

**PT. WARU TEKNIKATAMA**  
**PROJECT EXPERIENCE LIST**



NO.	JOB NO.	CUSTOMER / END USER	PROJECT TITLE	PRODUCT DELIVERED		SCOPE OF WORK	WEIGHT KGS	YEAR BUILT	MATERIAL	CODE / STD	REMARK
				TYPE	EQUIPMENT NAME						
225	16WTO-176	PT Wika Industri dan Konstruksi/ PT Pertamina RU IV Cilacap	Penambahan satu unit package instrument air system	STHE	Shell and tube heat exchanger (56E-302)	Design, Supply & Construction	2008	current	Tube : Titanium Gr 2, Channel barrel : Ti Gr 2, Shell barrel : SA285-C	ASME VIII Div.1	TEMA R, AFU type, Horizontal and size of 670 mm ID x 2200 mm L
224	16WTO-175	PT Wika Industri dan Konstruksi/ PT Pertamina RU IV Cilacap	Penambahan satu unit package instrument air system	PV	Instrument Air Receiver, Tag No.: 56-V-302	Supply & construction	14,929	current	Shell and head : SA516GR70	ASME VIII Div.1	Vertical and size of 2380 mm ID x 7000 mm TL/TL
223	16WTO-174	PT Pertamina Ru II Dumai	Penggantian line ignition, line purge gas dan line gas to pilot, line steam serta pembuatan fasilitas drain 915- ME-1A	Other	Piping and fitting	Supply & construction		current	pipe and fitting : SS304L	-	
222	15WTO-173	PT Gunanusa Utama Fabricators / PT Pertamina PHE WMO	EPCI-1 : PHE-12, PHE-24, and CPP2 Platforms and Pipeline	ACHE	1 Unit Gas Lift Discharge Cooler (E-710)	Design, Supply & Construction	25,038	current	Header Plates SA516-70, Finned Tubes SA179, Structure Galvanized to ASTM 123	API 661, ASME VIII Div.1	Forced Draft type, 1 unit consist of 1 bay – 2 bundles per bay, Estimated size of bay is 4,280mm W x 6,940mm L
221	15WTO-172	PT Enviromate Technology International/ PT PLN	CNG Marine Lombok	STHE	CNG heat exchanger Tag No.: E 211	Design, Supply & Construction	1,300	current	Tube : SA213TP316L ; Shell : SA106GRB; Channel : SA240GR316L	ASME VIII Div.1	BEM type, Horizontal, TEMA-R, 12" OD x 5400 mm L
220	15WTO-171	PT Pertamina RU V Balikpapan	Pengadaan Heat Exchanger E-8-18	STHE	Heat Exchanger E-8-18	Supply		current	Tube : SA214 ; Shell : SA516GR60	ASME VIII Div.1	BEU type, Horizontal, TEMA-R, 620 mm ID x 1680 mm L
219	15WTO-170	Santos (Sampang) Pty Ltd	Supply of Plug and Gasket	Other	Plug and Gasket	supply		current	Gasket : Soft metal JIC-3850P, Plug SA105	ASME VIII Div.1	Plug : 1-3/8 in UNF x 27 mm LG, Gasket 42 mm OD x 36 mm ID x 3.2 mm thick
217	15WTO-168	Pertamina RU III Plaju	Supply channel head and floating head	STHE	Channel head and floating head	Supply	954	Current	SA516GR70	ASME VIII Div.1	
216	15WTO-165	PT. ALP Petro Industry	Repair Reboiler E-202 (on site hydrotest and supply spare parts)	ServM ain	Reboiler E-202 SWS	Services		Completed February 2015	Material of shell Carbon stell ASTM A516 Gr 70	TEMA, ASME VIII Div. 1	Size 350 mm ID x 3048 mm L
215	15WTO-164	PT Meindo Elang Indah for Chevron Indonesia Company	Indonesia Deepwater Development Bangka Top Side	PV	Air Volume Tank, MBL-1105	Design & Supply	2,690	Current	SA516-70 shell	ASME VIII Div.1	Vertical and size of 4'-0" ID x 10'-0" TL/TL Length.
214	15WTO-164	PT Meindo Elang Indah for Chevron Indonesia Company	Indonesia Deepwater Development Bangka Top Side	PV	Air Volume Tank (MBL-1085, MBL-1108)	Design & Supply	1,948	Current	SA516-70 shell	ASME VIII Div.1	Vertical and size of 2'-5'-0" ID x 6'-0" TL/TL Length.
