

LIST OF MATERIALS AND PARTS		PROJECT					
פולגות שוחת ניתוב		SUBJECT: PLUGOT ROUTING STATION					
Item No.	Description	Size	Rating	Unit	Qty	Supplied by	Remarks
1	pipe 16 inch API 5L X52 SMLS w.t. 0.438 inch PSL2 , Bare,	16"	#600	m	12	PEI	
2	pipe 12 inch API 5L X52 SMLS w.t. 0.438 inch PSL2 , Bare,	12"	#600	m	12	PEI	
3	pipe 12 inch API 5L X52 SMLS w.t. 0.438 inch PSL2 WITH COATING Polyethylene THK= 3 mm, acc to spec	12"	#600	m	12	PEI	
4	pipe 8 inch API 5L X52 SMLS w.t. 0.375 inch PSL2 , Bare, □	8"	#600	m	6	PEI	
5	pipe 8 inch API 5L X52 SMLS w.t. 0.375 inch PSL2 WITH COATING Polyethylene THK= 3 mm, acc to spec	8"	#600	m	18	PEI	
6	pipe 6 inch API 5L X52 SMLS w.t. 0.344 inch PSL2 , Bare,	6"	#600	m	12	PEI	
7	pipe 6 inch API 5L X52 SMLS w.t. 0.344 inch PSL2 WITH COATING Polyethylene THK= 3 mm, acc to spec	6"	#600	m	24	PEI	
8	pipe 3/4 inch API 5L,PSL2 X42 sch 80 , Bare	3/4"	#600	m	1	PEI	
9	pipe 2 inch API 5L,PSL2 X42 sch 80 , Bare	2"	#600	m	6	PEI	
10	pipe 2 inch API 5L,PSL2 X42 sch 80 PSL2 WITH COATING Polyethylene THK= 3 mm, acc to spec	2"	#600	m	6	PEI	
11	pipe 1/2 inch API 5L,PSL2 X42 sch 80, Bare	1/2"	#600	m	1	PEI	
12	pipe 1 inch API 5L,PSL2 sch 80, Bare	1"	#600	m	12	PEI	
13	Elbow, R=5D,45° 12" API 5L X52 SMLS w.t.0.438 inch PSL2	12"	#600	pc	2	PEI	
14	Elbow, R=5D,90° 12" API 5L X52 SMLS w.t.0.438 inch PSL2	12"	#600	pc	1	PEI	
15	Elbow 90° 8" bw LR A234 WPR sch 40 c.s.	8"	#600	pc	5	PEI	
16	Elbow 90° 6" bw LR A234 WPR sch 40 c.s.	6"	#600	pc	7	PEI	
17	Elbow 90° 2" bw LR A234 WPR sch 80 c.s.	2"	#600	pc	3	PEI	
18	Elbow 90° 1" bw LR A234 WPR sch 80 c.s.	1"	#600	pc	2	PEI	
19	Elbow 90°, LR,1/2" CS, NPT, A105	1/2"	#3000	pc	2	PEI	
20	REVERS.SPADE.600#RF, 6" A283-C	6"	#600	pc	1	PEI	
21	GATE VALVE, parallel expanded, FE, DB&B 12 inch, With ROTOR Electric actuator	12"	#600	pc	1	PEI	
22	GATE VALVE, parallel expanded, FE, DB&B 8 inch, With ROTOR Electric actuator	8"	#600	pc	1	PEI	
23	GATE VALVE, parallel expanded, FE, DB&B 6 inch, With ROTOR Electric actuator	6"	#600	pc	1	PEI	
24	BALL VALVE FULL BORE D.B.B. 12 inch #600 HAND OPERATED ACCORDING TO SPEC	12"	#600	pc	1	PEI	
25	BALL VALVE FULL BORE D.B.B. 6 inch #600 HAND OPERATED ACCORDING TO SPEC	6"	#600	pc	1	PEI	
26	Ball valve 2 inch cs A105 #600	2"	#600	pc	3	PEI	
27	Ball valve 1 inch cs A105 #600	1"	#600	pc	1	PEI	
28	Ball valve 1 inch, se, npt #800	1"	#800	pc	3	PEI	
29	Ball valve 1/2 inch, se, npt #800	1/2"	#800	pc	12	PEI	
30	PRESSURE TRANSMITTER,SE NPT, 0 - 120 bar			pc	3	PEI	
31	PRESSURE INDICATOR, 0 - 120 bar, 1/2"NPT, with GLYCERINE			pc	3	PEI	
32	Safety Relief Valves-- spring loaded	3/4"	#3000	pc	1	PEI	
33	MONOLITING INSULATION JOINT	8"	PN100	pc	1	PEI	
34	MONOLITING INSULATION JOINT	6"	PN100	pc	2	PEI	
35	MONOLITING INSULATION JOINT	12"	PN100	pc	1	PEI	
36	GASKET "LINK SEAL" LS-475	6"		pc	1	PEI	
37	GASKET "LINK SEAL" LS-475	8"		pc	1	PEI	
