for applicable or ( **X** ) for not applicable against each clause of the enquiry
- b) Vendor shall confirm their compliance for applicable clauses (    / ) in their offer without deviation.

**1) Technical offer:-**

- a) Vendors to confirm compliance to all points of specifications, attached if any. Deviations if any should be specified in the offer.
- b) Vendors shall furnish relevant technical Documents / Catalogues. Drawings and Quality plan duly taking care of Purchase Specification and Quality requirements along with their offer in duplicate for Purchaser’s review / Verification.

**2) Two Part Bid:-**

Vendor shall submit their offer in 2 parts.

**2.1 Technical Bid:-** Containing relevant technical data, drawings, catalogues, Quality Plan etc, along with Commercial Terms and Conditions and a copy of the price bid with the price columns left blank (unpriced price bid). If the price bid was found later to be different from the unpriced price bid in any way, the offer will be rejected.

**2.2 Price Bid:-** Containing the Price(s) quoted. Installation and or commissioning charges shall be spelt out in absolutely lucid terms taking into account the total charges rather than quoting vaguely such as charges as per man day or charges per Engineer per day etc.,

Technical bids will be opened on the due date of the enquiry or any other date fixed by BHEL. Further, vendor should furnish clarifications, if any, required within seven days after the same is sought by Purchaser. If no clarifications/reply received within 7 days, it will be construed that vendor is not interested in the tender and Purchaser will finalise tender accordingly. Price bids received on due date along with technical offers will be recorded and opened subsequently with due intimation to vendors after finalising of technical scope of supply.

These bids shall be submitted in separate sealed covers superscribing the nature of the offer (technical bid or price bid). BHEL Enq No. Due date etc.

**Note: In case of non-compliance with the TWO\_-PART-BID ie.. clause number 2 and subclauses 2.1 and 2.2. Purchaser reserves the right to summarily reject all such offers.**

**3) Delivery:-**

**Vendor shall confirm supply of materials as per the delivery schedule indicated in the enquiry.**

**4) Negotiations:-**

**Vendor shall quote competitive price and best delivery to avoid negotiations.**

**5) Commercial Terms & Conditions:-**

**Terms of Delivery:**

- a) **Vendors shall clearly indicate terms of delivery Viz: Ex-Works/FOR Despatching station/FOR Despatching station FOR Destination/FOB port of loading/FAS Port of loading in their offer. If the terms of delivery is Ex-Works, then vendors shall clearly indicate the following:**
  1. **Packing and forwarding charges.**
  2. **Documentation / Handling charges if any**
  3. **FOB FAS charges (Inland Freight & Insurance charges from vendor works to port of Loading).**
- b) **All Indian Vendors shall clearly specify the Excise Duty in percentage applicable for their supplies. Offers containing expressions such as “Extra as applicable” or “As applicable at the time of Delivery” will be summarily rejected.**
- c) **CST/Local Sales Tax in percentage shall be clearly indicated.**

**6) Validity of Quotation:-**

**Validity of offer should be 90 days after the opening of price bid.**

**7) Part or split ordering:-**

**Purchaser reserves the right to order part of item / quantity of the enquiry.**

**8) For clauses not mentioned in this document see the enclosed “GENERAL TERMS AND CONDITIONS OF ENQUIRY AND CONTRACT FOR THE PURCHASE OF GOODS”**

- 9) **In case your terms of payment are different from our standard payment terms, interest at the rate of 10.5% per annum (or BHEL’s standard rate of interest) will be loaded to your prices for the difference of period of payment.**



**BHARAT HEAVY ELECTRICALS LIMITED**  
**CORPORATE R&D Division**  
**Vikasnagar, Hyderabad – 500093, India.**

**Suppliers' compliance statement to basic conditions of enquiry**

**(In case Order to be placed on Indian supplier in Indian currency)**

<b>Condition</b>	<b>BHEL R&amp; D's terms</b>	<b>Supplier's compliance</b> <b>(indicate Yes/No. if 'No', state terms desired)</b>
1) Validity of offer	90 days from the tender opening date	
2) Delivery requirements	Free delivery at our stores or FOR destination (as indicated in the enquiry)	
3)Warranty	Unless specifically mentioned in the enquiry, all supplied items to be provided with warrantee for one year (or more, if provided by the OEM) from the date of acceptance/commissioning. In case of equipment involving erection and commissioning, warrantee shall be for 18 months from the date of dispatch or 12 months from the date of commissioning, whichever is earlier	
4) Terms of payment	Full payment will be made within thirty days after receipt, inspection and acceptance of the material at BHEL R&D (and where involved, erection and commissioning of the material/equipment at BHEL/destination), by Crossed Cheque and no Bank commission charges are admissible.	
5) Taxes & Duties	Unless specifically mentioned in the enquiry, we do not provide 'C' or 'D' form. Supplier to specify rates of taxes and duties element wise and related percentages.	
6) Penalty for late delivery	0.5% per week beyond the delivery date as mentioned in the Purchase order on undelivered portion subject to a maximum of 10% of the total order value	

