

BHARAT HEAVY ELECTRICALS LIMITED
TIRUCHIRAPPALLI, TAMILNADU, INDIA

MATERIALS MANAGEMENT :: FOSSIL BOILERS
(SUB-DELIVERY)

REF: MM/SD-DRUMS

DATE: 10 MAY, 2010

SUB: VENDORS REQUIRED FOR THE SUPPLY OF BOILER DRUMS

Bharat Heavy Electricals Limited, (BHEL) Tiruchirappalli, is looking for Vendors to Supply Boiler Drums in fully assembled condition as per BHEL Drawings, Technical Delivery Conditions, Quality Plans etc.

The list of Drawings, Technical Delivery Conditions and Quality Plans to be referred for each ratings of Boiler Drum are posted on BHEL Web Site (www.bhel.com) and on National Informatics Centre Web Site (<http://tenders.gov.in/>).

The tentative requirement of boiler drums is given below:

Fully Assembled Boiler Drums for....

1) 500MW - 2 nos.

Qualification Criteria:

Manufacturers having supplied minimum 2 Boiler Drums of respective ratings or above, to Power Plants are only qualified.

Interested Vendors may register thro' BHEL Web Site OR send e-mail to the following addresses with Company Profile along with other credentials like Product Range, Production Capability, List of Customers, List of Major Machinery & Testing Equipments, Technical Collaboration if any, Quality Manuals, Quality Accreditation, etc.

The last date for registration is 15 June, 2010.

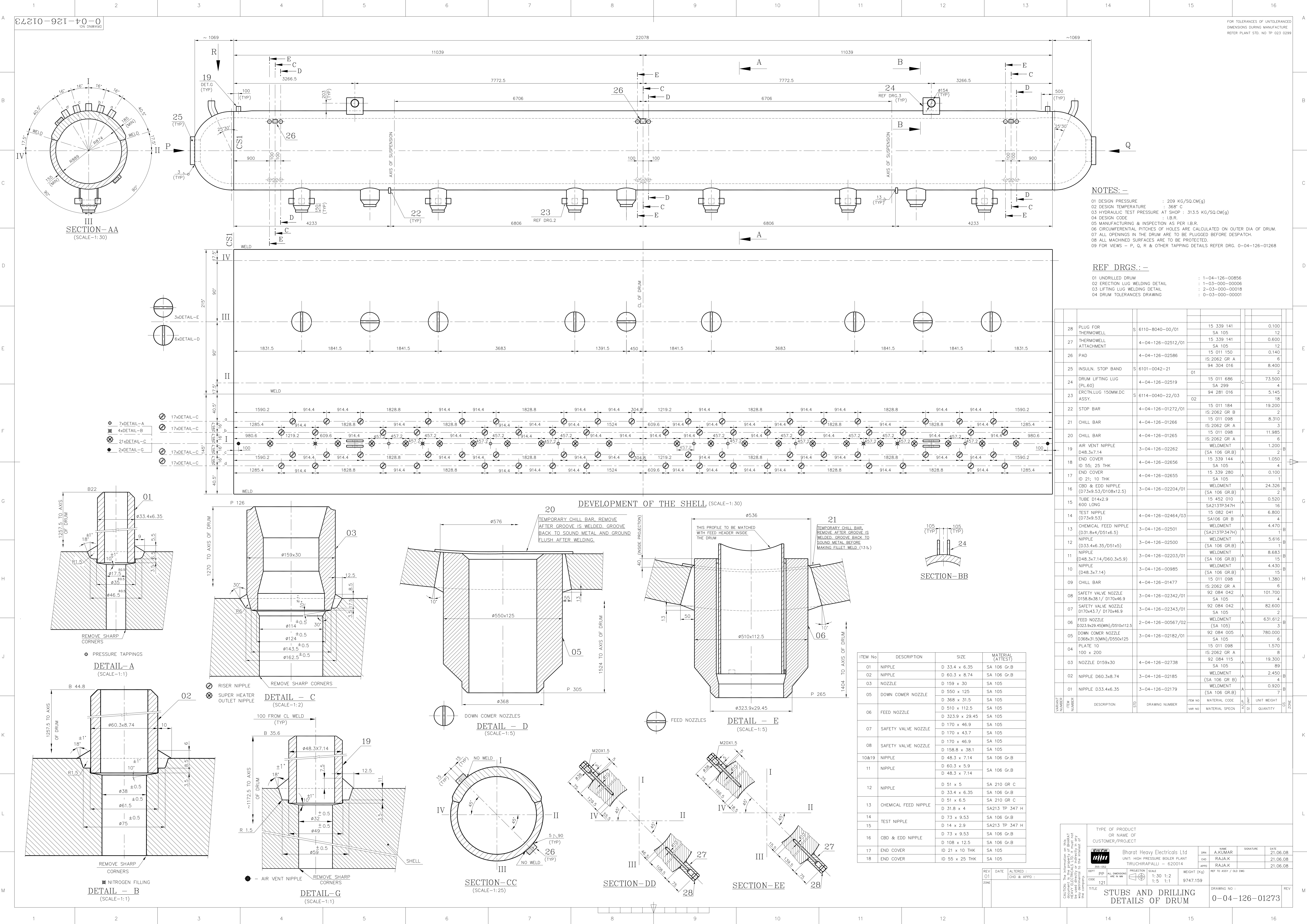
Contact Address:

