REV. CAUSE ID:

REMARKS FOR MECHANICAL SUBCONTRACTOR:

6 1/2" NPTF HOLE TO BE DRILLED AT SITE TO SUIT THE INSTRUMENTATION TUBING E 139525193 N 113389053 EL +22219 2 3/4X1/2"NPD F5 G8 B10 3MM OFFSET F4 G7 B9 11 STEM SOUTH F4 G7 B9 ~3/4X3/4"NPD SEE ISO SPEC 1E21 E 139525323 N 113389050

BILL OF MATERIAL HOLD COMPONENT DESCRIPTION ITEM CODE QTY STATUS (IN) PIPE - A106-B PE SMLS T01AC03Z02 S-XS < PIPA010A13/4XS> (L-6679) I132785 FITTINGS ECCENTRIC SWAGE MSS SP-95 - A 105N PE PE SMLS SCH1-XS SCH2-XS R22FQC44ZZ01 3/4X1/2 I63782592 <ESWA010AR11161016>(L-ESW31) 90 ELBOW ASME B16.11 3000# A105N SWE SWE - R31FNC441103 NREQD 11651298 <90FA300LBK3/4> (L-178) FLANGES SW FLANGE ASME B16.5 300# A105N RFFE SWE 125 - 250 AARH F02CFC44B105 S-XS 19762190 <SWFA300R353/4XS> (L-375) SW FLANGE ASME B16.5 300# A105N RFFE SWE 125 - 250 AARH F02CFC44B105 S-XS 19762189 <SWFA300R351/2XS> (L-375) BLIND FLANGE ASME B16.5 300# A105N RFFE NREQD 125 - 250 AARH F10CFC44B005 I1652374 <BLFA300R351/2> (L-143) ASKETS SPIRAL WOUND GASKET ASME B16.20 300# RFTBE 304/GRAFOIL CARBON STEEL SS 304 3/4 I63508950 ASME B16.5 G03GFP1IS12 < N/A > (N/A) SPIRAL WOUND GASKET ASME B16.20 300# RFTBE 304/GRAFOIL CARBON STEEL SS 304 1/2 163508949 ASME B16.5 G03GFP1IS12 < N/A> (N/A) STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I010B0301 153437418 <SB2R51G5/831/4> - 2 NUTS PER BOLT - 80 mm Length STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I010B0301 I53437190 <SB2R51G1/221/2> - 2 NUTS PER BOLT - 65 mm Length ALVES / IN-LINE ITEMS 1 BALL V-FLT-SS-FB API 608 300# A216-WCB RFFE 316/PEEK B7/2H 125 - 250 AARH 164812606 2PSB-FULL BORE FLOATING BALL OHW TIGHT SHUT-OFF (TSO) ASME B16.5 V1FJFC29B01L NREQD <N/A> (N/A).

<b>J</b> 1	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.								
		OR THE COMPONENTS MARKED AS FIELD WELDED WITH THIS SYMBOL ✗, ONE WELD FOR ADJUSTMENT OF IN LINE COMPONENT MUST BE LEFT  OR EXTRA PIPE LENGTH REFER TO 4274-LZ-PC-0000603.							
59	5) GUS	GUSSETING TO BE IMPLEMENTED BY MECHANICAL SUBCONTRACTOR AS PER 45-L-45-000-2-00-80004 / 4274-XH-SG-000000002.							
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.									
★ 8) ACTUAL CUT LENGTH OF PIPE AND FIELD WELDS SHALL BE DEFINED BY MECHANICAL SUBCONTRACTOR (REF.TO 4274-LZ-PC-00000603).									
$\alpha$	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.								
-202	SUPPO	IDENOTES PARTS LIST NO SUPPORT G=GUIDE F=AXIALSTOP B=ANCHOR M=SPRING S=TEFLON PAD WHERE A WITHOUT NUMBERING IS INDICATED, THIS MEANS THAT THERE IS A REST DIRECTLY ON STEEL STRUCTURE.							
90								STRESS CALC. Nº	Т
29-								-	
								P & ID 19-A-19-000-1-01-00001 sheet 48	
ATE:								LINE LIST N°	
Ω	00	ISSUED FOR REFERENCE	30-JUN-23	U.CHAVAN	P.VAZE	G.PAGANONI		19-L-19-000-2-00-80602	
EXTR.	D.F.V.	Proceduration	D	D	ormor pri	. nnn nv		PIPE LAYOUT Nº	
EX.	REV.	DESCRIPTION	DATE	DRW. BY	CHECK BY	APPR. BY	APPR. CLIENT	19-L-19-000-2-00-86197 sheet 6	

Signature for construction is shown on Iso list of relevant CWA

**ISSUED FOR** 

REFERENCE

ISOMETRIC DRAWING LINE 3/4"-HPN-40U02-1E21

NOTES: 1. FOR TECHNICAL DETAILS SEE LINE LIST.

ANNEX

PIPE MATERIAL

HEAT TREATMENT (PWHT)

PAINTING SCHEME (3)

PED CATEGORY

INSULATION CODE / THK. (mm)

Art 4.3

CS

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:

PIPING CLASS 4001008 4274-XH-DL-2121HPN40U02-1 1E21 WELDING CLASS (4) LOW LINEAL DENSITY POLYETHILENE (PEL)

AND POLYPROPYLENE (PP) PLANTS FOR PROJECT - ALBA PROJECT REPSQL

DRAWING NUMBER

CLIENT / COMPLEX REPSOL POLYMEROS/ SINES INDUSTRIAL COMPLEX

00 19-000-2-02-00001 sheet 2121HPN40U02-1

FILENAME: 19-000-2-02-00001 sheet 2121HPN40U02-1.dwg