BHARAT HEAVY ELECTRICALS LIMITED <u>TIRUCHIRAPPALLI, TAMILNADU, INDIA</u> <u>MATERIALS MANAGEMENT :: FOSSIL BOILERS</u> <u>(SUB-DELIVERY)</u>

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 (<u>www.bhel.com</u>) and on National Informatics Centre Web Site (<u>http://tenders.gov.in/</u>).

The tentative requirement of boiler drums is given below:

Fully Assembled Boiler Drums for.... 1) 600MW - 4 nos. <u>Qualification Criteria</u>:

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. <u>Contact Address</u>:

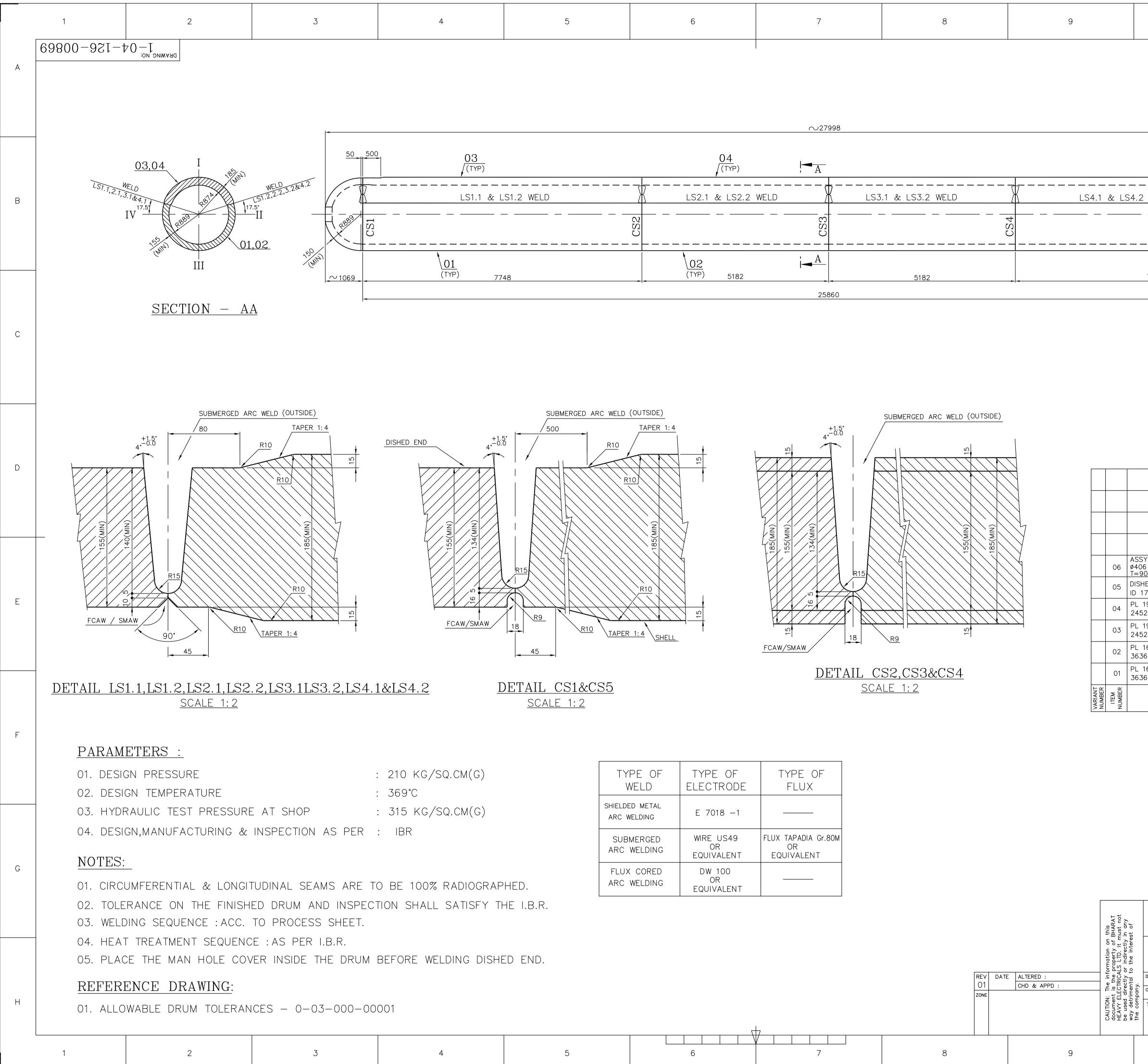
Dy.General Manager/Purchase(SD)	Phone: (0431) 2577074
Materials Management (FB)	Fax: (0431) 2520719
4 th Floor / 24 Building	e-Mail ID: <u>mkraj@bheltry.co.in</u>
High Pressure Boiler Plant	
Bharat Heavy Electricals Limited	
Tiruchirappalli – 620 014	
Tamilnadu, India	

