

**"AS - BUILT"**

#### NOTES:

- CONTRACTOR TO DECIDE ON FIELD WELDS AND EXTRA SPOOL LENGTH WHEREVER NECESSARY.
- WELD NO. ① TO ⑬

## 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	11.1M
2	WELDOLET SCH 80 x SCH 160 A105, NACE	8 x 1.1/2	D1	1
3	WELDOLET SCH 80 x SCH 160 A105, NACE	8 x 3/4	D1	1
4	90 DEG LR ELBOW SMLS BW SCH 80 A234 GR. WPB, NACE	8	D1	3
5	45 DEG ELBOW SMLS BW SCH 80 A234 GR. WPB, NACE	8	D1	1
6	FLANGE 600LB WN RF SCH 80 A105, NACE	8	D1	1
7	FLANGE 600LB WN RF SCH 160 A105, NACE	1.1/2	D1	1
8	FLANGE 600LB WN RF SCH 160 A105, NACE	3/4	D1	1

### ERECTION MATERIALS


PT NO	COMPONENT DESCRIPTION	N. S. (INS)	PIPE SPEC.	QTY
9	SPIRAL WOUND GASKET 600LB RF 4.5mm THK SS316 WINDING/GRAPHITE FILLER W/3mm THK CS CENTERING RING, ZINC COATED	8	D1	2
10	SPIRAL WOUND GASKET 600LB RF 4.5mm THK SS316 WINDING/GRAPHITE FILLER W/3mm THK CS CENTERING RING, ZINC COATED	1.1/2	D1	1
11	SPIRAL WOUND GASKET 600LB RF 4.5mm THK SS316 WINDING/GRAPHITE FILLER W/3mm THK CS CENTERING RING, ZINC COATED	3/4	D1	1
12	220 MM LG STUD BOLTS C/W NUTS A193 GR. B7/A194 GR. 2H HOT-DIP GALV. COATED	1.1/8	D1	12
13	115 MM LG STUD BOLTS C/W NUTS A193 GR. B7/A194 GR. 2H HOT-DIP GALV. COATED	3/4	D1	4
14	145 MM LG STUD BOLTS C/W NUTS A193 GR. B7/A194 GR. 2H HOT-DIP GALV. COATED	5/8	D1	4
15	DB&B SLIM-LINE INSTRUMENT MONOFLANGE 600LB PER PIPING SPEC. D1	3/4	D1	1
16	901RD 124	8		1
17	901TW 125	1.1/2		1
18	901PZT 125	3/4		1

REV. NO	DESCRIPTION OF REVISION	BY	CHKD	APPD	DATE
0	APPROVED FOR CONSTRUCTION	SHU	CG	SD	27.03.08
1	REVISED PER P&ID CHANGES	NN	CG	SD	17.04.08
2	REVISED AS NOTED	NN	CG	SD	14.05.08
3	AS BUILT	FT	BS	SD	07.06.10
X0	AS BUILT	AR	RAGU	SD	09.04.12

CLIENT :	<b>OOG</b> FPSO
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PROJECT :	FPSO CIDADE DEITAJAI	JOB NO.	21-9791
TITLE :	PIPING ISOMETRIC	QUANTITY :	1
LINE NO.	901-8"-PG-1009A-D1 (SHT.1/2)	CLASS :	ABS
	901-8"-PG-1009B-D1 (SHT.1/2)	TRNG DRAWING NO.	7000-04-L-26-XN-05121


BSI DISCIPLINE SIGN		APPROVED BY		SD	
PROCESS	AR	CHECKED BY		CG	
MECHANICAL	VC	DRAWN BY		SHU	
PIPING	WY	SCALE		N.T.S	
STRUCTURAL	WCH				
E & I	AK				
PROJECT	EG	ACAD DIB 1 G375-S121-17_X0		JOB NO: K375	BSI DIB. NO: GSI-G375-S121
				SHT 17	REV X0



JURONG SHIPYARD PTE LTD

(A subsidiary of SembCorp Marine Ltd)

