



An ISO 9001
Company

Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

CAPITAL EQUIPMENT / MATERIALS MANAGEMENT

ENQUIRY NOTICE INVITING TENDER	Phone: +91 431 257 7653 Fax : +91 431 252 00 31 Email : skaruna@bheltry.co.in Web : www.bhel.com
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TWO PART BID	Enquiry Number:	Enquiry Date:	Due date for submission of quotation:
Tender to be submitted in two Parts	2631600052	13.08.2016	23.09.2016

You are requested to quote the Enquiry number date and due date in all your correspondence. This is only a request for quotation and not an order.
Please note that under any circumstances both delayed offer and late offers will not be considered. Hence vendors are requested to ensure that the offer is reaching physically our office before 14.00 hrs on the Date of tender opening.

Item	Description	Quantity
10	LT Brake Assembly for 5 Ton EOT Crane	02 Nos.
20	4 Line DSL Shrouded Conductor for 5 Ton EOT Crane	01 Set
30	LT Motor for 5 Ton EOT Crane	2 Nos.
40	Variable Feed Drive and Electrical Panels for 5 Ton EOT Crane	01 Set.

The Technical Specifications for the above items shall be as per the technical specification & commercial conditions enclosed with this cover sheet (to be downloaded from web site www.bhel.com or <http://tenders.gov.in>)

Important points to be taken care during submission of offer:-

1. The Compliance Form for Commercial Terms & Conditions to be filled and enclosed along with the offer failing which, the offer will not be considered for evaluation.
2. All updates, amendments, corrigenda, etc., (if any), for each tender will be posted only on the above websites from time to time, as and when required, until each tender is opened. There will be no publication of such updates, amendments, corrigenda, etc., through newspapers or any other media

BHEL's General guidelines / instructions (refer MM/CE/GENL/001) including bank guarantee formats and list of consortium banks, commercial terms check-list can be downloaded from BHEL web site <http://www.bhel.com> or from the Government tender website <http://tenders.gov.in> (public sector units > Bharat Heavy Electricals Limited page) under above Enquiry reference.

<p>Tenders should reach us before 14:00 hours on the due date</p> <p>Tenders will be opened at 14:30 hours on the due date Tenders would be opened in presence of the tenderers who have submitted their offers and who may like to be present</p>	<p>Yours faithfully, For BHARAT HEAVY ELECTRICALS LIMITED</p> <p><i>Saranya C</i> J. SARANYA Senior Engineer MM / Capital Equipment BHEL / Tiruchirappalli - 620 014.</p>
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PART- A

PRE- QUALIFICATION CRITERIA FOR LT BRAKE ASSEMBLY FOR 5 TON EOT CRANE

The BIDDER / VENDOR has to compulsorily meet all the following requirements to get qualified for consideration of the technical offer for the Brake Assembly. If the vendor does not qualify as per PRE- QUALIFICATION CRITERIA, the technical offer of such BIDDER(s) / VENDOR(s) offer will not be evaluated.

S. No.	REQUIREMENTS	VENDOR's COMMENTS
1	The BIDDER(s) / VENDOR(s) shall be a Manufacturer or an Authorised dealer for supply of Brake Assembly. In case of dealers, valid authorisation certificate from the manufacturer for supply of induction motors in Part-B mentioning the enquiry number should to be submitted along with offer, failing which the offer will not be considered.	
2	The BIDDER(s) / VENDOR(s) shall have a minimum three years of Continuous Experience in the field of supply of Brake Assembly to manufacturing industries. The BIDDER / VENDOR should necessarily attach Certificate of Incorporation/ Deed of partnership/Certification of registration or any other documents supporting the above experience.	
3	The BIDDER(s) / VENDOR(s) shall have supplied at least 2 Nos. of the same Make/model quoted in this tender for the past three years to their customers. The BIDDER / VENDOR should necessarily attached Purchase order copy/ Performance certificate or any other documents supporting the above supply. The BIDDER / VENDOR should necessarily submit the commissioning certificate of the same.	
4	The supplier has to submit the original test certificate for the items from the Manufacturer at the time of supply of the materials. Only on the receipt of the test certificate from the Manufacturer, the materials will be accepted.	
5	Any Deviations in technical specification may lead to rejection of the offer.	
6	The reference List of Customers shall be accompanied with the details (Phone Number /E-Mail ID) of the CONTACT PERSON for reference by BHEL.	

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PART-B

**TECHNICAL SPECIFICATION FOR LT BRAKE ASSEMBLY -2 NOS.FOR
STON EOT CRANE**

Sl.No.	BHEL Specifications	Vendor's Comments
1	A.C. ELECTRO HYDRAULIC DOUBLE SHOE, SPRING LOADED THRUSTOR BRAKE UNIT suitable for diameter 200mm brake drum(suitable for 400/440 Volts, 3 Phase AC Supply) with thrustor and 2 spare tie-rods. – 2 NOS.	
2	Thrustor Capacity : 18 kg.	
3	Stroke : Minimum 50mm,	
4	Braking Torque : Minimum 20 kg-m.	
5	Preferred Makes: ANAND SYSTEMS, OMEGA CONTROLS, TECHNICAL SYSTEMS, ELECTROMAG, SPEED –O- CONTROL or any other make acceptable to BHEL.	

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PART - A

PRE- QUALIFICATION CRITERIA for 4-line DSL Shrouded Conductor system FOR 5 TON EOT CRANE

The BIDDER / VENDOR has to compulsorily meet all the following requirements to get qualified for consideration of the technical offer for the SUPPLY OF SHROUDED CONDUCTOR SPARES FOR EOT CRANES. If the vendor does not qualify as per PRE- QUALIFICATION CRITERIA, the technical offer of such BIDDER(S) / VENDOR(S) offer will not be evaluated.

S. No.	REQUIREMENTS	VENDOR'S COMMENTS
1	The BIDDER(S) / VENDOR(S) shall be a Manufacturer or an Authorised dealer of DSL shrouded conductor system. In case of dealers, valid authorisation certificate from the manufacturer for supply of the Shrouded Conductor System in Part-B mentioning the enquiry number should to be submitted along with offer, failing which the offer will not be considered.	
2	The BIDDER(S) / VENDOR(S) shall have a minimum TWO years of Continuous Experience in the field of DSL Shrouded Conductor system supply and commissioning. The BIDDER / VENDOR should necessarily attach Certificate of Incorporation/ Deed of partnership/Certification of registration or any other documents supporting the above experience.	
4	The BIDDER(S) / VENDOR(S) shall have supplied at least one No. of same Make/model quoted in this tender to their customers using the DSL busbar system with current capacity rating of minimum 250A for the past TWO years. The BIDDER / VENDOR should necessarily attached Purchase order copy/ Performance certificate or any other documents supporting the above supply.	
5	The supplier has to submit the original test certificate for the items from the Manufacturer at the time of supply of the materials. Only on the receipt of the test certificate from the Manufacturer, the materials will be accepted.	
6	Any Deviations in technical specification may lead to rejection of the offer.	
7	The reference List of Customers shall be accompanied with the details (Phone Number /E-Mail ID) of the CONTACT PERSON for reference by BHEL.	

