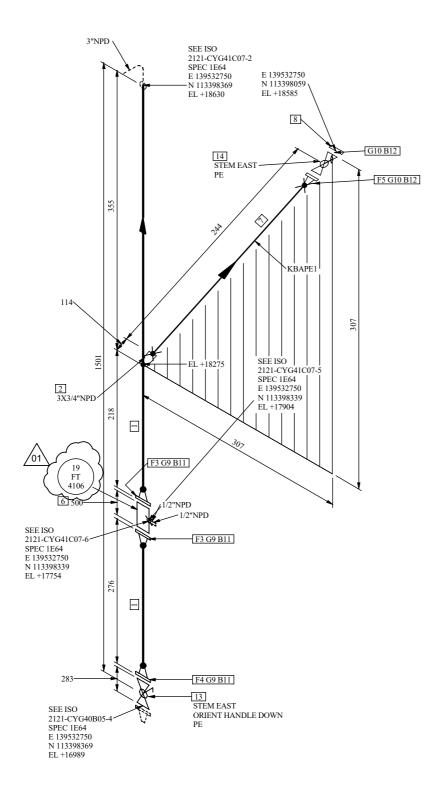
REMARKS FOR MECHANICAL SUBCONTRACTOR:

1) LINES 1.1/2" AND SMALLER SHALL BE SUPPORTED IN FIELD IF NOT OTHERWISE INDICATED.





BILL OF MATERIAL				
PT NO COMPONENT DESCRIPTION	N.S. (IN)	ITEM CODE	QTY _.	HOLD
PIPE				
1 PIPE - A106-B BE SMLS T01AC03V02 S-STD <pipa010b13std> (L-7806)</pipa010b13std>	3	I117921	0.7 M	
FITTINGS				
2 REDUCING 45 LATROLET MSS-SP-97 A105N BE - C36DC44V01 S-STD	3X3/4	159594838	1	
<laba300f015151116> (L-LAB22)</laba300f015151116>				
<u>FLANGES</u>				
3 WN FLANGE ASME B16.5 300# A105N RFFE BE 125 - 250 AARH F01CFC44BV05 S-STD	3	I4217853	2	
<wnfa300r353std> (L-236).</wnfa300r353std>				
4 WN FLANGE ASME B16.5 300# A105N RFFE BE 125 - 250 AARH F01CFC44BV05 S-STD	3	I4217853	1	
<wnfa300r353std> (L-236)</wnfa300r353std>				
5 WN FLANGE ASME B16.5 300# A105N RFFE BE 125 - 250 AARH F01CFC44BV05 S-XS	3/4	19805754	1	
<wnfa300r353 4xs=""> (L-236)</wnfa300r353>				
INSTRUMENTS				
6 INSTRUMENT COMPONENT	3	19-FT-4106	1	
PIPE				
7 PIPE - A106-B PE SMLS T01AC03Z02 S-XS <pipa010a13 4xs=""> (L-6679)</pipa010a13>	3/4	I132785	0.2 M	
FLANGES				
8 BLIND FLANGE ASME B16.5 300# A105N RFFE NREQD 125 - 250 AARH F10CFC44B005	3/4	11652375	1	
<blfa300r353 4=""> (L-143)</blfa300r353>				
GASKETS				
9 SPIRAL WOUND GASKET ASME B16.20 300# RFFE 304/PTFE CARBON STEEL SS 304 ASME	3	163598763	3	
B16.5 G03GFB1IG12 < SPAQ505R3EA3 > (L-SPA05)				
10 SPIRAL WOUND GASKET ASME B16.20 300# RFFE 304/PTFE CARBON STEEL SS 304 ASME	3/4	163598745	2	
B16.5 G03GFB1IG12 < SPAQ505R3EA3/4> (L-SPA05)				
BOLTS				
11 STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I010B0301	3/4	153437465	24	
<sb2r51g3 4="" 441=""> - 2 NUTS PER BOLT - 110 mm Length</sb2r51g3>				
12 STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I010B0301	5/8	153437418	8	
<sb2r51g5 4="" 831=""> - 2 NUTS PER BOLT - 80 mm Length</sb2r51g5>				
VALVES / IN-LINE ITEMS				
13 BALL VALVE BS EN ISO 17292 300# A216-WCB RFFE 316/PEEK B7/2H 125 - 250 AARH	3	16964310	1	
2PSB-FULL BORE FLOATING BALL LE ASME B16.5 V04FFC29BNO NREQD <b43l-al268></b43l-al268>			-	
(L-AL268)				
14 BALL VALVE BS EN ISO 17292 300# A216-WCB RFFE 316/PEEK B7/2H 125 - 250 AARH	3/4	I64605313	1	
2PSB-FULL BORE FLOATING BALL OHW ASME B16.5 V04FFC29BNN NREQD <n a=""> (N/A)</n>	<i>31</i> T	10 1003313		
2135 TOLE BOILE TEORTING BALL OHW ASMED 10.5 VOTITOZ DINN MEQD NWAZ (IWA)				

