SEE ISO 2121-LPN49A06-2 SPEC 1C13 E 139535263 E 139534674 N 113384169 EL +17022 STEM WEST SWE x FTE /N 113384169 EL +16824 3 1.1/2X3/4"NPD-E 139534674 1.1/2X1.1/2"NPD SEE ISO 2121-CT49A02-1 SPEC 1C14 E 139525728 STEM NORTH N 113383350 EL +13614 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 X , ONE WELD FOR ADJUSTMENT OF IN LINE COMPONENT MUST BE LEFT **ISSUED FOR REFERENCE** 

BILL OF MATERIAL				
PT NO COMPONENT DESCRIPTION PIPE	N.S. (IN)	ITEM CODE	QTY.	HOLD STATU
1 PIPE - A106-B PE SMLS T01AC03Z02 S-XS <pipa010a111 2xs=""> (L-6679) 2 PIPE - A106-B PE SMLS T01AC03Z02 S-XS <pipa010a13 4xs=""> (L-6679)</pipa010a13></pipa010a111>	1.1/2 3/4	I132809 I132785	12.7 M 0.1 M	
FITTINGS  REDUCING TEE ASME B16.11 3000# A105N SWE SWE - R12FNC441101 NREQD <rtea300kbk11 23="" 4=""> (L-RTE15)</rtea300kbk11>	1.1/2X3/4	I1651306	1	
4 90 ELBOW ASME B16.11 3000# A105N SWE SWE - R31FNC441103 NREQD <90FA300LBK11/2> (L-178)	1.1/2	11651297	6	
5 COUPLING ASME B16.11 3000# A105N SWE SWE - R01FNC441101 NREQD <fcpa300lbk11 2=""> (L-180)</fcpa300lbk11>	1.1/2	11651679	1	
5 PLUG ROUND HEAD ASME B16.11 - A105N MTE NREQD - R42FQC44W001 NREQD <plua300ck3 4=""> (L-77) FLANGES.</plua300ck3>	3/4	I10088232	1	
7 SW FLANGE ASME B16.5 150# A105N RFFE SWE 125 - 250 AARH F02CDC44B105 S-XS <swfa300r1511 2xs=""> (L-295).</swfa300r1511>	1.1/2	15378345	2	
8 SW FLANGE ASME B16.5 150# A105N RFFE SWE 125 - 250 AARH F02CDC44B105 S-XS	1.1/2	15378345	1	
9 SPIRAL WOUND GASKET ASME B16.20 150# RFFE 304/PTFE CARBON STEEL SS 304 ASME B16.5 G03GDB1IG12 <spaq505r1ea11 2=""> (L-SPA04)</spaq505r1ea11>	1.1/2	12230478	4	
BOLTS  10 STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE 1010B0301  SB2R51G1/231/4> - 2 NUTS PER BOLT - 80 mm Length	1/2	153437223	4	
11 STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I010B0301 <sb2r51g1 223="" 4=""> - 2 NUTS PER BOLT - 70 mm Length</sb2r51g1>	1/2	153437201	8	
VALVES / IN-LINE ITEMS  12 GLOBE VALVE API 602 800# A105N SWE SWE 8-F6&HF PTFE B7/2H BB-OS&Y PTFE HW	1.1/2	I10015481	1	
V02GIC441117C NREQD <a611_2l-gl1256a> (L-GL1256A)  13 BALL VALVE API 608 150# A216-WCB RFFE 316/R-PTFE, GF B7/2H 125 - 250 AARH  2PSB-FULL BORE FLOATING BALL OHW ASME B16.5 V04JDC29BZZG NREQD <n a=""> (N/A)</n></a611_2l-gl1256a>	1.1/2	110013689	1	
14 GATE VALVE API 602 800# A105N SWE FTE 8-F6&HF WB-OS&Y SOW PTFE HW V01GIC4412BM4 NREQD <g73_4l-ga1424a> (L-GA1424A)</g73_4l-ga1424a>	3/4	163559275	1	
INSTRUMENTS 15 INSTRUMENT COMPONENT	1.1/2	19-FO-4901	1	

4) FOR EXTRA PIPE LENGTH REFER TO 4274-LZ-PC-00000603. 5) GUSSETING TO BE IMPLEMENTED BY MECHANICAL SUBCONTRACTOR AS PER 45-L-45-000-2-00-80004 / 4274-XH-SG-00000002. 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). 9) WHERE EARTHING BONDING IS REQUIRED, MECHANICAL SUBCONTRACTOR OF TO PERFORM IT BASED ON DOC. 457-0007-06-00902/ 4274-NN-DW-00000002 AND ASSEMBLY NO FEA005 AND FE019.  SUPPORTS LEGEND:    DENOTES PARTSLIST NO   PIPE   APPLICABLE   APPLICA											
8-12-								STRESS CALC. Nº	1		
H H	01	ISSUED FOR REFERENCE	16-DEC-23	M.YADAV	P.VAZE	G.PAGANONI		P & ID 19-A-19-000-1-01-00001 sheet 57			
DĄ	00	ISSUED FOR REFERENCE	23-JUN-2023	M.YADAV	P.VAZE	G.PAGANONI		LINE LIST N° 19-L-19-000-2-00-80602			
XTR	REV.	DESCRIPTION	DATE	DRW. BY	CHECK BY	APPR. BY	APPR. CLIENT	PIPE LAYOUT Nº 19-L-19-000-2-00-86196 sheet 5			

Signature for construction is shown on Iso list of relevant CWA

PIPE MATERIAL

PIPING CLASS

HEAT TREATMENT (PWHT)

INSULATION CODE / THK. (mm)

CS

ISOMETRIC DRAWING LINE

1-1/2"-LPN-49A02-1C13

NOTES: 1. FOR TECHNICAL DETAILS SEE LINE LIST.

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"

4274-XH-DL-2121LPN49A02-1

PAINTING SCHEME (3) CONTRACTOR: CONTRACTOR DRAWING NUMBER: PROJECT:

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

ANNEX

CLIENT / COMPLEX REPSOL POLYMEROS/ SINES INDUSTRIAL COMPLEX

4001008

DRAWING NUMBER 19-000-2-02-00001 sheet 2121LPN49A02-1 01