



An ISO 9001
Company

Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

CAPITAL EQUIPMENT/ MATERIALS MANAGEMENT

ENQUIRY	Phone: +91 431 257 7653 Fax : +91 431 252 0719 Email : skaruna@bheltry.co.in Web : www.bhel.com
NOTICE INVITING TENDER	

TWO PART BID	Enquiry Number:	Enquiry Date:	Due date for submission of quotation:
Tender to be submitted in two parts.	2631400042	04.12.14	26.12.14

You are requested to quote the Enquiry number, date and due date in all your correspondences. 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	Delivery
10	Hydraulic Torque Wrench as per the technical specification, BHEL commercial terms & conditions applicable (to be downloaded from web site www.bhel.com or http://tenders.gov.in)	1 No.	20.03.15

Important points to be taken care during submission of offer

1. Compliance Form to be duly filled and enclosed along with your 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 including bank guarantee formats and list of consortium banks, commercial compliance form 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 Enquiry reference "2631400042".

Tenders should reach us before 14:00 hours on the due date
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

Yours faithfully,
For BHARAT HEAVY ELECTRICALS LIMITED

K. Singh

Engineer / MM / Capital Equipment

KUMAR GAUTAM SINGH
Engineer

MM / Capital Equipment
BHEL, TRICHY - 620 014

HYDRAULIC TORQUE WRENCH

PART - A

S.No	BHEL Specification	Vendor's Offer
1.0	QUALIFYING CRITERIA	
1.1	The BIDDER / VENDOR (OEM) should have at least FIVE Years of Continuous Experience in the Design, Manufacture & Supply of Hydraulic Torque wrenches.	
1.2	Number of Hydraulic Torque wrenches manufactured and supplied by the BIDDER / VENDOR in the last five years.	
1.3	Only those vendors (OEMs), who have supplied and commissioned at least five numbers of Hydraulic Torque wrenches with pressure of min 600 bar and torque of minimum 10000 Nm, during the last five years and such supplied wrench is presently working satisfactorily for at least one year after commissioning (as on original date of Tender opening) should quote. Vendor has to provide supporting document to establish this.	
1.4	Pressure and Torque of the supplied wrenches referred in 1.3 should be at least 600 bar and 10000 Nm respectively. Vendor to provide supporting document.	
1.5	Vendor has to submit proof or Performance feedback from their customers, for supply and commissioning one Hydraulic Torque wrench referred in 1.3 and 1.4 above. Performance feedback is preferred. For obtaining the Performance feedback, a suggestive format is provided at the end of Part A.	
1.6	BHEL reserves the right to verify the information provided by vendor. In case the information provided by vendor is found to be false/ incorrect, the offer shall be rejected.	

2.0	INFORMATION TO BE PROVIDED BY VENDOR	
2.1	The BIDDER / VENDOR to furnish Reference List of Customers (Limited to a maximum of ten Customers to whom latest supplies were effected), with full address, details of contact person, where Hydraulic Torque wrenches have been supplied in the past.	
2.2	Details of Hydraulic Torque wrenches supplied to other BHEL units, if any. (Year of commissioning, Application, Type)	
2.3	Details on SERVICE-AFTER-SALES set-up in India including the Address of Agents / Service Centres in India.	
2.4	Any Additional Data to supplement the manufacturing capability of the BIDDER for the subject equipment.	


Suggestive Format of Performance Certificate:


The performance certificate should be produced **on Customer's Letter Head**.

PERFORMANCE CERTIFICATE

1	Supplier of the Equipment	
2	Make & Model of the Equipment	
3	Month & Year of Commissioning	
4	Application for which Equipment is used	
5	a. Max Operating Hydraulic Pressure in Bar b. Max Achievable torque in Nm at max pressure c. Weight of the equipment(wrench only) in Kg	
6	Performance of the equipment (Strike off whichever is not applicable)	Satisfactory / Not Satisfactory
7	After sales service (Strike off whichever is not applicable)	Satisfactory / Not Satisfactory
8	Any Other remarks	
Date:		Signature & Seal of the Authority Issuing the Performance Certificate


25/8/14
P. ADITHYA HARISH
Sr. Production Engineer
Valves Production / Bldg.6
BHEL, Trichy - 620 014.


25/8/14
S. Mydeen Pinnur
Senior Manager
Valves Production / Bldg.6
BHEL, TRICHY - 620 014.



