



# BHARAT HEAVY ELECTRICALS LIMITED

( A Government of India Undertaking )  
HIGH PRESSURE BOILER PLANT  
PURCHASE DEPARTMENT - FOSSIL BOILERS  
THIRUCHIRAPALLI - 620014  
TAMILNADU (INDIA)

PHONE :2577629  
GRAMS : BHARATELEC  
FAX NO: 2520719  
E-mail: srchandran@bheltry.co.in  
Web:

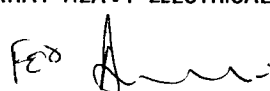
429-002/A

	<b>Enquiry No</b>	<b>Enquiry Date</b>	<b>Due Date for Quotation</b>
	2661400641 - 55	11.09.2014	15.10.2014
Please quote Enquiry No, Date and due date in all correspondences. This is only a request for quotation and not an order			

Item	Description	Unit	Quantity	Delivery Quantity	Schedule Date
10	<p><b>7501B1905200</b> Hydraulic cylinder Assy,( Dia. 125-40/1000) for Counter Balance Cylinder of UTA-160P as per drawing: 2M-01B-19-04124. Piston diameter: 125 mm, Rod diameter: 40 mm, Stroke: 1000 mm, Maximum operating pressure: 160 bar, Test pressure: 250 bar, Seals: Latest seals with sufficient guide arrangements to work in tilted position to be provided, Mounting position: The cylinder is mounted in Vertical Position, Mounting arrangement and over all dimensions as per drawing: 2M-01B-19-04124.. Piston rod should be hard chrome plated to 55 HRC (min) and 40 microns thick. COMMON NOTE FOR SL.NO. 10, 30, 50, 70 AND 90: (1) The supplier should provide the cross sectional assembly drawing with major mounting dimensions and BOM including make and type of seals used along with offer for technical assessment. (2) In case of ordering, the supplier should provide the detailed drawing and bill of materials for our approval before manufacturing. (3) The cylinder will be tested at suppliers works by the BHEL before dispatch, for the test pressure of 250 bar for a holding time of minimum 15 minutes at intermediate position for leak free sealing. (4) The supplier should provide all the facilities for testing at suppliers work and prove the performance of the cylinder. COMMON NOTE FOR SL.NO. 10 to 90: Seals used in the cylinder should be of Merkel / Bushak shamban / Hunger / Parker / Simrit / Hallite / James walker only acceptable other makes are liable for rejection.</p>	NO	2.000	2.00	27.11.14

The offers should reach us 30 minutes before the time of opening of tenders. The offers will be opened at 14.30 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening. Late and delayed offers are liable to be rejected.

Yours faithfully,  
For **BHARAT HEAVY ELECTRICALS LIMITED**



MANAGER / PURCHASE  
(FOSSIL BOILERS)  
Yours faithfully,



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2661400641 / 11.09.2014

**NOTE:**

For sl.no. 10 and 20 are mating parts. Hence these items should be procured from single source only.

**VENDOR QUALIFYING CRITERIA**

Only those vendors who satisfy the following conditions will get


qualified to participate in the tender:

- 1.Vendor should have minimum 3 years experience in this field.
- 2.Previous PO details for supplying similar kind of items should be submitted along with offer.Otherwise offer will be rejected.
- 3.Company profile details has to be provided along with offer.
- 4.BHEL reserves the right to visit the vendor's works for verifying the manufacturing facilities and any other credential furnished by the vendor. In case the information furnished with the offers found to be false /incorrect, the offer shall be rejected.

20	7501B1905300	SET	2.000	2.00	27.11.14
	Seal kit for the above Hydraulic cylinder Assy- Dia.125-40 / 1000 as per drawing: 2M-01B-19-04124. One set seal kit consists of Piston seals, Rod seals, Guide rings, O-rings, Wear strips etc. (All seals used in the supplied cylinder)				
30	7504D1400200	NO	1.000	1.00	27.11.14
	Double acting Hydraulic cylinder Assy,( Dia. 50-28/30) for Arm clamping Cylinder of BDC-50 as per drawing:3M-04D-14-15086. Cylinder bore diameter: 50 mm, Piston Rod diameter: 28 mm, Stroke: 30 mm, Maximum operating pressure: 140 bar, Test pressure: 220 bar, Seals: Latest seals with sufficient guide arrangements to work in tilted position to be provided, Mounting position: The cylinder is mounted in Vertical Position, Mounting arrangement and over all dimensions as per drawing: 3M-04D-14-15086. Piston rod should be hard chrome plated to 55 HRC (min) and 40 microns thick. NOTE: For sl.no. 30 and 40 are mating parts. Hence these items should be procured from single source only.				
40	7504D1400300	SET	2.000	2.00	27.11.14
	Seal kit for the above Hydraulic cylinder Assy-				

