REV. CAUSE ID: STREAM REV. NO.: 9 STREAM NO.:4554

E 139526266 N 113388476 EL +27060 F7 G10 B11 HTF102 CLASS: 2E63 PAINT: NR SEE ISO 1X3/4"NPD N 113388476 2121-VA40U03-2 1"NPD SPEC 1E18 E 139526266 N 113388626 EL +26040 SEE ISO F6 G9 B11 2121-VG40E04-4-SPEC 2E63 E 139524061 N 113388268 EL +26026 3 1X1"NPD

BILL OF MATERIAL HOLD COMPONENT DESCRIPTION ITEM CODE QTY STATUS (IN) PIPE - A312-TP304/304L DUAL GR PE SMLS T01AL2CZ02 S-40S < PIPB04DA2140S > I2257939 (L-PIP111) PIPE - A312-TP304/304L DUAL GR PE SMLS T01AL2CZ02 S-40S < PIPB04DA23/440S > I2257938 0.1 M (L-PIP111) TITTINGS TEE ASME B16.11 3000# A182-F304/304L DUAL GR SWE SWE - R11FNL2A1101 NREOD 12258184 <TESB450LBK1>(L-TES04) REDUCING TEE ASME B16.11 3000# A182-F304/304L DUAL GR SWE SWE -I2258205 R12FNL2A1101 NREQD < RTEB450LBK13/4> (L-RTE18) 90 ELBOW ASME B16.11 3000# A182-F304/304L DUAL GR SWE SWE - R31FNL2A1103 I2258117 NREQD <90FB450LBK1> (L-90F05) LANGES SW FLANGE ASME B16.5 300# A182-F316/316L DUAL GR RFFE SWE 125 - 250 AARH 12500941 F02CFL1MB105 S-40S <SWFB34DR35140S> (L-SWF37) SW FLANGE ASME B16.5 300# A182-F316/316L DUAL GR RFFE SWE 125 - 250 AARH I2500940 F02CFL1MB105 S-40S <SWFB34DR353/440S> (L-SWF37) BLIND FLANGE ASME B16.5 300# A182-F316/316L DUAL GR RFFE NREQD 125 - 250 I2254550 AARH F10CFL1MB005 < BLFB34DR353/4> (L-BLF36) SASKETS SPIRAL WOUND GASKET ASME B16.20 300# RFTBE 304/PTFE SS 304 SS 304 ASME I219568 B16.5 G03GFP1IG04 < N/A > (N/A) 0 SPIRAL WOUND GASKET ASME B16.20 300# RFTBE 304/PTFE SS 304 SS 304 ASME I219567 B16.5 G03GFP1IG04 < N/A > (N/A) 1 STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A320-L7/A194-7 INCH SIZE I010B5301 155705037 <SB2R55G5/831/4> - 2 NUTS PER BOLT - 80 mm Length INSTRUMENTS 12 INSTRUMENT COMPONENT 19-KV-4040N

SIR	1) LINI 2) ALL	REMARKS FOR MECHANICAL SUBCONTRACTOR: 1) LINES 1.1/2" AND SMALLER SHALL BE SUPPORTED IN FIELD IF NOT OTHERWISE INDICATED. 2) ALL DIMENSION AND PROPER CONFIGURATION FOR LINES NPS 1.1/2" AND SMALLER SHALL BE CHECKED IN FIELD BEFORE CONSTRUCTION.									
		3) FOR THE COMPONENTS MARKED AS FIELD WELDED WITH THIS SYMBOL ✗, ONE WELD FOR ADJUSTMENT OF IN LINE COMPONENT MUST BE LEFT 4) FOR EXTRA PIPE LENGTH REFER TO 4274-LZ-PC-00000603.									
7	5) GUSSETING TO BE IMPLEMENTED BY MECHANICAL SUBCONTRACTOR AS PER 45-L-45-000-2-00-80004 / 4274-XH-SG-00000002.										
3		6) CROSSING BETWEEN WELDS ON PIPELINE SHALL NOT BE ADMITTED. 7) IN CASE OF DISCREPANCIES BETWEEN DATA SHOWN ON ISO AND IN LINE LIST (AS APPLICABLE, DATA SHOWN IN LINE LIST GOVERN.									
. 07.2	8) ACT	8) ACTUAL CUT LENGTH OF PIPE AND FIELD WELDS SHALL BE DEFINED BY MECHANICAL SUBCONTRACTOR (REF.TO 4274-LZ-PC-00000603). 9) WHERE EARTHING BONDING IS REQUIRED, MECHANICAL SUBCONTRACTOR TO PERFORM IT BASED ON DOC. 45-P-000-7-06-00902/ 4274 -NN-DW-00000002 AND ASSEMBLY NO FEA005 AND FE019.								$\rfloor_{S_{\overline{1}}}$	
SUPPORTS LEGEND: DENOTES PARTS LIST NO PIPE — A=RESTING SUPPORT G=GUIDE F=AXIAL STOP WHERE A WITHOUT NUMBERING IS INDICATED, THIS MEANS THAT								B=ANCHOR M=SPRING S=TEFLONPAD AT THERE IS A REST DIRECTLY ON STEEL STRUCTURE.			
3									STRESS CALC. Nº	TIT	
07									-	╛┰	
E:									P & ID 19-A-19-000-1-01-00001 sheet 34] I	
K. DA	00	ISSUED FOR REFERENCE		30-JUN-23	U.CHAVAN	P.VAZE	G.PAGANONI		LINE LIST Nº		
	00	ISSUED FOR REFERENCE		30-3011-23	C.CIETVIEV	1.VILL	G.F. MOTHON		19-L-19-000-2-00-80602	4	
EAI.	REV.	DESCRIPTION		DATE	DRW. BY	CHECK BY	APPR. BY	APPR. CLIENT	PIPE LAYOUT N° 19-L-19-000-2-00-86196 sheet 7		

2121-VG40E04-2 SPEC 2E63 E 139524037 N 113388268 EL +26002

> Signature for construction is shown on Iso list of relevant CWA

ISSUED FOR

REFERENCE

PIPE MATERIAL

CS, low temperature

INSULATION CODE / THK. (mm)

HEAT TREATMENT (PWHT)

PAINTING SCHEME (3)

ISOMETRIC DRAWING LINE

1"-VG-40E04-2E63

NOTES: 1. FOR TECHNICAL DETAILS SEE LINE LIST.

ANNEX

2. FOR VENT, DRAIN OR INSTRUMENT CONNECTION DETAILS SEE 45-L-45-000-2-00-80102

3. WELDING ACCORDING TO 45-L-45-000-2-00-80021

5. CODE SHOWN IN BOM BETWEEN "<" & ">" DENOTES REPSOL UNICODE. "<N/A>" MEANS UNICODE IS "NOT AVAILABLE"

CONTRACTOR: CONTRACTOR DRAWING NUMBER: PROJECT: NR PIPING CLASS 4001008 4274-XH-DL-2121VG40E04-3 2E63

WELDING CLASS (4) LOW LINEAL DENSITY POLYETHILENE (PEL) AND POLYPROPYLENE (PP) PLANTS PED CATEGORY FOR PROJECT - ALBA PROJECT REPSQL Art 4.3

CLIENT / COMPLEX REPSOL POLYMEROS/ SINES INDUSTRIAL COMPLEX

DRAWING NUMBER 00 19-000-2-02-00001 sheet 2121VG40E04-3