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PART-B -TECHNICAL SPECIFICATION FOR 4 LINE DSL CONDUCTOR SYSTEM FOR STON EOT CRANE

Specification for 4-Line DSL shrouded conductor system required for EOT crane.

S1.0	CONDUCTOR	BHEL Specification	Vendor's Remarks
S1.1	Total length of shrouded conductor required	20 mtrs.	
S1.2	Quantity in each	Red color insulated conductor = 20 Mtr Yellow color insulated conductor = 20 Mtr Blue color insulated conductor = 20 Mtr Green color insulated conductor = 20 Mtr	
S1.3	Current rating of conductor / Material	60 Amps / GI	
S1.4	Standard length of each conductor	4.5Mtr (Appx.)	
S1.5	Cross sectional area of conductor	Shall be adequate for the current rating.	
S1.6	Insulation cover	Red, Yellow, Blue & Green.	
S1.7	Support pitch	Minimum distance between support brackets - 1000 MM	
S1.8	Hanger clamp	4 pole with double bolted arrangement.	
S1.9	Location of power feeding	Center feeding	
S1.10	Minimum Pitch between conductors	40 mm	
S1.11	Conductor Joint type	4 bolted (2+2 each side) joint	
S1.12	System voltage	415V AC	
S1.13	Insulation	PVC	
S1.14	Protection	IP21	

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		BHEL Specification	Vendor's Remarks
S1.0	CONDUCTOR		
S1.15	Ambient tem.	Suitable for 50°C Ambient Temperature rise.	
S1.16	Installation	Indoor.	
S2.0	CURRENT COLLECTOR		
S2.1	Rating of current collector	125 A	
	Material	sintered copper	
S2.2	Type	Sliding contact with sufficient contact pressure while on movement	
S2.3	Tolerance in collector movement	Horizontal +/- 200 mm Vertical +/- 60 mm	
S2.4	Current collector assembly	Shall be suitable to take vertical and horizontal misalignment during long travel motion of the EOT cranes.	
S2.5	Anchoring	Anchoring clamps shall be provided to avoid conductor longitudinal movement.	
S2.6	Insulated covers shall be provided	At all conductor joints, at all center power feed, anchoring point and at all ends.	
S2.7	No. of current collector assembly required	4 nos.	
S2.8	Indicator lamps Red, Yellow, Blue & Green	Shall be provided at the center feed location.	
S2.9	Current collector holding brackets required.	For 1 no. EOT crane.	
S2.10	Make	The DSL shall be Safetrack, Safeline, Silverline and NBM make only. Other makes are liable for rejection.	

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PART- A

PRE- QUALIFICATION CRITERIA FOR LT MOTOR-2 NOS. FOR 5 TON EOT CRANE

The BIDDER / VENDOR has to compulsorily meet all the following requirements to get qualified for consideration of the technical offer for the SUPPLY OF MOTORS. If the vendor does not qualify as per PRE- QUALIFICATION CRITERIA, the technical offer of such BIDDER(s) / VENDOR(s) offer will not be evaluated.

S. No.	REQUIREMENTS	VENDOR'S COMMENTS
1	The BIDDER(s) / VENDOR(s) shall be a Manufacturer or an Authorised dealer for supply of induction motors. In case of dealers, valid authorisation certificate from the manufacturer for supply of induction motors in Part-B mentioning the enquiry number should be submitted along with offer, failing which the offer will not be considered.	
2	The BIDDER(s) / VENDOR(s) shall have a minimum three years of Continuous Experience in the field of supply of motors to manufacturing industries. The BIDDER / VENDOR should necessarily attach Certificate of Incorporation/ Deed of partnership/Certification of registration or any other documents supporting the above experience.	
3	The BIDDER(s) / VENDOR(s) shall have supplied at least 2 Nos. of the same Make/model quoted in this tender for the past three years to their customers. The BIDDER / VENDOR should necessarily attach Purchase order copy/ Performance certificate or any other documents supporting the above supply. The BIDDER / VENDOR should necessarily submit the commissioning certificate of the same.	
4	The supplier has to submit the original test certificate for the items from the Manufacturer at the time of supply of the materials. Only on the receipt of the test certificate from the Manufacturer, the materials will be accepted.	
5	Any Deviations in technical specification may lead to rejection of the offer.	
6	The reference List of Customers shall be accompanied with the details (Phone Number /E-Mail ID) of the CONTACT PERSON for reference by BHEL.	


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PART-B

TECHNICAL SPECIFICATION FOR LT MOTOR-2 NOS. FOR 5 TON EOT CRANE

Sl.No.	BHEL Specifications	Vendor's Comments
	CRANE DUTY SQUIRREL CAGE INDUCTION MOTOR – 2 Nos.	
1	FRAME SIZE	: 132M
2	POWER	: 3.5KW
3	VOLTS	: 415V
4	FREQUENCY	: 50HZ
5	SYNC SPEED	: 1000 RPM
6	STATOR CURRENT	: 7.5A
7	POLES	: 6
8	WINDING CONNECTION	: DELTA
9	DUTY	: S4
10	CDF	: 40%
11	STARTS / HOUR	: 300
12	PROTECTION	: IP55
13	AMBIENT TEMPERATURE	: 45 DEG C
14	MOUNTING	: B3 (FOOT MOUNT)
15	TERMINAL BOX	: ON TOP

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<p>The Electric motor shall be VVFD class with Crane Duty. Vacuum Pressure Impregnation (VPI) shall be provided to windings. Motor shall be wound with super enameled dual coat copper wires. Motor shall be Type tested, routine tested. test certificates shall have all the details. The motors should be conforming to IS325. Motor to be designed for noise level well below the limits specified in IS: 12065 Motor designed for Temperature rise measurement of rotating electrical machines as per IS 12802 shall be selected.</p> <p>Note:</p> <p>Preferable Makes: Kirloskar, Marathon, Bharat Bijlee, ABB And Siemens are Preferable</p>	
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PART - A

PRE - QUALIFICATION CRITERIA FOR VFD FOR 5 TON EOT CRANE

The BIDDER / VENDOR has to compulsorily meet all the following requirements to get qualified for consideration of the technical offer for the SUPPLY OF VVVF DRIVES FOR HOIST APPLICATIONS. If the vendor does not qualify as per PRE - QUALIFICATION CRITERIA, the technical offer of such BIDDER(s) / VENDOR(s) offer will not be evaluated.