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2661400641 / 11.09.2014


Dia.50-28 / 30 as per  
drawing: 3M-04D-14-15086  
One set seal kit consists of Piston seals, Rod  
seals, Guide rings,  
O-rings, Wear strips, etc. (All seals used in the  
supplied cylinder)

er)NOTE:

Sl. No.	Part No.	Quantity	Unit	Price	Date
50	7504D1400400 Hydraulic cylinder Assy,( Dia. 50.8-25/425) for Counter balance Cylinder of BDC-50 as per drawing:3M-04D-14-15087. Cylinder bore diameter: 50.8 mm, Piston Rod diameter: 25 mm, Stroke: 425 mm, Maximum operating pressure: 160 bar, Test pressure: 250 bar, Seals: Latest seals with sufficient guide arrangements to work in tilted position to be provided, Mounting position: The cylinder is mounted in Vertical Position, Mounting arrangement-Front flange and over all dimensions as per drawing: 3M-04D-14-15087. Piston rod should be hard chrome plated to 55 HRC (min) and 40 microns thick. NOTE: For sl.no. 50 and 60 are mating parts. Hence these items should be procured from single source only.	2.000	NO	2.00	27.11.14
60	7504D1400500 Seal kit for the above Hydraulic cylinder Assy- Dia.50.8-25 / 425 as per drawing: 3M-04D-14-15087 One set seal kit consists of Piston seals, Rod seals, Guide rings, O-rings, Wear strips etc. (All seals used in the supplied cylinder).	2.000	SET	2.00	27.11.14
70	7514A0600100 Hydraulic cylinder Assy for Counter balance Cylinder of Toskurim machine as per drawing:M and S-PD-13-248. Piston Rod diameter: 32 mm, Stroke: 2500 mm, Cylinder bore: 70 mm, Cylinder OD: 90 mm Maximum operating pressure: 180 bar, Test pressure: 250 bar, Seals: Latest seals with sufficient guide arrangements to work in tilted position to be provided, Mounting position: The cylinder is mounted in Vertical Position, Mounting arrangement-Front flange and over all dimensions as per drawing: M and S-PD-13-248. Piston rod should be hard chrome plated to 55	1.000	NO	1.00	27.11.14

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tenderers who have submitted their offer and who may like to be present for the tender  
opening.Late and delayed offers are liable to be rejected.

Yours faithfully,  
For **BHARAT HEAVY ELECTRICALS LIMITED**

  
MANAGER / PURCHASE  
(FOSSIL BOILERS)  
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HRC (min) and 40 microns  
thick.

NOTE: For sl.no. 70 and 80 are mating parts.  
Hence these items should be  
procured from single source only.

80	7514A0600200	SET	2.000	2.00	27.11.14
Seal kit for the above Hydraulic cylinder Assy., Cylinder bore: 70 mm, Stroke: 2500 mm as per drawing: M and S-PD-13-248 One set seal kit consists of Piston seals, Rod seals, Guide rings, O-rings, Wear strips etc. (All seals used in the supplied cylinder)					
90	7501B2402200	NO	20.000	20.00	27.11.14
Hydraulic cylinder for Table Clamping Cylinder of BFT-110 as per drawing:4M-01B-24-28565					

**General Note:**

GENERAL NOTE:

PLEASE SUBMIT YOUR OFFER IN 'TWO PART BID SYSTEM'  
AS PER ANNEXURE ENCLOSED.

ENCLOSURES:


ANNEXURE II,III,IV,V,VI,VII & DRAWINGS

Enclosures:

"LD clause has to be confirmed without fail."

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opening.Late and delayed offers are liable to be rejected.

Yours faithfully,  
For **BHARAT HEAVY ELECTRICALS LIMITED**

*For*  
  
MANAGER / PURCHASE  
(FOSSIL BOILERS)  
Yours faithfully,

**CAPITAL PURCHASE**  
**COMMERCIAL TERMS AND CONDITIONS**

**1.0 QUOTATIONS**

The 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 & annexure III. This envelope should be clearly marked **'Part I - Technical and commercial bid'**,

Indicating Enquiry No., Due Date and Address & Reference of the Bidder.

**Envelope II** This sealed envelope should contain **price as per Annexure-IV format**. This envelope should be clearly marked **"Part II - Price bid"**, indicating **Enquiry No., Due Date and Address & Reference of the Bidder**.