\* BHEL R&D reserves the right to reject any offer due to non-compliance with the above conditions and/or non-receipt of this form in duly filled condition

\* Any other elements of cost in addition to the above may please be specified in detail

**(Signature and Stamp/Seal of Vendor)**



**BHARAT HEAVY ELECTRICALS LIMITED**  
**CORPORATE R&D Division**  
**Vikasnagar, Hyderabad – 500093.**

**IMPORTED**

**Suppliers' compliance statement to basic conditions of enquiry**

**(In case Order to be placed on the Principal and foreign currency)**

<b>Condition</b>	<b>BHEL R&amp; D's terms</b>	<b>Supplier's compliance (indicate Yes/No. if 'No', state terms desired)</b>
01) Validity of offer	90 days from the tender opening date ( or as per enquiry)	
02) Delivery requirements	FCA – Nearest International Airport (or as indicated in the enquiry)	
03) Warranty	Unless specifically mentioned in the enquiry, all supplied items to be provided with warrantee for one year (or more, if provided by the OEM) from the date of acceptance/ commissioning. In case of equipment involving erection and commissioning, warrantee shall be for 18 months from the date of dispatch or 12 months from the date of commissioning, whichever is earlier	
04) Terms of payment	Sight draft. All bank charges inside India will be to BHEL R&D account and out side India will be to suppliers account. Documents through State Bank of India, HAL Complex, Balanagar, Hyderabad, AP, India-500 042.	
05) Agency commission	PI specify percentage charges, if any. Indian agency/agent commission will be in Indian Currency only.	
06) Erection/ Commission	As per enquiry	
07) Documentation	As per enquiry	
08) Insurance	BHEL will arrange Insurance based on intimation to our Insurance agency, United India Insurance Co., DO-2, Secunderabad, AP, India.	
09) Penalty for late delivery	0.5% per week beyond the delivery date as mentioned in the Purchase order on undelivered portion subject to a maximum of 10% of the total order value	

\* BHEL R&D reserves the right to reject any offer due to non-compliance with the above conditions and/or non-receipt of this form in duly filled condition

\* Any other elements of cost in addition to the above may please be specified in detail

**(Signature and Stamp/ Seal of Vendor)**



BHARAT HEAVY ELECTRICALS LTD.  
Corp. R&D DIVISION  
VIKAS NAGAR,  
HYDERABAD-500 093 (INDIA)

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

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Before filling please refer to instructions on page-4

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1.0 VENDOR PROFILE:

1.1 & 1.2 Name and address of the vender: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Phone Nos.:

Fax No.:

Email:

1.4 Local representative of the vender in India/ Hyderabad:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Phone Nos.:

Fax No.:

Email:

Contact person:

Mobile No.:

2.0 & 2.1 Type of Organisation:

PROPRIETORSHIP	COMPANY	SISTER CONCERN	ANY OTHER (Please specify)
PARTNERSHIP	CORPORATION	Small Scale Industry	

3.0 Annual Turn Over:

Name and address of the Banker:

Sr.No.	Bank	Address

4.0 REGISTRATION PARTICULARS

4.1 IT Permanent Account No.(PAN):

4.2 & 4.3 State and central sales tax Registration No.:

4.4 ED/ Service Tax Registration No.:

PF Account No.:

Labour Licence No.:

ESI Account No.:

5.2 Contact person:

Mobile No. :

5.3 Total Number of employees:

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

6.0 Wish to register for supplies/ services other than one bidding for :

<u>Sr.No.</u>	<u>Service/Supplies</u>	<u>Capacity</u>
<u>1</u>		
<u>2</u>		
<u>3</u>		
<u>4</u>		
<u>5</u>		
<u>6</u>		
<u>7</u>		

6.1 Reference list :

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

<u>Sr.No.</u>	<u>Customer</u>	<u>Volume / Year</u>
<u>1</u>		
<u>2</u>		
<u>3</u>		
<u>4</u>		
<u>5</u>		
<u>6</u>		
<u>7</u>		