38	" LINK SEAL " STEEL SLEEVE WS MODEL	WS 10-36-S		pc	2	PEI	
39	" LINK SEAL " STEEL SLEEVE WS MODEL	WS 12-37-S		pc	1	PEI	
40	Gasket 12 inch 2 mm #600	12"	#600	pc	4	PEI	
41	Gasket 8inch 2 mm #600	8"	#600	pc	2	PEI	
42	Gasket 6 inch 2 mm #600	6"	#600	pc	7	PEI	
43	Gasket 2 inch 2 mm #600	2"	#600	pc	4	PEI	
44	THREADOLET 12"x1" ,BW x NPT, #6000, A105N	12"x1"	#6000	pc	2	PEI	
45	THREADOLET 6"x1" ,BW x NPT, #6000, A105N	6"x1"	#6000	pc	3	PEI	
46	THREADOLET 16"x1" ,BW x NPT, #6000, A105N	16"x1"	#6000	pc	1	PEI	
47	THREADOLET 6"x2" ,BW x NPT, #6000, A105N	6"x2"	#6000	pc	2	PEI	
48	union cs 1/2 inch se npt, #3000	"1/2	#3000	pc	4	PEI	
49	union cs 1inch se npt, #3000	1"	#3000	pc	2	PEI	
50	hex head bushing ASTM B16.11 A105 1 * 1/2 inch se npt #3000	1" * 1/2"	#3000	pc	4	PEI	
51	hex head plugs ASME B16.11 A105 1/2 inch se npt, #3000	"1/2	#3000	pc	4	PEI	
52	hexagonal nipple 1/2 inch se npt #3000	"1/2	#3000	pc	20	PEI	
53	reducer tee ASME B 16.9 A234 WPR sch 80, 12 * 8 * 12 inch, we	12 * 8 * 12	#600	pc	1	PEI	
54	equal tee cs A234 WPR sch 80 6 inch, we	6"	#600	pc	2	PEI	
55	equal tee ASTM B1.20.1 A105 1/2 inch se npt #3000	"1/2	#3000	pc	8	PEI	
56	Flange ASTM B 16.5 A105 12 inch w.n.r.f #600 xs	12"	#600	pc	4	PEI	
57	Flange ASTM B 16.5 A105 8 inch w.n.r.f #600 xs	8"	#600	pc	2	PEI	
58	Flange ASTM B 16.5 A105 6 inch w.n.r.f #600 xs	6"	#600	pc	9	PEI	
59	Flange ASTM B 16.5 A105 2 inch w.n.r.f #600 xs	2"	#600	pc	4	PEI	
60	Flange ASTM B 16.5 A105 1 inch w.n.r.f #600 xs	1"	#600	pc	1	PEI	
61	Blind flange ASTM B 16.5 A105 2 inch r.f. #600 xs	2"	#600	pc	1	PEI	
62	eccentric reducer ASME B16.5 A105 we 16 * 12 inch xs	16"x12"	#600	pc	1	PEI	
63	concentric reducer ASME B16.5 A105 we 8 * 6 inch xs	8"x6"	#600	pc	1	PEI	
64	ASTM A193 B7, 5/8" X 115 STUD BOLT			pc	40	PEI	
65	ASTM A193 B7, 1" X 190 STUD BOLT			pc	108	PEI	
66	ASTM A193 B7, 1 1/8" X 203 STUD BOLT			pc	24	PEI	
67	ASTM A193 B7, 1 1/4" X 235 STUD BOLT			pc	80	PEI	
BARAN ISRAEL LTD. MENACHEM BEGIN 5, BEIT DAGAN . TEL: 08-6200100		Prepared for	Prep.I.T	CH. N.Z	App.N.N	LIST No.	Issue:
		PETROLEUM & ENERGY INFRASTRUCTURES LTD	2.3.21	2.3.21	2.3.21		

רשימת חומרים קו אורכי פלוגות קדמה מזרח LIST OF MATERIALS AND PARTS		PROJECT: SUBJECT: PLUGOT-KEDMA PIPE WORK				
Item No.	Description	Size	Unit	Qty	Supplied by	
1	Steel Pipe for casing 24inchX0.5inch,Material-API 5L,X42 /X52 ,PSL-2,Bare,SAWL	24" x 0.5"	m	453	PEI	
2	pipe 18 inch API 5L X52 SMLS w.t. 0.5 inch PSL2 ,Bare, acc to spec	18" x 0.5"	m	20	PEI	
3	pipe 12 inch API 5L X52 SMLS w.t. 0.438 inch PSL2 WITH COATING Pollyethylene THK= 3 mm , acc to spec	12 3/4" x 0.438"	m	11,626	PEI	
4	pipe 12 inch API 5L X52 SMLS w.t. 0.438 inch PSL2 WITH COATING POLLYPROPYLENE THK= 4 mm , acc to spec	13 3/4" x 0.438"	m	381	PEI	
4	pipe 2 inch API 5L,PSL2 X42 sch 80 , Bare	2"	m	96	PEI	
