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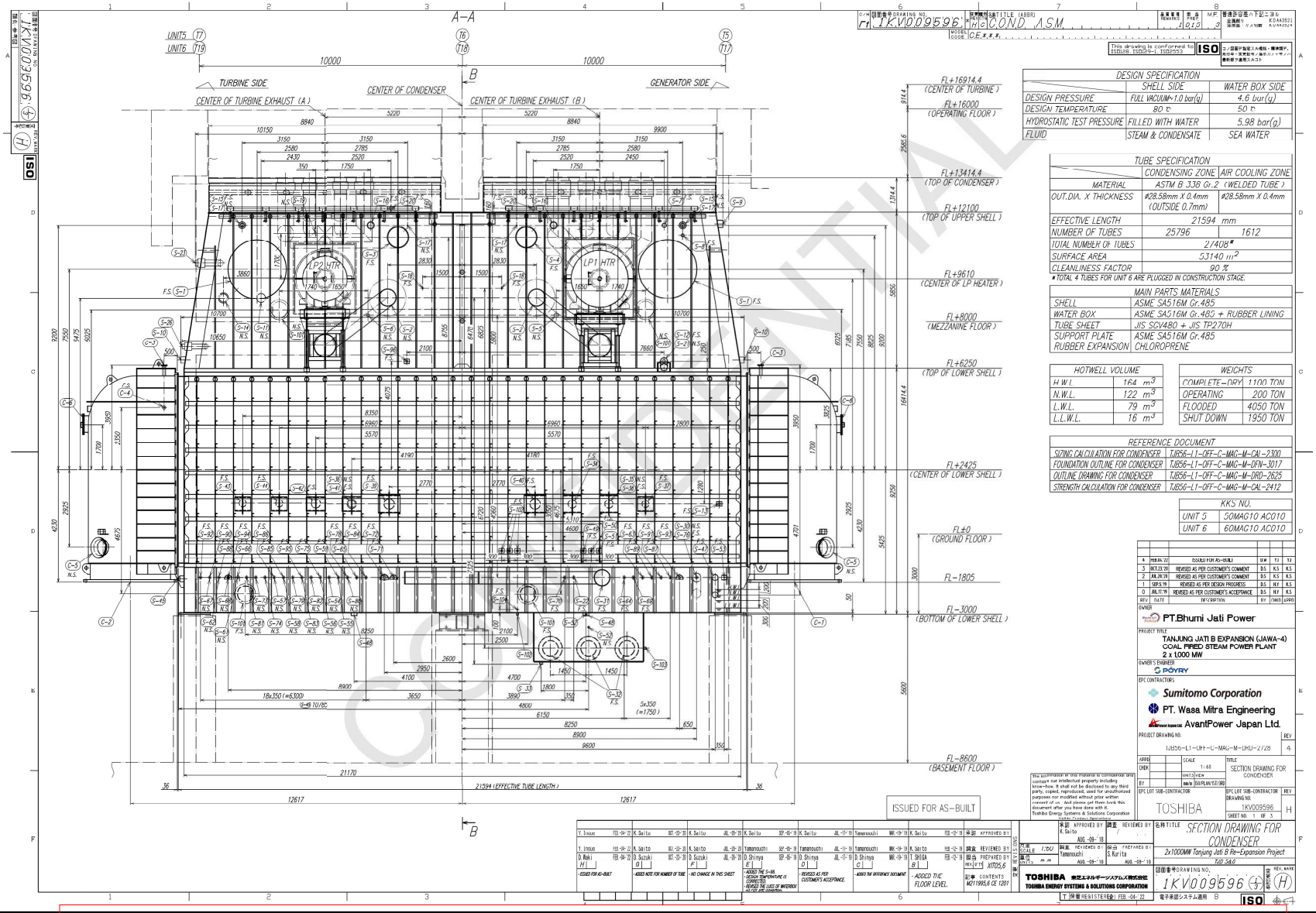
5. Condenser Section Drawing



DESIGN SPECIFICATION	SHELL SIDE	WATER BOX SIDE
DESIGN PRESSURE	FULL VACUUM×1.0 bar(g)	4.6 bar(g)
DESIGN TEMPERATURE	80 ℃	50 ℃
HYDROSTATIC TEST PRESSURE	FILLED WITH WATER	5.98 bar(g)
FLUID	STEAM & CONDENSATE	SEA WATER