Both the envelopes (Part I & II) shall be put in one cover (**Envelope III**), duly sealed, superscribing as Part I and Part II of Enquiry No., due date of opening and the address and reference of the Bidder

The above offer should reach this office on or before the due date by 14.00 hours (IST). Late offers will not Be considered.

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

**SENIOR MANAGER /PURCHASE/ CP & SP/ MM / MFG  
BHARAT HEAVY ELECTRICALS LIMITED  
HIGH PRESSURE BOILER PLANT  
TIRUCHIRAPALLI - 620 014  
TAMIL NADU**

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.

Offers should be in **ENGLISH** and accompanied by detailed technical literature, catalogue and detailed dimensional drawings in **ENGLISH** or otherwise, the offers will not be considered.

**2.0 OPENING OF TENDERS**

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

The Part II - Price bid of technically suitable Bidders alone would be opened. The Technically Suitable Bidders would be informed about the tender opening date through e-mail.

Clarifications if any required by BHEL for Technical evaluation **would be** sought from Bidders before opening of Part II - price bid

**For any queries clarifications the bidders may contact us through our FAX NO. +91 431 2520719 or through e-mail < mmcpmfg1@bheltry.co.in > & < chells@bheltry.co.in>**

**MM: CP & SP**  
**Annexure For Techno Commercial Bid**  
**Check List - to be filled and submitted along with Technical Bid**

BHEL Commercial Terms and Conditions for Indigenous Supplies	Vendor's Confirmation / Comments
Technical confirmation to BHEL's Specification as called for in BHEL Format shall be furnished. If needed additional sheets shall be used.	
Prices shall be <b>quoted item wise</b> only as per the model format enclosed	
Prices shall be quoted on " <b>FIRM PRICE</b> " basis only The prices should be only on <b>F.O.R / Despatching station basis with Packing &amp; Forwarding charges if any. Applicable % of ED &amp; Sales Tax, Freight &amp; Insurance, Installation &amp; Commissioning Charges should be clearly Indicated</b>	
<b>Validity of offer</b> shall be for a minimum period of 120 days from the date of Tender opening	
Delivery period from the date of Letter of Intent / Purchase order shall be clearly mentioned in the offer	
<b>Liquidated damages @ '0.5% per week subject to a maximum of 10% of the order value shall be applicable for delay in deliveries For Details Refer Annexure- v</b>	
<b>Following Risk Purchase clause</b> shall be applicable The purchaser at his option will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the seller either the whole of the goods or any part which the supplier has failed to deliver or dispatch within the time stipulated or if the same were not available, the best and the nearest available substitute therefore The supplier shall be liable for any loss which the Purchaser may sustain by reason of such risk purchases	
<b>Payment term for supply portion:</b> Payment term is 100% direct payment after 45 days from the date of receipt and acceptance of materials <b>For details Refer Annexure- v</b>	
Erection / commissioning: (if applicable only) Erection / commissioning charges if any has been mentioned in the offer or else confirmation that Erection / commissioning shall be done at free of cost is available in the offer,	
The equipment shall be guaranteed for a period of 12 months from the date of commissioning	
Final inspection and acceptance of equipment will be after installation at BHEL, Trichy	
The vendor shall provide necessary drawings, Test Certificates and Operating Maintenance Manuals etc., as called for in the Technical Specification, in the required number of copies at no extra cost	
Any warranty replacement during warranty period shall be supplied free of charge on FOR BHEL, Trichy basis.	
Offers should be submitted only in <b>sealed cover super-scribing clearly the Enquiry reference and due date.</b>	
% of Excise Duty with cess	
% of TAX (CST/VAT)-(INGST with FORM-17 or CST with C-FORM)	
Packing & Forwarding Charges ( if any in % only)	
Percentage of Freight& transit insurance charges, if any Freight charges from Dispatching station to BHEL, Tiruchirappalli • Supplier should quote for F.O.R-BHEL Trichy Stores.	
As per Commercial terms and conditions, acceptance for participation in Reverse auction (RA).Yes/No to be indicated	
Name of the person for participating reverse auction	
Land Line Number	
Fax Number	
Mobile Number	
E-mail ID	

## NOTE:-

- It is confirmed that all the terms and conditions stipulated In the Enquiry have been fully understood by us and all clarifications & details have been obtained.
- Your offer should be indicating applicable If any P&F Charges, % of ED, Sales Tax -CST or VAT, Service Tax), Freight, Insurance and Installation and Commissioning Charges etc., as per our Price Format
- Your specific acceptance to our Payment terms, LD & Risk Purchase Clause are essential for consideration of your offer. Other wise your offer is liable for rejection.
- No row shall be left blank. Please Indicate NA, in case the item is "not applicable"