1) Lines 1.1/2 AND SMALLER SHALL BE SUPPORTED IN PIELD 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.										
,					1					
2 7) IN CASE OF DISCREPANCIES BETWEEN DATA SHOWN ON ISO AND IN LINE LIST (AS APPLICABLE, DATA SHOWN IN LINE LIST GOVERN.										
) ppr										
	WIERDA WITHOUT NUMBERING IS INDICATED, THIS MEANS THAT THERE IS A REST DIRECTLY ON STEEL STRUCTURE.									
							STRESS CALC. Nº	TI		
							REP-PE-103	Ι.		
							P & ID	1		
01	ISSUED FOR CONSTRUCTION	13-JUL-23	U.CHAVAN	P.VAZE	G.PAGANONI		19-A-19-000-1-01-00001 sheet 54	'		
	ISSUED FOR CONSTRUCTION	06-JAN-23					LINE LIST Nº	1		
00			M.YADAV	P.VAZE	G.PAGANONI	1	19-L-19-000-2-00-80602			
	. DESCRIPTION	DATE	DRW. BY				PIPE LAYOUT Nº	1		
REV.				CHECK BY	APPR. BY	APPR. CLIENT	19-L-19-000-2-00-86197 sheet 5			
	2) ALL 3) FOR 4) FOR 5) GUS 6) CRC 7) IN C 8) ACT 9) WHE	2) ALL DIMENSION AND PROPER CONFIGURATION FOR LINES NPS 1.1/2" AND SMALLER SHALL I 3) FOR THE COMPONENTS MARKED AS FIELD WELDED WITH THIS SYMBOL X, ONE WELD FOI 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- 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 APPLICAI 8) ACTUAL CUT LENGTH OF PIPE AND FIELD WELDS SHALL BE DEFINED BY MECHANICAL SUB- 9) WHERE EARTHING BONDING IS REQUIRED, MECHANICAL SUBCONTRACTOR TO PERFORM IT SUPPORTS LEGEND: DENOTES PARTS LIST NO PIPE A-RESTINGS WHERE AWITHO 01 ISSUED FOR CONSTRUCTION	2) ALL DIMENSION AND PROPER CONFIGURATION FOR LINES NPS 1.1/2" AND SMALLER SHALL BE CHECKED IN 3) FOR THE COMPONENTS MARKED AS FIELD WELDED WITH THIS SYMBOL X, ONE WELD FOR ADJUSTMENT: 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-X 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 SHOW 8) ACTUAL CUT LENGTH OF PIPE AND FIELD WELDS SHALL BE DEFINED BY MECHANICAL SUBCONTRACTOR (I) 9) WHERE EARTHING BONDING IS REQUIRED, MECHANICAL SUBCONTRACTOR TO PERFORM IT BASED ON DOC SUPPORTS LEGEND: DENOTES PARTS LIST NO PIPE A-RESTINGSUPPORT G= SUPPORT A-RESTINGSUPPORT G= WHERE AWITHOUT NUMBERING IS 01 ISSUED FOR CONSTRUCTION 13-JUL-23 00 ISSUED FOR CONSTRUCTION 06-JAN-23	2) ALL DIMENSION AND PROPER CONFIGURATION FOR LINES NPS 1.1/2" AND SMALLER SHALL BE CHECKED IN FIELD BEFORE CO. 3) FOR THE COMPONENTS MARKED AS FIELD WELDED WITH THIS SYMBOL X, ONE WELD FOR ADJUSTMENT OF IN LINE COMING 19 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-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 (8) ACTUAL CUT LENGTH OF PIPE AND FIELD WELDS SHALL BE