



## BONGA NORTH EPC 1

JOB CARD NUMBER: A02.L1-TI-0012

WORKPACK NUMBER: A02

### JOB CARD INFORMATION

PREPARED BY: Vitor Pereira	DATE OF: 20/06/2025	REV.: 53	STATUS: checked
APPROVED BY: None	DATE OF:		
SUBSYSTEM: 03-03A_BN	DISCIPLINE: TIE-IN	WORKING CODE: TDA	
SYSTEM: 03	LOCATION: A02	SEQUENTIAL NUMBER:	
TAG: TP-01	TOTAL MAN-HOURS: 83.00	MATERIAL:	
JOB CARD DESCRIPTION:			
COMMENTS: None			
ACTIVITY ID P6: CST-EPC1-6450	HOT-WORK REQUIRED: NO	TOTAL WEIGHT (kg): 0	TOTAL DURATION (hs): 10.00

### DETAILED DESCRIPTION OF WORK

TASK NUMBER	TASK DESCRIPTION	COMPLETED?	% M/h
12	Perform leak test		40,96%
13	Paint touch up		59,04%

### MAN-HOUR - DESCRIPTION

ITEM	TASK NUMBER	DIRECT LABOR	MAN-H	QTY
1	12	Foreman	3,00	1,00
2	12	Welder	5,00	2,00
3	12	Firewatch	4,00	1,00
4	12	Mechanical assembler	5,00	1,00
5	12	Pipe fitter	2,00	4,00
6	12	Rigger_M	4,00	1,00
7	13	Foreman	5,00	1,00
8	13	Welder	4,00	2,00
9	13	Firewatch	5,00	1,00
10	13	Mechanical assembler	5,00	1,00
11	13	Pipe fitter	4,00	4,00
12	13	Rigger_M	5,00	1,00
13	13	Scaffolder	5,00	1,00
TASK NUMBER			MAN-H	DURATION (hs)
12			34,00	5,00
13			49,00	5,00

### ERECTION MATERIALS

ITEM	DESCRIPTION	DIM	PMTO CODE	QTY	COMMENTS
1	PIPE, CARBON STEEL, DIMENSIONS ACCORDING ASME B36.10, MATERIAL ASTM A333 GR.6 - SEAMLESS, BEVELLED ENDS ASME B16.25, ACCORDING NACE MR0175.		PAPAA.100.00895	1,30	TAM 2026
2	FLANGE, WN, RF, CL600, ASME B16.5 ASTM A105, NACE MR-01-75 SCH 100		PAAAA.160.00086E	2,00	TAM 2026
3	FLANGE BLIND, RF, CL600 ASME B16.5 ASTM A 105 NACE MR-01-75 SCH 100		PAAAA.160.00086E	1,00	TAM 2026
4	FLANGE, WN, RF, CL600, ASME B16.5 ASTM A105, NACE MR-01-75 SCH 100		PAAAA.140.00086	2,00	TAM 2026
5	FLANGE BLIND, RAISED FACE, CLASS 600 ASME B16.5, CARBON STEEL ASTM A105, NACE MR-01-75/ISO15156 (1) Controlled Hardness per NACE MR-0175; SCH 100.		N/A	2,00	TAM 2026
6	REDUCING TEE, SMLS, ASTM A420 GR WPL6, BUTT WELD, ASME B16.9, NACE MR-01-75/ISO15156		PAFTF.160.05003	2,00	TAM 2026
7	300 STUDBOLT WITH NUTS, ASTM A193-B7/A194-2H WITH HOT-DIP GALVANISED		300_BOLT_OPT211	20,00	TAM 2026
8	STUD BOLT WITH 2 HEAVY HEXAGONAL NUTS, BOLT MATERIAL ASTM A193 Gr B7, NUTS MATERIAL HEX HEAVY ASTM A194 Gr 2H; BOLT THREAD TYPE, - 1 - ASME B1.1, UNC 2A; 1 ? - 3 - ASME B1.1, UN 2A - 8 thd/in; NUT THREAD TYPE - 1 - ASME B1.1, UNC 2B; 1 ? - 3 - ASME B1.1, UN 2B - 8 thd/in; COATING ZINC PLATED PER ASTM B633 (ASME B16.5), SC2 (0.0003 PLATING THICKNESS), TYPE II (WITH A SUPPLEMENTARY YELLOW CHROMATE TREATMENT).		N/A	40,00	TAM 2026
9	STUD BOLT WITH 2 HEAVY HEXAGONAL NUTS, BOLT MATERIAL ASTM A193 Gr B7, NUTS MATERIAL HEX HEAVY ASTM A194 Gr 2H; BOLT THREAD TYPE, - 1 - ASME B1.1, UNC 2A; 1 ? - 3 - ASME B1.1, UN 2A - 8 thd/in; NUT THREAD TYPE - 1 - ASME B1.1, UNC 2B; 1 ? - 3 - ASME B1.1, UN 2B - 8 thd/in; COATING ZINC PLATED PER ASTM B633 (ASME B16.5), SC2 (0.0003 PLATING THICKNESS), TYPE II (WITH A SUPPLEMENTARY YELLOW CHROMATE TREATMENT).		N/A	20,00	TAM 2026
10	GASKET, SPIRAL WOUND NON-ASBESTOS FLEXITE SUPER FILLER WITH STAINLESS STEEL AISI 304 WINDINGS, FLEXITALLIC STYLE CG OR SDDS APPROVED EQ ASME B16.20, RF CLASS 600, THK 3.2 mm, ASME B16.20 FOR STANDARD.		PZGAY.160.00002	2,00	TAM 2026
11	KaMOS GASKET RF CL. 600.		K6CS-CL600RF.16	2,00	TAM 2026
12	PADDLE BLANK AND SPACER; ASTM A516 GR. 70; CARBON STEEL; ASME B16.48 STANDARD; CLASS 600; BETWEEN FLANGES, ASME B16.5, RAISED FACE, FINISHING SPIRAL SERRATED, MINI 125 TO MAX 250 AARH; THE MATERIAL SHALL BE COMPLIANT WITH THE NACE MR-01-75 / ISO 15156 STANDARD REQUIREMENTS.		N/A	1,00	TAM 2026
13	Trunion Pipe supports and base plate Plate 15mm Thk. S355 (0.5m x 0.5m) Pipe 8 Sch.80 ASTM A 106 GR B SMLS (1.5mtr length)		N/A	1,00	TAM 2026

