

## **BONGA NORTH EPC 1**

JOB CARD NUMBER: A02.L1-TI-0012

WORKPACK NUMBER: A02

JOBCARD INFORMATION						
PREPARED BY: Vitor Pereira	DATE OF: 20/06/2025 REV.: 64		REV.: 64		STATUS: checked	
APPROVED BY: None	DATE OF:					
SUBSYSTEM: 03-03A_BN	SUBSYSTEM: 03-03A_BN DISCIPLINE: TIE-IN WORKING CODE: TDA					
SYSTEM: 03		LOCATION: A02		SEQUENTIAL NUMBER:		
TAG: TP-01		TOTAL MAN-HOURS: 54.00		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				TOTAL DURATION (hs): 10.00		

DETAILED DESCRIPTION OF WORK					
TASK NUMBER	TASK DESCRIPTION	COMPLETED?	% M/h		
5	Inspect the welding of the flanges		24,07%		

HOUR - DESCRIPTION					
ITEM	TASK NUMBER	DIRECTLABOR	MAN-H	QTY	
1	5	Foreman	2,00	1,00	
2	5	Welder	3,00	2,00	
3	5	Firewatch	4,00	1,00	
4	5	Mechanical assembler	1,00	1,00	
5	7	Foreman	2,00	1,00	
6	7	Welder	3,00	2,00	
7	7	Firewatch	4,00	1,00	
8	7	Mechanical assembler	5,00	1,00	
9	7	Pipe fitter	6,00	4,00	
TASK NUMBER MAN-H DURATION (hs)					
		5	13,00	4,00	
		7	41,00	6,00	

ERECTION	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.	16	PAPAA.100.00895	1,30	TAM 2026		
2	FLANGE, WN, RF, CL600, ASME B16.5 AST M A105, NACE MR-01-75 SCH 100	16	PAAAA.160.00086E	2,00	TAM 2026		
3	FLANGE BLIND, RF, CL600 ASME B16.5 ASTM A 105 NACE MR-01-75 SCH 100	16	PAAAA.160.00086E	1,00	TAM 2026		
4	FLANGE,WN,RF,CL600,ASME B16.5 ASTM A105, NACE MR-01-75 SCH 100	14	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.	14	N/A	2,00	TAM 2026		
6	REDUCING TEE, SMLS, ASTM A420 GR WPL6, BUTT WELD, ASME B16.9, NACE MR-01-75/ISO15156	16	PAFTF.160.05003	2,00	TAM 2026		
7	300 STUDBOLT WITH NUTS, ASTM A193-B7/A194-2H WITH HOT-DIP GALVANISED	1 1/2	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/in; NUT THREAD TYPE; -1 -8 -8 thd/in; COATMING ZIMC PLATED PER ASTM B633 (ASME B1.5, SC2 (0.0003 PLATING THICHESS), TYPE II (WITH A SUPPLEMENTARY YELLOW CHROMATE TREATMENT).	1 3/8	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 indin; NUT THREAD TYPE; -1 -8 indin; COATING ZIMC PLATED PER ASTM B833 (ASME B1.5, UNC 2A; DE COATING ZIMC PLATED PER ASTM B833 (ASME B1.5, SC 2 (0.0003 PLATING THICHNESS), TYPE II (WITH A SUPPLEMENTARY YELLOW CHROMATE TREATMENT).	1 3/8	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 FLANGE ASME B16.5. THE MATERIAL SHALL BE THE REQUIREMENTS OF THE NACE MR-01-75 / ISO 15156 STANDARD.	16	PZGAY.160.00002	2,00	TAM 2026		
11	KaMOS GASKET RF CL. 600.	16	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, MIN 125 TO MAX 250 AARH; THE MATERIAL SHALL BE COMPLIANT WITH THE NACE WR-01-75 / ISIO 5156 STANDARD REQUIRE MENTS.	16	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	N/A	1,00	TAM 2026		

## EQUIPMENT & SPECIAL TOOLING

ITEM	SPECIAL TOOLING	QTY
1	10 LOCKING PLIERS	1,00
2	8 INSULATED UNIVERSAL PLIERS	1,00
3	12 ADJUSTABLE HACKSAW	1,00
4	WOODEN FILE HANDLE	1,00
5	ALLEN WRENCH 1/16, 3/32, 1/8, 3/16, 1/4	1,00
6	SCREWDRIVER 3/16 x 4, 1/4 x 6, 1/4 x 8, 5/16 x 10	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
8	12 ADJUSTABLE WRENCH	1,00
9	10 HALF-MOON COMPASS	1,00
10	300 mm STAINLESS STEEL RULER	1,00
11	STEEL BRUSH	1,00
12	CARPENTER'S SQUARE	1,00

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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SAFETY - CONDITIONS & RECOMMENDATIONS							
PPE E GENERAL	COLD WORK PERMIT	FIRE EXTINGUISHER		FALL PROTECTION		MARINE SAFETY	
BLIND ISOLATION SYSTEM	HOT WORK PERMIT	FIRE WATCH SPARK PR		SPARK PROTECTION		SEVERE WEATHER PREP	
JOB SAFETY ANALYSIS	BARRICADES	DIVER SAFETY	□ s	IMULTANEOUSLY DRILL		ENVIRONMENTAL PROTECTION	
GAS LEAK PROTECTION	LIFTING PLAN	HAZARDOUS MATERIAL				PPE SPECIAL	
OTHER/COMMENTS:					•		
OLIVIEW CONTROL AND MODERATION							
QUALITY CONTROL AND INSPECTION							
CQ FORMS:							
ENGINEERING DOCUMENTS							
Discipline	Document		Tag	Rev.		Status	
TIE-IN	BNO-NET CO-300-PX-2365-21014-001		TP-01	02A		None	
TIE-IN	BNO-NETCO-300-PX-2365-21024-001		TP-01	02A		None	
COMPANY COMMENTS							

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	SIGNATURE	SIGNATURE	SIGNATURE
	NAME	NAME	NAME
	DATE	DATE	DATE