

**"AS - BUILT"**

NOTES:

1. CONTRACTOR TO DECIDE ON FIELD WELDS AND EXTRA SPOOL LENGTH WHEREVER NECESSARY.
2. WELD NO. (1) TO (8) & (3A)

## BILL OF MATERIAL

## FABRICATION MATERIALS

PT NO	COMPONENT DESCRIPTION	N. S. (INS)	PIPE SPEC.	QTY
1	PIPE SMLS BE SCH 80 A106 GR. B, NACE	8	D1	13.4M
2	45 DEG ELBOW SMLS BW SCH 80 A234 GR. WPB, NACE	8	D1	2
3	90 DEG LR ELBOW SMLS BW SCH 80 A234 GR. WPB, NACE	8	D1	2
4	FLANGE 600LB WN RF SCH 80 A105, NACE	8	D1	1

ERECTION MATERIALS

PT NO	COMPONENT DESCRIPTION	N. S. (INS)	PIPE SPEC.	QTY
5	SPIRAL WOUND GASKET 600LB RF 4.5mm THK SS316 WINDING/GRAPHITE FILLER W/3mm THK CS CENTERING RING, ZINC COATED	8	D1	1
6	195 MM LG STUD BOLTS C/W NUTS A193 GR. B7/A194 GR. 2H HOT-DIP GALV. COATED	1. 1/8	D1	12

## SUPPORTS

7	STD TTI CLAMP	8	D1	1
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[illegible]

CLIENT :



PROJECT:

FPSO CIDADE DE ITAJAÍ

JOB NO.	21-9791
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QUANTITY:	1
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TITLE:  
PIPING ISOMETRIC


	LINE NO
C	901-8"-PG-1010A-D1 (SHT.1/2)
	901-8"-PG-1010B-D1 (SHT.1/2)

CLASS :	ABC
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TEPJ DRAWING. NO.  
7000-04-L-26-XN-05121

## DESIGN DATA

1. DESIGN PRESSURE	: 56.2 BARG
2. OPERATING TEMPERATURE	: 49° C
3. HYDROSTATIC TEST PRESSURE	: 84.3 BARG
4. CORROSION ALLOWANCE	: 1/8"
5. RADIOGRAPHY	: 100%
6. INSULATION	: NO
7. INSPECTION BY	: GSI (QC)
8. PWHT	: NO

GSI DISCIPLINE SIGN		APPROVED BY		SD		 <b>wasco</b> Gas Services International (S) Pte Ltd						
PROCESS	AK	CHECKED BY		CG								
MECHANICAL	VC	DRAWN BY		SHU								
PIPING	MH	SCALE		N.T.S								
STRUCTURAL	WKH											
E & I	AK											
PROJECT	EG	ACAD DWG NO.		6375-5121-18 XD		JOB NO.	K375	EST DGS. NO.	GSI-G375-5121	SHT	REV	NO

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Gas Services International (S) Pte Ltd