5	STEEL PIPE API 5L, L290 (X42) , LONGITUDINAL SEAM, THREE LAYERS EXTRUDED HDPE COATING, THK-3mm	2 3/8" x 0.218"	m	96	PEI	
6	CAP ASTM B16.9, A234, WPR, 12 inch we xs	12"	pc	2		
7	FLANGE WN,RF,ASTM A-105, ASME B 16.5	2"	pc	31	PEI	
8	ELL.90°, L.R. CS WE, ASTM A105, ASME B16.9	2"	pc	42	PEI	
9	STUD BOLTS + 2 NUTS, ASTM A-193/A-194	5/8" x 3 1/2"	pc	62	PEI	
10	RED.ECC. CS WE, ASTM A105, ASME B16.9	24"x18"	pc	14	PEI	
11	INSULATOR MF midi FOR PIPE 12"	12"	pc	26	PEI	
12	PIPE SUPPORT "DIMEX"	12"	pc	14	PEI	
13	Casing seal CSEM-F/ CASEAL 540/180-425	18"x 12"	pc	14	PEI	
14	TAPE INNER DENSO DENSOLEN -N60 CORE DIAMETER 41mm	100mm x 10m	roll	809	CONTRACTOR	
15	TAPE OUTER DENSO DENSOLEN -S20 CORE DIAMETER 41mm	100mm x 24m	roll	455	CONTRACTOR	
16	DENSOLEN PRIMER HT		liter	202	CONTRACTOR	
17	EMERGENCY CART		pc	1	CONTRACTOR	
18	PE-MELT -STICK	25mm x 305mm	pc	20	PEI	
19	PP-MELT -STICK	25mm x 305mm	pc	20	PEI	
20	REPAIR PATCH PERP80	425x10000	pc	8	PEI	
21	FILLER MASTIC DENSOLEN - WP	30mm x 8mm x 3m	roll	20	PEI	
22	CLEANING PIG - WCK-3	12"	pc	5	PEI	
23	CLEANING PIG - WCK-3	10"	pc	5	PEI	
24	BATCHING PIG - VANTAGE V 3DD2CC	12"	pc	2	PEI	
25	BATCHING PIG - VANTAGE V 3DD2CC	10"	pc	2	PEI	
26	FOAM PIG - REDSKIN Bristle Pig (RBR - 7)	12"	pc	5	PEI	
27	FOAM PIG - REDSKIN Bristle Pig (RBR - 7)	10"	pc	5	PEI	
28	MARKING TAPE RED / WHITE Width 7 cm		m	11,626	CONTRACTOR	
29	induction bend, R=5D,30° 12" API 5L X52 SMLS w.t.0.438 inch PSL2	12"	pc	12	PEI	
30	induction bend, R=5D,45° 12" API 5L X52 SMLS w.t.0.438 inch PSL2	12"	pc	7	PEI	
31	induction bend, R=5D,60° 12" API 5L X52 SMLS w.t.0.438 inch PSL2	12"	pc	7	PEI	
32	induction bend, R=5D,90° 12" API 5L X52 SMLS w.t.0.438 inch PSL2	12"	pc	9	PEI	
BARAN ISRAEL LTD. MENACHEM BEGIN 5, BEIT DAGAN , TEL: 08-6200100		Prepared for PETROLEUM & ENERGY INFRASTRUCTURES LTD	Ckd N.Z.	App. N.Z.	Date: 18.07.21	LIST No.
CATHODIC PROTECTION MATERIALS						
31	REFERENCE ELCTRODE SSD/VOLTAGE LIMITER		pc	8		
32	CABLE N2XY – 10 mm		m	11,626		
33	Supply and installation of CABLE N2XY –25 mm		m	220		
34	CP station ("box" type)		pc	72.6		
35	ZINC RIBBON PLUS		m	660		
36	Pin brazing		pc	319		
37	Perforated sleeve conduit 50 mm pipe according to the israeli standart		m	825		
38	9 lbs mg anod for temporary catho		pc	25		
39	LAYING FIBER OPTIC CABLES					
40	Flatliner with 2 pipe Microduct DL 16/12 and Metallic Conductor Tracer	16/12	m	11,626		
41	Communication Base with Flat base and Cover	Dia. 800, Height 600	pc	134		
42	Fiber Optic Cable FTX-9-08x12-D-P-D BK		m	11,626		
43	Cable Connection Accessories		pc	As Required		
44	Microduct DL Connection Accessories		pc	As Required		
45	2" Sleeve pipe for fiber optic communication		m	11,626		
BARAN ISRAEL LTD. MENACHEM BEGIN 5, BEIT DAGAN , TEL: 08-6200100		Prepared for PETROLEUM & ENERGY INFRASTRUCTURES LTD	Ckd N.Z.	App. N.Z.	Date: 18.07.21	LIST No.