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

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

Supply of Complete Boiler Drums – List of Documents

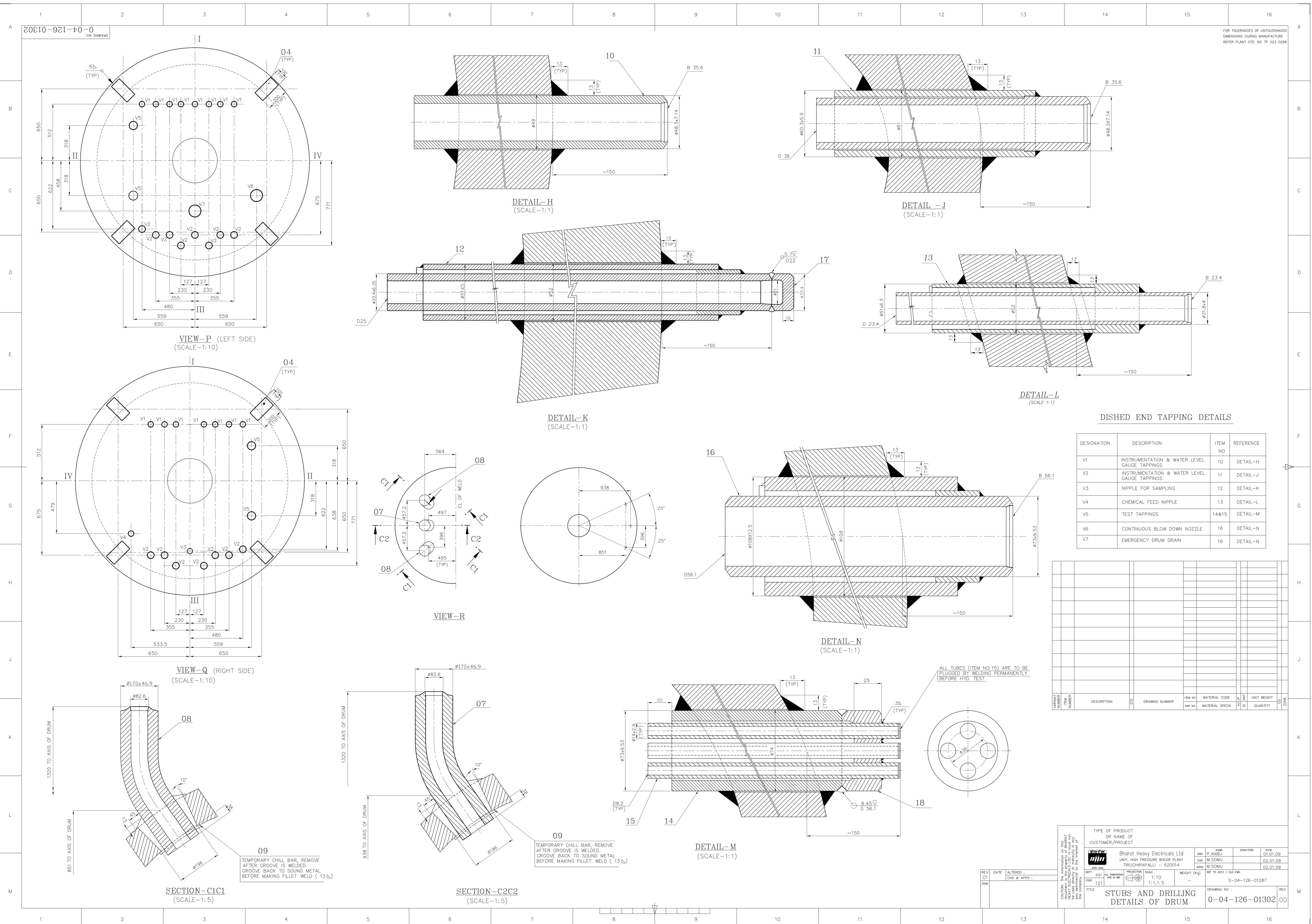
Drawings	a) 270 MW - 6 Nos.	1.Boiler Drum-Undrilled	1.04.126.00870/00 (1216-1.pdf)						
Dramige		2.Boiler Drum with	0.04.126.01324/00 (1216-2.pdf)						
		stubs and drilling details							
-		3. Boiler Drum with	0.04.126.01325l/00 (1216-3.pdf)						
		stubs and drilling details							
	b) 500 MW - 2 Nos.	1.Boiler drum	1.04.126.00856/ (0654-1.pdf)						
		2.Boiler Drum with	0.04.126.01273/00 (0654-2.pdf)						
		stubs and drilling details							
		3. Boiler Drum with	0.04126.01268/ (0654-3.pdf)						
		stubs and drilling details							
	c) 600 MW – 4 Nos.	1.Boiler drum	1.04.126.00669/00 (1600-1.pdf)						
		2.Boiler Drum with	0.04.126.01302/00 (1600-2.pdf)						
		stubs and drilling details							
		3. Boiler Drum with	0.04126.01308/00 (1600-3.pdf)						
		stubs and drilling details							
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 Pla	tes to SA 299 Gr.A (Boilers)						
	d) TDC:0:202 Rev.04	TDC for Boiler Quality Pla	tes to SA 515 & SA 387 (Boilers)						
	e) TDC:0:401 Rev.01	TDC for Carbon steel forg	ings 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 Pre	ssure parts (other than tubular						
		products)							
	e) SIP:PP:02/00	- ,	nspection of Pressure parts except						
		tubular producdts.							
	e) SIP:PP:08/00	Quality Assurance Weldin	g of Lifting Lugs to Boiler Drums						



