



Bharat Heavy Electricals Limited
(A Govt. of India Undertaking)

Piping Centre , 80, G. N. Chetty Road, CHENNAI – 600 017
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REF: ENQ NO: 4101200013

DT: 21.01.2012

Sub: Procurement of Forgings - F91.

Ref: Enquiry No: PC: 4101200013 dt 21.01.2012

Please find the following tender documents for reference.

1. List of items and sample drawings
2. Tech. delivery condition TDG: 104 Rev 03.

Pre qualification is the criteria for consideration for other than BHEL approved vendors. After qualifying for registration, the new vendors may be considered for future requirements, in line with BHEL system and policy. Such vendors will not be considered for this enquiry.

This is a limited tender and only vendors who are contacted through e-mail/courier may submit their offers. Offers from other vendors will not be considered for this enquiry.

New vendors may download vendor registration forms from BHEL web site www.bhel.com and relevant data for formal registration.

Manager / Purchase
BHEL / Piping Centre
80,GN Road, T.Nagar
Chennai-600017
Ph: 044-28161243

PC 4101200013

LIST OF ITEMS_FORGINGS F91

SL NO	MATLCD	DESCRIPTION	Ind	QTY	DRAWING NO	TDG	CURR	UNIT RATE
1	920841200000	FORGING OD 362 X ID262- 700L SA182F91		10	As per Standard	TDG 104 Rev 03		
2	921174410000	MACHINED RED OD814X52/OD711X25 SA182F91		2	4-80-311-63824-R00	TDG 104 Rev 03		
3	921175740000	MPCE ID262MAX59 MIN/OD323.9X31 SA182F91		70	4-80-999-93253-R00	TDG 104 Rev 03		
4	921176620000	MATCHING PIECE OD559X90/ID350X60SA182F91	*	6	4-80-300-73498-R01	TDG 104 Rev 03		
5	921176700000	MATCHING PIECE 362X51/323.9X31SA182F91		8	4 80 301 73831-R00	TDG 104 Rev 03		
6	925032710000	BW CAP 323.9 X 35 SA182F91	*	6	As per Standard	TDG 104 Rev 03		
7	925163940000	STUB OD 150 ID 50 L = 200 SA182F91		10	As per Standard	TDG 104 Rev 03		
8	925167130000	TEMP STUB RC 1.5" OD122 L=45 SA182F91	*	20	4-80-999-93305-R01	TDG 104 Rev 03		
9	925167140000	SOCKET WELD STUB NB 25 CL-9000 SA182F91	*	156	4-80-999-93306-R00	TDG 104 Rev 03		
10	925167160000	SAFETY VALVE STUB OD 198 SA182F91	*	10	4-80-999-93308-R00	TDG 104 Rev 03		
11	925167170000	ERV STUB OD 127 SA182F91	*	10	4-80-999-93309-R00	TDG 104 Rev 03		
12	925167180000	STUB OD 88.9X15.24 SA182F91	*	20	4-80-999-93310-R00	TDG 104 Rev 03		
13	925167190000	STUB OD 60.3 SA182F91	*	50	4-80-999-93311-R00	TDG 104 Rev 03		
14	925167200000	TEMPERATURE STUB OD114 L=45HWR SA182F91	*	10	4-80-999-93312-R00	TDG 104 Rev 03		
15	925167210000	TEMPERATURE STUB OD75 L=45 HWR SA182F91	*	10	4-80-999-93313-R00	TDG 104 Rev 03		
16	925167220000	METAL TEMP STUB OD 50 SA182F91	*	20	4-80-999-93314-R00	TDG 104 Rev 03		
17	925167250000	THERMOWELL STUB OD 63.5 H=125 SA182F91	*	20	4-80-999-93317-R00	TDG 104 Rev 03		
18	925167280000	SW STUB NB 50 CL 9000 SA182F91	*	20	4-80-999-93320-R00	TDG 104 Rev 03		
19	925167300000	TEMPERATURESTUBM33X2 OD122 L=45 SA182F91	*	46	4-80-999-93323-R00	TDG 104 Rev 03		
				SUM:	504			

NOTE: * is an indication that Raw materials and other services for the corresponding items shall NOT be sourced from CHINA.

