



Project no.	Project Name	Package	Nos. Design	Qty. Fab	Description	Owner	Client	Equipment type					U or R-Stamp		Project Scope			
								Pressure Vessel	Shop Tank	Column/Reactor	Heat Exchanger	Pig Launcher/Receiver	Filter housing	Required	Design	Drawing	Fab.	Repair
3507	Fabrication of Tube Bundle for Heat Exchanger and Pressure Vessel	Tube Bundle for Heat Exchanger No. 10E007		1	Ø19.05 x 2.111 x 6100L x 236 Holes	TPI	TPI				/						/	
		Tube Bundle for Heat Exchanger No. 10E009		1	Ø19.05 x 2.111 x 6100L x 108 Holes			/					/					
		Tube Bundle for Heat Exchanger No. 10E012		1	Ø19.05 x 2.111 x 6100L x 328 Holes			/					/					
		Tube Bundle for Heat Exchanger No. 11E008		1	Ø19.05 x 2.111 x 6100L x 78 Holes			/					/					
		Tube Bundle for Heat Exchanger No. 12E004		1	Ø19.05 x 2.111 x 6100L x 376 Holes			/					/					
		Tube Bundle for Heat Exchanger No. 12E005		1	Ø19.05 x 2.111 x 6100L x 1020 Holes			/					/					
		Tube Bundle for Heat Exchanger No. 12E014		1	Ø19.05 x 2.111 x 6100L x 198 Holes			/					/					
		Tube Bundle for Heat Exchanger No. 13E002		1	Ø16" OD. x Sch.20S x 7000L x Ø19.05 x 2.111 x 6100L x 146 Holes			/					/					
		Tube Bundle for Heat Exchanger No. 13A001-E01		1	Ø560 ID. x 3500 TL-TL x 10t / Head Ellip. 2:1(Hor.) only Shell side			/					/					
Tube Bundle for Heat Exchanger No. 13E005		1	Ø10" OD. x Sch.40 x 4000L x Ø19.05 x 2.111 x 3700L x 48 Holes	/					/									
Salt Dryer Pressure Vessel		1	Ø1620 ID. x 4000 TL-TL x 12t / Head Ellip. 2:1(Hor.)	/					/									
3508	Fabrication of Reactor Vessel and Heat Exchanger for TOA Paint Expansion Plant Project	Reactor No. R-151		1	Ø2100 ID. x 2300 TL-TL x 12t / Head Ellip. 2:1 (Ver.)	TOA (Painting Plant)	APTECH	/									/	
		Decanter Tank No. D-151		1	Ø700 ID. x 1250 TL-TL x 5t / Head Ellip. 2:1 (Ver.)			/					/					
		MIBK Tank No. D-152		1	Ø1243 ID. x 1500 TL-TL x 6t / Head Ellip. 2:1 (Ver.)			/					/					
		Scrubber Tank No. S-151		1	Ø1300 ID. x 1500 TL-TL x 6t / Head Ellip. 2:1 (Ver.)			/					/					
		Thinning Tank No. T-151		1	Ø2700 ID. x 3200 TL-TL x 10t / Head Ellip. 2:1 (Ver.)			/					/					
		Monomer Tank No. T-152		1	Ø1700 ID. x 2300 TL-TL x 9t / Head Ellip. 2:1 (Ver.)			/					/					
		Inhibitor Tank No. T-153		1	Ø954 ID. x 1524 TL-TL x 4.5t / Bottom Cone (Ver.)			/					/					
		Total Condenser Heat Exchanger No. E-151		1	Ø700 ID. x 6t x 4420L x Ø42.3 x Sch.10S x 3000L x 114 Holes			/					/					
		Vent Condenser Heat Exchanger No. E-152		1	Ø381 ID. x 5t x 2500L x Ø21.3 x Sch.10S x 1992L x 104 Holes			/					/					
		Column Condenser Heat Exchanger No. E-153		1	Ø665 ID. x 6t x 3373L x Ø88.9 x Sch.10S x 1504L x 21 Holes			/					/					
		Column Condenser Heat Exchanger No. E-154		1	Ø508 ID. x 6t x 1708L x Ø60.3 x Sch.10S x 1004L x 28 Holes			/					/					
		Disulfide Separator 46D004		1	Ø1000 ID. x 4000 TL-TL x 10t / Head Ellip. 2:1(Hor.)			/					/					
		Deaerator 31D050		1	Ø1550 ID. x 2500 TL-TL x 8t / Head Ellip. 2:1 (Ver.)			/					/					
		Debutanizer Condensers 200-E7A/B		2	Ø730 ID. x 10t x 7000L x Ø19.05 x 2.111 x 6100L x 528 Holes/Unit			/					/					
2003	Fabrication of Vessel	Disulfide Separator 46D004		1	Ø1000 ID. x 4000 TL-TL x 10t / Head Ellip. 2:1(Hor.)	TPI	TPI	/								/		
		Deaerator 31D050		1	Ø1550 ID. x 2500 TL-TL x 8t / Head Ellip. 2:1 (Ver.)	TPI	TPI	/								/		
3512	Fabrication of Heat Exchanger	Debutanizer Condensers 200-E7A/B		2	Ø730 ID. x 10t x 7000L x Ø19.05 x 2.111 x 6100L x 528 Holes/Unit	ATC	ATC				/					/		
		U-Tube Bundle 540-E8		1	Ø1230 ID. x 13t x 6400L x Ø25.4 x 2.111 x 4880L x 930 U	ATC	ATC				/							
4112	Slop Drum & Foam Tank	Foam Tank & Slop Drum		2	2	D-1601 ID:1100xT-T:2200 x 8t D-1605 ID:1200xT-T:3450 x 9t	ROC	REPCO	/							/	/	/
		Dimmer & Heavier Cutter Column No. C-1601		1	1	Ø850 ID. x 28300 TL-TL x 12t / Head Ellip. 2:1 (Ver.)	BST	BST	/			/	/	/	/	/	/	/
Feedgas Water Guard No. S-1601		1	1	Ø1300 ID. x 2775 TL-TL x 6t / Head Ellip. 2:1 (Ver.)	/					/	/	/	/	/	/	/	/	
Feedgas Water Guard No. V-1601		1	1	Ø1600 ID. x 4500 TL-TL x 8t / Head Ellip. 2:1(Hor.)	/					/	/	/	/	/	/	/	/	
OVHD Collector No. V-1602		1	1	Ø950 ID. x 2400 TL-TL x 8t / Head Ellip. 2:1(Hor.)	/					/	/	/	/	/	/	/	/	
Sec. Refrigerant Buffer Vessel No. V-1603		1	1	Ø750 ID. x 1600 TL-TL x 8t / Head Ellip. 2:1 (Ver.)	/					/	/	/	/	/	/	/	/	