Dy.General Manager/Purchase(SD) Materials Management (FB) 4 th Floor / 24 Building High Pressure Boiler Plant Bharat Heavy Electricals Limited Tiruchirappalli – 620 014 <u>Tamilnadu, India</u>	Phone: (0431) 2577074 Fax: (0431) 2520719 e-Mail ID: mkraj@bheltry.co.in
Manager/Supplier Development Cell Materials Management (Mfg) 4 th Floor / 24 Building High Pressure Boiler Plant Bharat Heavy Electricals Limited Tiruchirappalli – 620 014 <u>Tamilnadu, India</u>	Phone: (0431) 2577448 Fax: (0431) 2520719 e-Mail ID: rmkrish@bheltry.co.in

DGM/PURCHASE/SD
Materials Management (FB)
Bharat Heavy Electricals Limited
Tiruchirappalli-620014

Supply of Complete Boiler Drums – List of Documents

Drawings	a) 270 MW – 6 Nos.	1.Boiler Drum-Undrilled	1.04.126.00870/00 (1216-1.pdf)
		2.Boiler Drum with stubs and drilling details	0.04.126.01324/00 (1216-2.pdf)
		3. Boiler Drum with stubs and drilling details	0.04.126.01325/00 (1216-3.pdf)
	b) 500 MW – 2 Nos.	1.Boiler drum	1.04.126.00856/ (0654-1.pdf)
		2.Boiler Drum with stubs and drilling details	0.04.126.01273/00 (0654-2.pdf)
		3. Boiler Drum with stubs and drilling details	0.04126.01268/ (0654-3.pdf)
	c) 600 MW – 4 Nos.	1.Boiler drum	1.04.126.00669/00 (1600-1.pdf)
		2.Boiler Drum with stubs and drilling details	0.04.126.01302/00 (1600-2.pdf)
		3. Boiler Drum with stubs and drilling details	0.04126.01308/00 (1600-3.pdf)
TDCs	a) TDC:0:101 Rev.11	TDC for Seamless Steel Pipes (For Boilers)	
	b) TDC:0:102 Rev.11	TDC for Seamless Steel Tubes (For Boilers)	
	c) TDC:0:201 Rev.06	TDC for Boiler Quality Plates to SA 299 Gr.A (Boilers)	
	d) TDC:0:202 Rev.04	TDC for Boiler Quality Plates to SA 515 & SA 387 (Boilers)	
	e) TDC:0:401 Rev.01	TDC for Carbon steel forgings to Specn. SA 105 for use in Drum Nozzles.	
	f) TDC:0:424 Rev.00	TDC for Drum (Undrilled) for Boilers.	
QAP	a) SIP:PP:04/06	Hydrostatic testing of Pressure parts (Boilers, Pressure vessels & Heat exchangers)	
	b) SIP:PP:05/00	Quality Assurance Diameter, Circulating and profile requirements (Boiler Drums)	
	c) SIP:PP:22/03	Procedure or surface preparations and painting (Boilers and value components)	
	d) QCP:001/05	QCP for fabrication of Pressure parts (other than tubular products)	
	e) SIP:PP:02/00	Quality Assurance visual inspection of Pressure parts except tubular products.	
	e) SIP:PP:08/00	Quality Assurance Welding of Lifting Lugs to Boiler Drums	