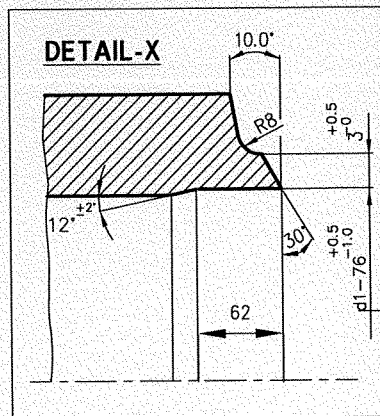
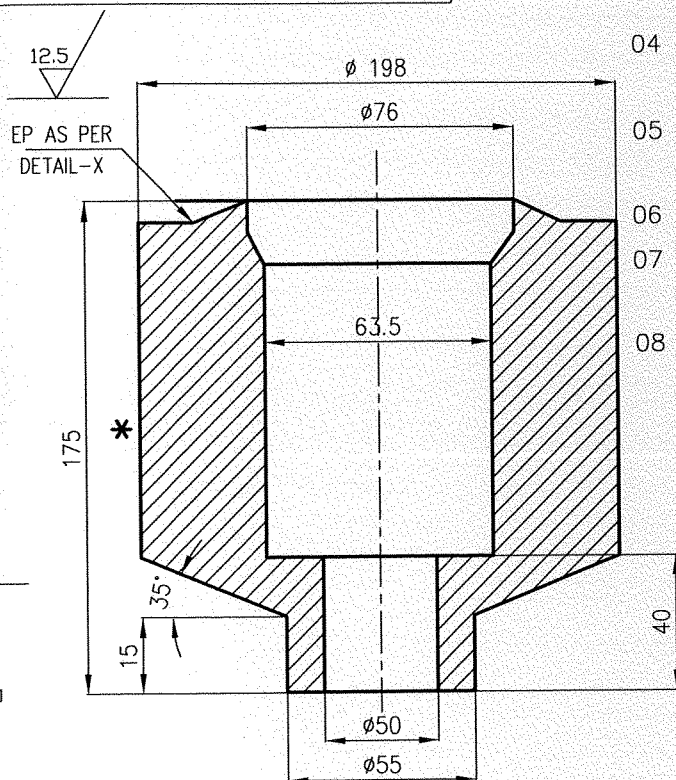
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REV	DATE	ALTERED
		APPROVED

ALL DIMENSIONS ARE IN MILLIMETRES

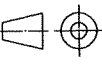
NOTES:

- 01 DESIGN PRESSURE : 272 kg/sq.cm(g)
- 02 DESIGN TEMPERATURE : 568 °C
- 03 HARD PUNCH "F91" AT PLACE MARKED WITH *
- 04 FINISHED COMPONENT CODE IS 925167160000
- 05 ALTERNATE/SUITABLE SIZE OF SA182 F91 FORGING CAN ALSO BE USED.
- 06 FOLLOW TDC: TDG:104, REV.03
- 07 THIS STUB IS REQUIRED FOR MS SYSTEM OF 660/800 MW UNITS.
- 08 RAW MATERIAL CODE IS 92 084 110 0000



STANDARD

	FORGED STUB L=175 OD200/ID50			40	000
		SA182F91	A		
VAR NO.	DESCRIPTION	MATL. CODE	A	UNIT	UNIT.WT.(Kg)
		MATL. SPECN.	C	DI	QTY.

		BHARAT HEAVY ELECTRICALS LIMITED PIPING CENTRE CHENNAI 600 017		DRN LALIT	NAME SVR.KALAISELVAN	SIGN 	DATE 16.12.10	NO.OF VAR
				CHD AP.MADHAVANKUTTY			16.12.10 16.12.10	
DEPT CODE	GRADE OF UNTOL.DIM C / M / F		SCALE N.T.S	WEIGHT (KG). 40.000	REF. TO ASSY./OLD DRG.		ITEM NO.	NO. OF ITEMS
TITLE SAFETY VALVE STUB OD 198 SA182F91				CARD CODE U 01	DRAWING NO. 4-80-999-93308			REV 00