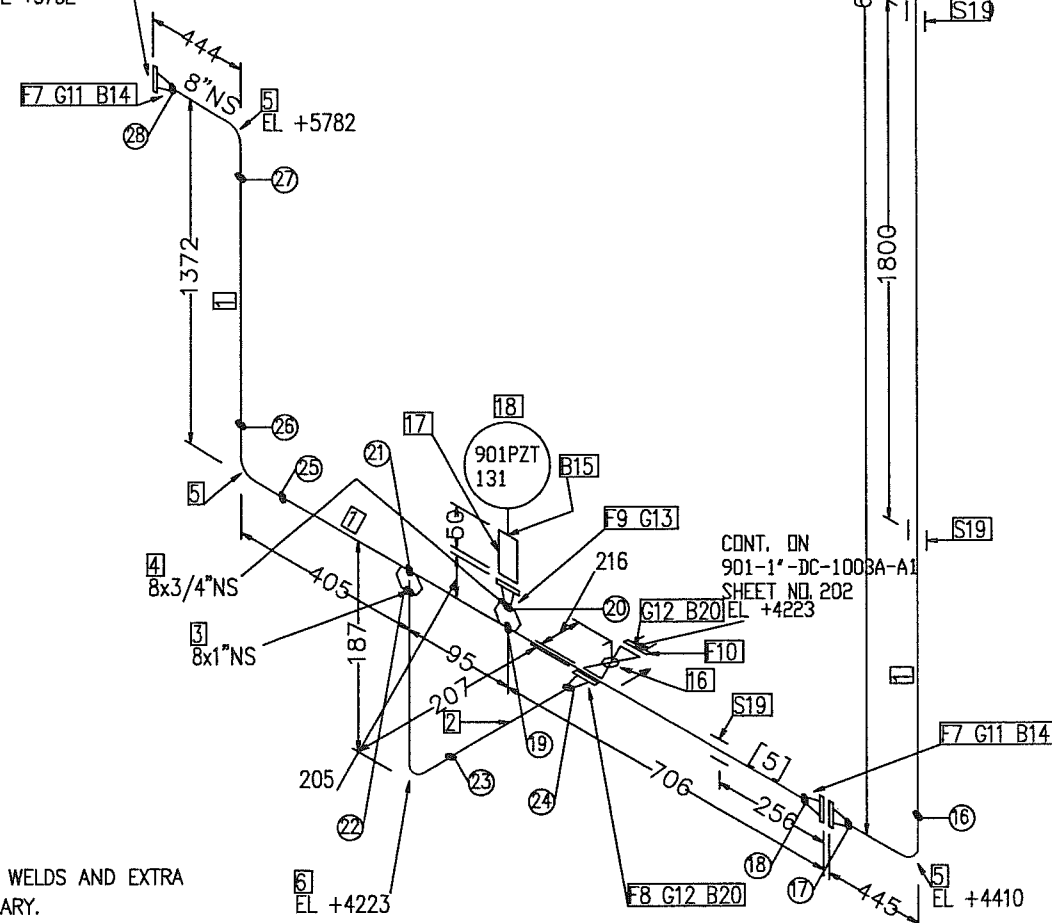

**JURONG SHIPYARD PTE LTD**

ENGINEERING DEPARTMENT      XXX      SECTION





CONN. TO  
901V6103A-N1  
EL +5782



#### NOTES:

1. CONTRACTOR TO DECIDE ON FIELD WELDS AND EXTRA SPOOL LENGTH WHEREVER NECESSARY.
2. WELD NO. (14) TO (28)

CONT. FROM  
DRG 1

F7 G11 B14

UPPER DECK TOS EL 6000

3010

6000

1800

S19

S19

S19

S19

EL +4410

CONT. ON  
901-1'-DC-1003A-A1  
SHEET NO. 202  
EL +4223

"AS - BUILT"

#### DESIGN DATA

- |                              |             |
|------------------------------|-------------|
| 1. DESIGN PRESSURE           | : 56.2 Barg |
| 2. OPERATING TEMPERATURE     | : 49° C     |
| 3. HYDROSTATIC TEST PRESSURE | : 84.3 Barg |
| 4. CORROSION ALLOWANCE       | : 1/8"      |
| 5. RADIOGRAPHY               | : 100%      |
| 6. INSULATION                | : NO        |
| 7. INSPECTION BY             | : GSI (QC)  |
| 8. PWHT                      | : NO        |