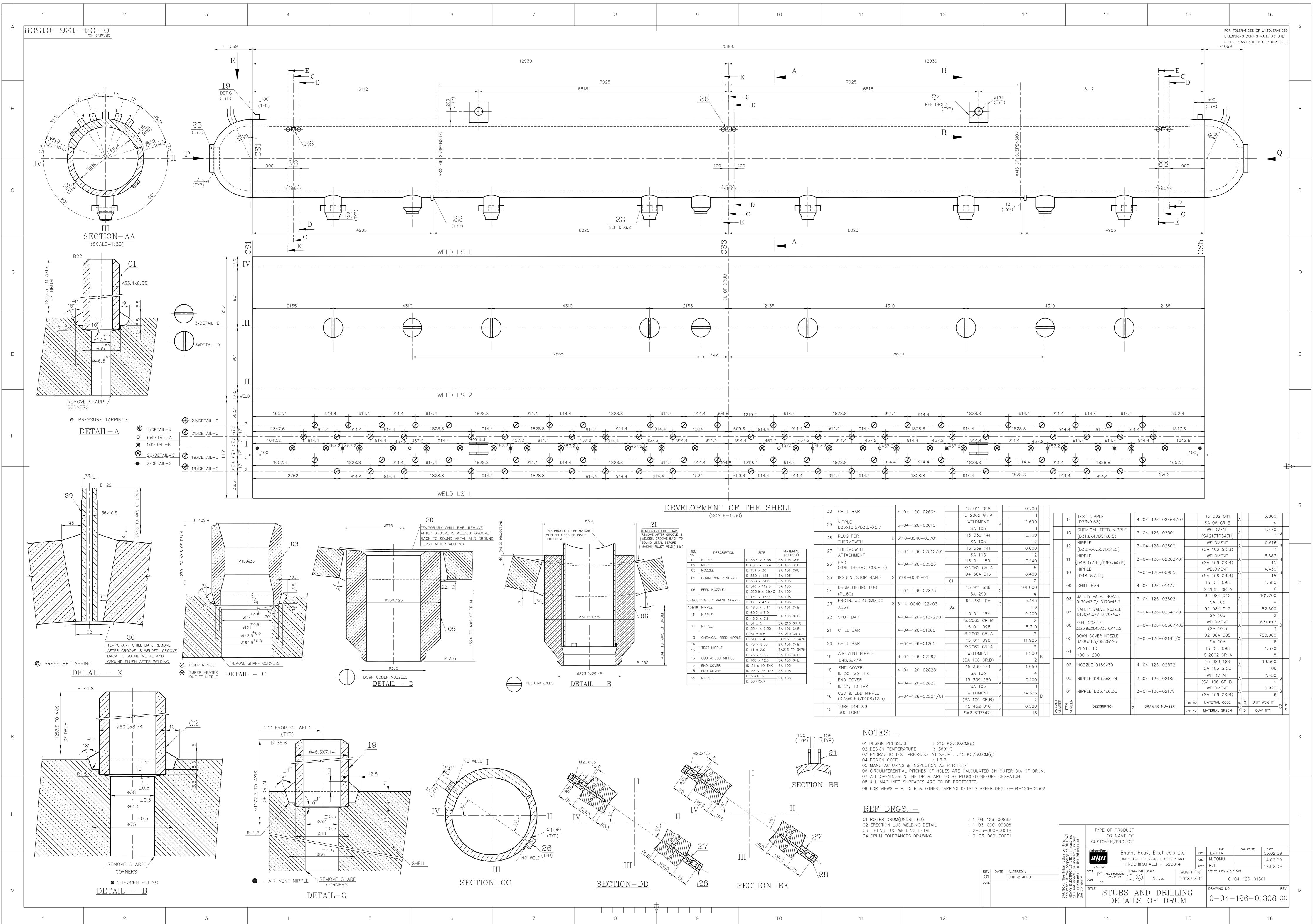
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TYPE OF WELD	TYPE OF Electrode	TYPE OF FLUX
SHIELDED METAL ARC WELDING	E 7018 —1	
SUBMERGED ARC WELDING	WIRE US49 OR EQUIVALENT	FLUX TAPADIA Gr.80M OR EQUIVALENT
FLUX CORED ARC WELDING	DW 100 OR EQUIVALENT	