Feed Condenser Heat Exchanger E-1601		1	1	Ø800 ID. x 8t x 4125L x Ø25.4 x 2.111 x 3150L x 202 U	/					/	/	/	/	/	/	/	/	
OVHD Condenser Heat Exchanger E-1602		1	1	Ø850 ID. x 9t x 4930L x Ø19.05 x 2.111 x 4000L x 776 Holes	/					/	/	/	/	/	/	/	/	
Reboiler Heat Exchanger E-1603A/R		1	2	Ø500 ID. x 8t x 4420L x Ø25.4 x 2.111 x 3800L x 118 Holes/Unit	/					/	/	/	/	/	/	/	/	
Heavy Oil Steam Heater		1	1	EGA10-AC001 ID:600xT-T:3843 x 10t	Electricity of Vietnam	Lilama			/				/	/	/	/	/	/
4406	Filter Monitor and Water separator	Filter Monitor and Water separator		3	12	FFM-12-12 ID:303xT-T:1235 x 10.3t 2 U' FW7-5/648-16 ID:501xT-T:1244 x 8t 2 U'			Novatech	Novatech			/		/	/	/	/
		Filter water separator		1	2	FFM-29-12 ID:446xT-T:1230 x 8t	Novatech	Novatech			/		/	/	/	/	/	
4502	Design and Fabrication of Vessel for Gas Filter/Coalescer Housing	Cartridge Filter Vessel PFIL-6001A/B		2	2	Ø550 ID. x 2250 TL-TL x 10t / Head Ellip. 2:1 (Ver.)	ESSO / Foster Wheeler	PALL			/		/	/	/	/	/	
		and Coalescer Filter Vessel PFIL-6002		1	1	Ø753 ID. x 2600 TL-TL x 12t / Head Ellip. 2:1 (Ver.)	ESSO / Foster Wheeler	PALL			/		/	/	/	/	/	
4506	Fabrication of Tube Bundle for Heat Exchanger	Stripper Trim Cooler 380-E5A/B		2	2	Ø19.05 x 2.111 x 4880L x 626 Holes/Unit	ATC	ATC							/			
		Caustic Cooler 250-E3		1	1	Ø489 ID. x 10t x 5500L x Ø19.05 x 2.111 x 4880L x 194 Holes	ATC	ATC				/				/		
4509	Fabrication of Vessel	Silicate Dissolver Vessel D-200		1	1	Ø1650 ID. x 4022 TL-TL x 16t / Head Ellip. 2:1 (Ver.)	PQ Chemical	APTECH	/			/	/	/	/	/	/	
4910	Fabrication of Column	Topping Column C-410		1	1	Ø550 ID. x 21200 TL-TL x 6t / Head Ellip. 2:1 (Ver.)	TOCC	TOCC				/	/	/	/	/	/	
		Depropeniser Column C-220		1	1	Ø400 ID. x Ø900 ID. x 21400 TL-TL x 8t / Head Ellip. 2:1 (Ver.)			/	/	/	/	/	/				
		AC Column C-230		1	1	Ø750 ID. x 34900 TL-TL x 8t / Head Ellip. 2:1 (Ver.)			/	/	/	/	/	/				
		ECH Column C-420		1	1	Ø750 ID. x 21200 TL-TL x 6t / Head Ellip. 2:1 (Ver.)			/	/	/	/	/	/				
5103	GHU-II Reregenerated Gas Scrubber	Gas Absorber		1	1	D841 ID:1500xT-T:6454 x 6t	ROC	REPCO	/			/	/	/	/	/	/	
		Wash Oil Drum M-3205		1	1	Ø2000 ID. x 9350 TL-TL x 12t / Head Ellip. 2:1(Hor.)	PTTCHEM	PTTCHEM	/			/	/	/	/	/	/	
5502	Supply and Fabrication Blowdown vessel	Blowdown Vessel		1	2	ID:1372xT-T:2598 x 12t	Alstom Power (Australia)	Alstom Power (Australia)	/			/			/			
5503	Fabrication of Tube Bundle for Heat Exchanger	U-Tube Bundle 02E007		1	1	Ø19.05 x 2.111/2.771 x 4900L x 55/50 U	TPI	TPI				/			/			
5504	Fabrication of Stainless Vessel	Caustic Soda Filter SP-5305		1	2	Ø358 ID. x 2000 TL-TL x 6t (Hor.)	THASCO / Toyo Thai	PALL	/				/	/	/	/	/	
		U-Tube Bundle 431-E6		1	1	Ø19.05 x 2.111 x 4880L x 998 U	ATC	ATC				/			/			
5506	Fabrication of Vessel and Heat Exchanger for TSL Expansion Project	Benzene Dryer 31-C01A/B		2	2	Ø1500 ID. x 6700 TL-TL x 10t / Head Ellip. 2:1 (Ver.)	TSL	CTCI	/						/			
		CM Flash Decanter 33-V52		1	1	Ø2000 ID. x 3000 TL-TL x 12t / Head Ellip. 2:1(Hor.)	TSL	CTCI	/						/			
		Reactor Pre Cooler 32-E06 C		1	1	Ø775 ID. x 9t x 6700L x Ø19.05 x 2.111 x 6000L x 442 Holes	TSL	CTCI				/			/			
5507	Arthit Field Development Central Facilities	Utility vessel		7	8	V-4600 ID:1800xT-T:4000 x 12t V-5250 ID:4700xT-T:4550 x 25t V-5480 ID:1700xT-T:8800 x 12.7t V-5485 ID:1700xT-T:8800 x 12.7t V-5300 ID:4850xT-T:5300 x 25.4t V-5290 ID:1000xT-T:2000 x 9t V-5475 ID:1700xT-T:8800 x 12.7t V-5440 ID:1500xT-T:3750 x 10t	PTT EP	KBR	/			/	/	/	/	/		
		Waste Water Stripper Column M-DA1601		1	1	Ø900 ID. x 28000 TL-TL x 16t / Head Ellip. 2:1 (Ver.)	TPC	TPC	/			/	/	/	/	/		
		Stripper Bottom Cooler M-EA1603B		1	1	Ø600 ID. x 10t x 8500L x Ø25.4 x 2.771 x 7300L x 232 Holes	TPC	TPC	/			/	/	/	/	/		
		Filter water separator		1	2	FFW7-T-3-727-10 ID:448xT-T:1173 x 6t 2 U'	Novatech	Novatech	/			/		/		/		
		Heat Exchanger 14.010		1	1	Ø684 ID. x 8t x 4400L x Ø25.4 x 2.111 x 3500L x 324 Holes	TPI	TPI	/			/		/		/		
		Pig launcher & Receiver		2	6	6		PTT EP	KBR	/			/	/	/	/	/	
5513	PTT Refueller	Filter water separator		2	7	FW10-H-T-6-599-12 ID: 638 x T-T: 916 x 6t 4 U' FW10-H-T-6-1093-12 ID: 638 x T-T: 1491 x 6t 3 U'	PTT	Novatech	/			/		/		/		
		Liquid Gas Coalescer 5560-S-01-A/B/C		1	3	Ø1600 ID. x 4000 TL-TL x 34t / Head Ellip. 2:1 (Ver.)	PTT / MAN	PALL	/			/	/	/	/	/		