LIST OF MATERIALS AND PARTS		PROJECT:				
		SUBJECT: KEDMA-DALIA PIPE WORK				
Item No.	Description	Size	Unit	Qty	Supplied by	
1	Steel Pipe for casing 24inchX0.5inch,Material-API 5L,X42 /X52 ,PSL-2,Bare,SAWL	24" x 0.5"	m	30	PEI	
2	pipe 18 inch API 5L X52 SMLS w.t. 0.5 inch PSL2 ,Bare, acc to spec	18" x 0.5"	m	6	PEI	
3	pipe 12 inch API 5L X52 SMLS w.t. 0.438 inch PSL2 WITH COATING Pollyethylene THK= 3 mm , acc to spec	12 3/4" x 0.438"	m	3,387	PEI	
4	pipe 12 inch API 5L X52 SMLS w.t. 0.438 inch PSL2 WITH COATING POLLYPROPYLENE THK= 4 mm , acc to spec	12 3/4" x 0.438"	m	440	PEI	
4	pipe 2 inch API 5L,PSL2 X42 sch 80 , Bare	2"	m	36	PEI	
5	STEEL PIPE API 5L, L290 (X42) , LONGITUDINAL SEAM, THREE LAYERS EXTRUDED HDPE COATING, THK-3mm	2 3/8" x 0.218"	m	36	PEI	
6	CAP ASTM B16.9, A234, WPR, 12 inch we xs	12"	pc	4		
7	FLANGE WN,RF,ASTM A-105, ASME B 16.5	2"	pc	13	PEI	
8	ELL.90°, L.R. CS WE, ASTM A105, ASME B16.9	2"	pc	18	PEI	
9	STUD BOLTS + 2 NUTS, ASTM A-193/A-194	5/8" x 3 1/2"	pc	26.40	PEI	
10	RED.ECC. CS WE, ASTM A105, ASME B16.9	24"x18"	pc	6	PEI	
11	INSULATOR MF midi FOR PIPE 12"	12"	pc	105.50	PEI	
12	PIPE SUPPORT "DIMEX"	12"	pc	6	PEI	
13	Casing seal CSEM-F/ CASEAL 540/180-425	18"x 12"	pc	6	PEI	
14	TAPE INNER DENSO DENSOLEN -N60 CORE DIAMETER 41mm	100mm x 10m	roll	235.61	CONTRACTOR	
15	TAPE OUTER DENSO DENSOLEN -S20 CORE DIAMETER 41mm	100mm x 24m	roll	132.53	CONTRACTOR	
16	DENSOLEN PRIMER HT		liter	59	CONTRACTOR	
17	EMERGENCY CART		pc	1	CONTRACTOR	
18	PE-MELT -STICK	25mm x 305mm	pc	20	PEI	
19	PP-MELT -STICK	25mm x 305mm	pc	20	PEI	
20	REPAIR PATCH PERP80	425x10000	pc	4	PEI	
21	FILLER MASTIC DENSOLEN - WP	30mm x 8mm x 3m	roll	10	PEI	
22	CLEANING PIG - WCK-3	12"	pc	5	PEI	
23	CLEANING PIG - WCK-3	10"	pc	5	PEI	
24	BATCHING PIG - VANTAGE V 3DD2CC	12"	pc	2	PEI	
25	BATCHING PIG - VANTAGE V 3DD2CC	10"	pc	2	PEI	
26	FOAM PIG - REDSKIN Bristle Pig (RBR - 7)	12"	pc	5	PEI	
27	FOAM PIG - REDSKIN Bristle Pig (RBR - 7)	10"	pc	5	PEI	
28	MARKING TAPE RED / WHITE Width 7 cm		m	3,387	CONTRACTOR	
29	induction bend, R=5D,30° 12" API 5L X52 SMLS w.t.0.438 inch PSL2	12"	pc	4	PEI	
30	induction bend, R=5D,45° 12" API 5L X52 SMLS w.t.0.438 inch PSL2	12"	pc	2	PEI	
31	induction bend, R=5D,60° 12" API 5L X52 SMLS w.t.0.438 inch PSL2	12"	pc	1	PEI	
32	induction bend, R=5D,90° 12" API 5L X52 SMLS w.t.0.438 inch PSL2	12"	pc	4	PEI	
BARAN ISRAEL LTD. MENACHEM BEGIN 5, BEIT DAGAN , TEL: 08-6200100		Prepared for	Ckd	App.	Date:	LIST No.