**Annexure For Price Bid**

**Bharat Heavy Electricals Limited TIRUCHIRAPPALLI  
MODEL PRICE BID FORMAT FOR INDIAN BIDDERS**

CAPITAL PURCHASE

Annexure-IV

Enquiry No. & Date:

Bidder's Offer No. & Date:

SI No	Description of item	Unit	Quantity	Rate in Rs.	Value in Rs.
	<b>TOTAL VALUE IN RS.</b>				
	<b>Packing &amp; Forwarding charges in % if any</b>				
	<b>Freight &amp; Insurance Charges In % if freight charges are not mentioned it will be considered as FOR-BHEL TRICHY.</b>				
	<b>Excise Duty (indicate in %)</b>				
	<b>A) TNGST — VAT (%)</b>				
	<b>B) CST with C-FORM — (%)</b>				
	<b>C) CST without C-Form — (%)</b>				
	<b>Approximate Net weight of the total consignment</b>				
	<b>Approximate Gross weight of the total consignment</b>				
	<b>Approximate Dimensions of the Consignment</b>				
	<b>The price indicated shall be inclusive of all accessories, spares etc. as given in the scope of supply. Individual item-wise break-up price shall be attached as an annexure to this price bid format.</b>				

Signature & Seal of Vendor

**NOTE:**

1. The price bid should be submitted only as per the above format. No row shall be left blank. Please indicate NA, in case the item is "not applicable"
2. Prices shall be quoted item-wise only as per the above format.
3. If Price quoted is Inclusive of ED, the included ED Value and Base Value shall be indicated item-wise.

<b>Payment Term (Indigenous)</b>	
<b>If materials are receivable at Stores/Trichy without PBG</b>	Payment term is 100% direct payment after 45 days from the date of receipt and acceptance of materials.
<b>If materials are receivable at Stores/Trichy with PBG</b>	Payment term is 100% direct payment after 45 days from the date of receipt and acceptance of materials and against 10% PBG valid for the warranty period.
Any deviation in the above payment term will attract loading as mentioned below. “Base rate of SBI (as applicable on the date of bid opening. Techno-commercial bid opening in case of two part bids) + 6% shall be considered for loading for the period of relaxation sought by bidders.	

Payment through Bank is not preferred. In case of Payment through Bank is opted by Supplier, BHEL prefers documents submission through bank with copy of LR and door delivery of Goods to Site/Stores with Consignee copy attached. In this case Loading will be 3% on the offered value.

Offers of indigenous Suppliers with payment terms as LC/Advance Payment are liable for rejection.

#### **Liquidated Damages / Penalty -**

Liquidated damages shall be 0.5% of the total order value per week or part thereof subject to a maximum of 10% of the total order value.

For staggered delivery schedule, LD shall be 0.5% of the undelivered portion per week of the delay or part thereof subject to a maximum of 10% of the total order value.

Any deviation from the above LD clause, loading will be applied to the extent to which it is not agreed by the bidder (at offered value).

#### **Guarantee / Warranty Period – (if applicable)**

Normally No deviation permitted and the deviated offers are liable for rejection.

#### **Ranking-**

BHEL will consider the ranking after the loading is applied as referred above wherever deviations are observed.

#### **Performance Bank Guarantee – (if applicable)**

Normally No deviation permitted and the deviated offers are liable for rejection.

#### **NOTE:-**

1. If the due date of tender opening happens to be a holiday, the tenders will be opened on the next working day.
2. BHEL reserves the right to go for a reverse auction (RA) instead of opening the submitted sealed bid which will be decided after technical evaluation. Information and general terms and conditions covering RA are given in commercial terms and conditions.
3. Corrigendum if any, with respect to this tender will be hosted only in the website <http://www.bhel.com> or <http://tenders.gov.in>. You are requested to visit the website regularly for updates.

**Special Provisions for Micro and Small Enterprises (MSE)**

1. 20% of the tendered quantity is earmarked for MSE suppliers in this tender.
2. Out of the 20% tendered quantity reserved for MSE suppliers, 4% shall be earmarked for procurement from MSE owned by SC/ST entrepreneurs.
3. 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.
4. "MSE suppliers can avail the intended benefits only if they submit along with the offer, attested copies of either EM II certificate having deemed validity (five years from the date of issue of acknowledgement in EM-II) or valid NSIC certificate or EM II certificate along with attested copy of a CA certificate (Format enclosed at Annexure -VII where deemed validity of EM II certificate of five Years has expired) applicable for the relevant financial year (latest audited). Date to be reckoned for determining the deemed validity will be the date of bid opening (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. No benefit shall be applicable for this enquiry if any deficiency in the above required documents are not submitted before price bid opening. If the tender is to be submitted through e-procurement portal, then the above required documents are to be uploaded on the portal. Documents should be notarized or attested by a Gazetted officer."

