

CONT. ON
2-LPN-8006-1P1 (RA)
E 1458452
N 1144175
EL. +114594

CONT. ON
1.5-LPN-4086-1S1(A)
E 1451700
N 1138491
EL. +108530

HOLD : 50-FT-404\

BILL OF MATERIAL:

FABRICATION MATERIALS				
PT NO.	DESCRIPTION	NB (IN)	ITEMCODE	QTY
PIPE				
1	PIPE SMLS BE ASME B36.10M ASTM A106 GR.B SCH 40	2	EPPPSB1506AZZ02S4	17.6M
2	PIPE SMLS PE ASME B36.10M ASTM A106 GR.B SCH 80	1.1/2	EPPPS1506AZZ1GS8	2.7M
3	PIPE SMLS PE ASME B36.10M ASTM A106 GR.B SCH 80	3/4	EPPPS1506AZZ01S8	0.2M
FITTINGS				
4	TEE RED. WROUGHT SMLS BW ASME B16.9 ASTM A234 GR.WPB SCH 40-SCH 80	2 x 1.1/2	EPJTRSB1601LZZ021GS4S8	2
5	SWAGE NIPPLE ECC WROUGHT SMLS BLE/PSE MSS SP-95 ASTM A234 GR.WPB SCH 40-SCH 80	2 x 1.1/2	EPJSESC1601SZZ021GS4S8	1
6	SOCKET FORGED SW CL.3000 MSS SP-97 ASTM A105N	2 x 3/4	EPJOSFS18090ZZ0201L3	1
7	ELBOW 90 DEG LR WROUGHT SMLS BW ASME B16.9 ASTM A234 GR.WPB SCH 40	2	EPJELSB1601LZZ02S4	9
8	ELBOW 90 DEG FORGED SW CL.3000 ASME B16.11 ASTM A105N	1.1/2	EPJEQFS1809JZZ1GL3	3
FLANGES				
9	FLANGE WN RF CL.150 ASME B16.5 ASTM A105N SCH 40	2	EPFFW62R1809NZZ02S4	8
ERECTION MATERIALS				
PT NO.	DESCRIPTION	NB (IN)	ITEMCODE	QTY
FITTINGS				
10	ELBOW 90 DEG FORGED SW CL.3000 ASME B16.11 ASTM A105N	1.1/2	EPJEQFS1809JZZ1GL3	1
11	CAP FORGED THRD(NPT-F) CL.3000 ASME B16.11 ASTM A105N (NOTE 1)	3/4	EPJKOFN1809JZZ01L3	1
FLANGES				
12	FLANGE SW RF CL.150 ASME B16.5 ASTM A105N SCH 80	1.1/2	EPFFS62R1809NZZ1GS8	1
GASKETS				
13	GASKET SPIRAL WOUND 4.5 mm THK. RF CL.150 ASME B16.20 ASME B16.5 316 METALLIC+FLEXIBLE GRAPHITE CR: CS - 1R: SS316	2	EPGGSR62E3XCDZ02	8
BOLTS				
14	85 STUD BOLT WITH TWO HEAVY HEX. NUTS ASME B1.1 ASME B18.2.1 ASME B18.2.2 BOLT:ASTM A193 GR.B7,NUT:ASTM A194 GR.2H DACROMET COATED	5/8	EPLL333AD0H85	32
VALVES / IN-LINE ITEMS				
15	GATE VALVE FLANGED-RF CL.150 BB OS&Y FLEXIBLE WEDGE HO API 600 ASME B16.5 Body:ASTM A216 WCB TRIM: CN 8 (AS PER API 600)	2	EPVVG62R0308PEACN1ZZ02	2
16	GLOBE VALVE SW CL.800 BB OS&Y SWIVEL PLUG TYPE DISC HO API 602 ASME B16.11 Body:ASTM A105N TRIM: CN 8 (AS PER API 600)	1.1/2	EPVVL68S0108PEADC1ZZ16	1
17	GATE VALVE SW CL.800 BB OS&Y SOLID WEDGE HO API 602 ASME B16.11 Body:ASTM A105N TRIM: CN 8 (AS PER API 600)	3/4	EPVVG68S0108PEADC1ZZ01	1

00	07.11.24	AFC	M.H.	A.T.	A.K.	A.N.
REV.	DATE	PURPOSE OF ISSUE	PREP. BY	CHKD. BY	APPD. BY	AUTH. BY



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Kangan Petro - Refining Co
KPRC HDPE

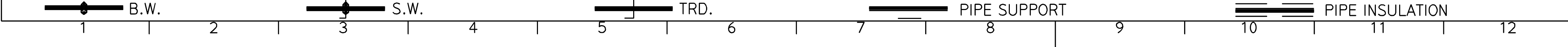


KANGAN PETRO REFINING CO.

Contract No. KPR-3-HD-99/157

SCALE: N.S

DESIGN TEMP.(C): 85degC	TEST FLUID: HYDRO PNEU	PWHT (Y/N): NO	P&ID NO.: /KP-50-400-DD-PR-PID-0004-3/23 /KP-50-800-DD-PR-PID-0008-22/30
DESIGN PRESS.(bar): 3.8barg	PRESS. TEST(bar): 4.2barg	NDT: None	GENERAL NOTES: 1. ALL DIMENSIONS, ELEVATIONS, COORDINATES ARE IN MILLIMETER. 2. ROOT GAPS OF BUTT WELD FITTINGS ARE INCLUDED IN DIMENSIONS. 3. PIPING ROUTES, DIMENSIONS AND ELEVATIONS FOR 1 1/2" AND SMALLER SHALL BE CHECKED BY CONSTRUCTION CONTRACTOR. 4. FOR 1 1/2" AND SMALLER, SUPPORTS TO BE ADJUSTED BY CONSTRUCTION CONTRACTOR. 5. THE INSULATION IS BASED ON THE MAXIMUM /MAIN SIZE OF THE PIPE.FOR OTHER THICKNESS OF INSULATION REFER TO PROJECT INSULATION SPECIFICATION.
OPERATING TEMP.(C):	INSULATION TYPE: -	STRESS JOB NO :	
OPERATING PRESS.(bar): 2barg	INSULATION THK.: -	PAINT CODE NO.: P-11	



DRAWING TITLE: Piping Isometric Drawing for 2-LPN-4086-1P1(A)				
DRAWING No. KP-50-000-DD-PI-ISO-1001	CLASS 3	REV. 00	SHEET: 1 OF 1	SIZE: A3