SEMPACOR






Gas Services International (S) Pte Ltd

ENGINEERING DEPARTMENT

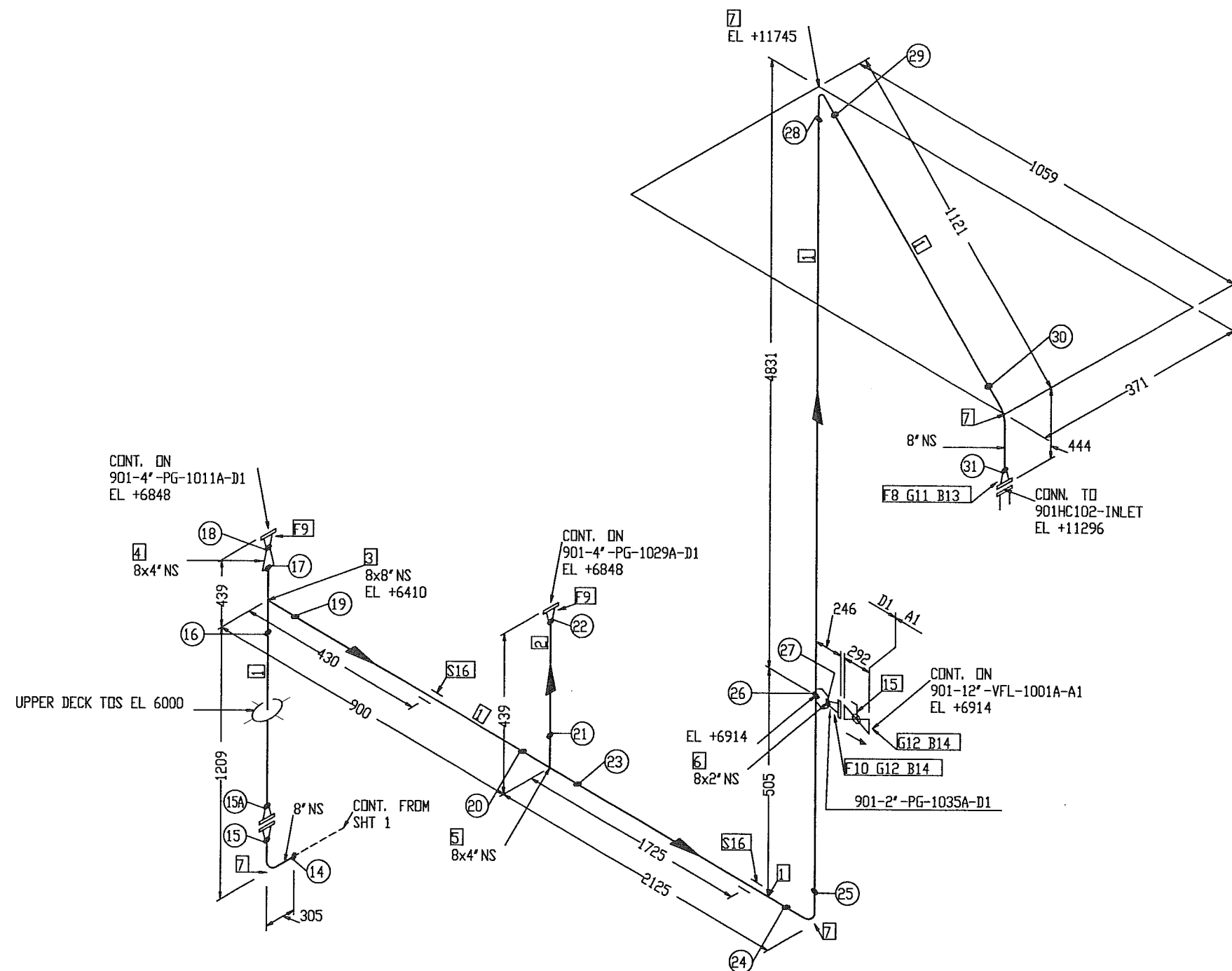
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SECTION