S. No.	REQUIREMENTS	VENDOR's COMMENTS
1	The BIDDER(s) / VENDOR(s) shall be a Manufacturer or an Authorized dealer of VVVF drives. In case of dealers, valid authorization certificate should to be submitted along with offer, failing which the offer will not be considered.	
2	The BIDDER(s) / VENDOR(s) shall have a minimum of Two Years of Continuous Experience in the field of VVVF Drives along with panel for Crane Applications. The BIDDER / VENDOR should necessarily attached Certificate of Incorporation/ Deed of partnership/Certification of registration or any other documents supporting the above experience.	
3	The BIDDER(s) / VENDOR(s) shall have supplied at least one No. of the same Make/model of VVVF Drive quoted to any of their customers. The BIDDER / VENDOR should necessarily attach Purchase order copy/ Performance certificate or any other documents supporting the above supply.	
4	Any Deviations in technical specification may lead to rejection of the offer.	
5	The reference List of Customers shall be accompanied with the details (Phone Number /E-Mail ID) of the CONTACT PERSON for cross reference by BHEL,	

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Part-B Technical Specification for Electrical Control panels and LT VFD FOR 5 TON EOT CRANE

A.) Electrical Panels

SL.No.	BHEL Specifications	Vendor's Comments
	General :	
1.1	This panels will be used for running 5 ton EOT crane in which VFD is used in Long Travel.	
1.2	This panel is mounted on a platform of width 650 mm	
1.3	Electrical Panel shall two in numbers. The first one shall have necessary Electrical elements for – protective, main hoist, cross travel. The second panel shall be used for LT.	
1.4	The panels height and width shall be minimum of 1500 mm (with mounted base channels).and 350 mm. Length of first panel shall be minimum 2000 mm. Length of second panel shall be minimum 500 mm.	
1.5	The panel sheet thickness shall be minimum 3mm.	
1.6	First panel shall have three no of double door arrangement and second shall have one no of double door arrangement. Bolts locking provision shall be provided.	
1.7	In LT portion suitable drive as said in item number 10 shall be mounted.	
1.8	For hoist, the CT drive mounting portion shall be left free. Drive is BHEL scope.	
1.9	The air dust filter must be at bottom side of panel.	
1.1	20% extra elmex terminals shall be provided.	
1.11	Cooling fans shall be provided on the top of the panels.	
1.12	Only contactors (coil voltage -110V) shall be used . the contactors shall be AC3 duty.	
1.13	The Contactors,MCB , MCCB shall be SIEMENS / L&T / Indo Asian.	
1.14	415/110V transformer of rating 1 KVA shall be supplied along with a panel.	
1.15	415/230V transformer of rating 1 KVA shall be supplied along with a panel.	
1.16	The Panel shall be designed to work at 110VAC control power supply with IP54 grade of protection	

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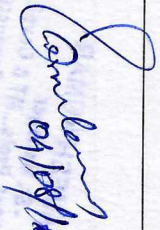
Sl.No.	BHEL Specifications	Vendor's Comments
1.17	The bottom side of panel shall be fitted with Suitable cable glands for cable entry.	
1.18	Extra ten number of NC blocks and ten number of NO blocks of contactor shall be supplied along with the panel.	
1.19	The CFL lighting shall be provided for panel lighting purpose and the panel Shall be provided with 110VAC cooling fan.	
1.2	The Panel shall be painted with pale yellow colour.	
1.21	Necessary ferrules shall be present with numbers.	
1.21	Necessary drawings needs to be provided for approval. After approval only manufacturing shall be commenced.	
2.0	Panel -1 - Protective section:	
2.01	A three phase MCCB of 63 A suitable capacity with earth fault protection shall be in input side.	
2.02	Separate contactors of 3TF33 or equivalent shall be provided for Bridge light, Bell (Bridge light, Bell BHEL scope).	
2.03	A main CB suitable for 100 A shall be provided in the panel with has to be wired in such a way on emergency off and counter weight limit cut – the Main CB has to be released.	
2.04	Three numbers of two pole 6A MCB shall be provided, i.e for Transformers and bridge light.	
2.05	Two nos of socket of 230V with a single switch shall be provided.	
2.06	Terminal blocks shall be horizontally down. Suitable cable glands shall be provided in the panel.	
2.07	Extra two no of Contactor shall be provided in this section.	
2.1	Hoist section:	
2.11	A free space of 550 x 500 mm (H x L) shall be present on top portion.	
2.12	Hoist shall be wired in such a way that it operates with two Operations along with Brake operation FWD/REV and one speed)	

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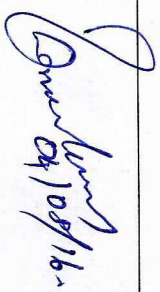
Sl.No.	BHEL Specifications	Vendor's Comments
2.13	Input shall have one number of 32 A MCCB.	
2.14	Directional Interlock shall be present.	
2.15	3TF33 or equivalent contactor shall be used for wiring.	
2.16	Terminal blocks shall be horizontally down. Suitable cable glands shall be provided in the panel.	
2.17	A brake contactor of 3TF33 shall be provided.	
2.18	The Panel shall be provide with glow lamps to indicate the condition of each VFD. These lamps should be fixed external to the panel along with RESET Push Button.	
	i. The RED glow lamp for drive fault indication	
	ii. The GREEN glow lamp for drive ready indication.	
2.19	Necessary wirings shall be present and connected with terminal blocks.	
2.10	Upper and lower limit provision (rotary limit) shall be interfaced in directional contactor shall be provided.	
2.11	A resistance of 30 ohms, 7.5 KW shall be provided.	
2.2	Cross travel section:	
2.21	A free space of 550 x 500 mm (H x L) shall be present on top portion.	
2.22	CT shall be wired in such a way that it operates with two Operations along with Brake operation. (FWD/REV and one speed)	
2.23	Input shall have one number of 10 A MCCB.	
2.24	Directional Interlock shall be present.	
2.25	3TF33 or equivalent contactor shall be used for wiring.	
2.26	Terminal blocks shall be horizontally down. Suitable cable glands shall be provided in the panel.	
2.27	A brake contactor of 3TF33 shall be provided.	
2.28	The Panel shall be provide with glow lamps to indicate the condition of each VFD. These lamps should be fixed external to the panel along with RESET Push Button.	