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2. Out of the 20% tendered quantity reserved for MSE suppliers, 4% shall be earmarked for procurement from MSE owned by SC/ST entrepreneurs.
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**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 of 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 for .....Micro / Small (Strike off which is not applicable)  
Category under MSMED Act 2006.

Date:

(Signature)

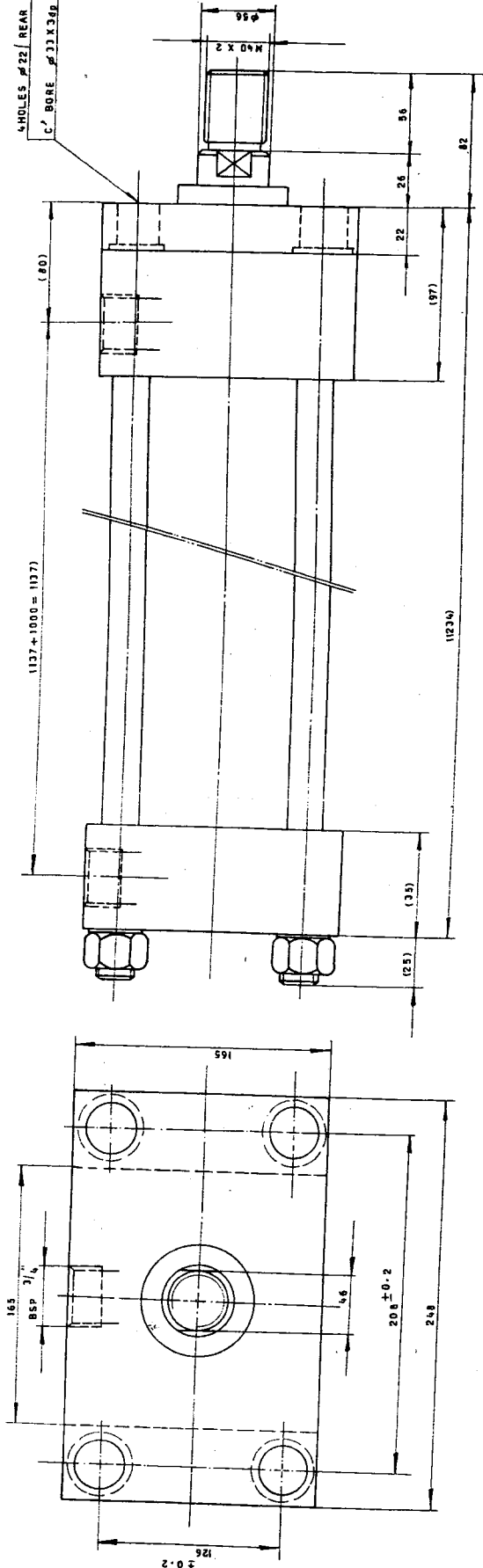
Name -

Membership number -

Seal of Chartered Accountant

Caution  
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 THE DRAWING OFFICE AND IS NOT TO BE  
 REPRODUCED OR COPIED IN ANY MANNER  
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 WILL BE PROSECUTED TO THE FULL EXTENT OF THE  
 LAW.

19-625 A



BORE	φ125 MM
STROKE	1000 MM
PISTON ROD END	M40 X2 MM
PORTS	3/4" BSP
WORKING PRESSURE	110 BAR (KG/CM <sup>2</sup> )
THREAD TYPE	METRIC FINE
WORKING MEDIUM	OIL
CUSHIONING	NIL
MAX. WORKING PRESSURE	160 BAR (KG/CM <sup>2</sup> )
MIN. FEED RATE	2 MM / MINUTE
MAX. FEED RATE	2000 MM / MINUTE