		PETROLEUM & ENERGY INFRASTRUCTURES LTD	N.Z.	N.Z.	18.07.21	
CATHODIC PROTECTION MATERIALS						
31	REFERENCE ELCTRODE SSD/VOLTAGE LIMITER		pc	8		
32	CABLE N2XY – 10 mm		m	3,387		
33	Supply and installation of CABLE N2XY –25 mm		m	220		
34	CP station ("box" type)		pc	72.6		
35	ZINC RIBBON PLUS		m	660		
36	Pin brazing		pc	319		
37	Perforated sleeve conduit 50 mm pipe according to the israeli standart		m	825		
38	9 lbs mg anod for temporary catho		pc	25		
39	LAYING FIBER OPTIC CABLES					
40	Flatliner with 2 pipe Microduct DL 16/12 and Metallic Conductor Tracer	16/12	m	3,387		
41	Communication Base with Flat base and Cover	Dia. 800, Height 600	pc	134		
42	Fiber Optic Cable FTX-9-08x12-D-P-D BK		m	3,387		
43	Cable Connection Accessories		pc	As Required		
44	Microduct DL Connection Accessories		pc	As Required		
45	2" Sleeve pipe for fiber optic communication		m	3,387		
BARAN ISRAEL LTD. MENACHEM BEGIN 5, BEIT DAGAN , TEL: 08-6200100		Prepared for	Ckd	App.	Date:	LIST No.
		PETROLEUM & ENERGY INFRASTRUCTURES LTD	N.Z.	N.Z.	18.07.21	

Item No.	Description	PROJECT:				Document No.
		Size	Rating	Unit	Qty	001-BAR-MAN-MTO-17-P0
LIST OF MATERIALS AND PARTS		SUBJECT : KEDMA MIZRAH RUTTING STATION				Supplied by
1	pipe 10 inch API 5L X52 SMLS w.t. 0.438 inch PSL2 , Bare,	10"		m	14.6	PEI
2	Pipe 12 inch API 5L X52 SMLS w.t. 0.438 inch PSL2 WITH COATING Polyethylene THK= 3 mm, acc to spec	12 3/4" x 0.438"		m	24	PEI
3	pipe 12 inch API 5L X52 SMLS w.t. 0.438 inch PSL2 , Bare,	12"		m	34.4	PEI
4	Pipe 10 inch API 5LB SMLS w.t. 0.438 inch PSL2 WITH COATING Polyethylene THK= 3 mm, acc to spec	10 3/4" x 0.438"		m	8	PEI
5	pipe 8 inch API 5L X52 SMLS w.t. 0.375 inch PSL2 , Bare, □	8"		m	27.9	PEI
6	pipe 6 inch API 5L X52 SMLS w.t. 0.344 inch PSL2 , Bare,	6"		m	27.4	PEI
7	Pipe 6 inch API 5LB SMLS w.t. 0.344 inch PSL2 WITH COATING Polyethylene THK= 3 mm, acc to spec	6 3/4" x 0.344"		m	12	PEI
8	pipe 1/2 inch API 5L,PSL2 X42 sch 80, Bare	1/2"		m	1	PEI
9	pipe 1 inch API 5L,PSL2 sch 80, Bare	1"		m	1	PEI
10	Elbow 90° 12" bw LR A234 WPR sch XS c.s.	12"		pc	2	PEI
11	Elbow 90° 10" bw LR A234 WPR sch XS c.s.	10"		pc	2	PEI
12	Elbow 90° 8" bw LR A234 WPR sch 80 c.s.	8"		pc	18	PEI
13	Elbow 90° 6" bw LR A234 WPR sch 80 c.s.	6"		pc	6	PEI
14	Elbow 45° 12" 5D API 5L X52 SMLS w.t. 0.438 inch PSL2 , Bare, acc to spec	12"		pc	4	PEI
15	Elbow 45° 10" 5D API 5L X52 SMLS w.t. 0.438 inch PSL2 , Bare, acc to spec	10"		pc	3	PEI
16	concentric reducer ASME B16.5 A105 we 8 * 6 inch sch 80	8"x6"		pc	2	PEI
17	Flange ASTM B 16.5 A105 8 inch w.n.r.f #600 neck sch 80	8"	#600	pc	11	PEI
18	Flange ASTM B 16.5 A105 6 inch w.n.r.f #600 neck sch 80	6"	#600	pc	9	PEI
19	Flange ASTM B 16.5 A105 10 inch w.n.r.f #600 neck XS	10"	#600	pc	13	PEI
