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. 1.12.7 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

SEE ISO 2121-CYG41C03-4 E 139530452 2 6X3"NPD EL +12962 3"NPD 2121-CYG41B02-4/ SPEC 1E64 E 139530093 N 113399645 EL +12962 ORIENT WEST GAP (E-W)/(N-S)=15MM F5 G8 B9 3 29.5° EL +8194 F5 6/in/RFFF/300 N 113398815

BILL OF MATERIAL HOLD COMPONENT DESCRIPTION ITEM CODE QTY STATUS (IN) PIPE - A106-B BE SMLS T01AC03V02 S-STD < PIPA010B16STD > (L-7806) I117981 FITTINGS REDUCING TEE ASME B16.9 A234-WPB BE SMLS C32DC04V02 S-STD x I213048 <TRBA200F317151515> (L-9917) 90 LR ELBOW ASME B16.9 A234-WPB BE SMLS C01DC04V01 S-STD <90LA200F36STD> I128667 (L-7955) FLANGES WN FLANGE ASME B16.5 300# A105N RFFE BE 125 - 250 AARH F01CFC44BV05 S-STD I4274965 <WNFA300R356STD> (L-236) INSTRUMENTS INSTRUMENT COMPONENT 19-KV-4102H PIPE SUPPORTS WELDED GUIDE-C1G3 H = 100 L = 300 GASKETS SPIRAL WOUND GASKET ASME B16.20 300# RFFE 304/PTFE CARBON STEEL SS 304 ASME 6 163598782 B16.5 G03GFB1IG12 < SPAQ505R3EA6 > (L-SPA05) STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I010B0301 153437468 <SB2R51G3/45> - 2 NUTS PER BOLT - 125 mm Length PIPE MATERIAL NOTES: 1. FOR TECHNICAL DETAILS SEE LINE LIST. 2. FOR VENT, DRAIN OR INSTRUMENT CONNECTION DETAILS SEE 45-L-45-000-2-00-80102 CS 3. WELDING ACCORDING TO 45-L-45-000-2-00-80021 HEAT TREATMENT (PWHT) 5. CODE SHOWN IN BOM BETWEEN "<" & ">" DENOTES REPSOL UNICODE. "<N/A>" MEANS UNICODE IS "NOT AVAILABLE" PAINTING SCHEME (3) CONTRACTOR: CONTRACTOR DRAWING NUMBER: PROJECT: PIPING CLASS 4001008 4274-XH-DL-2121CYG41D02-1 1E64 WELDING CLASS (4) LOW LINEAL DENSITY POLYETHILENE (PEL) CLIENT / COMPLEX AND POLYPROPYLENE (PP) PLANTS REPSOL POLYMEROS/ PED CATEGORY FOR PROJECT - ALBA PROJECT SINES INDUSTRIAL COMPLEX REPSQL INSULATION CODE / THK. (mm) DRAWING NUMBER ANNEX 00 19-000-2-02-00001 sheet 2121CYG41D02-1