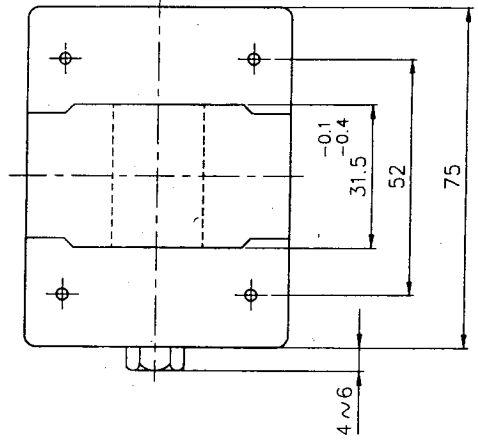
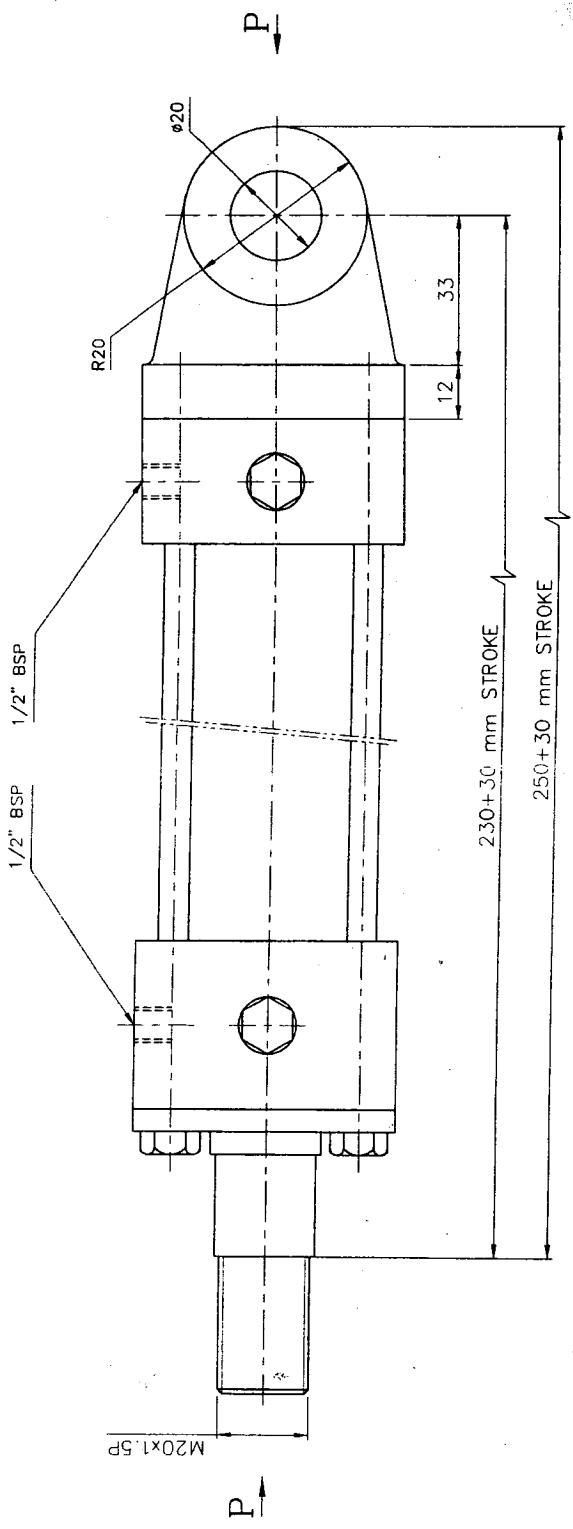
**NOTE:-** THE HYDRAULIC CYLINDER IS TO BE SUPPLIED WITH 'SHAMBAN' SEALS.



NO. OF SHEETS	DESCRIPTION	MATERIAL	STD./RIPS	DRAWING No.	DATE	SIGN.
1	HB 619 7003-9					
SCALE	22:007					
CHECKED						
APPROVED						
DATE						
TITLE: HOKI BONTAL BERING, CMC TITLE: RBG 17, LUYA (GSP) 1014 W. (10) DRAWING No. 19 <b>COUNTER BALANCE</b> <b>- HYDRAULIC CYLINDER 2-M:O1B-OA12 4</b> <b>STROKE Y-1800</b> No. of Sheets 1						

CAUTION: THIS DRAWING IS OUR SOLE PROPERTY AND SHOULD NOT BE USED IN ANY FORM FOR ANY PURPOSE WITHOUT THE WRITTEN PERMISSION OF BHARAT HEAVY ELECTRICALS LIMITED TRICHYAPPALI - 629 014.