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Sl.No.	BHEL Specifications	Vendor's Comments
	i. The RED glow lamp for drive fault indication	
	ii. The GREEN glow lamp for drive ready indication.	
2.29	Necessary wirings shall be present and connected with terminal blocks.	
2.30	East and west limit provision (CT limit) shall be interfaced in directional contactor shall be provided.	
2.31	A resistance of 210 ohms and 1 KW shall be provided.	
3	Panel -2- Long travel panel :	
3.1	VFD – 1 no for operating motor with Specification -7.5KW,16A, 930 RPM ,3Ph 415V , 300 ST/HR , Duty Factor-40% CDF	
3.2	The VFD units shall be provided with suitable capacity of Dynamic Braking Unit (DBU) and 50% Brake Resistor (DBR).	
3.3	The Brake Resistor (DBR) shall be provided external to the Panel with Necessary arrangement for natural cooling. Input shall have one number of 25 A MCCB.	
3.4	The Panel shall be provide with glow lamps to indicate the condition of each VFD. These lamps should be fixed external to the panel along with RESET Push Button.	
	i. The RED glow lamp for drive fault indication	
	ii. The GREEN glow lamp for drive ready indication.	
3.5	The VFD unit shall be wired completely so that it can provide 2 Step Operations along with Brake operation (FWD, REV, Step1).	
3.6	Directional Interlock shall be present.	
3.7	3TF33 or equivalent contactor shall be used for wiring.	
3.8	Terminal blocks shall be horizontally down. Suitable cable glands shall be provided in the panel.	
3.9	A brake contactor of 3TF33 shall be provided.	
3.10	Necessary wirings shall be present and connected with terminal blocks.	
3.11	North and south limit provision (CT limit) shall be interfaced in directional contactor shall be provided.	


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B.1) LT VVVF Drive Specification.

Sl.No.	BHEL Specifications	Vendor's Comments
1	The VVVF Drive should be dedicated for hoist application. (CRANE DUTY application for HOIST MOTION.)	
2	The rated output current of the drive should be at 45 deg. C ambient Temperature and maximum operating temperature shall be 55 deg.C.	
3	Duration on any account {Viz} temperature / carrier frequency should not exceed 15% of rated output current of inverter offered.	
4	Inverter offered should be provided with accurate brake co- ordination signals.	
5	Vibration: The drive must be Compliant with JIS C60068-2-6 or IEC 60068-2-6	
6	In addition to the above crane specific features the inverter shall offer the Following features:	
6.1	Rated input voltage & Frequency: 3 Phase, 380-460V, 50/60 Hz.	
6.2	Allowable Voltage Fluctuation : +10% to -15%	
6.3	Allowable frequency Fluctuation : +5% to -5%.	
6.4	Over load capability : 150% for 1 min (Heavy Duty)	
6.5	Multi-Function Digital Inputs : Minimum 6 multifunction digital inputs.	
6.6	Multi-Function Relay Output (110V) : Minimum 2 multifunction relay outputs	
6.7	Max. Output Voltage Input Voltage}. : 3 phase, 380/400/440/460V {Proportion to	
6.8	Max. Output frequency : 400Hz {Programmable}	
6.9	Control method : High carrier frequency {low noise} sine wave PWM Technique.	
6.10	Control Supply : 110V AC.	
6.11	Starting Torque : 150% below 1 Hz. {150% at 0 r/min with PG}	

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SL.No.	BHEL Specifications	Vendor's Comments
6.12	Speed Control Range : 100:1 {1000:1 with PG}	
6.13	Speed Control accuracy : +/- 2% with PG.	
6.14	Torque limit : Settable through program {Parameter}	
6.15	Output frequency Resolution : 0.01 Hz. / 0.02	
6.16	Frequency setting signal Acceleration/Deceleration Time : 0.01 to 60 sec.	
6.17	Braking Torque : Approx. 20% {approx. 125% when using braking Resistor}.	
6.18	MAIN CONTROL FUNCTIONS : a) Auto tuning b) Momentary loss restart c) PID control d) Drop control e) DC injection braking f) Slip compensation g) Speed search h) Excess torque detection and Torque limit i) Multi step speed operation j) Accel./Decel. Time change over operation. k) 3 Wire sequence l) Operation Fault log.	
6.19	PROTECTIVE FUNCTIONS: a) Motor overload trip b) Instantaneous over current trip c) DC bus protection	


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Prod'n. Spl. Prod'n. MT & Dev't
Advanced Technology Products
BHEL, TRICHY - 620 014.

Sl.No.	BHEL Specifications	Vendor's Comments
	d) Input supply Over / Under voltage trip	
	e) Power loss ride through	
	f) Heat sink overheat detection and tripping (both Drive, DBU,DBR)	
	g) Output Short circuit protection	
	h) Input / Output open circuit protection	
	i) Stall prevention	
7	Keypad of the drive shall be LCD	
8	The keypad of the VVVF drive shall be panel mounted with necessary extension wire from the drive.	
9	DBU of Drive shall be of same manufacturer.	
10	DBR shall be supplied with thermal overload protection, so that on excessive temperature the signal shall be sent to drive and the drive will trip.	
11	When DBU Power transistor gets shorted then drive needs to be tripped for that necessary provision must be present.	
12	Drives shall have protective PCB coating (Conformal coating)	
13	DC Reactor as per the OEM recommendation.	
	Scope Of Supply:	
1	Each VVVF Drive unit should be supplied with Suitable hoist Dynamic Braking Unit & Dynamic Braking Resistor(at least 50% of motor KW), all manual & crane software installed	

[Signature]
04/08/16

R. VYSAKH BABU
Sr. Engineer
Maintenance & Services
BHEL, TRICHY - 620 014.

[Signature]

RAMESH KUMAR
Sr. Manager
Prodn. | Spl. Proje., MT & Devnt.
Advanced Technology Products
BHEL, TRICHY - 620 014.

Sl.No.	BHEL Specifications	Vendor's Comments
2	The VVVF Drive unit should be loaded with software needed for Hoist applications in cranes.	
3	For Every VVFD drive instruction manual, User manual, starting guide, necessary parameter catalogues shall be supplied in Hardcopy manner.	
4	DBR shall be 50% of the motor K.W. Resistance calculation value shall be given by supplier. DBR make shall be either by OEM or OEM recommended.	
5	DC Reactor as per OEM recommendation.	
6	Only YASKAWA, MITSUBISHI&FUJI make of VVVF Drives are acceptable. Other makes are liable for rejection.	

R. Vysakh
04/08/16

R. VYSAKH B.A.E.U
Sr. Engineer
Maintenance & Services
BHEL, TRICHY - 620 014.

V. Ramesh Kumar
06/08/16

V. RAMESH KUMAR
Sr. Manager
Prod. / Spl. Projs., HT & Derbi.
Advanced Technology Products
BHEL, TRICHY - 620 014.



An ISO 9001 Company

Bharat Heavy Electricals Limited
(High Pressure Boiler Plant)
Tiruchirappalli-620014, Tamil Nadu, India
MM/CAPITAL EQUIPMENT

MM/CE /GENL/001

GENERAL GUIDELINES & INSTRUCTIONS TO BIDDERS FOR SUBMITTING OFFER

Vendors are requested to read the following points / guidelines / instructions and ensure that the offer is prepared and submitted strictly as per the requirements. Offers with insufficient details would not be considered for evaluation. The following points / guidelines / instructions are part and parcel of the tender and non-compliance will result in rejection of offer.