Table with columns: Project no., Project Name, Package, Nos. Design, Qty. Fab, Owner, Client, Equipment type (Pressure Vessel, Shop Tank, Column/Reactor, Heat Exchanger, Pig Launcher/Receiver), U or R-Stamp (Filter housing, Required, Design, Drawing, Fab, Repair, Install), and Project Scope. Rows include projects like 'Fabrication of U-Tube Heat Exchanger', 'Kaeng Khoi 2 Power Plant', 'Fabrication of Vessel', etc.



TREL'S PROJECT RECORD FOR PRESSURE VESSEL , COLUMN, REACTOR AND HEAT EXCHANGER

Updated: May , 2016

Table with columns: Project no., Project Name, Package, Nos. Design, Qty. Fab, Owner, Client, Equipment type (Pressure Vessel, Shop Tank, Column/Reactor, Heat Exchanger, Pig Launcher/Receiver), U or R-Stamp (Filter housing, Required), Project Scope (Design, Drawing, Fab, Repair, Install).



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Updated: May , 2016

Project no.	Project Name	Package	Nos. Design	Qty. Fab	Description	Owner	Client	Equipment type					U or R-Stamp		Project Scope							
								Pressure Vessel	Shop Tank	Column/Reactor	Heat Exchanger	Pig Launcher/Receiver	Filter housing	Required	Design	Drawing	Fab.	Repair	Install.			
10507	Fabrication Filter Water Separator	-	1	1	FW10-H-6/559-10 Ø638 ID. x 916 TL-TL x 6l / Ellip Head 2:1 A516-70	NOVATECH	NOVATECH						/	/	/	/	/	/	/	/		
10508	Supply LPG Vessel	RTC Project	1	1	D-2601 Ø2,000x6,300 TL-TL x18t /Ellip Head 2:1 A516-70	SCG	DEAWOOD	/						/	/	/	/	/	/	/		
10509	Supply Ammonia Absorbition Drum	AN and MMA Project -	1	1	RD-218 Ø1,200x1,800 TL-TL x15t /Ellip Head 2:1 A516-70	PTT Asahi	CTCI	/						/	/	/	/	/	/	/		
10510	Fabrication Strong Acid collection Pot	AN and MMA Project -	1	1	FD-730 Ø600x800 TL-TL x 5l /Ellip Head 2:1 A516-70	PTT Asahi	CTCI	/						/	/	/	/	/	/	/		
10511	Supply Diesel Salt Filter	Supply Pressure Vessel 4C-112	1	1	4C-112 Ø3,200x4,000 TL-TL x28t /Ellip Head 2:1 A516-70	BCP	BCP	/						/	/	/	/	/	/	/		
10512	Fabrication Filter Water Separator	-	1	1	FW10-H-6/559-10 Ø638 ID. x 916 TL-TL x 6l / Ellip Head 2:1 A516-70	NOVATECH	NOVATECH						/	/	/	/	/	/	/	/		
10513	Fabrication tube Bundle	Supply Tube Bundle for Heat Exchanger 3E-3712	1	1	3E-3712 Ø457 OD.x4275 mm SB111-443(BIASS) Qty 24-Ø3/4"x14 BWG xL 3.48 m.	BCP	BCP				/			/	/	/	/	/	/	/		
10514	Fabrication tube Bundle	Supply Tube Bundle for Heat Exchanger E-3201-51	1	1	E-3201-51 Pipe 8"x2123 mm SA179 Qty 60-Ø15.88x1.241 xL 1.829 m.	Thai Tank Terminal	Thai Tank Terminal				/			/	/	/	/	/	/	/		
10515	Supply Filter housing	-	1	2	S-8701A/B Pipe16"Sch40x2.159 TL-TL A333 Gr.6	Thai Oil	Pall				/			/	/	/	/	/	/	/		
10516	Supply Tube Bundle	-	1	1	V-740-T-1 SA179 Qty 832-Ø25.4x2.761 xL 6 m.	PTTCHEM	PTTCHEM				/			/	/	/	/	/	/	/		
10517	Supply Vent Stack/Liquid Pot	S1 Project	1	2	S-1267/1367 Ø2,200x4,600 TL-TL x12t /Ellip Head 2:1 & Flat A516-70	PTTEP	PTTEP	/						/	/	/	/	/	/	/		
2010																						
11501	Fabrication Pig Receiver /Jib Crane/Pig Handling	Na Norn Nuang Khet Power Plant Gas Pipeline Project	1	1	I-2010/50 16"Sch80xL5100x20"x16xL5518 600# SA516-70/SA106-B	PTT Public Company	TDW/RTC	/												/		
11502	Supply Air Receiver and Water Surge Drum	S1 Project	2	4	1) V-1291/V-1391 Ø2.153x3.200 TL-TLx12t /Ellip Head 2:1 SA516-70 2) V-1261/V-1361 Ø2.300x8.750 TL-TLx38.1t /Ellip Head 2:1 SA516-70	PTTEP	PTTEP	/						/	/	/	/	/	/	/		
11503	Supply new Fin Fan and Re-tube for H/E	-	1	13	1)150-EA-01-1/2 Air Fin Fan SA179 Qty 429-Ø25.4x9144L (2 Unit) 2)2100-E9 Tube Bundle A179 Qty 504-Ø25.4x6096L 3)430-E10 Tube Bundle A179 Qty 333-Ø19.05x6100L 4)3380-E1A/B Tube Bundle A179 Qty 551-Ø19.05x4880L ( 2 Unit) 5)100-E7 Tube Bundle A179 Qty 316-Ø19.05x6100L 6)100-E16A/B Tube Bundle A179 Qty 1,097-Ø19.05x5600L (2 Unit) 7)100-E8 Tube Bundle A179 Qty 728-Ø19.05x2556L (U-tube) 8)2100-E13 Tube Bundle A179 Qty 722-Ø19.05x6096L 9)2930-E6 Tube Bundle A179 Qty 102-Ø19.05x3048L 10)2200-E6B Tube Bundle A179 Qty 574-Ø19.05x6096L	PTTAR	PTTAR				/			/	/	/	/	/	/	/	/	
11504	Fabrication Filter Water Separator	-	1	2	FW10-H-6/559-10 Ø638 ID. x 916 TL-TL x 6l / Ellip Head 2:1 A516-70	Novatech	Novatech						/	/	/	/	/	/	/	/		
11505	Supply new Tube Bundle for H/E	-	4	4	1)T-273 Tube Bundle SA179 Qty 452-Ø19.05x2.11t x 5 mL 2)T-341 Tube Bundle SA179 Qty 432-Ø19.05x2.11t x 3 mL 3)T-050A Tube Bundle SA179 Qty 512-Ø19.05x2.11x 6 mL 4)T-060A Tube Bundle SA179 Qty 512-Ø19.05x2.11x 6 mL	PTTChem	PTTChem				/			/	/	/	/	/	/	/	/	