NOTES: -
01 DESIGN PRESSURE : 209 KG/SQ.CM(g)
02 DESIGN TEMPERATURE : 368° C
03 HYDRAULIC TEST PRESSURE AT SHOP : 313.5 KG/SQ.CM(g)
04 DESIGN CODE : I.B.R.
05 MANUFACTURING & INSPECTION AS PER I.B.R.
06 CIRCUMFERENTIAL PITCHES OF HOLES ARE CALCULATED ON OUTER DIA OF DRUM.
07 ALL OPENINGS IN THE DRUM ARE TO BE PLUGGED BEFORE DESPATCH.
08 ALL MACHINED SURFACES ARE TO BE PROTECTED.
09 FOR VIEWS - P, Q, R & OTHER TAPPING DETAILS REFER DRG. 0-04-126-01268

REF DRGS.:-
01 UNDRILLED DRUM : 1-04-126-00856
02 ERECTION LUG WELDING DETAIL : 1-03-000-00006
03 LIFTING LUG WELDING DETAIL : 2-03-000-00018
04 DRUM TOLERANCES DRAWING : 0-03-000-00001

ITEM No	DESCRIPTION	SIZE	MATERIAL (ATTEST)	QTY	UNIT
28	PLUG FOR THERMOWELL	S 6110-8040-00/01	15 339 141	0.100	
27	THERMOWELL ATTACHMENT	4-04-126-02512/01	15 339 141	0.600	
26	PAD	4-04-126-02586	15 011 150	0.140	
25	INSULN. STOP BAND	S 6101-0042-21	94 304 016	8.400	
24	DRUM LIFTING LUG (PL.60)	4-04-126-02519	15 011 686	73.500	
23	ERCTN LUG 150MM.DC ASSY.	S 6114-0040-22/03	94 281 016	5.145	
22	STOP BAR	4-04-126-01272/01	15 011 184	19.200	
21	CHILL BAR	4-04-126-01266	IS: 2062 GR B	8.310	
20	CHILL BAR	4-04-126-01265	IS: 2062 GR A	11.985	
19	AIR VENT NIPPLE D48.3x7.14	3-04-126-02262	WELDMENT (SA 106 GR.B)	1.200	
18	END COVER ID 55; 25 THK	4-04-126-02656	15 339 144	1.050	
17	END COVER ID 21; 10 THK	4-04-126-02655	SA 105	0.100	
16	CBD & EDD NIPPLE (D73x9.53/D108x12.5)	3-04-126-02204/01	WELDMENT (SA 106 GR.B)	24.326	
15	TUBE D14x2.9 600 LONG		15 452 010	0.520	
14	TEST NIPPLE (D73x9.53)	4-04-126-02464/03	SA213TP347H	6.800	
13	CHEMICAL FEED NIPPLE (D31.8x4/D51x6.5)	3-04-126-02501	WELDMENT (SA213TP347H)	4.470	
12	NIPPLE (D33.4x6.35/D51x5)	3-04-126-02500	WELDMENT (SA 106 GR.B)	5.616	
11	NIPPLE (D48.3x7.14/D60.3x5.9)	3-04-126-02203/01	WELDMENT (SA 106 GR.B)	8.683	
10	NIPPLE (D48.3x7.14)	3-04-126-00985	WELDMENT (SA 106 GR.B)	4.430	
09	CHILL BAR	4-04-126-01477	15 011 098	1.380	
08	SAFETY VALVE NOZZLE D158.8x38.1/ D170x46.9	3-04-126-02342/01	92 084 042	101.700	
07	SAFETY VALVE NOZZLE D170x43.7/ D170x46.9	3-04-126-02343/01	SA 105	82.600	
06	FEED NOZZLE D323.9x29.45(MN)/D510x12.5	2-04-126-00567/02	WELDMENT (SA 105)	631.612	
05	DOWN COMER NOZZLE D368x31.5(MN)/D550x125	3-04-126-02182/01	92 084 005	780.000	
04	PLATE 10 100 x 200		SA 105	1.570	
03	NOZZLE D159x30	4-04-126-02738	92 084 115	19.300	
02	NIPPLE		SA 105	89	
01	NIPPLE		WELDMENT (SA 106 GR.B)	2.450	
01	NIPPLE D33.4x6.35	3-04-126-02179	WELDMENT (SA 106 GR.B)	0.920	