7.0 & 8.0 Infrastructure / facilities :

<u>Sr.No.</u>	<u>Facility (with specifications)</u>	<u>Age/ Year procured</u>
<u>1</u>		
<u>2</u>		
<u>3</u>		
<u>4</u>		
<u>5</u>		
<u>6</u>		
<u>7</u>		
<u>8</u>		
<u>9</u>		
<u>10</u>		

9.0 Registration with other BHEL Unit/Units:

<u>Sr.No.</u>	<u>9.1.1 Unit</u>	<u>9.1.2 Registration No.</u>
<u>1</u>		
<u>2</u>		
<u>3</u>		
<u>4</u>		

Any Other information :

Declaration:

The information furnished above is true and authentic.

**(CEO / Proprietor)**

**SEAL:**

**Date:**

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The competent authority reserves the right to accept or reject the registration. Registered vendors will be informed by mail / email, as convenient. Contact Sr.DGM (MM) for clarification/ additional information on registration.  
A separate communication will be sent to you in case of non-registration, citing reasons thereof.

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### **Instructions**

1. Answer all items, use NA for items not applicable.
2. BHEL units do not require this registration.
3. Submit the form in duplicate.
4. Use additional sheets for want of space if required.
5. Attach copies of latest documents in respect of items 4.0 (Registration no.s)
6. Photographs of registered office and the chief executive/proprietor shall be furnished.
7. Use A4 sheets for this document and the enclosures.

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\* REGISTERED BIDDERS, HAVING BHEL (R&D) REGISTRATION NO./ HAVE SUBMITTED THIS FORMAT EARLIER, NEED NOT FURNISH THIS INFORMATION SECOND TIME (UNLESS DESIRE TO UPDATE IT).



**BHEL CORPORATE R & D**  
**VIKAS NAGAR- HYDERABAD - 500 093**  
**ANDHRA PRADESH – 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

NOTE: PLEASE ATTACH SEPARATE SHEETS, IF SPACE FOUND IS INADEQUATE

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AUTHORISED SIGNATORY

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**BHEL CORPORATE R & D**  
**VIKAS NAGAR – HYDERABAD – 500 093**  
**ANDHRA PRADESH – INDIA**

**SUPPLIER REGISTRATION FORM**

(FOREIGN SUPPLIER)

- 1.6 CONTACT PERSON(S)  
FOR PRODUCT OFFERED  
NAME(S)  
OFFICIAL CAPACITY  
ADDRESS:  
TELEPHONE  
FAX  
E-MAIL
- 1.7 YEAR OF ESTABLISHMENT
- 1.8 PRODUCTION CAPACITY PER ANNUM
- 1.9 PARTICULARS OF PRODUCT INCLUDING  
SPECIFICATION AND RANGE OFFERED  
FOR REGISTRATION  
( ATTACH BROCHERS AND CATALOGUE)
- 1.10 NAME(S) OF BANKERS
- 1.11 BANKER'S CERTIFICATE
- 1.12 PORT OF LOADING
- 1.13 NEAREST AIRPORT
- 1.14 NAME OF THE INDIAN AGENT, IF ANY  
WITH AUTHORISATION LETTER
- 1.15 ANY OTHER INFORMATION:

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AUTHORISED SIGNATORY

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**BHEL CORPORATE R & D**  
**VIKAS NAGAR – HYDERABAD – 500 093**  
**ANDHRA PRADESH – INDIA**

**SUPPLIER REGISTRATION FORM**

(FOREIGN SUPPLIER)

**2.0 FINANCIAL INFORMATION**

2.1...TOTAL CAPACITY

2.2...ANNUAL TURN OVER FOR LAST 3 YEARS

2.3...WHEHER CREDIT LICENSE ACCEPTABLE      YES/NO

**3.0 QUALITY MANAGEMENT SYSTEMS**  
ENCLOSED FORMAT PART-B

3.1 EXPERIENCE LIST FOR SAME/SIMILAR ITEMS  
TO BE ENCLOSED

**4.0.....FUTURE EXPANSION PLANS:**  
(GIVE DETAILS)

**5.0 LIST OF ENCLOSURES:**  
INCLUDING BROUCHERS, CATALOGUES, TECHNICAL  
LITERATURE etc...

**6.0 ANY OTHER INFORMATION**

SIGNATURE OF SUPPIER

NAME

DESIGNATION

DATE

.....OFFICIAL SEAL

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AUTHORISED SIGNATORY

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