4) FOR EXTRA PIPE LENGTH REFER TO 42/4-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-0000002 AND ASSEMBLY NO FEA005 AND FE019.										Si
SUPPORTS LEGEND: DENOTES PARTS LIST NO PIPE — A=RESTING SUPPORT G=GUIDE F=AXIAL STOP B=ANCHOR M=SPRING S=TEPLON PAD WHERE A WITHOUT NUMBERING IS INDICATED, THIS MEANS THAT THERE IS A REST DIRECTLY ON STEEL STRUCTURE.										
									STRESS CALC. № REP-PE-021	TIT
									P & ID 19-A-19-000-1-01-00001 sheet 55	] I
ISSUED FOR CONSTRUCTION			26-MAY-2023	M.YADAV	P.VAZE	G.PAGANONI		LINE LIST N° 19-L-19-000-2-00-80602		
	DESCRIPTION			DATE	DRW. BY	CHECK BY	APPR. BY	APPR. CLIENT	PIPE LAYOUT № 19-L-19-000-2-00-86197 sheet 4	
	ISETING TO BE IMPLEM SISING BETWEEN WEL ASE OF DISCREPANCII UAL CUT LENGTH OF IRE EARTHING BONDII DRTS LEGEND:	ISETING TO BE IMPLEMENTED BY MECHANICAL SSING BETWEEN WELDS ON PIPELINE SHALL NO ASSE OF DISCREPANCIES BETWEEN DATA SHOW!  UAL CUT LENGTH OF PIPE AND FIELD WELDS SI CRE EARTHING BONDING IS REQUIRED, MECHAN DRTS LEGEND:  [I] DENOTES PARTS LIST NO ISSUED FOR CONSTRUCTION	SSING BETWEEN WELDS ON PIPELINE SHALL NOT BE ADMITTE ASE OF DISCREPANCIES BETWEEN DATA SHOWN ON ISO AND IT UAL CUT LENGTH OF PIPE AND FIELD WELDS SHALL BE DEFINITE EARTHING BONDING IS REQUIRED, MECHANICAL SUBCONTOR STATE OF THE PIPE AND FIRE PARTSLIST NO PIPE SUPPORT SU	ISETING TO BE IMPLEMENTED BY MECHANICAL SUBCONTRACTOR AS PER 45-L-45-000-2-0 SSING BETWEEN WELDS ON PIPELINE SHALL NOT BE ADMITTED. ASE OF DISCREPANCIES BETWEEN DATA SHOWN ON ISO AND IN LINE LIST (AS APPLICAB UAL CUT LENGTH OF PIPE AND FIELD WELDS SHALL BE DEFINED BY MECHANICAL SUBC URE EARTHING BONDING IS REQUIRED, MECHANICAL SUBCONTRACTOR TO PERFORM IT  ORTS LEGEND:  DENOTES PARTS LIST NO  PIPE  A-RESTINGS. WHEREA WITHOUT  ISSUED FOR CONSTRUCTION	ISETING TO BE IMPLEMENTED BY MECHANICAL SUBCONTRACTOR AS PER 45-L-45-000-2-00-80004 / 4274-XI  SSSING BETWEEN WELDS ON PIPELINE SHALL NOT BE ADMITTED.  ASE OF DISCREPANCIES BETWEEN DATA SHOWN ON ISO AND IN LINE LIST (AS APPLICABLE, DATA SHOW  UAL CUT LENGTH OF PIPE AND FIELD WELDS SHALL BE DEFINED BY MECHANICAL SUBCONTRACTOR (R  IRE EARTHING BONDING IS REQUIRED, MECHANICAL SUBCONTRACTOR TO PERFORM IT BASED ON DOC.  PRESS LEGEND:  DENOTES PARTS LIST NO  PIPE  A-RESTING SUPPORT WHEREA WITHOUT NUMBERING IS  ISSUED FOR CONSTRUCTION  26-MAY-2023	ISETING TO BE IMPLEMENTED BY MECHANICAL SUBCONTRACTOR AS PER 45-L-45-000-2-00-80004 / 4274-XH-SG-000000002.  SISING BETWEEN WELDS ON PIPELINE SHALL NOT BE ADMITTED.  ASE OF DISCREPANCIES BETWEEN DATA SHOWN ON ISO AND IN LINE LIST (AS APPLICABLE, DATA SHOWN IN LINE LIST UAL CUT LENGTH OF PIPE AND FIELD WELDS SHALL BE DEFINED BY MECHANICAL SUBCONTRACTOR (REF.TO 4274-LZ-1)  THE EARTHING BONDING IS REQUIRED, MECHANICAL SUBCONTRACTOR TO PERFORM IT BASED ON DOC. 45-P-000-7-06-01  THE SUPPORT ASESTING SUPPORT G-GUIDE F-AXIA  WHERE WITHOUT NUMBERING IS INDICATED, THE  ISSUED FOR CONSTRUCTION  26-MAY-2023 M.YADAV	ISETING TO BE IMPLEMENTED BY MECHANICAL SUBCONTRACTOR AS PER 45-L-45-000-2-00-80004 / 4274-XH-SG-00000002.  SSSING BETWEEN WELDS ON PIPELINE SHALL NOT BE ADMITTED.  