NOTE: MSE VENDORS MAY PLEASE REFER SL.NO.6 OF THIS DOCUMENT FOR THE SPECIAL PROVISIONS APPLICABLE TO THEM AS PER GOVERNMENT DIRECTIVES

1.0	QUOTATIONS
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Considering the nature of procurement which requires a good amount of technical details, brochures, catalogues etc., to be submitted along with the offer as well as the confidentiality required to be maintained during the offer evaluation process, bidders are requested to submit their offers only through sealed bids. As the part II (the price bid) would not be opened before the technical evaluation is completed, bidders are requested not to submit their bids through email / fax etc.

Bidders shall submit the offer in **TWO INNER ENVELOPES** as indicated below which shall be sealed in one outer envelope.

Envelope I

This sealed envelope should contain all the copies of technical bid together with un-priced commercial bid. This envelope should be clearly marked "**Part I - Technical and Un-priced commercial bid**", indicating Enquiry No., Due Date, Address & Reference of the Bidder.

Envelope II

This sealed envelope should contain **price details**. This envelope should be clearly marked "**Part II - Price bid**", indicating Enquiry No., Due Date, Address & Reference of the Bidder

Both the envelopes (Part I & II) shall be put in one cover, duly sealed, superscribing as Part I and Part II indicating Enquiry No., Due Date, Address & Reference of the Bidder.

The above tender (envelope containing Part I & II) should reach this office on or before the due date by **14.00 Hrs (IST)**. Tenders received after 14.00 Hrs (IST) will not be considered for evaluation.

Tender should not be addressed to any Individual's name but only by designation to:

DGM / CAPITAL EQUIPMENT/ MM
1st Floor – IC Building,
BHARAT HEAVY ELECTRICALS LIMITED
HIGH PRESSURE BOILER PLANT
TIRUCHIRAPALLI – 620 014
TAMIL NADU, INDIA

Tenders should be free from **CORRECTION AND ERASURES**, Corrections if any, must be attested. All amounts shall be indicated both in words as well as in figures. Where there is difference between amount quoted in words and figures, amount quoted in words shall prevail.

Tenders should be in **ENGLISH** and accompanied by detailed technical literature, catalogue and detailed dimensional drawings in **ENGLISH** or otherwise, the tenders will not be considered for evaluation.

Tenders will have to be submitted by the Original Equipment Manufacturer only. However, if the OEM/Principal insists on engaging the services of an agent, such agent shall not be allowed to represent more than one manufacturer/supplier in the same tender. Offers, if submitted by authorised agents/dealers of OEM/ Supplier should be accompanied by a VALID AUTHORISATION LETTER ISSUED BY THE OEM. Moreover, either the agent could bid on behalf of the manufacturer /supplier or the manufacturer/supplier could bid directly but not both. In case bids are received from both the manufacturer/supplier and the agent, bid received from the agent shall be ignored.

If the past performance of a vendor in any of the previous Purchase orders/contracts/in any projects, of BHEL Units, and NON-BHEL, is not satisfactory BHEL then reserves the full right to reject such offers of those vendors straightaway irrespective of their suitability and will not be considered for further processing of the tender.

2.0	PART I (TECHNICAL & UN-PRICED COMMERCIAL BID)
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2.1	Technical
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This part shall include / indicate the following:

2.1.1	Tenders should contain complete scope of supply with all technical details, specifications, delivery and other commercial terms and conditions.
2.1.2	Point by point confirmation for the Technical Specification enclosed is to be provided. If there are any deviations, the same should be clearly specified. Tenders received without confirmation to our specification will be rejected.
2.1.3	List of customers to whom same or similar equipment have been supplied along with performance certificates are to be enclosed.
2.1.4	Relevant catalogues to be attached
2.1.5	List of spares parts (with part numbers) for two years operation and maintenance should be attached.
2.1.6	Information on shipping weight and cubage (length, width & height) to be provided.

2.2 Un-Priced Commercial

This part shall include / indicate the following:

2.2.1	Acceptance of commercial terms and conditions by the bidders (in the check-list enclosed)
2.2.2	Port of shipment / Station of despatch
2.2.3	Terms of payment
2.2.4	CFR price (for foreign bidders) / F.O.R.BHEL works as required in the check list (attached with this Tender)
2.2.5	Taxes, Service tax & duties including cess applicable.
2.2.6	Delivery Schedule from the date of Purchase Order
2.2.7	Offer validity
2.2.8	Country of origin
2.2.9	Currency in which the price has been indicated.
2.2.10	Percentage of agency commission if any along with a copy of Agency agreement. The CFR prices quoted shall include the agency commission.
2.2.11	A copy of the Price Bid without the price details to be enclosed. (UNPRICED BID)

3.0 OPENING OF TENDERS

The Part I - Technical & Un-priced commercial bid would be opened on the Tender opening date.

The Part II – The Technical Bid received would be evaluated and bidders qualifying alone will be considered for further processing. BHEL would proceed with Reverse Auction route or Price Bid opening route for finalizing the tender, which would be intimated to the qualified bidders after completion of the techno-commercial evaluation.

BHEL reserves the right to go for a Reverse Auction (RA) instead of Opening the Price Bid submitted, which will be decided after the techno-commercial evaluation. Information and general terms and conditions governing RA are given below.

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., ONLINE 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 Reverse Auction Process Compliance Form provided before RA along with Business Rules by the Service Provider. This Compliance Form shall be sent to the Service Provider well before the Reverse Auction in order to get the Log in ID and Password for participating in the RA. Without the submission of Reverse Auction Process Compliance Form, 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 noncompliance 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, 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(s) (whose quote is highest in online sealed bid) may not be allowed to participate in further RA process.

4.0 DEFINITIONS & OTHER TERMS

Fixed price: Prices quoted by the bidder shall be fixed and not subject to any escalation whatsoever during the period of bid validity and execution of the Purchase Order. A bid submitted with an adjustable price will be treated as non-responsive and rejected. Prices shall be written in words and figures. In the event of difference, the price written in words shall be valid and binding.

Bid currency:

Indian bidders should submit the prices only in Indian Rupees. Foreign bidders may submit the bid in their home currency, which should be clearly indicated in the un-priced commercial bid as well as in the price bid.

Taxes and Duties: All Taxes, Duties, Service Taxes etc. payable as extra to the quoted price should be specifically stated in offers along with CST & TIN No / Tariff No. etc., failing which BHEL will not be liable for payment of such Taxes and Duties. Our TIN No. 33243560005, TNGST No. 3560005, CST. No. 239383 Dt. 11-06-1991 & BHEL ECC No. AAACB4146PXM012, Assessment circle Tiruverambur

In case taxes and duties are indicated as inclusive in the quoted prices, it will be reimbursed only upon furnishing the documentary evidence for having paid such taxes and duties. Any difference in taxes (on account of reduction in the levies) between what has been paid by BHEL to the vendor (based on what has been indicated in the Purchase Order) and actually paid by vendor should be passed on to BHEL.