Size A4

V:A4

6

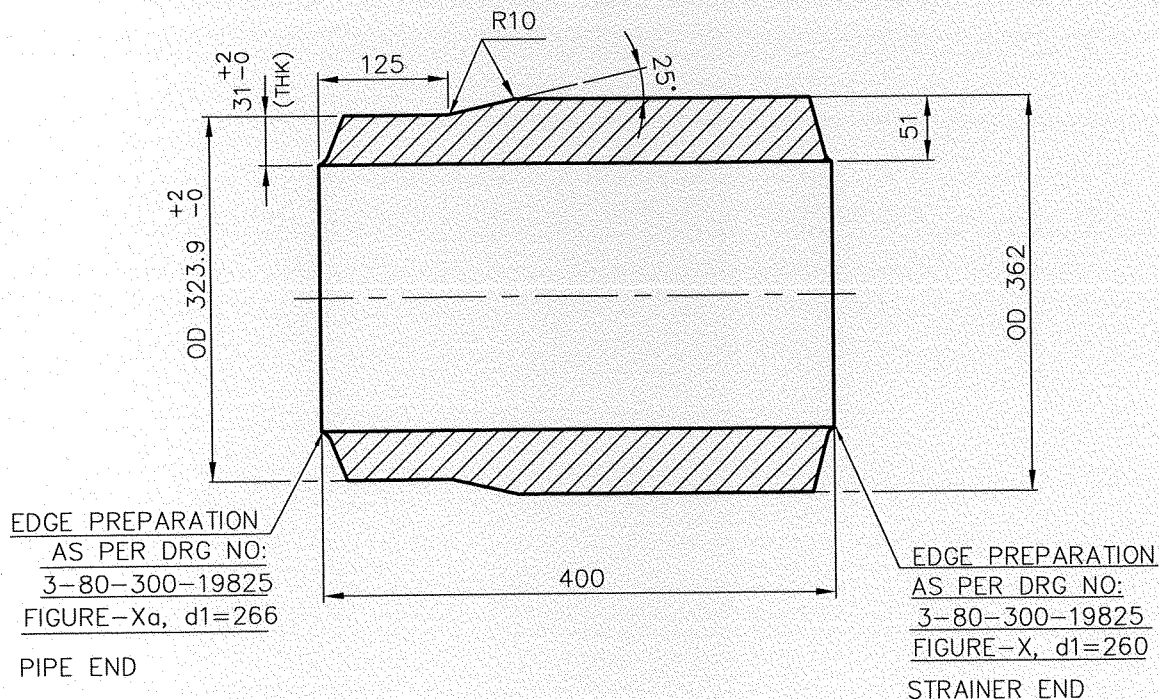
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REV	DATE	ALTERED
01		APPROVED

ALL DIMENSIONS ARE IN MILLIMETRES

NOTES:

1. DESIGN PRESSURE : $164.6 \text{ Kg/cm}^2(\text{g})$
2. DESIGN TEMPERATURE : 545°c
3. FOLLOW TDG:104 (LATEST REVISION)



-	MATCHING PIECE L=400 OD 362 x 51 / OD 323.9x31	92 117 670 0000 SA 182 F91	A	148 000
VAR NO.	DESCRIPTION	STD	MATL. CODE A C DI	UNIT UNIT.WT.(Kg) QTY.

		BHARAT HEAVY ELECTRICALS LIMITED PIPING CENTRE CHENNAI 600 017		NAME	SIGN	DATE	NO. OF VAR	
				DRN	BAHADUR SINGH	-sd-		06/10/11
				CHD	BAHADUR SINGH	-sd-		06/10/11
				APPD	K.V.RAMANI	-sd-		06/10/11
DEPT	GRADE OF UNTOL DIM		SCALE	WEIGHT (KG).	BHEL PO REF.NO.		ITEM NO.	NO. OF ITEMS
CODE	C / M / F		N.T.S	148.000	-		-	
TITLE				CARD CODE	DRAWING NO.		REV	
MATCHING PIECE (OD 362 x 51 / OD 323.9x31)				U 01	4-80-301-73831		00	