ALL DIMENSIONS ARE IN MM



**CYLINDER SPECIFICATION**

- CYLINDER BORE  $\phi 50$  mm
- PISTON ROD  $\phi 28$  mm
- STROKE LENGTH 30 mm
- PRESSURE RANGE 70-140 kg/cm<sup>2</sup>

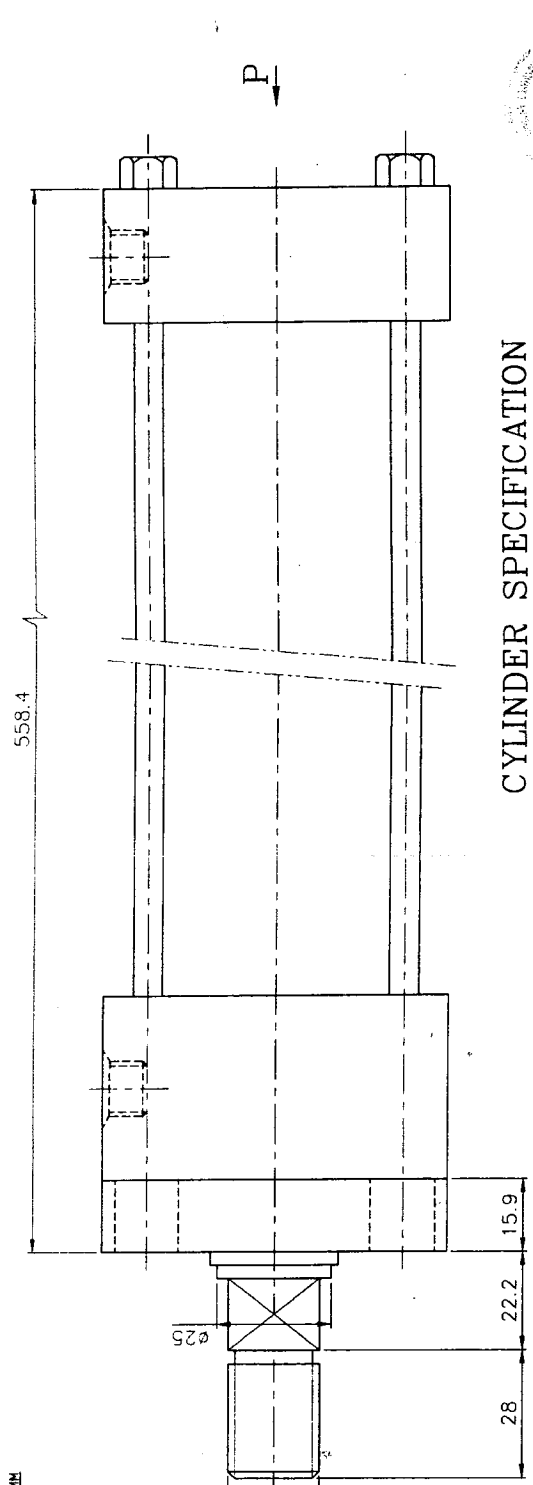
NOTE: - DOUBLE ACTING HYDRAULIC CYLINDER  
WITH CUSHION AT BOTH ENDS.

NO. OF PAGES	DESCRIPTION	MATERIAL	STANDARD	NET.WT. IN KGS.	DRAWING No.	REV. No.
1	REF. DRG. NO. BDC-50/139000284-03					
SCALE	DRN S. Selvamani					
1:1	CHEK R. Ramamoorthy					
	APPD K. Raman					
	DATE 25.03.13					
MACHINE: CNC DRILLING					TYPE: BDL 50	
TITLE: HYD. CYLINDER					DRAWING No. 3M04D1	REV. 415086
(ARM CLAMPING ASSY.)					Sheet No.	No. of Sheets

FOR TENDERING PURPOSE ONLY

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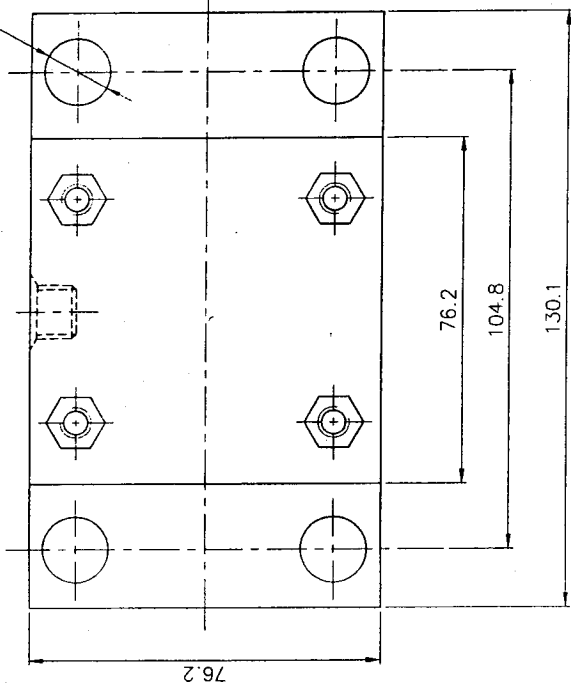
ALL DIMENSIONS ARE IN MM