For services rendered by the foreign vendor in India (like Erection & Commissioning supervision etc.) Income Tax (IT) shall become payable by the Foreign vendor. Hence, Foreign bidders are requested to take care of the IT payment during submission of tender.

If the foreign vendor possesses Indian PAN CARD (Permanent Account Number) Registration, the details of the same shall be furnished along with the Unpriced Bid cover (Part-I) with documentary evidences (PANCARD copy) for Income Tax purposes (concessions).

Cenvat & VAT credit: (applicable for Indian Bidders only) the quotation must indicate Tariff item number and rate of Excise Duty applicable. The original Excise Duty Gate Pass will be required to be furnished in case Excise Duty is applicable. If the bidder is availing Cenvat credit for his input materials, the effect of proforma credit should be passed on to BHEL.

Packing: The Supplier shall arrange for packing suitably in all respects considering the peculiarity of the material involved for normal safe transport by sea / air / rail / road and suitably protected against effect of tropical salt laden atmosphere in the event of shipment being delayed at ports.

Salient points of HSE (Health Safety & Environment) that are to be considered while submission of offer are:

- Consumption benchmarks related to output shall be provided wherever applicable for key input resources (energy/fuel/chemicals)
- Competency requirements for operation, maintenance and calibration, if any, shall be communicated

- If any hazardous chemicals as per MSIHC (Manufacturing, Storage and import of such Hazardous Chemicals) Rules 1989/94/2000 are used, the MSDS shall be provided along with On site & Off site emergency plan (as applicable)
- The noise level at operator level shall be within 80 dBA
- OH&S (Occupational Health and Safety) control measures for safe working of machine as applicable shall be specified.
- The machine / equipment shall be fitted with guard for rolling and moving parts and shall comply with applicable OH&S legislations and Factories Act 1948
- The supplier shall submit the layout drawing of operating controls, displays etc. Along with operating instructions to enable ergonomics evaluation and approval.
- The recommended list of PPE (Personal Protective Equipment) for the equipment shall be furnished.
- Alarm system (both visual and audible) and Automatic switch off of the equipment shall be provided for any intrusion, overloading, short circuiting or any malfunctioning of the equipment
- Details of all hazardous / harmful substances discharged as by-products / wastes during operations of the machine / equipment, such as fumes, gases, dust particles, aerosols UV/IR (Ultra violet / infra red) radiations etc., shall be furnished along with their concentrations and their TLV, (Threshold Limit Value).
- Appropriate pollution control measures shall be proposed to keep the emissions from the machinery / processes within the prescribed limit as stated in Environment Protection Rules 1986.
- All furnaces, process units, DG sets, paint booths, shot blasting chambers, etc. shall be provided with stack(s) of sufficient height as per guidelines laid down in the Environment Protection Rules 1986.
- Wherever industry specific standards are not available for control of pollutants, general emission standards shall be used.
- Chemicals banned due to their negative impact on the environment shall not be used in the process.
- Fuels with sulphur content less than 0.05% shall be proposed.
- Details regarding nature of waste generated and appropriate disposal practices available shall be provided, along with the operation procedure of the plant / process. Hazardous chemicals and flammable substances shall be transported only through authorized transporters and all safety practices as laid down in applicable legislative requirements such as Central Motor Vehicle Rules, Manufacture, Storage and Import of Hazardous Chemical 1989, etc. shall be followed
- Primary materials used in the equipment shall be specified and they shall be eco-friendly

Force Majeure clause:

If at any time during the continuance of the contract the performance in whole or in part by either party of any obligations under the contract is prevented or delayed by reason, of any war, hostilities, acts of the public enemy, civil commotion, sabotage, fires, explosions, epidemics, quarantine, restrictions or acts of GOD (hereinafter referred to as events) and notice of happening of any such events is given by either party to other within twenty one days from the date of occurrence thereof then neither party shall by reason of such events be entitled to terminate the contract. If the performance in whole or part of any obligation under this contract is prevented or delayed by reason of occurrence of such events, then claims for extension of time shall be granted for period considered reasonable by the purchaser subject to prompt notification by the seller to the purchaser the particulars of the

events, if required with supporting evidence. Any waiver of time in respect of partial instalment shall not be deemed to be a waiver of time in respect of remaining deliveries.

Agency agreement from foreign suppliers for their Indian agents:

Based on Ministry of Finance vide circular dated 31/01/1989 the following are compulsory:

- Registration of Indian agents of a foreign supplier.
- Precise relationship between foreign suppliers and their Indian agents and their mutual interest in the business, should be clearly spelt out.
- Any payment, which the agent receives in India or abroad, from the foreign supplier, whether as a commission or as a general retainer fee, also needs to be brought on record and made explicit so as to ensure compliance to tax laws and to prevent leakage of foreign exchange.
- All services to be rendered by the agent, whether of general nature or in relation to the particular contract, must be clearly stated by the foreign supplier and the Indian agent.
- The amount of agency commission agreed to between the foreign principal and the Indian agent should be specifically disclosed and the agency commission will be paid in Indian Rupees only.
- A copy of the Agency Agreement with the above details shall be provided.

Short shipment / Warrantee replacement:

In case of any short-shipment during initially supply, subsequently dispatched by the supplier or any warrantee replacement dispatched during the warrantee period shall be dispatched on “DDP – Delivered Duty Paid BHEL Stores” basis for foreign suppliers and “FOR BHEL Stores” basis for Indian suppliers.

Inspection & Testing:

All goods shall be subject to inspection by BHEL or its authorized representatives at supplier's works or at BHEL Stores. The supplier will not charge for the facilities provided for inspection of goods. In case of machine tools, the machine would be inspected and proved at supplier's works prior to dispatch. However, final inspection and acceptance of the machine will be carried after installation of the machine BHEL.

5.0	GENERAL
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Tenders will have to be submitted by the Original Equipment Manufacturers only and the offered equipment shall be “New”. Offers for Re-built / Re-conditioned / Used equipments will not be accepted. Incomplete offers will not be considered for evaluation.

Evaluation of offers shall be on “Net Cash Outflow to BHEL basis”.

BHEL reserves its right to reject a tender due to unsatisfactory past performance in the execution of a contract at any of BHEL projects / Units.

BHEL shall be at liberty to reject or accept any tender, part or in full, at their own discretion and any such action is not liable for any question or claim against BHEL.

The correspondence exchanged against the tender between the bidder and BHEL through email are considered as valid document legally though it is not signed. It is treated as valid confirmations made on behalf of the respective company and very much comes under the

legal ambit of the business transaction and hence it is binding on both the parties to the business.

Any transaction / communication pertaining to the tender carried out by the bidder and BHEL round the clock irrespective of the office or business hours of the companies, are valid legally and binding on both the parties. This applies to the extent only in such cases where deadline time for transaction is not specifically declared by either or both the parties to the business.

