



**"AS - BUILT"**

#### NOTES:

- CONTRACTOR TO DECIDE ON FIELD WELDS AND EXTRA SPOOL LENGTH WHEREVER NECESSARY.
- WELD NO. ① TO ⑭, ②⑨ TO ③④

#### DESIGN DATA

1. DESIGN PRESSURE	: 241.3 BARG
2. OPERATING TEMPERATURE	: 49° C
3. HYDROSTATIC TEST PRESSURE	: 5248 Psig
4. CORROSION ALLOWANCE	: 1/8"
5. RADIOGRAPHY	: 100%
6. INSULATION	: NO
7. INSPECTION BY	: GSI (QC)
8. PWHT	: YES (FOR W.T. ABOVE 19mm)

#### BILL OF MATERIAL

PT NO	COMPONENT DESCRIPTION	N.S. (INS)	PIPE SPEC.	QTY
1	PIPE SMLS BE XXS A106 GR.B, NACE	6	G1	15.0M
2	REDUCING TEE BW XXS A234 GR.VPB, NACE	6 x 3	G1	1
3	WELDOLET XXS A105, NACE	6 x 1 1/2	G1	2
4	WELDOLET XXS A105, NACE	6 x 3/4	G1	1
5	90 DEG LR ELBOW SMLS BW XXS A234 GR.VPB	6	G1	4
6	FLANGE 2500LB WN RTJ XXS A105, NACE	6	G1	3
7	FLANGE 2500LB WN RTJ XXS A105, NACE	3	G1	1
8	FLANGE 2500LB WN RTJ XXS A105, NACE	1 1/2	G1	2
9	FLANGE 2500LB WN RTJ XXS A105, NACE	3/4	G1	1
ERECTION MATERIALS				
PT NO	COMPONENT DESCRIPTION	N.S. (INS)	PIPE SPEC.	QTY
10	R47 OVAL RING SOFT IRON BHN90 ZINC COATED	6	G1	3
11	R23 OVAL RING SOFT IRON BHN90 ZINC COATED	1 1/2	G1	2
12	R16 OVAL RING SOFT IRON BHN90 ZINC COATED	3/4	G1	1
13	360 MM LG STUD BOLTS C/W NUTS A193 GR.B7/A194 GR.2H HOT-DIP GALV. COATED	2	G1	24
14	200 MM LG STUD BOLTS C/W NUTS A193 GR.B7/A194 GR.2H HOT-DIP GALV. COATED	1 1/8	G1	8
15	185 MM LG STUD BOLTS C/W NUTS A193 GR.B7/A194 GR.2H HOT-DIP GALV. COATED	3/4	G1	4
16	DB&B SLIM-LINE INSTRUMENT MONOFLANGE 2500LB PER PIPING SPEC. G1	3/4	G1	1
17	901TW 147	1 1/2		1
18	901TW 146	1 1/2		1
19	901PT 145	3/4		1
SUPPORTS				
20	STD TTI CLAMP	6	G1	4
21	WELDOLET XXS A105, NACE	6 x 2	G1	2
22	FLANGE 2500LB WN RTJ XXS A105, NACE	2	G1	2
23	R26 OVAL RING SOFT IRON BHN90 ZINC COATED	2	G1	2
24	185 MM LG STUD BOLTS C/W NUTS A193 GR.B7/A194 GR.2H HOT-DIP GALV. COATED	1	G1	16
25	BLIND FLANGE 2500LB RTJ A105, W/1/2" NB HOLE	2	G1	1
26	BLIND FLANGE 2500LB RTJ A105, W/3/4" NB HOLE	2	G1	1
27	CHECK VALVE THREADED, CLASS 2500	1/2	G1	1
28	NEEDLE VALVE THREADED, CLASS 2500	1/2	G1	1
29	EQUAL TEE SCRD 6000LB ASTM A105	1/2 x 1/2	G1	3
33	BALL VALVE CLASS 2500, NPT	1/2	G1	2
34	PLUG SCRD 6000LB ASTM A105	1/2	G1	2
35	BALL VALVE SW, CLASS 2500	3/4	G1	1
36	90 DEG ELBOW SW 6000LB A105, NACE	3/4	G1	1
37	CONC SWAGE PEXTE SCH XXS A106 GR.B, NACE	3/4 x 1/2	G1	1
38	75mm LG PIPE NIPPLE TBE SXXS A106 GR.B	1/2	G1	1
39	75mm LG PIPE NIPPLE PBE SXXS A106 GR.B	3/4	G1	1

REV. NO	DESCRIPTION OF REVISION	BY	CHKD	APPD	DATE
0	APPROVED FOR CONSTRUCTION	NN	CG	SD	17.04.08
1	REVISED PWHT	FT	BS	SD	16.05.08
2	AS BUILT	FT	CG	SD	07.06.10
3	MODIFIED & ISSUED FOR CONSTRUCTION	RAGU	BS	SD	02.03.11
4	MODIFIED & ISSUED FOR CONSTRUCTION	RAGU	BS	SD	17.03.11
5	MODIFIED & ISSUED FOR CONSTRUCTION	RAGU	BS	SD	05.05.11
6	AS BUILT	AR	RAGU	SD	09.04.12

CLIENT :	<b>OOG TK</b> FPSO
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PROJECT :	FPSO PETROJARL CIDADE DEITAJAI	JOB NO.	21-9791
TITLE :	PIPING ISOMETRIC	QUANTITY :	1
LINE NO	901-6"-PG-1021A-G1 (SHT.1/3) 901-6"-PG-1021B-G1 (SHT.1/3)	CLASS :	ABS
PROJECT	EG	TRIP NO.	7000-04-L-26-XN-05121

DISCIPLINE SIGN	APPROVED BY	SD
PROCESS	AR	CHECKED BY
MECHANICAL	VC	DRAWN BY
PIPING	MH	RAGU
STRUCTURAL	WCH	SCALE
E & I	AK	N.T.S
PROJECT	EG	ACAD DIS
		6375-5121-42_X0
		JOB NO
		6375
		DIS. NO
		GSI-6375-5121
		SHT
		42
		REV
		X0
<b>JURONG SHIPYARD PTE LTD</b> (A subsidiary of SembCorp Marine Ltd)		
ENGINEERING DEPARTMENT		
XXX SECTION		