11506	Supply Knock Out Drum	-	1	2	Pipe 14" SchXS x785 TL-TL A106-B	NUCOASTAL	ESS	/						/	/	/	/	/	/	/		
11507	Arthit and Bangkok field development Bundled phase project	-	1	18	Pipe 14" SchXS x3817 TL-TL SA106-B	PTTEP	PEERLESS/TNS						/	/	/	/	/	/	/	/		
11508	Decanter Feed Line Project	Supply Decanter Feed Tank	3	4	1) 231-VP-101/102 ID750 xT-1143 A240-316L 2) 231-VP-103 ID600 xT-1093 A240-316L 3) 231-VP-104 ID600 xT-1093 A240-316L	PURAC	PURAC	/						/	/	/	/	/	/	/		
11509	TPC-Oxy PVC Paste Resin	Supply V-4701 Recycle VCM Tank	1	1	OD 3350 x T-T3400 SA516-70N	TPC	TPC	/						/	/	/	/	/	/	/		
11510	Bangpra-in Cogeneration Project I	Supply Vertical Multi Tube Filter housing	1	2	S001A/B 16"Sch80 x T-T 1575 SA106-B	BIC	PEERLESS						/	/	/	/	/	/	/	/		
11511	Nong Saeng Power Plant Gas Pipeline Project	Supply Scrapper Launcher 30"x36"	2	2	1) 0697-L-101 2) 0697-R-301	Gulf JP NS	TDW/TRC/Unity/PTT						/	/	/	/	/	/	/	/		
11512	PTTPE LLDPE	Supply Inter cooler U-tube bundle	1	1	E-1102-1 29-U tube A179	PTT Chem	PTT Chem				/			/	/	/	/	/	/	/		
11513	Retube PTT AR3	Retube Heat Exchanger 2100-E-013	1	1	2100-E13 722-Streight Tube A179	PTTAR	PTTAR				/			/	/	/	/	/	/	/		
11514	Nong Saeng Power Plant Gas Pipeline Project	Supply Horizontal Multi Tube Filter housing	1	2	0697-S-301A/B ID38" x T-T2785 SA516-70N	PTTEP	PEERLESS						/	/	/	/	/	/	/	/		
11516	The Fourth Transmission Pipeline	Supply Pig Launcher /Receiver 48"x42"	2	4	1)49L00D01 2)4900R001 3)4920R001 4)5920L002	PTTEP	PTT/PENSPEN/PUNJ LLOYD/TDW				/			/	/	/	/	/	/	/		
11517		Supply Filter housing					PEERLESS															
11518	Supply Filter housing for Fuel Gas Coalescer	Supply Filter housing for Fuel Gas Coalescer	1	1	G-1010 ID543 x T-T2194 SA516-70N	PTTGC (PTT-Chem)	PALL						/	/	/	/	/	/	/	/		
2011																						
12501	PTTAR-IRPC Multiproduce pipe line	Supply Scrapper Launcher 12"x16"	1	1	69U201 12"x16" A106-B	IRPC	TDW						/	/	/	/	/	/	/	/		
12502	Gas Pipeline and Metering & Reculations Station Project for ABPR1 & ABPR2	Supply Pig Launcher and Receiver 12"x16"	2	2	1) 402-L-001 12"x16" A106-B 2) 402-R-001 12"x16" A106-B	ABPR	TDW						/	/	/	/	/	/	/	/		
12503	EBSM Upgrading Project	Supply Pressure Vessel	4	4	1)03D017 NG KO Drum ID800 x T-T2000 2)03D018 Ofgas Seal Drum ID1700 x T-T3400 3)03D020 MP Steam Drum ID1900 xT-T500 4)03D030 BFW Feed Drum ID3800 x T-T7500	IRPC	IRPC/Technip	/						/	/	/	/	/	/	/		
12504	CO2 Membrane Feed Gas Heater	Supply Heat Exchanger	1	2	E002 A/B 267-U tube A179	PTT PCL	YTC				/			/	/	/	/	/	/	/		
12505	6-8th MPF	Supply Flare KO Drum	1	3	V-9920/V-9930/V-9940 ID1200xT-T2500 SA516-70N	PTTEP Siam (LKU)	PTTEP Siam (LKU)	/						/	/	/	/	/	/	/		
12506	Waste Heat Recovery Unit (WHRU)	Supply Hot oil Filter housing	1	1	2117-S-001 14" XS x T-T 1397	PTT PCL	Pall						/	/	/	/	/	/	/	/		
12507	SAN III Project	Supply Heat Exchanger package	7	7	1) 42E205 : MECHANICAL SEAL UNIT COOLER 2) 42E211 : REACTOR H.T.M. COOLER 3) 46E601 : DEVOLATILIZER CONDENSER 4) 46E602 : TATAL CONDENSER 5) 46E811 : SOLVENT PURIFICATION TOWER REB 6) 46E812 : PURIFIED SOLVENT COOLER 7) 46E813 : SOLVENT PURIFICATION TOWER CON	IRPC	IRPC/UHDE Thailand				/											
12508	SAN III Project	Supply Pressure Vessel package	20	24	1) 41N101 A/B : MONOMER MIXER 2) 46T616 : VENT SEAL POT FOR DMF NO.1 3) 41T106 : ADDITIVE-B SERVICE TANK 4) 46T617 : VENT SEAL POT FOR DMF NO.2 5) 42T201 : MECHANICAL SEAL UNIT TANK 6) 46T601 : MIST SEPARATOR 7) 42T202 : FLUSHING UNIT TANK 8) 46T605 : VACUUM UNIT WATER SEPARATOR 9) 42T208 A/B : ADDITIVE-K FEED TANK 10) 47D701 : BRINE TANK 11) 43T322 A/B : ADDITIVE-J MELTER 12) 48D801 : HOT H.T.M. BANK 13) 43T323 A/B : ADDITIVE-J FEED TANK 14) 48D803 : H.T.M. DRAIN POT 15) 46D601 : WATER SEPARATOR 16) 46D603 : BLOW DOWN TANK 17) 48D810 : H.T.M. OVERHEAD TANK 18) 46D612 : SOLVENT EVAPORATOR 19) 48D806 : FURL GAS DRAIN SEPARATOR 20) 46D614 : SOLVENT PURIFICATION TOWER REFLUX DRUM	IRPC	IRPC/UHDE Thailand	/														
12509	C5 Project	Supply 3-Shop Tanks, 5-Heat Exchanger, 4 Reactor	6	12	1) T2104A/B Shop Tank 60 m3 SS316L 2) T2502 Shop Tank 75.4 m3 SS316L 3) E2301 Heat Exchanger 4) E2401A/B Heat Exchanger 5) E2402A/B Heat Exchanger 6) V2401A/B,V2402A/B Reactor SS316L	BSTS	BSTS/FWC	/	/	/				/	/	/	/	/	/	/	/	