ITEM No	DESCRIPTION	SIZE	MATERIAL (ATTEST)
01	NIPPLE	D 33.4 x 6.35	SA 106 Gr.B
02	NIPPLE	D 60.3 x 8.74	SA 106 Gr.B
03	NOZZLE	D 159 x 30	SA 105
05	DOWN COMER NOZZLE	D 550 x 125	SA 105
06	FEED NOZZLE	D 323.9 x 29.45	SA 105
07	SAFETY VALVE NOZZLE	D 170 x 46.9	SA 105
08	SAFETY VALVE NOZZLE	D 170 x 46.9	SA 105
10&19	NIPPLE	D 158.8 x 38.1	SA 105
11	NIPPLE	D 48.3 x 7.14	SA 106 Gr.B
12	NIPPLE	D 51 x 5	SA 210 GR C
13	CHEMICAL FEED NIPPLE	D 33.4 x 6.35	SA 106 Gr.B
14	TEST NIPPLE	D 31.8 x 4	SA213 TP 347 H
15	TEST NIPPLE	D 73 x 9.53	SA 106 Gr.B
16	CBD & EDD NIPPLE	D 73 x 9.53	SA 106 Gr.B
17	END COVER	D 108 x 12.5	SA 106 Gr.B
18	END COVER	ID 21 x 10 THK	SA 105
19	END COVER	ID 55 x 25 THK	SA 105

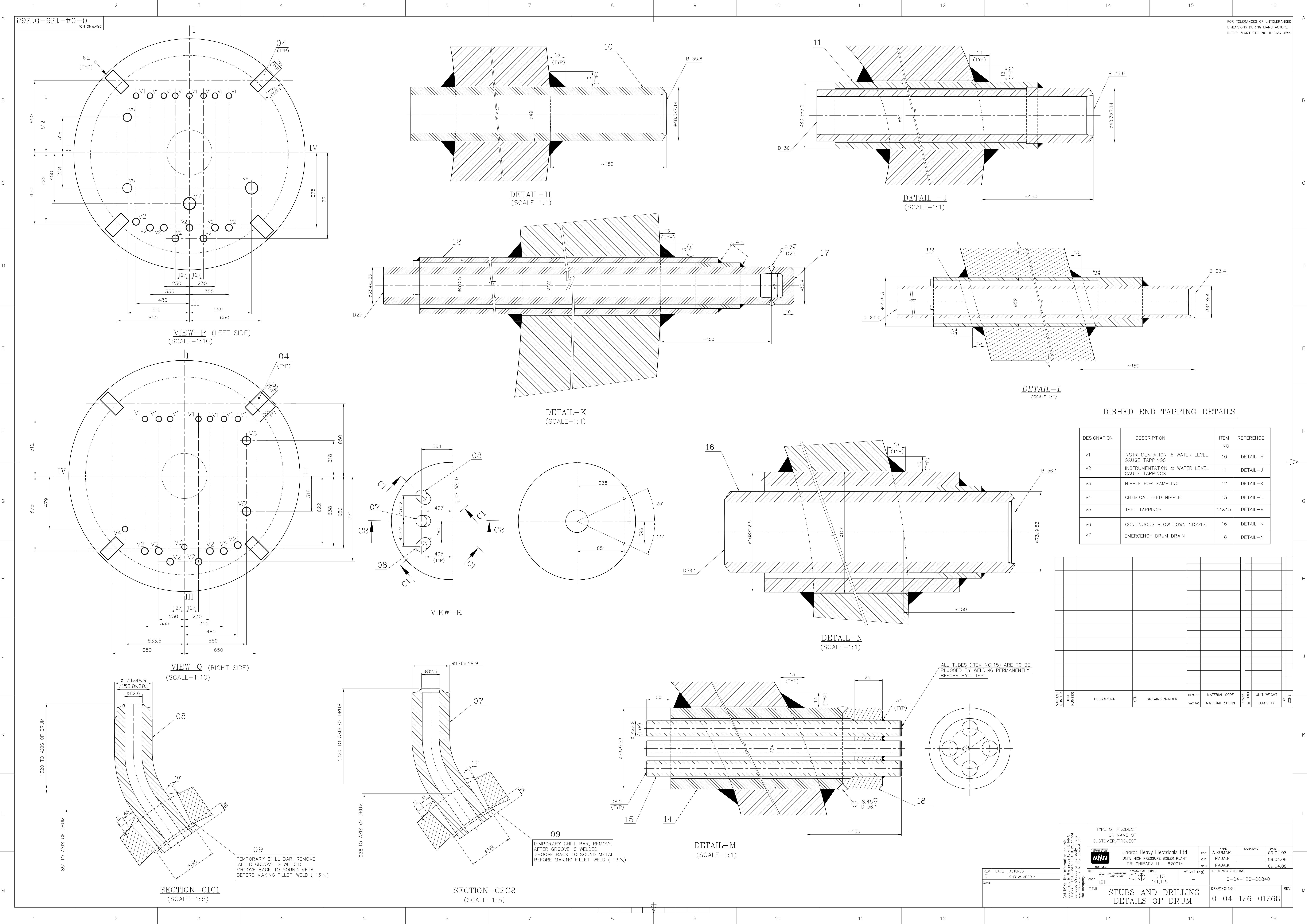
CAUTION: The information on this drawing is the property of BHARAT HEAVY ELECTRICALS LTD. It must not be used for any purpose other than the interest of the customer.