20	Flange ASTM B 16.5 A105 12 inch w.n.r.f #600 neck XS	12"	#600	pc	5	PEI
21	hex head bushing ASTM B16.11 A105 1 * 1/2 inch se npt #3000	1" * 1/2"	#3000	pc	12	PEI
22	union cs 1/2 inch se npt, #3000	1/2"	#3000	pc	6	PEI
23	hexagonal nipple 1/2 inch se npt #3000	1/2"	#3000	pc	46	PEI
24	Tredolet ASME B-1.20.1 A-105 8*1 inch npt #3000	8"x1"	#3000	pc	4	PEI
25	Tredolet ASME B-1.20.1 A-105 12*1 inch npt #3000	12"x1"	#3000	pc	9	PEI
26	Tredolet ASME B-1.20.1 A-105 10*1 inch npt #3000	10"x1"	#3000	pc	2	PEI
27	reducer tee ASME B 16.9 A234 WPR sch 80, 8 * 6 * 8 inch, we	8"x6"x8"		pc	1	PEI
28	reducer tee ASME B 16.9 A234 WPR sch 80, 12 * 8 * 12 inch, we	12"x8"x12"		pc	4	PEI
29	reducer tee ASME B 16.9 A234 WPR sch XS, 10 * 8 * 10 inch, we	10"x8"x10"		pc	1	PEI
30	equal tee cs A234 WPR sch 80 8 inch, we	8"x8"x8"		pc	2	PEI
31	equal tee ASTM B1.20.1 A105 1/2 inch se npt #3000	1/2"x1/2"x1/2"	#3000	pc	16	PEI
32	ASTM A193 B7, 1" X 7 1/4" STUD BOLT	1" X 7 1/4"		set	72	PEI
33	ASTM A193 B7, 1 1/8" x 7 3/4" STUD BOLT B7/2H	1 1/8" x 7 3/4"		set	120	PEI
34	ASTM A193 B7, 1 1/4" x 8 3/4" STUD BOLT B7/2H	1 1/4" x 8 3/4"		set	76	PEI
35	ASTM A193 B7, 1 1/4" x 9 1/4" STUD BOLT B7/2H	1 1/4" x 9 1/4"		set	260	PEI
36	ASTM A193 B7, 5/8" x 4 1/2" STUD BOLT B7/2H	5/8" x 4 1/2"		set	48	PEI
37	ASTM A193 B7, 5/8" x 3 3/4" STUD BOLT B7/2H	5/8" x 3 3/4"		set	16	PEI
38	Cap 12" bw LR A234 WPR sch XS c.s.	12"		pc	3	PEI
39	Cap 10" bw LR A234 WPR sch XS c.s.	10"		pc	1	PEI
40	Gasket klingerit 8 Inch c4408 #600 or equivalent	8"	#600	pc	10	PEI
41	Gasket klingerit 6 Inch c4408 #600 or equivalent	6"	#600	pc	6	PEI
42	Gasket klingerit 12 Inch c4408 #600 or equivalent	12"	#600	pc	12	PEI
43	Gasket klingerit 10 Inch c4408 #600 or equivalent	10"	#600	pc	4	PEI
44	Gasket klingerit 2 Inch c4408 #600 or equivalent	2"	#600	pc	6	PEI
45	Gasket klingerit 1 Inch c4408 #600 or equivalent	1"	#600	pc	4	PEI
46	hex head plugs ASME B16.11 A105 1/2 inch se npt, #3000	1/2"	#3000	pc	10	PEI
47	GATE VALVE, parallel expanded, FE, DB&B, With ROTOR Electric actuator	12"	#600	pc	5	PEI
48	BALL VALVE FULL BORE D.B.B. 12 inch #600 HAND OPERATED ACCORDING TO SPEC	12"	#600	pc	1	PEI
49	GATE VALVE, parallel expanded, FE, DB&B, With ROTOR Electric actuator	10"	#600	pc	1	PEI
50	BALL VALVE FULL BORE D.B.B. 10 inch #600 HAND OPERATED ACCORDING TO SPEC	10"	#600	pc	1	PEI
51	GATE VALVE, parallel expanded, FE, DB&B, With ROTOR Electric actuator	8"	#600	pc	5	PEI

52	BALL VALVE FULL BORE D.B.B. 6 inch #600 HAND OPERATED ACCORDING TO SPEC	6"	#600	pc	2	PEI
53	Ball valve 1 inch , #800 , se, npt	1"	CL800	pc	24	PEI
54	Ball valve 1/2 inch , #800 , se, npt	1/2"	CL800	pc	10	PEI
55	PIPE SUPPORT "DIMEX"	12"		pc	3	PEI
56	PIPE SUPPORT "DIMEX"	10"		pc	1	PEI
57	MONOLITING INSULATION JOINT	12"	PN100	pc	5	PEI
58	MONOLITING INSULATION JOINT	10"	PN100	pc	3	PEI