In case Letter of Intent (LoI) is issued through email, the computer generated time and date of mail shall be construed as the official time and date of release of LoI. In as much as this date is within the last date of validity given by the bidder the LoI is said to have been issued within the validity period and shall be binding on both the parties to the business.

Bidders participating in the tender should declare in their technical bid that whether they have been black-listed / kept on hold for a specified period / given Business holiday for a specified period by any Public sector undertaking or Government departments. The reasons for such action with details and the current status of such hold shall be clearly furnished to BHEL. If no such details are mentioned in the offer then it will be construed that the subject bidder is not under any such hold. But at a later date if it comes to the notice of BHEL about any such hold under enforcement on the subject bidder, BHEL will have every right to reject the offer of such vendors at any point of time and also under any stage of the finalisation of the subject tender irrespective of the status of the subject bidder in that tender. Such bidders will not be permitted to participate in the further tender proceedings and will be communicated suitably. They will not be also considered for any ongoing enquiries even if participated till the hold is officially lifted and confirmed in writing.

6.0	<u>SPECIAL PROVISIONS APPLICABLE FOR MSE VENDORS</u>
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In line with the Gazette Notification issued by Ministry of Micro, Small and Medium Enterprises on MSE suppliers 20% of the tendered quantity is earmarked for MSE suppliers. Out of the 20% tendered quantity earmarked for MSE suppliers, 4% shall be earmarked for procurement from MSE owned by SC / ST entrepreneurs.

In case MSE vendor participating in the tender quotes within the price band of L1 + 15%, they will be allowed to supply the portion of the requirement subject to acceptance of L1 price by MSE vendor. In case of more than one such MSE, the supply shall be shared proportionately.

MSE suppliers can avail the intended benefits only if they submit along with the offer, attested copies of either

1. EM II certificate having deemed validity (two years from the date of issue of acknowledgement in EM II) or
2. Valid NSIC certificate or EM II certificate along with CA certificate (Format enclosed) applicable for the year, certifying quantum of investment in plant and machinery within the permissible limits 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 (Part 1 in case of two part bid.)

Non submission of such documents will lead to consideration of their bid at par with other bidders and MSE status of such suppliers shall be shifted to NON MSE suppliers till the

supplier submit this documents. Documents should be notarized or attested by a Gazetted officer.

Definitions of MSEs owned by SC / ST is under:

- In case of proprietorship firm, proprietor must be SC/ST.
- In case of partnership firm, the SC / ST partners must be holding at least 51% shares in the unit.
- In case of private limited companies, at least 51% share must be held by SC/ST promoters.

Authorized Offices to issue SC/ST certificate.

The caste / Tribe / Community certificate issued by the following authorities in the prescribed form for SCs / STs can be considered.

- District Magistrate / Additional District Magistrate / Collector / Deputy Commissioner / Additional Deputy Commissioner / Deputy Collector / 1st Class stipendary magistrate / Sub Divisional Magistrate / Taulka Magistrate / Executive Magistrate / Extra Assistant Commissioner.
- Chief Presidency Magistrate / Additional Chief Presidency Magistrate / Presidency Magistrate.
- Revenue Officer not below the rank of thasildar.
- Sub-Divisional officer of the area where the individual and / or his family normally resides.

To avail the benefits of MSE under SC/ST category, the related documents as stated above should be submitted along with tender documents.

7.0	<u>FRAUD PREVENTION POLICY:</u>
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The Bidder along with its associate/collaborators/sub-contractors/sub-vendors/consultants/service providers shall strictly adhere to BHEL fraud prevention policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of BHEL management about any fraud or suspected fraud as soon as it comes to their notice".

8.0	<u>ARBITRATION:</u>
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All disputes between the parties to the Contract, arising out-of or relating to the Contract, other than those for which the decision of the BHEL, Trichy, or Accepting Officer or any other person is by the Contract expressed to be final and conclusive shall after written notice by either party to the Contract to the other party be referred to the sole Arbitration of Executive Director or other Officers of BHEL appointed as Arbitrator, by the Executive Director of BHEL in his sole discretion.

Unless the parties otherwise agree, such reference shall not take place until after the completion, alleged completion or abandonment of the work of the determination of the Contract.

The venue of Arbitration shall be such a place or places as may be fixed by the Arbitrator in his sole discretion. The award of the Arbitrator shall be final, conclusive and binding on both parties to the Contract.

Jurisdiction: In case of any suit or other legal proceedings arising under or relating to this Contract, the courts at Trichy, Tamil Nadu only shall have the Jurisdiction and is only after exhausting the, Arbitration.

BHARAT HEAVY ELECTRICALS LIMITED, TIRUCHIRAPALLI**CAPITAL ITEMS /MATERIALS MANAGEMENT****COMPLIANCE FORM FOR ACCEPTANCE OF COMMERCIAL TERMS AND CONDITIONS BY**

(This should be essentially filled in and sent along with the techno-commercial offer without fail. If this Compliance (TENDER WITH DIRECT PAYMENT)

Description of the items:
(Bought out Items for fabrication of 5 Ton EOT Crane)
1. LT Brake Assembly (02 Nos.)
2. 4 Line DSL Shrouded Conductor (01 Set)
3. LT Motor (02 Nos)
4. Variable Feed Drive and Electrical Panels (01 Set)

BHEL Tender No. & Date: 2631600052 dt.13.08.2016

PART I of Tender: Technical Bid + Unpriced Bid + this Compliance Form

PART II of Tender: Price Bid

ENQUIRY TERMS & CONDITIONS**Vendor's Confirmation****1.0 PRICE BID:**

Price Bid should contain the schedule of price particulars and to be co-related to the technical details provided in Part I. Techno-commercial bid alone without the Price Bid will be rejected. The prices contracted shall be firm till the execution of the contract in full and in all respects.

Accepted

2.0 VALIDITY:

Validity of the offer should be 120 days from the date of tender opening. BHEL reserves the right not to consider offers from vendors with validity less than 120 days from the date of tender opening.

Accepted

3.0 PAYMENT TERMS:**For SUPPLY P.O.:**

80% payment of Supply P.O. value shall be made within 45 days from the date of receipt of material at BHEL.

For BALANCE OF SUPPLY P.O.

Balance 20% of Supply value will be paid after Acceptance of the goods at BHEL by User Department and against submission of Guarantee Certificate.

3.1 Bank Guarantee and Loading against non acceptance of BHEL's Payment Terms:

If any Bidder requires a payment exceeding 80% of the PO value, such bidder have to submit Advance Bank Guarantee (ABG) in the prescribed Format for the amount over and above 80% but restricted to 90% of the PO value, along with the invoice / despatch documents. This ABG shall be valid up to the date of Final Minutes of Meeting for E&C for the equipment.