**CYLINDER SPECIFICATION**

- CYLINDER BORE  $\phi 50.8$  mm
- PISTON ROD  $\phi 25$  mm
- STROKE LENGTH 425 mm
- WORKING Pr. 50 kg/cm<sup>2</sup> (MAX. OPERATING PRESSURE 160 kg/cm<sup>2</sup>)
- MAX. SPEED: 5000 mm/min.
- PORTS: 1/2" BSP
- MOUNTING STYLE: FRONT FLANGE (FF)

4 HOLES  $\phi 14.2$



**VIEW - P**

**FOR TENDERING PURPOSE ONLY**

 SCALE: 1:1 APP'D: K. Ramanathan DATE: 25.03.13	DESCRIPTION	MATERIAL	STANDARD	NET WT. IN KGS.	DRAWING No.	REV.
	REFERENCE	REF. DRG. NO.	ALTERATIONS	DCN REF	DATE	SIGN.
S. Selvamaniakam R. Ramamoorthy K. Ramanathan	123000071-04					
MACHINE: CNC DRILLING			TYPE: BDL 50		REV.	
TITLE: HYD. CYLINDER (ARM CLAMPING ASSY.)			DRAWING No: 31M04D1		4150817	
			Sheet No		No. of Sheets	



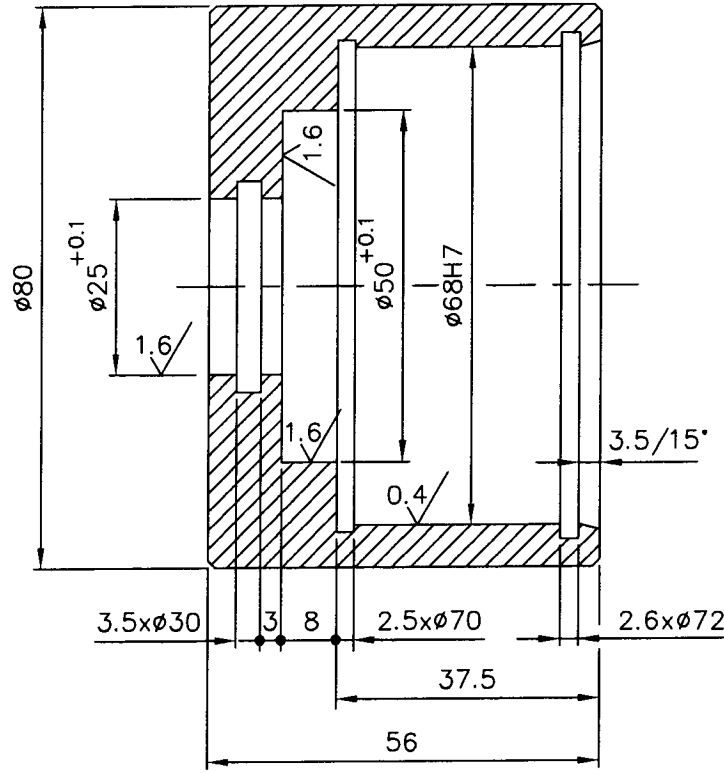
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CAUTION:

ALL DIMENSIONS ARE IN MM

ø68H7	+0.030
	0.000

3.2//0.4/1.6//



NOTE:

CHAMFER CORNERS FOR 1.5/45°



X		ø80x56L	45C8	IS: 7283	1.20			
No. of Pieces	DESCRIPTION		MATERIAL	STANDARD	NET.WT.IN KGS.	DRAWING No.		ITEM No.
	REFERENCE:			ALTERATIONS:	DCN REF	DATE	SIGN.	INDEX
SCALE 1:1	DRAWN	S.selvamanickam						
	CHECKED	R.RAMAMOORTHY						
	APPROVED	C.S.JAYASHEELAN						
	DATE	14/06/10'						
MACHINE: HORIZONTAL BORING CNC			TYPE: GEETHA BFT-110					
		TITLE: CYLINDER ID68xOD80x56L		DRAWING No:		REV.		
		(TABLE CLAMPING UNIT)		4M01B2428565				
				Sheet No:		No. of Sheets:		