ASE OF DISCREPANCIES BETWEEN DATA SHOWN ON ISO AND IN LINE LIST (AS APPLICABLE, DATA SHOWN IN LINE LIST GOVERN.  TUAL CUT LENGTH OF PIPE AND FIELD WELDS SHALL BE DEFINED BY MECHANICAL SUBCONTRACTOR (REF. TO 4274-LZ-PC-00000603).  THE EARTHING BONDING IS REQUIRED, MECHANICAL SUBCONTRACTOR TO PERFORM IT BASED ON DOC. 45-P-000-7-06-00902/4274-NN-D'  THE SUPPORT A-RESTING SUPPORT G-GUIDE F-AXIAL STOP B-SUPPORT G-GUIDE G	ISETING TO BE IMPLEMENTED BY MECHANICAL SUBCONTRACTOR AS PER 45-L-45-000-2-00-80004 / 4274-XH-SG-00000002.  SSSING BETWEEN WELDS ON PIPELINE SHALL NOT BE ADMITTED.  ASE OF DISCREPANCIES BETWEEN DATA SHOWN ON ISO AND IN LINE LIST (AS APPLICABLE, DATA SHOWN IN LINE LIST GOVERN.  TUAL CUT LENGTH OF PIPE AND FIELD WELDS SHALL BE DEFINED BY MECHANICAL SUBCONTRACTOR (REF. TO 4274-LZ-PC-00000603).  THE EARTHING BONDING IS REQUIRED, MECHANICAL SUBCONTRACTOR TO PERFORM IT BASED ON DOC. 45-P-000-7-06-00902/4274-NN-DW-00000002 AND  TO STATE LEGEND:  THE APPLICATION OF THE AMERICAN SUBCONTRACTOR TO PERFORM IT BASED ON DOC. 45-P-000-7-06-00902/4274-NN-DW-00000002 AND APPLICATION OF THE APPLICATION OF	ISSUED FOR CONSTRUCTION  SSING DE IMPLEMENTED BY MECHANICAL SUBCONTRACTOR AS PER 45-L-45-000-2-00-80004 / 4274-XH-SG-00000002.  SSING BETWEEN WELDS ON PIPELINE SHALL NOT BE ADMITTED.  ASE OF DISCREPANCIES BETWEEN DATA SHOWN ON ISO AND IN LINE LIST (AS APPLICABLE, DATA SHOWN IN LINE LIST GOVERN.  UAL CUT LENGTH OF PIPE AND FIELD WELDS SHALL BE DEFINED BY MECHANICAL SUBCONTRACTOR (REF.TO 4274-LZ-PC-00000603).  THE 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 STEEL  DENOTES PARTSLIST NO  PIPE  A=RISTING SUPPORT  G=GUIDE F=AXIALSTOP B=ANCHOR M=SPRING S=THE WHERE AWITHOUT NUMBERING IS INDICATED, THIS MEANS THAT THERE IS A REST DIRECTLY ON STEEL  ISSUED FOR CONSTRUCTION  26-MAY-2023 M.YADAV P.VAZE G.PAGANONI	SETING TO BE IMPLEMENTED BY MECHANICAL SUBCONTRACTOR AS PER 45-L-45-000-2-00-80004 / 4274-XH-SG-00000002.  SSSING BETWEEN WELDS ON PIPELINE SHALL NOT BE ADMITTED.  ASE OF DISCREPANCIES BETWEEN DATA SHOWN ON ISO AND IN LINE LIST (AS APPLICABLE, DATA SHOWN IN LINE LIST GOVERN.  UAL CUT LENGTH OF PIPE AND FIELD WELDS SHALL BE DEFINED BY MECHANICAL SUBCONTRACTOR (REF. TO 4274-LZ-PC-00000603).  FREE 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.  PRETS LEGEND:    DENOTES PARTS LIST NO   PIPE     A=RESTING SUPPORT   G=GUIDE   F=AXIAL STOP   B=ANCHOR   M=SPRING   S=TEH.ON PAD   WHERE   WITHOUT NUMBERING IS INDICATED, THIS MEANS THAT THERE IS A REST DIRECTLY ON STEEL STRUCTURE.    STRESS CALC. N°   REP-PE-021     PA   19-A-19-000-1-01-00001 sheet 55   ISSUED FOR CONSTRUCTION   26-MAY-2023   M.YADAV   P.VAZE   G.PAGANONI   19-L-19-000-2-00-80602     PIPE LAYOUT N°   19-L-19-000-2-00-80602     PIPE LAYOUT N°   PIPE LAYOUT N°   19-L-19-000-2-00-80602     PIPE LAYOUT N°   PIPE LAYOUT N°   PIPE LAYOUT N°   PIPE LAYOUT N°     PRESSING SETIMATED NO SETIMATED

Signature for construction is shown on Iso list of relevant CWA ISOMETRIC DRAWING

APPROVED FOR

CONSTRUCTION

LINE

6"-CYG-41D02-1E64 (P)

FILENAME: 19-000-2-02-00001 sheet 2121CYG41D02-1.dwg