213	15WTO-163	PT Meindo Elang Indah for Chevron Indonesia Company	Indonesia Deepwater Development Bangka Top Side	STHE	Inlet Heater, HBG-1106	Design & Supply	3,988	Current	SA106-B shell, SA516-70 channel, SA179 seamless tubes	TEMA, ASME VIII Div.1	TEMA R, AES- TYPE, Horizontal and size of 20" sch 40 x 6096 mm L
212	14WTO-162	PT Laser Jaya Sentosa for PT Petrokimia Gresik	Proses Pengadaan Material Tubes untuk Pembuatan Economizer B1102 - Unit Utilitas Pabrik-1	ACHE	Economizer B1102	Supply	31,727	Current	Finned Tubes SA210-A1	ASME VIII Div. 1	3,150mm L
211	14WTO-161	PT Sapta Reksa Utama	Supply Material of Prefab Package for EPCI of BD Field Development Project - GMS	PV	Instrument Air Receiver, Tag No.: D-9006	Design & Supply	5,268	Current	Shell Plates SA516-70	ASME VIII Div.1	Vertical and size of 5' ID x 13'-6" L TL/TL
210	14WTO-161	PT Sapta Reksa Utama	Supply Material of Prefab Package for EPCI of BD Field Development Project - GMS	PV	Diesel Storage Tank, Tag No.: T 9005	Design & Supply	1,626	Current	Shell Plates SA283-C	API 650	Vertical and size of 4' ID x 3' L TL/TL
209	14WTO-161	PT Sapta Reksa Utama	Supply Material of Prefab Package for EPCI of BD Field Development Project - GMS	PV	Closed Drain Drum, Tag No.: D- 9002	Design & Supply	8,241	Current	Shell Plates SA516-70	ASME VIII Div.1	Horizontal and size of 7'-2" ID x 16' L TL/TL
208	14WTO-160	PT Sapta Reksa Utama	Supply Material of Prefab Package for EPCI of BD Field Development Project - GMS	PV	Pig Receiver, Tag No.: D-9002T- 9001	Design & Supply	2,535	Current	Shell API 5L Gr. X65	ASME B31.8	Horizontal and size of 16"ND/18"ND x 25'-9" L F/F
207	14WTO-160	PT Sapta Reksa Utama	Supply Material of Prefab Package for EPCI of BD Field Development Project - GMS	PV	Gas Inlet KO Drum, Tag No.: D- 9001	Design & Supply	33,428	Current	Shell Plates SA516-70N	ASME VIII Div.2	Horizontal and size of 7'-2" ID x 16' L TL/TL
206	14WTO-159	PT Catur Elang Perkasa	Supply SWSSGF Gasket for STHE Amine Reboiler SK-25-E-06	PV	STHE Amine Reboiler SK-25-E- 06	Supply	-	Completed December 2014	Spiral Wound Stainless Steel Gasket	TEMA, ASME VIII Div.1	
205	14WTO-158	PT Noortech Asia Engineering	BTS Micro LNG Project Capacity 5 MMSCFD, Wunut, East Java	PV	Service Water Tank, Tag No. 13223-T-001	Design, Supply & Construction	33,509	Current	Shell Plates A36, Structure ASTM A36	API 650, ASME VIII Div. 1	Field Erected, Vertical, Size 5,400 mm ID x 9,000 mm H
204	14WTO-158	PT Noortech Asia Engineering	BTS Micro LNG Project Capacity 5 MMSCFD, Wunut, East Java	PV	Fire Water Tank, Tag No. 13223- T-003	Design, Supply & Construction	47,859	Current	Shell Plates A36, Structure ASTM A36	API 650, ASME VIII Div. 1	Field Erected, Vertical, Size 9,000 mm ID x 9,000 mm H
203	14WTO-157	PT Media Karya Sentosa	EJW & TAW Tube Bundle for C-324	ACHE	EJW & TAW Tube Bundle	Design, Supply & Construction	14,727	Current	Header Plates SA516-70, Finned Tubes SA179, Structure Galvanized to ASTM 123	API 661, ASME VIII Div. 1	1 bay - 2 bundle per bay, size of bay: 4,717mm Length x 7,315mm Width

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202	14WTO-156	MnSi Co.,Ltd, Korea, for Hyundai Heavy Industries	Starting Air Receiver for Jangkrik FPU Project	PV	Starting Air Receiver (2 units)	Design & Supply	3,576	Current	SA283-C shell	ASME VIII Div. 1	Vertical and size of 1,125mmID x 2,429mm T/T L