Project no.	Project Name	Package	Nos. Design	Qty. Fab		Owner	Client	Equipment type					U or R-Stamp		Project Scope				
								Pressure Vessel	Shop Tank	Column/Reactor	Heat Exchanger	Pig Launcher/Receiver	Filter housing	Required	Design	Drawing	Fab.	Repair	Install.
12510	BV 20, 22 Project	Supply 3 Unit of Pig Launcher included Jib Crane and Pig Hand	3	3	1) 660LR001 Size 16"x20" 2) 660LR002 Size 16"x20" 3) 670LR001 Size 18"x24"	PTT PCL	Italian Thai /TDW					/			/	/	/		
12511	PE Capacity Expansion Project	Supply Product Purge Bin and Export to Philippine	1	1	PE-C-5609 ID4743xD3048 x Total Length 34,777 A516-70	JG Summit	JG/TCCL			/				/	/	/			
12512	Olefins Plant Expansion	Supply New Heat Exchanger Tube bundle 5 Unit	2	5	1) 1 Unit Dilution Steam Blowdown drum cooler T-3205 2) 4 Unit of Secondary Quench water cooler T-230A/B/C/D	PTTGC (PTT-Chem)	PTTGC (PTT-Chem)			/			/	/	/	/			
12513	PE Capacity Expansion Project	Supply CS & Cyclic Pressure Vessels and Export to Philippine	18	18	1) C-1406 ICA Surge Tank 2) C-1421 ICA Degassing Column 3) PE-C-4075 BMC-200 Slurry Feed Tank 4) PE-C-4088 Modifier D Feed Tank 5) PE-C-4345 Seal Pot 6) PE-C-4350 Slurry Feed Tank 7) PE-C-4365 DC Feed Pot 8) PE-C-4367 T3 Feed Pot 9) PE-C-4369 Mineral Oil Blow Tank 10) PE-C-5802 Low Pressure Accumulator 11) PE-C-5826 Interstage Accumulator 12) PE-D-5820 Glycol Storage Tank 13) PE-C-2409 Ethylene Desoxo Vessel 14) PE-C-2412 Ethylene Dryers 15) PE-C-2413 Ethylene Dryers 16) PE-C-4040 Catalyst Hold Tank 17) PE-C-4041 Catalyst Hold Tank 18) High Pressure Accumulator	JG Summit	JG/TCCL	/	/	/			/	/	/				
12515	Supply 2 Unit Water Tank	Supply 2 Unit Water Tank	1	2	CS Tank	AMS Australia	AMS Australia		/								/		
12516	OA58 Various Flowline for CFR-D Hub Scraper trap Pig Launcher and Pig Receiver	Supply Pig Launcher / Receiver 6"x8", 8"x10", 10"x12"	3	78	1) Pig Launcher/Receiver 6"x8" 2) Pig Launcher/Receiver 8"x10" 3) Pig Launcher/Receiver 10"x12"	PTTEP Siam (LKU)	PTTEP Siam (LKU)			/					/	/	/		
12517	Bangchak Oil Refinery Restructuring Project	Supply TPU Gas oil stripper	1	1	3C-104A ID 1200 x T-T1600 A516-70	BCP	BCP/TCCL			/									
12518	SAKC Expansion	Supply 29-Pressure Vessels and 24-Heat Exchangers	50	53		SAKC	UHDE-Thailand	/		/									
12519	Babiyana Expansion Project	Supply 1 Filter Housing	1	1	MAK-3071 16"STD x T-T2194	Chevron Bangladesh	PALL				/	/	/	/	/	/			
12520	Project GAEL and L&P Block Facility Debottlenecking	Supply Stack and Air receiver	2	2	1) S-198 Stack ID 2200 x T-T 4500 with Column 17.9 m material SA516-70 2) V-1950 Air Receiver ID 2150 x T-T 3200 material SA516-70	PTTEP Siam (LKU)	PTTEP Siam (LKU)	/	/			/	/	/	/	/			
2012																			
13501	GUT Gas Pipeline	Supply Pig Launcher / Receiver 32"x28"	1	2	Pig Launcher/Receiver 32"x28"	PTT PCL	TDW				/		/	/	/	/			
13502	Retube Heat Exchanger	No. 2100-E13 (Tube S-720 EA)	1	1	Retube Heat Exchanger 2100-E13 (Tube S-720 EA)	PTTGC(GC5)	PTTGC(GC5)			/								/	
13503	Supply 2 Unit Heat Exchanger M-EA1401B/C	Supply 2 Unit Heat Exchanger M-EA1401B/C	1	2	Ø19.05 x 2.11 x 6100L x 1020 Holes	TPC	TPC			/			/	/	/	/			
13504	RWCC Gas Pipeline and Metering & Regulations Station	Supply Pig Launcher / Receiver 16"x12"	2	2	Pig Launcher/Receiver 16"x12"	RWCC	TDW				/								
13505	PPTC Gas Pipeline and Metering & Regulations Station	Supply Pig Launcher / Receiver 12"x10"	2	2	Pig Launcher/Receiver 12"x10"	PTT PCL	TDW				/		/	/	/	/			
13506	SAKC Expansion	Supply Sand Filter Column	1	2	Z-0506A/B Filter Column ID2460 x T-T1900 material SS400	SAKC	Water Doctor	/						/	/	/			
13507	Cation Exchanger ATB	Supply Cation Exchanger	1	1	V-3211 Cation Exchanger Pipe 12" (STD) x T-T 1870 material A106-B	A.T.B.	REE	/					/	/	/	/			
13508	Refueller 8,000 L-3 Unit Army	Supply Water separator model	1	6	FW10HT655910 ID638 x T-T811 material SA516-70	Novatech	Novatech	/					/	/	/	/			
13509	North Bangkok Power Plant Block 2 Development Project	Supply vessel package	2	4	21PGF10 ID500 x T-T1900 Material SA516-70 , 21PGF25 ID300 x T-T 1500 Material SA516-70 , 22PGF10 ID1500 x T-T 1500	EGAT	Alstom	/					/	/	/	/			
13510	ATC Reformer and Aromatics Complex II	Supply Recovery Column Upper Reboiler	1	1	2540-E18 ID915 x T-T 740 Material SA516-60 Tube 19.05 x 2.11 x3165L QTY 410U	PTTGC(GC5)	PTTGC(GC5)			/				/	/	/			
13511	Retube Heat Exchanger	No. 2100-E13 (Tube S-720 EA)	1	1	Retube Heat Exchanger 2100-E13 (Tube S-720 EA)	PTTGC(GC5)	PTTGC(GC5)			/								/	