ISO 9001

Certificate Number 3103



**"AS - BUILT"**

**NOTES:**

1. CONTRACTOR TO DECIDE ON FIELD WELDS AND EXTRA SPOOL LENGTH WHEREVER NECESSARY.
2. WELD NO. (14) TO (31)

**DESIGN DATA**

- |                              |             |
|------------------------------|-------------|
| 1. DESIGN PRESSURE           | : 56.2 BARG |
| 2. OPERATING TEMPERATURE     | : 98° C     |
| 3. HYDROSTATIC TEST PRESSURE | : 84.3 BARG |
| 4. CORROSION ALLOWANCE       | : 1/8"      |
| 5. RADIOGRAPHY               | : 100%      |
| 6. INSULATION                | : PP        |
| 7. INSPECTION BY             | : GSI (QC)  |
| 8. PWHT                      | : NO        |

**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	8.2M
2	PIPE SMLS BE SCH 80 A106 GR. B, NACE	4	D1	0.2M
3	EQUAL TEE BW SCH 80 A234 GR. WPB, NACE	8 x 8	D1	1
4	CONC RED BW SCH 80 A234 GR. WPB, NACE	8 x 4	D1	1
5	REDUCING TEE BW SCH 80 A234 GR. WPB, NACE	8 x 4	D1	1
6	WELDOLET SCH 80 x SCH 160 A105, NACE	8 x 2	D1	1
7	90 DEG LR ELBOW SMLS BW SCH 80 A234 GR. WPB, NACE	8	D1	4
8	FLANGE 600LB WN RF SCH 80 A105, NACE	8	D1	1
9	FLANGE 600LB WN RF SCH 80 A105, NACE	4	D1	2
10	FLANGE 600LB WN RF SCH 160 A105, NACE	2	D1	1

**ERECTION MATERIALS**

PT NO	COMPONENT DESCRIPTION	N. S. (INS)	PIPE SPEC.	QTY
11	SPIRAL WOUND GASKET 600LB RF 4.5mm THK SS316 WINDING/GRAPHITE FILLER W/3mm THK CS CENTERING RING, ZINC COATED	8	D1	1
12	SPIRAL WOUND GASKET 600LB RF 4.5mm THK SS316 WINDING/GRAPHITE FILLER W/3mm THK CS CENTERING RING, ZINC COATED	2	D1	2
13	195 MM LG STUD BOLTS C/W NUTS A193 GR. B7/A194 GR. 2H HOT-DIP GALV. COATED	1. 1/8	D1	12
14	115 MM LG STUD BOLTS C/W NUTS A193 GR. B7/A194 GR. 2H HOT-DIP GALV. COATED	5/8	D1	16
15	BALL VALVE 600LB RF, BV-29 (CSC)	2	D1	1

**SUPPORTS**

16	STD TTI CLAMP	8	D1	2
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X0	AS BUILT	AR	RAGU	SD	09.04.12
2	AS BUILT	FT	BS	SD	07.06.10
1	REVISED PER P&ID CHANGES	NN	CG	SD	14.04.08
0	APPROVED FOR CONSTRUCTION	SHU	CG	SD	27.03.08
REV. NO	DESCRIPTION OF REVISION	BY	CHKD	APPD	DATE

CLIENT :

**OOG TK**  
FPSO

PROJECT :

**FPSO CIDADE DEITAJAI**

JOB NO. 21-8791

QUANTITY: 1

TITLE:

**PIPING ISOMETRIC**

LINE NO

901-8"-PG-1009A-D1 (SHT.2/2)  
901-8"-PG-1009B-D1 (SHT.2/2)

CLASS :

ABS

TOP DRAWING NO. 7000-04-L-26-XN-05121

GSI DISCIPLINE SIGN

APPROVED BY

SD

PROCESS

AK

CG

MECHANICAL

VC

CG

PIPING

WV

SHU

STRUCTURAL

WVH

N.T.S

E & I

AK

N.T.S

PROJECT

EG

6375-5121-18\_X0

K375

GSI-6375-5121

SHT 18

REV X0

JSL

**JURONG SHIPYARD PTE LTD**

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SINGAPORE

ENGINEERING DEPARTMENT XXX SECTION