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						DIMEN	SIONS I	DURING	F UNTOLERAN MANUFACTU	RE	
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7748				√1069		<u>05</u> (TYP)					
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SY. OF MH DOOR D6 MM OPENING 90 (MIN)	S	1-03-00	0-00005/04			ELDMENT (SA 299)	A		2	3	
HED END 1778; T=150 (MIN)		3-04-1	26-02433			5 911 798 (SA 299)	A		2500.000		-
190 52x5182						5 911 971 (SA 299)	_ A		3952.000 2		E
190 52x7748						5 911 971 (SA 299)		28	3336.000		
160 36x5182						5 911 809 (SA 299)	- A	23	2		
160 36x7748					1	5 911 809 (SA 299)	_ A		5384.000 2		
DESCRIPTION	STD	DRAWIN	IG NUMBER	ITEM NO	МА	TERIAL CODE	A/C/P UNIT			ZONE	
				VAR NO	<u>МА</u>	LINIAL SPEUN	וט ן־ ן				
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TYPE OF PRODU											
OR NAME CUSTOMER/PROJE									-		
			ectricals Lto е воісег рсам			NAME K.GAYATHRI M.S	SIGN	ATURE	DATE 20.10.08 21.10.08		
355-053	ิรบ(CHIRAPALL	- 620014	F	APPD	M.S M.S REF TO ASSY / OLD	DWG		21.10.08		
CODE 121	\square		1:50	28033.	28						
	T .	ER D	RIM			drawing no : $1 - 04 - 1$	19F			REV	Н
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DESCRIPTION	SIZE	MATERIAL (ATTEST)				
NIPPLE	D 33.4 x 6.35	SA 106 Gr.B				
NIPPLE	D 60.3 x 8.74	SA 106 Gr.B				
NOZZLE	D 159 x 30	SA 106 GRC				
	D 550 x 125	SA 105				
DOWN COMER NOZZLE	D 368 x 31.5	SA 105				
	D 510 x 112.5	SA 105				
FEED NOZZLE	D 323.9 x 29.45	SA 105				
	D 170 x 46.9	SA 105				
SAFETY VALVE NOZZLE	D 170 x 43.7	SA 105				
NIPPLE	D 48.3 x 7.14	SA 106 Gr.B				
NIPPLE	D 60.3 x 5.9					
	D 48.3 x 7.14	SA 106 Gr.B				
	D 51 x 5	SA 210 GR C				
NIPPLE	D 33.4 x 6.35	SA 106 Gr.B				
	D 51 x 6.5	SA 210 GR C				
CHEMICAL FEED NIPPLE	D 31.8 x 4	SA213 TP 347H				
	D 73 x 9.53	SA 106 Gr.B				
TEST NIPPLE	D 14 x 2.9	SA213 TP 347H				
	D 73 x 9.53	SA 106 Gr.B				
CBD & EDD NIPPLE	D 108 x 12.5	SA 106 Gr.B				
END COVER	ID 21 x 10 THK	SA 105				
END COVER	ID 55 x 25 THK	SA 105				
NIPPLE	D 36X10.5	SA 105				
	D 33.4X5.7					