59	MONOLITING INSULATION JOINT	6"	PN100	pc	4	PEI
60	pipe 16 inch API 5L X52 SMLS w.t. 0.5 inch PSL2 , Bare, □	16"		m	6	PEI
61	pipe 12 inch API 5L X52 SMLS w.t. 0.438 inch PSL2 , Bare,	12"		m	6	PEI
62	pipe 1 inch API 5L,PSL2 sch 80, Bare	1"		m	0.3	PEI
63	Flange ASTM B 16.5 A105 12 inch w.n.r.f #600 neck XS	12"	#600	pc	1	PEI
64	concentric reducer ASME B16.5 A105 we 16 * 12 inch sch 80	16"X10"		PC	1	PEI
65	WELDOLET , BW , A-106 16"X1"	16"X1"	#3000	PC	2	PEI
66	WELDOLET , BW , A-106 16"X2"	16"X2"	#3000	PC	1	PEI
67	WELDOLET , BW , A-106 16"X6"	16"X6"	#3000	PC	1	PEI
68	Flange ASTM B 16.5 A105 2 inch w.n.r.f #600 neck sch 80	2"	#600	PC	1	PEI
69	Flange ASTM B 16.5 A105 1 inch w.n.r.f #600 neck sch 80	1"	#600	PC	2	PEI
70	Flange ASTM B 16.5 A105 1 inch w.n.r.f #600 neck sch 80	6"	#600	PC	1	PEI
71	pipe 14 inch API 5L X52 SMLS w.t. 0.5 inch PSL2 , Bare, □	14"		M	4	PEI
72	pipe 10 inch API 5L X52 SMLS w.t. 0.438 inch PSL2 , Bare,	10"		M	4	PEI
73	pipe 1 inch API 5L,PSL2 sch 80, Bare	1"		m	0.3	PEI
74	Flange ASTM B 16.5 A105 10 inch w.n.r.f #600 neck XS	10"	#600	pc	1	PEI
75	concentric reducer ASME B16.5 A105 we 14 * 10 inch sch 80	14"X10"		PC	1	PEI
76	WELDOLET , BW , A-106 14"X1"	14"X1"	#3000	PC	2	PEI
77	WELDOLET , BW , A-106 14"X2"	14"X2"	#3000	PC	1	PEI
78	WELDOLET , BW , A-106 14"X6"	14"X6"	#3000	PC	1	PEI
79	Flange ASTM B 16.5 A105 2 inch w.n.r.f #600 neck sch 80	2"	#600	PC	2	PEI
80	Flange ASTM B 16.5 A105 1 inch w.n.r.f #600 neck sch 80	1"	#600	PC	1	PEI
81	Flange ASTM B 16.5 A105 6 inch w.n.r.f #600 neck sch 80	6"	#600	PC	1	PEI
82	Flange ASTM B 16.5 A105 1 inch w.n.r.f #600 neck sch 80	1"	#600	PC	4	PEI
83	NIPPLE, NPT, SE	1"		pc	2	PEI
84	Ball valve 1 inch , #800 , se, npt	1"	CL800	pc	2	PEI
85	REDUCING HEX HEAD BUSHING#3000	3/4"X1"	#3000	pc	2	PEI
86	union cs 1 inch se npt, #3000	1"		pc	4	PEI
87	ELL.90°, LR, CS, NPT, A105	1"	#3000	pc	4	PEI
88	pipe 1 inch API 5L,PSL2 sch 80, Bare	1"		m	1	PEI
89	pipe 2 inch API 5L X52 SMLS w.t. 0.375 inch PSL2 , Bare, □	2"		m	2	PEI
90	Ball valve 2" #600 Hand operated	2"	#600	pc	2	PEI
91	Flange ASTM B 16.5 A105 2 inch w.n.r.f #600 neck sch 80	2"	#600	PC	6	PEI
92	Elbow 90° 2" bw LR A234 WPR sch 40 c.s.	2"		PC	2	PEI
93	equal tee cs A234 WPR sch 40, 2 inch, we	2"x2"x2"		PC	2	PEI
94	concentric reducer ASME B16.5 A105 we 2 * 1 inch SCH 40	2"X1"		PC	2	PEI
95	DT	1/2"		pc	2	PEI
96	SI	1/2"		pc	2	PEI
97	PRESSURE INDICATOR, 0 - 120 bar,1/2"NPT,with GLYCERINE	1/2"		pc	10	PEI
98	PRESSURE TRANSMITTER,SE,NPT, 0 - 120 bar	1/2"		pc	6	PEI
99	PIG-SIG , V-SCRAPER PASSAGE INDICATOR WITH TREAD - 0 - RING NIPPLE	1"		pc	2	PEI
100	Safety Relief Valves– spring loaded	3/4"X1"		pc	2	PEI
	BARAN ISRAEL LTD. MENACHEM BEGIN 5, BEIT DAGAN , TEL: 08-6200100	Prepared for	Prep. R.H.	CH. N.Z	App. N.Z	LIST No.