13512	Bongkot Field Development Project	Instrument Gas Filter/ Coalescer	1	1	YVXX33 Pipe 14" sch xs x T-T 3467 Material SA106 Gr.B	Peeless/TNS	PTTEP				/		/	/	/	/			
13513	TE 2733 Upgrading Mechanical Seal Project	8" Seal oil Filter	1	2	16L-102AB Pipe 8" sch.40s x T-T1367 Material SS316L	SPRC	3M	/					/	/	/	/			
13514	xxxx	Retube 4 Unit	1	4	2100-E9 (Tube OD25.4 x 2.77 x 6096L S-504 EA) 2100-E10 (Tube OD19.05 x 2.11 x 6096L S-224 EA) 2100-E13 (Tube OD19.05 x 2.11 x 6096L S-722 EA) 2950-E3 (Tube OD25.4 x 2.77 x 3048L U-52 EA)	PTTGC	PTTGC			/							/	/	
13515	VCM I Equipment Replacement	Waste Heat Boiler	1	1	Boiler ID1582 x T-T 3242 Material SA516-70N & SA516-70 + Lining SS304	TPC	TPC	/					/	/	/	/			
13516	Navanakhon Rangsit Interconnecting Gas Pipeline	Pig launcher & Receiver	1	1	28"x32" Pig Launcher Material SA516-70N	PTT	TDW				/		/	/	/	/			
13517	TOP-Increase NGLN Project	Supply Fuel Gas KO Drum package	8	10	1) V-104 (Modified) ID1200 x T-T 3600 Material SA516-60 2) V-2110 (Modified) ID1300 x T-T2710 Material SA516-60 3) V2441 ID850 x T-T 2450 Material SA516-70 4) V-2512 ID600 x T-T2350 Material SA516-70 5) V-2541 ID600 x T-T2350 Material SA516-70 6) V-2606 ID460 x T-T2350 Material SA516-70 7) V-2727 ID1400 x T-T2750 Material SA516-70 8) V-2728 ID900 x T-T2400 Material SA516-70 9) V-4015 (Modified) ID1200 x T-T3600 Material SA516-60 10) V-7205 ID1300 x T-T1700 Material SA516-70	TOL	Uhde	/				/	/	/	/				
2013																			
14501	Fuel Gas Coalescer	Filter Housing Package	1	4	G110,G120,G130,G1020 ID543 x T-T2873 Material SA516-70N	PTTGC	Pall				/		/	/	/	/			
14502	SWS Separator Drum / AAG Preheater	Supply Vessel Package	2	3	1) 2D-2511 ID700 x T-T2703 with External Coil Mateial SA516-60+NACE MR0175 2) 2E-2509,2E-2609 ID457.2 x T-T2714 Material SA516-70	BCP	BCP	/		/			/	/	/	/			
14503	Permanent Production Facility at NSG-A, WPG-A And NPI-A	Supply Vessel Package	3	10	1) V-422, V-662, V-668, V-1682 ID1650 x T-T2500 Material SA516-70N 2) V-420, V-660, V-1680 ID 1800 x T-T 4500 Material SA516-70N 3) V-427, V-667, V-1687 ID 1350 x T-T 2250 Material SA516-70N	PTTEP	PTTEP	/					/	/	/	/			
14504	Provincial Gas Transmission Pipeline Project To Nakhon Sawan	Pig R/L	2	4	1) 6700-L-001 & 002 28"x32" Pig Launcher Material SA516-70N 2) 6700-R-001 & 002 28"x32" Pig Receiver Material SA516-70N	PTT	TDW				/		/	/	/	/			
14505	VCM I Equipment Replacement	Header Ring	1	1	Bending Pipe For Header Ring	TPC	TPC										/	/	
14506	Arthit Field Development Project	Instrument Gas Filter/ Coalescer	1	3	YVXX33 Pipe 14" sch xs x T-T 3467 Material SA106 Gr.B	Peeless/TNS	PTTEP				/		/	/	/	/			
14507	Olefins Plant	Tube Bundle	5	5	1) T-755 (Tube OD19 x 2.1 x 6000L S-1028 EA) Matl SA179 2) T-382 (Tube OD19.05 x 2.11 x 3000L U-400 EA) Matl SA213-T11 3) T-0608 (Tube OD19 x 2.1 x 6000L S-258 EA) Matl SA179 4) T-0508 (Tube OD19 x 2.1 x 6000L S-512 EA) Matl SA179 5) G-1112-T-1 (Tube OD25.4 x 2.77 x 6000L S-60 EA) Matl SS316L	PTTGC	PTTGC			/			/	/	/	/			
14508	HPPP Project	Vessel	5	7	1) D101CD ID1700 x T-T2100 with Jacket Matl SS304/SA516-70 2) D105BC ID650 x T-T 850 Matl SS304L 3) D250 ID1650 x T-T 4000 Matl SS304 4) Z102BC ID500 x T-T 394 Matl SS304L 5) Z144 ID350 x T-T 263 Matl SS304L	TPC	REPCO	/					/	/	/	/			
14509	ASIASAL	Vessel	1	1	132 -VA-101 ID3500 x T-T 600 Matl SS316L	Purac	Purac	/					/	/	/	/			
14510	Provincial Gas Transmission Pipeline Project To Nakhon Ratchasima	Pig R/L	2	2	6800-L-001 28"x32" Pig Launcher Matl SA516-70N 6800-R-001 28"x32" Pig Launcher Matl SA516-70N	PTT	TDW				/		/	/	/	/			
14511	Scraper Trap Pig Launcher and Receiver	Pig R/L	3	21	1) xxxx 6"x8" Pig Launcher Matl SA106 Gr.B 2) xxxx 8"x10" Pig Launcher Matl SA106 Gr.B 3) xxxx 10"x12" Pig Launcher Matl SA106 Gr.B	PTTEP	TDW				/		/	/	/	/			
14512	21D001 Separator Improvement	Filter Skid	2	3	1) 21D051 ID840 x T-T420 Mateial SA516-60+NACE MR0175 2) 21F052AB ID539 x T-T2025 Mateial SA516-60+NACE MR0175	IRPC	Pall	/					/	/	/	/			
14513	-	Heat Exchanger	1	1	E-2103 ID1850 x T-T13877 Matl SA516-60 / SS304 Tube 19.05x1.65x15373L (S-3202) Matl SS304	PTTGC	PTTGC			/			/	/	/	/			
14514	Refueller 8,000 L-3 Unit Army	Supply Water separator model	1	5	FW10HT655910 ID638 x T-T811 material SA516-70	Novatech	Novatech	/					/	/	/	/			
14515	The Reformer & Aromatic Complex II	Fin Fan	1	4	2100-EA4 W3160 x H747 x L9094 Matl SA516-70 Tube OD25.4 x 2.765x9150L Matl SA179K Fin Tube OD57.15 x 0.41t x 9070L Matl SB241-A1060 (Type: Extruded)	PTTGC	PTTGC			/			/	/	/	/			