R. Kannan / 3122, 312000
Additional General Manager / Valve Production
Valves Production / Bldg.6
BHEL, Trichirappalli - 620 014.

TECHNICAL SPECIFICATION FOR HYDRAULIC TORQUE WRENCH


S.NO	FEATURES / BHEL SPECIFICATION	OFFER BY BIDDER	DEVIATIONS
1.0	APPLICATION: This Torque Wrench is intended for use in valves shop for Tightening / Loosening of Nuts & Bolts.		
2.0	CONFIGURATION OF TORQUE WRENCH:		
2.1	Compact High Strength Uni-body construction for a small operating radius.		
2.2	Robust design with minimal parts to enable easy onsite maintenance		
2.3	Light weight, Ergonomic design for easy handling and easy fit.		
2.4	Optimized Strength to Weight ratio		
2.5	RELIABILITY: To be Nickel plated for excellent corrosion protection.		
	ACCURACY:		
2.6	Constant torque output to provide high accuracy across full stroke.		
2.7	Uni-body construction to engine accuracy by reducing internal deflections.		
2.8	Torque Range (Min)	Vendor to specify	
2.9	Torque Range (Max)	10,000 to 11,000 Nm	
2.10	Accuracy	± 3%	
2.11	Drive	1. 5 inch Male square drive (Capable of rotating in both directions)	
2.12	Weight of the wrench (without power pack)	Vendor to specify	
2.13	Rotation	360 degree Uni-Swivel quick release coupling	
2.14	Operation	Double acting	
2.15	Finish	Nickel plated for excellent corrosion protection	
2.16	Safety Features	The wrench should have anti-backlash secondary Pawl to prevent backward rotation ratchet gear.	

HYDRAULIC PUMP SPECIFICATION:				
2.17	Maximum flow rate of oil at Maximum pressure	0.8 to 1.0 LPM		
2.18	Maximum flow rate of oil at Minimum pressure	More than 6.0 LPM		
2.19	Maximum operating pressure	700 bar (must be suitable for continuous duty)		
2.20	Remote	Remote control pendant with 6m cable.		
2.21	Safety Features	a) Inbuilt heat exchanger b) Safety relief valve		
2.22	Power Supply	230 V \pm 10%, 50 \pm 2% Hz AC Single-Phase power		
2.23	Hose Length	4.5m (15 feet) Hydraulic hose of any make with safety hose burst guards.		
2.24	Hose Safety Features	Safety should be 4:1		
2.25	Hose type	Twin type with quick release coupler on both ends		
INSERTS:				
3.0	The following inserts are to be supplied along with the torque wrench:			
	a) Socket for M42 Nut with 1 ^{1/2} " Female square drive - 2 Nos.			
	b) Socket for M36 Nut with 1 ^{1/2} " Female square drive - 2 Nos.			
	c) Socket for M30 Nut with 1 ^{1/2} " Female square drive - 2 Nos.			
	d) Socket for M24 Nut with 1 ^{1/2} " Female square drive - 2 Nos.			
4.0	Spares Required	Hose 2 Nos. as mentioned in clause 2.23		
5.0	Service Tool Kit	Vendor to provide list of service tools that will be supplied along with the Torque wrench		
6.0. GENERAL:				
6.1	Commissioning	The Equipment shall be commissioned, by the supplier's representative at BHEL works.		

S.NO	FEATURES / BHEL SPECIFICATION		OFFER BY BIDDER	DEVIATIONS
6.2	Guarantee	The Machine shall be guaranteed for a minimum of 12 months from the date of commissioning.		
6.3	Field Demonstration	A field demonstration of the offered equipment at BHEL works will be an added advantage for the technical evaluation exercise.		
6.4	Expected Brands	Hi-Force (UK) or Plarad (Germany) or Titan (USA) or Enerpac (USA)		
6.5	O&M Manual	Supplier to provide O&M Manual in soft form and hard copy along with the equipment.		


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 Sr. Production Engineer
 Valves Production / Bldg.6
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 25/8/14
S. Mydeen Pitchai
 Senior Manager
 Valves Production / Bldg - 6
 BHEL, TIRUCHY - 620 014.


R. Kannan / ஶ்ரீ. கண்ணன்
 Additional General Manager / Sr. Manager
 Valves Production / ஶ்ரீ. கண்ணன்
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