TUBE SPECIFICATION	CONDENSING ZONE	AIR COOLING ZONE
MATERIAL	ASTM B 338 Gr.2 (WELDED TUBE)	
OUT.DIA. X THICKNESS	ø28.58mm X 0.4mm (OUTSIDE 0.7mm)	ø28.58mm X 0.4mm
EFFECTIVE LENGTH	21594 mm	
NUMBER OF TUBES	25796	1612
TOTAL NUMBER OF TUBES	27408*	
SURFACE AREA	53140 m²	
CLEANLINESS FACTOR	90 %	

* TOTAL 4 TUBES FOR UNIT 6 ARE PLUGGED IN CONSTRUCTION STAGE.

MAIN PARTS MATERIALS	
SHELL	ASME SA516M Gr.485
WATER BOX	ASME SA516M Gr.485 + RUBBER LINING
TUBE SHEET	JIS SCV480 + JIS TP270H
SUPPORT PLATE RUBBER EXPANSION	ASME SA516M Gr.485 CHLOROPRENE

HOTWELL VOLUME	
H.W.L.	164 m³
N.W.L.	122 m³
L.W.L.	79 m³
L.L.W.L.	16 m³

WEIGHTS	
COMPLETE-DRY	1100 TON
OPERATING	200 TON
FLOODED	4050 TON
SHUT DOWN	1950 TON

REFERENCE DOCUMENT	
SIZING CALCULATION FOR CONDENSER	TJB56-L1-OFF-C-MAG-M-CAL-2300
FOUNDATION OUTLINE FOR CONDENSER	TJB56-L1-OFF-C-MAG-M-DRN-3017
OUTLINE DRAWING FOR CONDENSER	TJB56-L1-OFF-C-MAG-M-ORD-2625
STRENGTH CALCULATION FOR CONDENSER	TJB56-L1-OFF-C-MAG-M-CAL-2412

KKS NO.	
UNIT 5	50MAG10 AC010
UNIT 6	60MAG10 AC010

REV	DATE	DESCRIPTION	BY	CHKD	APPD
4	MAR.04,'22	ISSUED FOR AS-BUILT	BJS	KJS	KJS
3	OCT.23,'20	REVISED AS PER CUSTOMER'S COMMENT	BJS	KJS	KJS
2	JUL.28,'20	REVISED AS PER CUSTOMER'S COMMENT	BJS	KJS	KJS
1	SEP.5,'19	REVISED AS PER DESIGN PROGRESS	BJS	HJY	KJS
0	JUL.11,'19	REVISED AS PER CUSTOMER'S ACCEPTANCE	BJS	HJY	KJS

OWNER: PT.Bhumi Jati Power
PROJECT TITLE: TANJUNG JATI B EXPANSION (JAWA-4) COAL FIRED STEAM POWER PLANT 2 x 1,000 MW
OWNER'S ENGINEER: POYRY
EPC CONTRACTORS: Sumitomo Corporation / PT. Wasa Mitra Engineering / AvantPower Japan Ltd.
PROJECT DRAWING NO.: TJB56-L1-UKT-C-MAG-M-UKU-Z128 REV 4
SCALE: 1:60
TITLE: SECTION DRAWING FOR CONDENSER
EPC LOT SUB-CONTRACTOR: TOSHIBA
EPC LOT SUB-CONTRACTOR DRAWING NO.: 1KV009596 REV H
SHEET NO.: 1 OF 3

承認 APPROVED BY	調査 REVIEWED BY	作成 PREPARED BY
K.Saito AUG.-09-'18	Tamanouchi AUG.-09-'18	S.Kurita AUG.-09-'18

SCALE 1:60
TOSHIBA 東芝エネルギーシステムズ株式会社 TOSHIBA ENERGY SYSTEMS & SOLUTIONS CORPORATION
T 保留 REGISTERED FEB.-04.'22
名称 TITLE: SECTION DRAWING FOR CONDENSER
2x1000MW Tanjung Jati B Re-Expansion Project
TJB 5&6
図面番号 DRAWING NO.: 1KV009596 (H) REV. MARK
電子承認システム適用 ISO

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