TREL'S PROJECT RECORD FOR PRESSURE VESSEL , COLUMN, REACTOR AND HEAT EXCHANGER

Updated: May , 2016

Project no.	Project Name	Package	Nos. Design	Qty. Fab	Owner	Client	Equipment type					U or R-Stamp		Project Scope				
							Pressure Vessel	Shop Tank	Column/Reactor	Heat Exchanger	Pig Launcher/Receiver	Filter housing	Required	Design	Drawing	Fab.	Repair	Install.
14516	DPAX	Supply Heat Exchanger Package	7	8	TPE	Thysemkrupp				/				/	/	/		
14517	PTT LP FLASH GAS RECOVERY PROJECT	Supply Remaining Gas K.O. Drum	1	1	PTTGC	PTTME	/							/	/	/		
2014																		
15501	PTTPE LLDPE	Supply Fabrication Tube Bundle	0	2	PTTGC	PTTGC				/					/	/		
15502	PTTEP-LKU-F Desanding Package	Supply Vessel package & Skid with U-Stamp	4	3	PTTEP	SLB	/							/	/	/		
15504	HIGH TAN UPGRADING	Supply Heat Exchanger Package	7	14	PTTGC	Technip				/				/	/	/		
15505	E1010 A/B/C/D Tube Bundle Replacement	Supply Fabrication Tube Bundle	1	4	PTTGC	PTTGC				/					/	/		
15506	BDEP FOR MRU REVAMPING FOR RUBLENGTH EXTENSION	Supply CFR Filter	1	1	PTTGC	3M					/			/	/	/		
15507	Olefin Plant	Supply Tube Bundle	2	2	PTTGC	PTTGC				/					/	/		
15508	Tube Bundle Of Heat Exchanger E-2404	Supply Tube Bundle	1	1	PTTGC	PTTGC				/					/	/		
15509	STYROLUTION-MPPU	Supply Vessel Package with Jacket	7	10	THYSSENKRUPP	STYROLUTION	/							/	/	/		
15510	Scrapper Trap Pig Launcher and Receiver	Supply Pig Launcher & Receiver	2	2	PTTEP	TDW					/			/	/	/		
15511	MRU Coalescer	Supply LN+LPG MRU Coalescer	1	1	IRPC	Pall	/							/	/	/		
15512	Arthit Field Development Project	Instrument Gas Filter/ Coalescer	1	4	PTTEP	Peeless/TNS					/			/	/	/		
15513	BST-NBL	Supply Heat Exchanger 9 units /Vessel 11 units	13	20	BST	ThyssenKrupp	/			/				/	/	/		
15514	GC6 MOD WORK FOR EXPORT PRODUCT AT JETTY 2	Supply Pig Launcher & Receiver	2	2	PTTGC	TDW				/				/	/	/		
15515	EPCM Service For Refinery Improvement	Supply Packinox Feed Filter	1	2	PTTGC	3M					/			/	/	/		
15517	Re-Tube Bundle	Supply Tube Bundle	1	1	PTTGC	PTTGC				/					/	/		
2015																		
16501	63222 HIGH TAN MATERIAL UPGRADING PROJECT	Tube bundle E1011A	1	1	PTTGC	PTTGC				/				/	/	/		
16502	Turnaround 2016	4 Package for Turn around	7	7	IRPC	IRPC				/				/	/	/		
16503	TPC_VCM1 ENERGY SAVING, RELIABILITY IMPROVEMENT AND PRODUCTION RATE FLEXIBILITY	2 Heat Exchanger	2	2	TPC	SCG				/				/	/	/		
16504	Fabrication Shell & Tube Heat Exchanger	1 Heat Exchanger	1	1	BCP	BCP				/				/	/	/		
16505	Methanal Evaporator	1 New tube bundle and 1 Modify Tube bundle	1	2	PTT Tank	PTT Tank				/				/	/	/		/