Additionally, for any deviation sought including as mentioned above, in Payment Terms by bidder w.r.t. tender conditions, the following loading pattern shall be followed:

Base Rate of SBI as applicable on the scheduled date of tender opening + 6%, for the amount & period of relaxation sought by bidder.

Accepted

4.0 Taxes & Duties:

All Taxes, Duties, Service Taxes etc. payable as extra to the quoted price should be specifically stated in offers along with CST & TIN No / Tariff No. etc., failing which BHEL will not be liable for payment of such Taxes and Duties. Our TIN No. 33243560005, TNGST No. 3560005, CST. No. 239383 Dt. 11-06-1991 & BHEL ECC No. AAACB4146PXM012, Assessment circle Tiruverambur

In case taxes and duties are indicated as inclusive in the quoted prices, it will be reimbursed only upon furnishing the documentary evidence for having paid such taxes and duties. Any difference in taxes (on account of reduction in the levies) between what has been paid by BHEL to the vendor (based on what has been indicated in the Purchase Order) and actually paid by vendor should be passed on to BHEL.

Accepted

5.0 Delivery terms, Delivery period required and evaluation process:**5.1 Delivery terms: F.O.R BHEL, Trichy-14.**

Accepted

	Basis of Delivery Terms :	
	Price break-up details like Basic price, P&F, Taxes & Duties, Freight and Insurance etc., should be indicated in the offer.	Accepted
5.2	Delivery period: The equipment enquired forms a part of an expansion program (Scheme) and the delivery period mentioned below has been derived keeping in view of the Scheme completion date. Vendor shall comply with this required period.	
	For Supply portion, duration shall be counted from the date of Purchase Order. Vendors are required to indicate the best delivery period i.e., time period required for dispatch (LWB date) from the date of Purchase Order in the "Vendor's confirmation" below. Order acceptance, submission of drawings etc., should not be linked to the delivery period.	Accepted
	DELIVERY PERIOD (in months) REQUIRED BY BHEL (SUPPLY PORTION)	3
	DELIVERY PERIOD (in months) OFFERED BY VENDOR (SUPPLY PORTION)	
	However, while evaluating the offers, those offers which are not conforming the requested delivery period, COMMERCIAL LOADING @ ½% of the purchase order value per week will be done for the EXTRA PERIOD requested. For evaluation purpose 4 weeks will be considered as one month. Commercial loading on the offered price will be done during evaluation of the offers	Accepted
	BHEL reserves the right to accept an offer not meeting the NIT / Enquiry delivery. However based on the scheme requirement, the Technically Suitable offerers would be requested to reduce their offered delivery schedule and in case if it is not meeting BHEL requirement or maximum limit considered by the Technical Committee, the offer may become liable for rejection.	Accepted
6.0	LIQUIDATED DAMAGES (LD):	
	a) LD for delay in 'Supply' will be applicable to the delays attributed to vendor. The rate of LD for delayed Supply shall be @ 0.5% per week of delay of total PO value subject to a maximum of 10% of total PO value	
	b) In case PO includes more than one machine, the LD will be levied @ 0.5% per week of delay on PO value for each individual machine.	
	c) In case any bidder is not accepting the above LD for delayed Supply, the offer of bidder shall be loaded to the extent to which it is not agreed by the bidder.	Accepted
	d) Supply period indicated by bidder should include reasonable time required for approval of drawings and other inputs from BHEL. In the Techno-Commercial Bid, the bidder shall submit milestones for various activities in co-relation with Supply period quoted by him.	
	For the purpose of levying LD, the date of shipment (LWB date) will be considered.	
	Loading Factor for non-acceptance of LD clause for delayed Supply : In case any bidder is not accepting the above LD clause for delayed Supply, the offer of bidder shall be loaded to the extent to which it is not agreed by the bidder .	
7.0	SHORT SUPPLY / WARRANTY REPLACEMENT:	
	In case, any shortage is noticed vis-a-vis PO requirement in the main items / spares, such shortages shall be replenished by supplier on FOR destination basis without any cost implication to BHEL for such short supplies shall be borne by the supplier. Warranty Replacements during Guarantee period at supplier's cost on FOR BHEL Works basis.	Accepted
8.0	RISK PURCHASE:	
	If the supplier fails to deliver the goods within the delivery specified in the Purchase Order, BHEL will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the supplier either the whole of the goods or any part which the supplier has failed to deliver or dispatch within the delivery period mentioned in the Purchase Order. BHEL reserves the right not to consider offers from vendors not accepting the above Risk Purchase terms.	Accepted
9.0	GUARANTEE:	
	Vendors shall provide a guarantee for 12 months from the date of Acceptance of the goods or 18 months from the date of supply, whichever is earlier. The date of LWB shall be taken as the date of supply. Offers from vendors not accepting to the requested guarantee period are liable for rejection.	Accepted
10.0	REVERSE AUCTION (RA):	

	BHEL reserves their right to conduct on-line internet Reverse Auction for finalizing the Tender. This decision will be communicated to the technically qualified vendors after technical evaluation. Details / General terms / guidelines for conduct of RA have been given in the 'General guidelines & instructions to bidders' enclosed as a part of NIT / Enquiry. Vendors are requested to confirm their acceptance for BHEL proceeding with RA route for finalization of the enquiry. BHEL reserves the right not to consider offers from vendors not accepting to the RA process for finalization of the enquiry.	Accepted
11.0 CONTACTS:		
	Details of contact person's name, designation, department with complete postal and email address along with phone and fax numbers to be mentioned	
	Name:	
	Designation:	
	Email ID:	
	Phone No.:	
	Mobile No.	
	Fax No.:	
	Address:	
	Weight & Cubage of package:	
	Approximate Net weight of the total consignment:	
	Approximate Gross weight of the total consignment:	
	Approximate volume of the total consignment:	
	The vendor to provide Audited Balance Sheet & Annual Report signed by the Auditors (or) Bank Credit Statement signed by the Bankers for past consecutive four years (eg. 2012 - 13, 2013 - 14, 2014 - 15, 2015-16) from the date of tender opening.	
	We have gone through and understood the 'General guidelines & instructions to bidders for submitting offer' enclosed as a part of the NIT / Enquiry and confirm that our offer has been made in line with the same and the confirmations given in the above checklist supercede any other standard information provided in our quotation.	
	Signature with date: (AFFIX OFFICIAL SEAL HERE)	
	Name:	
	(PLEASE AFFIX YOUR SIGNATURE WITH SEAL ON EACH PAGE)	

Certificate by Chartered Accountant on letter head

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).

Further verified from the Books at Accounts that the investment of the company as on
date.....as per MSMED Act 2006 is as follows:

1. **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:
Rs.....Lacs

2. **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

The above Investment of Rs.....Lacs is within permissible limit of
Rs.....Lacs forMicro / Small (Strike off which is not
applicable) Category under MSMED Act 2006.

Date

(Signature)

Name -

Membership number -

Seal of Chartered Accountant