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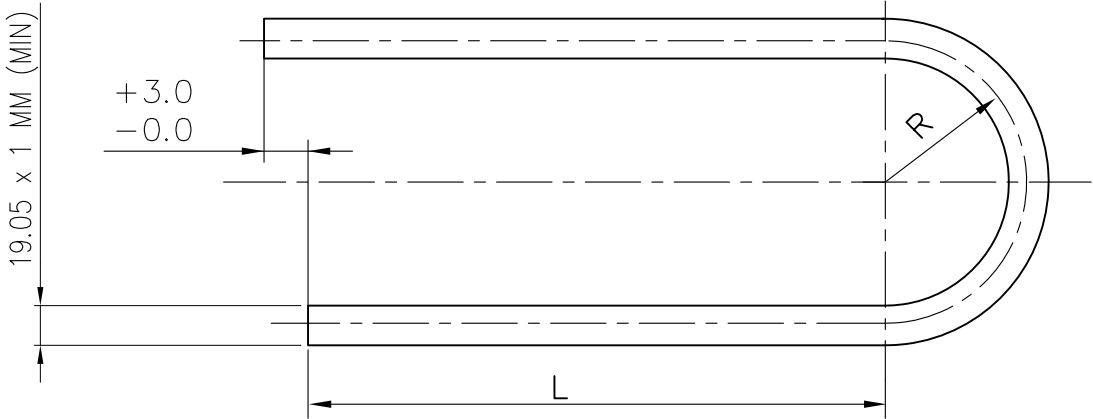
FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

DRG. NO. 3-162-22-00390

	L.P.HEATER No.2	L.P.HEATER No.3	L.P.HEATER No.4
LENGTH "L"	11400-U TUBE	9500-U TUBE	10500-U TUBE
QUANTITY	1145	1145	1145
MATL. CODE	HE 97 18 587 918	HE 97 18 587 926	HE 97 18 587 934

ROW No	RADIUS "R"	QUANTITY	LPH-2	LPH-3	LPH-4
			DEV LENGTH	DEV LENGTH	DEV LENGTH
1	38.1	40	22920	19120	21120
2	58.7	48	22984	19184	21184
3	79.3	48	23049	19249	21249
4	100.0	48	23114	19314	21314
5	120.6	47	23179	19379	21379
6	141.2	52	23244	19444	21444
7	161.8	51	23309	19509	21509
8	182.4	52	23373	19573	21573
9	203.1	51	23438	19638	21638
10	223.7	50	23503	19703	21703
11	244.3	49	23568	19768	21768
12	264.9	48	23633	19833	21833
13	285.5	49	23697	19897	21897
14	306.2	48	23762	19962	21962
15	326.8	47	23827	20027	22027
16	347.4	46	23892	20092	22092
17	368.0	43	23957	20157	22157
18	388.6	42	24021	20221	22221
19	409.3	39	24086	20286	22286
20	429.9	38	24151	20351	22351
21	450.5	39	24216	20416	22416
22	471.1	36	24281	20481	22481
23	491.7	35	24345	20545	22545
24	512.4	32	24410	20610	22610
25	533.0	29	24475	20675	22675
26	553.6	22	24540	20740	22740
27	574.3	16	24605	20805	22805
NO. OF TUBES		1145			
TOTAL DEVELOPED LENGTH FOR THE TUBE BUNDLE IN METERS			27109.64	22758.64	25048.64
ESTIMATED WEIGHT OF THE TUBE BUNDLE IN KGS			~13454	~11290	~12435



NOTES: -

- 1. MATERIAL: -SA688 TP 304 WITH CARBON MAX. 0.05% AS PER ASME SEC-II PART-A YEAR OF EDITION AND ADDENDA AS PER P.O./ INDENT.
- 2. TECHINICAL REQUIREMENTS AS PER PRODUCT STD. HE 5 1103 REV.18 AND AS PER MATERIAL SPECIFICATION.
- 3. QUALITY REQUIREMENTS INSPECTION & CERTIFICATION AS PER QUALITY PLAN: -HY/HE/004/U-TUBES REV.(LATEST AS PER P.O./INDENT)
- 4. INSPECTION & CERTIFICATION: - M/S LLOYDS.
- 5. HYDRO TEST PRESSURE ON EACH TUBE = 75 Kg/Sq cm(g).
- 6. MIN.WALL THICKNESS = +20%
- 0%

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT		700 MW						
	BHARAT HEAVY ELECTRICALS LTD. HYDERABAD		DRN.	NAME RAJESH M	SIGN. M RAJESH	DATE 11.12.11	NO.OF VAR.	
			CHD.	A.K.SAHOO	AKS	11.12.11	NA	
			APPD.	K KIRAN KUMAR		11.12.11		
DEPT. HEE	GRADE OF TOL.DIM. C/M/F		SCALE	WEIGHT (KG) NA	REF. TO ASSY DRG. NA		ITEM NO. NA	NO.OF ITEMS NA
CODE 405	TITLE U - TUBES (FOR L.P.HEATERS -2,3 &4)			CARD CODE	DRAWING NO. 3-162-22-00390			REV. 00
				SHEET No. 1		NO OF SHEETS 1		