

MAN-HOUR - DESCRIPTION

## BONGA NORTH EPC 1

JOB CARD NUMBER: **A02.L1-TI-0012** WORKPACK NUMBER: A02

AND DE WESTERN TON						
JOBCARD INFORMATION						
PREPARED BY: Vitor Pereira DATE OF: 20/06/2025		25	REV.:		STATUS: None	
APPROVED BY: None DATE OF:						
SUBSYSTEM: 03-03A_BN		DISCIPLINE: TIE-IN W		WORKING CODE: TDA		
SYSTEM: 03		LOCATION: A02		SEQUENTIAL NUMBER:		
TAG: TP-01		TOTAL MAN-HOURS: 83.00		MATERIAL:		
JOB CARD DESCRIPTION:						
COMMENTS: None						
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ACTIVITY ID P6: CST-EPC1-6450 HOT-WORK REQUIRED: NO		RED: NO	TOTAL WEIGHT (kg): 0		TOTAL DURATION (hs): 10.00	

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

	TASK NUMBER		DURATION (hs)			MAN-H
	12		5,00		34,00	
	13		5,00	5,00		49,00
ITEM	TASK NUMBER		SPECIALIST	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				1,00
7	13	Foreman		5,00		1,00
8	13	Welder		4,00		2,00
9	13	Firewatch		5,00	, and the second	1,00
10	13	Mechanical assembler	Mechanical assembler		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

ERECTION	ERECTION MATERIALS						
ITEM	DESCRIPTION	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 AST M 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_OPT21'1	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/m; NUT THREAD TYPE; -1 -8 SME B1.1, UNC 3A; 1? -3 - ASME B1.1, UNC 3A; 17 -3 -3 END B1.1, UNC 3A; 18 END B1.1, UNC 3A; 18 END B1.1, UNC 3A; 18 END B1.1, UNC	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 -1 ASME B1.1, UNC 2A; 1? -3 - ASME B1.1, UN 2A -8 thd/in; NUT THREAD TYPE; -1 -4 -8 ME B1.1, UNC 2A; 1? -3 - ASME B1.1, UN 2A -8 thd/in; COAT ING ZIMC PLATED PER ASTM B833 (ASME B1.5, SC.2 (0.0003 PLATING THICHNESS), 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, FLEXITALIUS STYLE GO ROS ADDS APPROVED ED ASME BIS 20, RF CLASS 600. THIS 3.2 mm, ASME BIS 4.20 FOR FLANGE ASME BIS.5. THE MATERIAL SHALL BE THE REQUIREMENTS OF THE NACE MR-01-75 / ISO 15156 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; BET WEEN FLANGES, ASME B16.5, RAISED FACE, FINISHING SPIRAL SERRATED, MINI 125 TO MAX 250 AARH; THE MATERIAL SHALL BE COMPLIANT WITH THE NACE WR-01-75 / ISIO 15156 STANDARD REQUIRE MENTS.	N/A	1,00	TAM 2026			
13	Truniion 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 SPECIAL TOOLING ITEM QTY 10 LOCKING PLIERS 1,00 8 INSULATED UNIVERSAL PLIERS 1,00 12 ADJUSTABLE HACKSAW 1,00 WOODEN FILE HANDLE ALLEN WRENCH 1/16, 3/32, 1/8, 3/16, 1/4 SCREWDRIVER 3/16 x 4, 1/4 x 6, 1/4 x 8, 5/16 x 10 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 12 ADJUSTABLE WRENCH 10 HALF-MOON COMPASS 10 300 mm STAINLESS STEEL RULER STEEL BRUSH 11 1,00 CARPENTER'S SQUARE

ITEM	SPECIAL TOOLING	QTY
1	12 FLAT, ROUND, HALF-ROUND, AND SQUARE FILES	1,00
2	HYDRAULIC JACK, 5 TON	1,00
3	BALL-PEEN HAMMER 500 g, 1000 g	1,00
4	IRON LEVEL	1,00
5	300 g CENTER PLUMB	1,00
6	PUNCH	1,00
7	SCRIBER	1,00
8	MANUAL HOIST, 1 TON	1,00
9	CHISEL	1,00
10	TIRFOR, 1.6 TON	1,00
11	BOMBA DE TESTE HIDROST.	1,00
12	LIXADEIRA	1,00
13	TALHA MANUAL, 1 TON	1,00

JobCard №: A02.L1-TI-0012	QCINSPECTOR	SNEPCo	MABU
	SIGNATURE	SIGNATURE	SIGNATURE
	NAME	NAME	NAME
	DATE	DATE	DATE



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JOB CARD NUMBER: A02.L1-TI-0012 WORKPACK NUMBER: A02

SAFETY - CONDITIONS & RECOMMENDAT	TIONS				
PPE E GENERAL	COLD WORK PERMIT	FIRE EXTINGUISHER	FALL PRO	FECTION	MARINE SAFETY
BLIND ISOLATION SYSTEM	HOT WORK PERMIT	FIRE WATCH	SPARK PR	OTECTION	SEVERE WEATHER PREP
JOB SAFETY ANALYSIS	BARRICADES	DIVER SAFETY	SIMULTAN	EOUSLY DRILL	ENVIRONMENTAL PROTECTION
GAS LEAK PROTECTION	LIFTING PLAN	HAZARDOUS MATERIAL	☐ WEATHER	PROTECTION REQUIRED	PPE SPECIAL
OTHER/COMMENTS:	•	•	•		
QUALITY CONTROL AND INSPECTION					
CQ FORMS:					
ENGINEERING DOCUMENTS	<u> </u>				
Discipline	Docu	ument	Tag	Rev.	Status
TIE-IN	BNO-NETCO-300-PX-2365-21014-001		TP-01	02A	None
T IE-IN	BNO-NETCO-300-PX-2365-21024-001		TP-01	02A	None
COMPANY COMMENTS					

JobCard Nº: A02.L1-TI-0012	QC INSPECTOR	SNEPC0	MABU
	SIGNATURE	SIGNATURE	SIGNATURE
	NAME	NAME	NAME
	DATE	DATE	DATE