TREL'S PROJECT RECORD FOR PRESSURE VESSEL , COLUMN, REACTOR AND HEAT EXCHANGER

Updated: May , 2016

Project no.	Project Name	Package	Nos. Design	Qty. Fab		Owner	Client	Equipment type						U or R-Stamp		Project Scope										
								Pressure Vessel	Shop Tank	Column/Reactor	Heat Exchanger	Pig Launcher/Receiver	Filter housing	Required	Design	Drawing	Fab.	Repair	Install.							
16506		63 Unit Pressure vessel	63	63	1) 2-C-1004 ID 1170 T-T 6553 Matl A516 Gr.70N + UG84 @-60 C 2) 2-C-1005 ID 1170 T-T 6553 Matl A516 Gr.70N + UG84 @-60 C 3) 2-C-1007 ID 1800 T-T 3500 Matl A516 Gr.70 4) 2-C-1109 ID 441 T-T 2311 Matl A516 Gr.70 5) 2-C-1112 ID 594 T-T 2743 Matl A516 Gr.70 6) 2-C-1419 ID 1170 T-T 6553 Matl A516 Gr.70N + UG84 @-60 C 7) 2-C-1502 ID 1372 T-T 1372 Matl A516 Gr.70 8) 2-C-1505 ID 273 T-T 591 Matl A106 Gr.B 9) 2-C-1512 ID 406 T-T 1981 Matl A516 Gr.70 10) 2-C-4045 ID 914 T-T 1219 Matl A516 Gr.70 11) 2-C-4050 ID 1250 T-T 2550 Matl A516 Gr.70 12) 2-C-4065 ID 450 T-T 860 Matl A516 Gr.70 13) 2-C-4067 ID 324 T-T 914 Matl A106 Gr.B 14) 2-C-4069 ID 406 T-T 1778 Matl A516 Gr.70 15) 2-C-4086 ID 914 T-T 2500 Matl A516 Gr.70 16) 2-C-5202 ID 1219 T-T 4104 Matl A516 Gr.70 17) 2-C-5210 ID 2896 T-T 9042 Matl A516 Gr.70N + UG84 @-60 C 18) 2-D-5220 ID 2000 T-T 4000 Matl A516 Gr.70 19) 2-C-5226 ID 1067 T-T 3658 Matl A516 Gr.70 20) 2-C-6212 ID 1219 T-T 2743 Matl A240 TP304 21) C-9006 ID 1500 T-T 3000 Matl A516 GR.70 22) C-9402 ID 3500 T-T 7000 Matl A516 GR.70 23) C-9403 ID 800 T-T 1400 Matl A516 GR.70 24) C-9404 ID 800 T-T 1400 Matl A516 GR.70 25) - ID 1050 T-T 1542 Matl A516 GR.70 26) - ID 1050 T-T 1542 Matl A516 GR.70 27) - ID 600 T-T 1420 Matl A516 GR.70 28) - ID 600 T-T 1420 Matl A516 GR.70 29) SPP 4103C ID 168 T-T 398 Matl A106 Gr.B 30) SPP 4108C ID 168 T-T 398 Matl A106 Gr.B	PTTGC	TTCL	/																		
16506	LLDPE EXPANSION AND HEXENE-1 PROJECT	54 Unit Pressure vessel	54	54	30) SPP 4108C ID 168 T-T 398 Matl A106 Gr.B 31) SPP 8101 ID 500 T-T 1200 Matl A516 GR.70 32) D-110 ID 1500 T-T 1800 Matl A 516 Gr. 70 33) D-111 ID 650 T-T 1900 Matl A 516 Gr. 70 34) D-120 ID 1500 T-T 1600 Matl A 516 Gr. 70 35) D-121 ID 350 T-T 1900 Matl A 516 Gr. 70 36) D-130 ID 1900 T-T 1200 Matl A 516 Gr. 70 37) D-131 ID 600 T-T 1900 Matl A 516 Gr. 70 38) D-140 ID 2800 T-T 4300 Matl A 516 Gr. 70 39) D-141 ID 900 T-T 1900 Matl A 516 Gr. 70 40) D-142 ID 800 T-T 1900 Matl A 516 Gr. 70 41) D-151 ID 550 T-T 1900 Matl A 516 Gr. 70 42) D-211 ID 800 T-T 2300 Matl A 516 Gr. 70 43) D-221 ID 950 T-T 2400 Matl A 516 Gr. 70 44) D-311 ID 1700 T-T 4100 Matl A 516 Gr. 70 45) D-321 ID 1400 T-T 3200 Matl A 516 Gr. 70 46) D-531 ID 1200 T-T 1400 Matl A 516 Gr. 70 47) D-532 ID 1200 T-T 1400 Matl A 516 Gr. 70 48) D-591 ID 2900 T-T 5000 Matl A 240 Gr. TP 304 49) D-601 ID 1700 T-T 3900 Matl A 516 Gr. 70 50) D-611 ID 1200 T-T 2900 Matl A 516 Gr. 70 51) D-612 ID 1100 T-T 3100 Matl A 516 Gr. 70 52) D-631 ID 300 T-T 1200 Matl A 516 Gr. 70 53) D-592 ID 750 T-T 2000 Matl A 516 Gr. 70 54) D-303 ID 1000 T-T 1900 Matl A 516 Gr. 70	PTTGC	TTCL	/																		
16507	Olefins Plant Project	1 Unit Tube bundle	1	1	T-440 Tube OD19.05x2 txb800L (S-2300) Matl SA179	PTTGC	PTTGC				/				/	/	/	/								
16508	NBL Improvement Pilot Plant Project	Stripper Column with Skid	1	1	C-10702 Pipe 16" sch.10s x 4356L Matl SS304	BST	BST			/					/	/	/	/								
16509	MCS Compressor Seal gas Heater	3 Heater included Piping and Skid	1	3	HAP-5812/5813/5814 Pipe 6" sch.160 x 2578L Matl SA106 Gr.B		Jord	/							/	/	/	/								
16510	Rojana Power SPP3	2 Unit Pig R/L	2	2	1) 6703-L-0101 12"x16" Matl SA106 Gr.B 2) 6703-R-0101 12"x16" Matl SA106 Gr.B	PTT	TDW				/				/	/	/	/								
16511	Fabrication Tank for G-1122-Q-1 Sulfuric Acid	1 Tank for Acid	1	1	G-1122-Q-1 ID2500 x T-T 2700 Matl A283 Gr.C	PTTGC	PTTGC		/						/	/	/	/								
16512	Fabrication and Supply Media Filter	2 Pressure vessel	1	2	2930-V-10 A/B ID1800 x T-T 2100 Matl SA516-60 with Internal Part	PTTGC	Veolia	/							/	/	/	/								
16513	PTTGC WWTP	8 Tanks	8	8	1) 2930-TK21 ID1500 x T-T 3000 Matl SA516-60 2) 2930-TK22 ID1900 x T-T 3000 Matl SA516-60 3) 2930-TK24 ID3000 x T-T 2000 Matl SA516-60 4) 2930-TK25 ID1500 x T-T 3000 Matl SA516-60 5) 2930-TK26 ID2600 x T-T 4000 Matl SA516-60 6) 2930-TK27 ID3100 x T-T 4500 Matl SA516-60 7) 2930-TK28 ID3100 x T-T 3500 Matl SA516-60 8) 2930-TK29 ID4500 x T-T 4000 Matl SA516-60	PTTGC	Veolia	/													/					
16514	EPC of Trucking Facility for SLNG Terminal	1 Pot Drain	1	1	48-V-0001 ID550 x T-T 1600 Matl SS304L		REL	/							/	/	/	/								
2016																										
Total																										

**Remark**  
 Project no. 16xxx = Project in year 2016  
 Project no. 15xxx = Project in year 2015  
 Project no. 14xxx = Project in year 2014  
 Project no. 13xxx = Project in year 2013  
 Project no. 12xxx = Project in year 2012  
 Project no. 11xxx = Project in year 2011  
 Project no. 10xxx = Project in year 2010  
 Project no. A9xxx = Project in year 2009  
 Project no. A8xxx = Project in year 2008  
 Project no. 7xxx = Project in year 2007  
 Project no. 6xxx = Project in year 2006  
 Project no. 5xxx = Project in year 2005  
 Project no. 4xxx = Project in year 2004  
 Project no. 3xxx = Project in year 2003