		PETROLEUM & ENERGY	18.07.21	18.07.21	18.07.21	

LIST OF MATERIALS AND PARTS		PROJECT:			Document No
		SUBJECT : DALIA TZAFIT STATION			001-BAR-MAN-MTO-18-P0
Item No.	Description	Size	Unit	Qty	Supplied by
1	pipe 12 inch API 5L X52 SMLS w.t. 0.438 inch PSL2 , Bare,	12"	m	6	PEI
2	pipe 8 inch API 5L X52 SMLS w.t. 0.375 inch PSL2 , Bare, □	8"	m	3	PEI
3	pipe 6 inch API 5L X52 SMLS w.t. 0.344 inch PSL2 , Bare,	6"	m	6	PEI
4	pipe 1/2 " API 5L,PSL2 X42 sch 80 , Bare	1/2"	m	3	PEI
5	"PLIDCO" Clamp + Rings (normal length, seal ring material - Haycar, 1500 psi)	6"	pc	1	PEI
6	Elbow 45° 6" 5D API 5L X52 SMLS w.t. 0.438 inch PSL2 , Bare, acc to spec	6"	pc	3	PEI
7	reducer tee ASME B 16.9 A234 WPR sch 80, 8 * 6 * 8 inch, we	6"x8"x6"	pc	1	PEI
8	reducer tee ASME B 16.9 A234 WPR sch XS, 12 * 8 * 12 inch, we	12"x8"x12"	pc	4	PEI
9	Cap 12" bw LR A234 WPR sch XS c.s.	12"	pc	2	PEI
10	Cap 6" bw LR A234 WPR sch 80 c.s.	6"	pc	2	PEI
11	THREADOLET 12"x1" A-105 GR-II Scrd NPT	12"x1"	pc	2	PEI
12	THREADOLET 8"x1" A-105 GR-II Scrd NPT	8"x1"	pc	1	PEI
13	THREADOLET 6"x1" A-105 GR-II Scrd NPT	6"x1"	pc	3	PEI
14	PIPE SUPPORT "DIMEX"	12"	pc	2	PEI
15	PIPE SUPPORT "DIMEX"	6"	pc	2	PEI
16	MONOLITING INSULATION JOINT	12"	pc	2	PEI
17	MONOLITING INSULATION JOINT	6"	pc	2	PEI
18	GATE VALVE, parallel expanded, FE, DB&B 12 inch, With ROTOR Electric actuator	12"	pc	2	PEI
19	GATE VALVE, parallel expanded, FE, DB&B 8 inch, With ROTOR Electric actuator	8"	pc	1	PEI
20	GATE VALVE, parallel expanded, FE, DB&B 6 inch, With ROTOR Electric actuator	6"	pc	2	PEI
21	Ball valve 1 inch , #800 , se, npt	1"	pc	6	PEI
22	Ball valve 1/2 inch , #800 , se, npt	1/2"	pc	18	PEI
23	Flange ASTM B 16.5 A105 12" W.N. R.F 600# neck XS	12"	pc	4	PEI
24	Flange ASTM B 16.5 A105 8" W.N. R.F 600# sch 80	8"	pc	2	PEI
25	Flange ASTM B 16.5 A105 6" W.N. R.F 600# xs sch 80	6"	pc	4	PEI
26	Gasket klingerit 12 Inch c4408 #600 or equivalent	12"	pc	4	PEI
27	Gasket klingerit 8 Inch c4408 #600 or equivalent	8"	pc	2	PEI
28	Gasket klingerit 6 Inch c4408 #600 or equivalent	6"	pc	4	PEI
29	ASTM A193 B7, 1 1/4" x 9 1/4" STUD BOLT B7/2H		set	80	PEI
30	ASTM A193 B7, 1 1/8" x 7 3/4" STUD BOLT B7/2H		set	24	PEI
31	ASTM A193 B7, 1" X 7 1/4" STUD BOLT		set	48	PEI
32	PRESSURE INDICATOR, 0 - 120 bar,1/2"NPT,with GLYCERINE	1/2"	pc	6	PEI
33	PRESSURE TRANSMITTER,SE,NPT, 0 - 120 bar	1/2"	pc	6	PEI
34	NIPPLE, NPT, SE	1"	pc	18	PEI
35	union cs 1 inch se npt, #3000	1\2"	pc	6	PEI
36	REDUCING HEX HEAD BUSHING#3000	1/2"X1"	pc	6	PEI
37	hexagonal nipple 1/2 inch se npt #3000	1/2"	pc	30	PEI
38	equal tee ASTM B1.20.1 A105 1/2 inch se npt #3000	1/2"x1/2"x1/2"	pc	16	PEI
	BARAN ISRAEL LTD. MENACHEM BEGIN 5, BEIT DAGAN , TEL: 08-6200100	Prepared for	CH. N.Z	App. N.Z	LIST No.
		PETROLEUM & ENERGY INFRASTRUCTURE RES LTD	18.07.21	18.07.21	