DEFINED BY MECHANICAL SUBCONTRACTOR (REF. TO 4274-LZ-P) WHERE EARTHING BONDING IS REQUIRED, MECHANICAL SUBCONTRACTOR TO PERFORM IT BASED ON DOC. 45-P-000-7-06-00 SUPPORTS LEGEND: DENOTES PARTS LIST NO PIPE AND A-RESTINGS UPPORT G-GUIDE F-AXIAL WHERE A WITHOUT NUMBERING IS INDICATED, THIS OI ISSUED FOR CONSTRUCTION 13-JUL-23 U.CHAVAN 00 ISSUED FOR CONSTRUCTION	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 14.1 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 TO PERFORM IT BASED ON DOC. 45-P-000-7-06-00902/4274 -NN-D/ONDOC 15 -P-000-7-06-00902/4274 -NN-D/O	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 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 TO PERFORM IT BASED ON DOC. 45-P-000-7-06-00902/4274-NN-DW-00000002 AND SUPPORTS LEGEND: DENOTES PARTS LIST NO PIPE A-RESTING SUPPORT G-GUIDE F-AXIAL STOP B-ANCHOR M-S SUPPORT SUPPORT G-GUIDE G-GUIDE G-AXIAL STOP B-ANCHOR M-S SUPPORT G-GUIDE G-GUIDE G-AXIAL STOP B-ANCHOR M-S SUPPORT G-GUIDE G-AXIAL STOP B-ANCHOR M-S SUPPO	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 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 TO PERFORM IT BASED ON DOC. 45-P-000-7-06-00902/ 4274-NN-DW-00000002 AND ASSEMBLY NO SUPPORTS LEGEND: 10 DENOTES PARTS LIST NO PIPE A-RESTING SUPPORT A-RESTING SUPPORT G-GUIDE F-AXIAL STOP B-ANCHOR M-SPRING S-THE WHERE AWITHOUT NUMBERING IS INDICATED, THIS MEANS THAT THERE IS A REST DIRECTLY ON STEEL 11 J-JUL-23 U.CHAVAN P.VAZE G.PAGANONI 12 J-JUL-23 M.YADAV P.VAZE G.PAGANONI	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 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 BOATA 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 TO PERFORM IT BASED ON DOC. 45-P-000-7-06-00902/ 4274-NN-DW-00000002 AND ASSEMBLY NO FEA005 AND FE019. SUPPORTS LEGEND: □DENOTES PARTSLIST NO PIPE A PARTSLIST NO PART		

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

ISOMETRIC DRAWING

LINE

3"-CYG-41C07-1E64 (P)

APPROVED FOR

PAINTING SCHEME (3)

PIPE MATERIAL

HEAT TREATMENT (PWHT)

INSULATION CODE / THK. (mm)

CS

CONTRACTOR: PIPING CLASS 1E64 WELDING CLASS (4)

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" CONTRACTOR DRAWING NUMBER: PROJECT:

4274-XH-DL-2121CYG41C07-1 LOW LINEAL DENSITY POLYETHILENE (PEL) AND POLYPROPYLENE (PP) PLANTS PED CATEGORY FOR PROJECT - ALBA PROJECT REPSQL

CLIENT / COMPLEX REPSOL POLYMEROS/ SINES INDUSTRIAL COMPLEX

4001008

DRAWING NUMBER 19-000-2-02-00001 sheet 2121CYG41C07-1 ANNEX 01