30	CHILL BAR		4-04-126-02664		15 011 098			0.700	
50	CHILL DAN		4-04-120-02004		IS 2062 GR.A			1	
29	NIPPLE		7 04 106 00616		WELDMENT	A		2.690	
29	D36X10.5/D33.4X5.7		3-04-126-02616		SA 105			1	
28	PLUG FOR		C110 0010 00 /01		15 339 141			0.100	
20	THERMOWELL	S	6110-8040-00/01		SA 105			12	1
27	THERMOWELL		4 04 100 00510 /01		15 339 141			0.600	
21	ATTACHMENT		4-04-126-02512/01		SA 105			12	
26	PAD		4-04-126-02586		15 011 150			0.140	
20	(FOR THERMO COUPLE)		4-04-120-02500		IS: 2062 GR A			6	1
25			6101 0042 21		94 304 016			8.400	
25	INSULN. STOP BAND	5	6101-0042-21					2	1
24	DRUM LIFTING LUG		4-04-126-02873		15 911 686			101.000	
24	(PL.60)		4-04-126-028/3		SA 299			4	1
0.7	ERCTN.LUG 150MM.DC	S	6114 0040 22/03		94 281 016			5.145	
23	ASSY.		6114-0040-22/03	02				18	1
0.0		\uparrow	4-04-126-01272/01		15 011 184			19.200	
22	STOP BAR		4-04-126-01272/01		IS: 2062 GR B			2	1
01		\top	4 04 100 01000		15 011 098			8.310	
21	CHILL BAR		4-04-126-01266		IS: 2062 GR A			3	1
0.0		\uparrow	4 04 100 01005		15 011 098			11.985	
20	CHILL BAR		4-04-126-01265		IS: 2062 GR A			6	1
10	AIR VENT NIPPLE	\top	7 04 100 00000		WELDMENT			1.200	
19	D48.3x7.14		3-04-126-02262		(SA 106 GR.B)			2	B
10	END COVER	\top	4 04 400 00000		15 339 144			1.050	
18	ID 55; 25 THK		4-04-126-02828		SA 105	A		4	1
47	END COVER	\top	4 04 100 00007		15 339 280			0.100	
17	ID 21; 10 THK		4-04-126-02827		SA 105			1	1
10	CBD & EDD NIPPLE	\top	7 04 400 00004 (04		WELDMENT			24.326	
16	(D73x9.53/D108x12.5)		3-04-126-02204/01		(SA 106 GR.B)			2	B
4.5	TUBE D14x2.9	+			15 452 010			0.520	t
15	600 LONG				SA213TP347H		+	16	1