### EQUIPMENT & SPECIAL TOOLING

ITEM	SPECIAL TOOLING	QTY	ITEM	SPECIAL TOOLING	QTY
1	10 LOCKING PLIERS	1,00	1	12 FLAT, ROUND, HALF-ROUND, AND SQUARE FILES	1,00
2	8 INSULATED UNIVERSAL PLIERS	1,00	2	HYDRAULIC JACK, 5 TON	1,00
3	12 ADJUSTABLE HACKSAW	1,00	3	BALL-PEEN HAMMER 500 g, 1000 g	1,00
4	WOODEN FILE HANDLE	1,00	4	IRON LEVEL	1,00
5	ALLEN WRENCH 1/16, 3/32, 1/8, 3/16, 1/4	1,00	5	300 g CENTER PLUMB	1,00
6	SCREWDRIVER 3/16 x 4, 1/4 x 6, 1/4 x 8, 5/16 x 10	1,00	6	PUNCH	1,00
7	OPEN-END WRENCH 1/4 x 5/16, 3/8 x 7/16, 1/2 x 9/16, 1/4 x 25/32, 1 x 5/16	1,00	7	SCRIBER	1,00
8	12 ADJUSTABLE WRENCH	1,00	8	MANUAL HOIST, 1 TON	1,00
9	10 HALF-MOON COMPASS	1,00	9	CHISEL	1,00
10	300 mm STAINLESS STEEL RULER	1,00	10	TIRFOR, 1.6 TON	1,00
11	STEEL BRUSH	1,00	11	BOMBA DE TESTE HIDROST.	1,00
12	CARPENTER'S SQUARE	1,00	12	LIXADEIRA	1,00
			13	TALHA MANUAL, 1 TON	1,00

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QC INSPECTOR	SNEPCo	MABU
SIGNATURE	SIGNATURE	SIGNATURE
NAME	NAME	NAME
DATE	DATE	DATE



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### SAFETY - CONDITIONS & RECOMMENDATIONS

<input type="checkbox"/> PPE GENERAL	<input type="checkbox"/> COLD WORK PERMIT	<input type="checkbox"/> FIRE EXTINGUISHER	<input type="checkbox"/> FALL PROTECTION	<input type="checkbox"/> MARINE SAFETY
<input type="checkbox"/> BLIND ISOLATION SYSTEM	<input type="checkbox"/> HOT WORK PERMIT	<input type="checkbox"/> FIRE WATCH	<input type="checkbox"/> SPARK PROTECTION	<input type="checkbox"/> SEVERE WEATHER PREP
<input type="checkbox"/> JOB SAFETY ANALYSIS	<input type="checkbox"/> BARRICADES	<input type="checkbox"/> DIVER SAFETY	<input type="checkbox"/> SIMULTANEOUSLY DRILL	<input type="checkbox"/> ENVIRONMENTAL PROTECTION
<input type="checkbox"/> GAS LEAK PROTECTION	<input type="checkbox"/> LIFTING PLAN	<input type="checkbox"/> HAZARDOUS MATERIAL	<input type="checkbox"/> WEATHER PROTECTION REQUIRED	<input type="checkbox"/> PPE SPECIAL

OTHER/COMMENTS:


### QUALITY CONTROL AND INSPECTION

CQ FORMS:

### ENGINEERING DOCUMENTS

Discipline	Document	Tag	Rev .	Status
T IE-IN	BNO-NET CO-300-PX-2365-21014-001	TP-01	02A	None
T IE-IN	BNO-NET CO-300-PX-2365-21024-001	TP-01	02A	None

### COMPANY COMMENTS

JobCardNº: A02.L1-TI-0012	QC INSPECTOR	SNEPCo	MABU
	SIGNATURE	SIGNATURE	SIGNATURE
	NAME	NAME	NAME
	DATE	DATE	DATE