## BILL OF MATERIAL

### FABRICATION MATERIALS


PT NO	COMPONENT DESCRIPTION	N.S. (INS)	PIPE SPEC	QTY
PIPE				
1	PIPE SMLS BE SCH 80 A106 GR. B, NACE	8	D1	7.2M
2	PIPE SMLS BE SCH 160 A106 GR. B, NACE	1	D1	75MM
FITTINGS				
3	WELDOLET SCH 80 x SCH 160 A105, NACE	8 x 1	D1	1
4	WELDOLET SCH 80 x SCH 160 A105, NACE	8 x 3/4	D1	1
5	90 DEG LR ELBOW SMLS BW SCH 80 A234 GR. WPB, NACE	8	D1	4
6	90 DEG LR ELBOW SMLS BW SCH 160 A234 GR. WPB, NACE	1	D1	1
FLANGES				
7	FLANGE 600LB WN RF SCH 80 A105, NACE	8	D1	5
8	FLANGE 600LB WN RF SCH 160 A105, NACE	1	D1	1
9	FLANGE 600LB WN RF SCH 160 A105, NACE	3/4	D1	1
FLANGES				
10	FLANGE 600LB SW RF SCH 160 A105, NACE	1	D1	1
GASKETS				
11	SPIRAL WOUND GASKET 600LB RF 4.5mm THK SS316 WINDING/GRAPHITE FILLER V/3mm THK CS CENTERING RING, ZINC COATED	8	D1	3
12	SPIRAL WOUND GASKET 600LB RF 4.5mm THK SS316 WINDING/GRAPHITE FILLER V/3mm THK CS CENTERING RING, ZINC COATED	1	D1	2
13	SPIRAL WOUND GASKET 600LB RF 4.5mm THK SS316 WINDING/GRAPHITE FILLER V/3mm THK CS CENTERING RING, ZINC COATED	3/4	D1	1
14	195 MM LG STUD BOLTS C/W NUTS A193 GR. B7/A194 GR. 2H HOT-DIP GALV. COATED	1.1/8	D1	36
15	145 MM LG STUD BOLTS C/W NUTS A193 GR. B7/A194 GR. 2H HOT-DIP GALV. COATED	5/8	D1	4
16	BALL VALVE 600# RF AS PER PIPE SPEC D1	1	D1	1
17	PER PIPING SPEC. D1 INSTRUMENTS	3/4	D1	1
18	901PZT-131 SUPPORTS	3/4		1
19	STD TTI CLAMP	8	D1	4
20	95 MM LG STUD BOLTS C/W NUTS A193 GR. B7/A194 GR. 2H HOT-DIP GALV. COATED	5/8	D1	8

XO	AS BUILT	AR	RAGU	SD	09.04.12
3	REVISED AS SHOWN	RAGU	BS	SD	01.12.11
2	ADDED LOW POINT DRAIN	RAGU	BS	SD	25.08.11
1	AS BUILT	FT	BS	SD	07.06.10
0	APPROVED FOR CONSTRUCTION	SHU	CG	SD	27.03.08
REV. NO	DESCRIPTION OF REVISION	BY	CHKD	APPD	DATE

CLIENT :

OOG K  
FPSO

PROJECT :	FPSO CIDADE DEITAJAI	JOB NO.	21-9791
TITLE :	PIPING ISOMETRIC	QUANTITY :	1
LINE NO	901-8"-PG-1010A-D1 (SHT.2/2) 901-8"-PG-1010B-D1 (SHT.2/2)	CLASS :	ABS
		TOPIC DRAWING NO.	7000-04-L-26-XN-05121

BSI DISCIPLINE SIGN	APPROVED BY	SD		Gas Services International (S) Pte Ltd		
PROCESS	VC	CHECKED BY				
MECHANICAL	VC	DRAWN BY				
PIPING	VC	SCALE				
STRUCTURAL	WCH	SCALE	N.T.S			
E & I	AK	ACAD DWS	EG	JOB NO.	6375	BSI DWS. NO.
PROJECT	EG	6375-5121-20_XO		6375	6375-5121	SHT 20
			JURONG SHIPYARD PTE LTD			REV1
			(A subsidiary of SembCorp Marine Ltd)			XO
			ADDED ENGINEERING DEPARTMENT			
			LOW POINT DRAIN			