DEPT	PP	ALL DIMENSIONS ARE IN MM	PROJECTION	SCALE	1:30 1:2 1:5 1:1	WEIGHT (Kg)	9747.159
CODE	121						
TITLE				DRAWING NO : 0-04-126-01273			
STUBS AND DRILLING DETAILS OF DRUM							

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT: Bharat Heavy Electricals Ltd, UNIT: HIGH PRESSURE BOILER PLANT, TIRUCHIRAPPALLI - 620014

DRN	NAME	SIGNATURE	DATE
01	A.KUMAR		21.06.08
CHD	RAJAJ.K		21.06.08
APPO	RAJAJ.K		21.06.08

REF TO ASSY / OLD DRG



FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER PLANT STD. NO TP-023-0299

DISHED END TAPPING DETAILS

DESIGNATION	DESCRIPTION	ITEM NO	REFERENCE
V1	INSTRUMENTATION & WATER LEVEL GAUGE TAPPINGS	10	DETAIL-H
V2	INSTRUMENTATION & WATER LEVEL GAUGE TAPPINGS	11	DETAIL-J
V3	NIPPLE FOR SAMPLING	12	DETAIL-K
V4	CHEMICAL FEED NIPPLE	13	DETAIL-L
V5	TEST TAPPINGS	14&15	DETAIL-M
V6	CONTINUOUS BLOW DOWN NOZZLE	16	DETAIL-N
V7	EMERGENCY DRUM DRAIN	16	DETAIL-N

ITEM NO	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	UNIT WEIGHT	QUANTITY	ZONE
10	INSTRUMENTATION & WATER LEVEL GAUGE TAPPINGS			10	A.KUMAR	09.04.08		
11	INSTRUMENTATION & WATER LEVEL GAUGE TAPPINGS			11	RAJIA.K	09.04.08		
12	NIPPLE FOR SAMPLING			12	RAJIA.K	09.04.08		
13	CHEMICAL FEED NIPPLE			13				
14	TEST TAPPINGS			14				
15	TEST TAPPINGS			15				
16	CONTINUOUS BLOW DOWN NOZZLE			16				
16	EMERGENCY DRUM DRAIN			16				

REV	DATE	ALTERED	BY	CHKD	APPD	ZONE
01						

DEPT	PP	ALL DIMENSIONS ARE IN MM	PROJECTION	SCALE	WEIGHT (Kg)	REF TO ASSY / OLD DWG
CODE	121		1:10 1:1,1:5			0-04-126-00840

TITLE	STUBS AND DRILLING DETAILS OF DRUM	DRAWING NO :	0-04-126-01268	REV
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