201	14WTO-155	PT Laser Jaya Sentosa for PT Petrokimia Gresik	Pembuatan Economizer B1102 - Unit Utilitas Pabrik-1	ACHE	Economizer B1102	Design & Supply	31,727	Current	Header Plates SA516-70, Finned Tubes SA210-A1, Structure ASTM A36	ASME VIII Div. 1	1 bay - 1 bundle per bay, size of bay: 4,775mm Length x 3,150mm Width
200	14WTO-154	PT Pertamina (Persero) RU III Plaju	Pengadaan Material Air Cooled BBMGC Kebutuhan Engine BBMGC 3 Plaju	ACHE	4 bundle, bundle 1 & 2 are combined (EJW/ELOW, TAW/ELOW, IC & AC)	Supply	3,868	Current	Header Plates SA516-70, Finned Tubes SA179, Structure Galvanized to ASTM 123	API 661, ASME VIII Div. 1	Forced draft, 1 bay - 4 bundle per bay, size of bay: 2990mm Length x 2210mm Width
199	14WTO-153	Refrigeration Engineering International Pty Ltd, Australia	Donggi Gas Development Facilities	PV	Suction Drum 260-D-1001	Design & Supply	1,669	Current	SA516-60 shell	ASME VIII Div. 1, 2010 Edition	Horizontal and size of 760mmID x 4600mm T/T L
198	14WTO-153	Refrigeration Engineering International Pty Ltd, Australia	Donggi Gas Development Facilities	STHE	Chiller, 240-E-1004	Design & Supply	2,742	Current	SA516-70 shell, SA516-70 channel, SA179 seamless tubes	TEMA, ASME VIII Div. 1, 2010 Edition	TEMA R,BKM type, Horizontal, size of 408-650mmID x 6096mmL
197	14WTO-153	Refrigeration Engineering International Pty Ltd, Australia	Donggi Gas Development Facilities	STHE	Chiller, 240-E-1008	Design & Supply	3,709	Current	SA516-70 shell, SA516-70 + clad SS316L channel, SA213-316L seamless tubes	TEMA, ASME VIII Div. 1, 2010 Edition	TEMA R,BKM type, Horizontal, size of 465-749 mmID x 6096mmL
196	14WTO-152	PT Pertamina (Persero) RU V Balikpapan	Pengadaan Test Ring E-6-01	Other	Test Ring for STHE	Design & Supply	1,372	Current	SA105	TEMA, ASME IIA 2010 Edition	TEMA R, BEV type, test ting size of 1,207mm ID
195	14WTO-151	PT Meindo Elang Indah for PT PHE ONWJ	Feed KL Gas Lift Compressor Project STC #0448 WO #588	ACHE	Fin Tube Exchanger, tag no. KLC-E-101 & KLC-E-101	Design & Supply	2,696	Current	Header Pipes SA106-B, Finned Tubes SA179, Structure Galvanized to ASTM 123	API 661, ASME VIII Div. 1	Economizer Heat Exchanger, size of 775mm L x 1835mm H x 500mm W
194	14WTO-150	PT Enviromate Technology International	Gas Compressing Facility, CNG Transportation and Decompressing Facility to Supply Gas to Power Plant in Gresik and Lombok	STHE	Pru Heater, Tag No.: E-111	Design & Supply	4,460	Current	SA240-316 shell & channel, SA240-316 seamless tubes	TEMA, ASME VIII Div. 1, 2010 Edition	TEMA R, BEM type, Horizontal and size of 670 mm ID x 4200 mm L
193	14WTO-149	PT Tripatra Engineers and Constructors for Exxon Mobil Cepu Ltd.	Fabrication of Gland Box for Penetration Floor Electrical Room at PB-32 & 34	Other	Gland Box for Electrical Room	Design & Supply		Current	Cover plate A36 & aluminium	AWS D1.1	
192	14WTO-148	PT Media Karya Sentosa	Tube Bundle for STHE, Item no. E-211 A/B, replacement and installation	STHE	Shell & Tube Heat Exchanger tag no. E-211 A/B, Vertical, BEM Type, TEMA R	Design, Supply & Construction	3,078	Current	SA106-B channel, SA179 seamless tubes	TEMA, ASME VIII Div. 1, 2010 Edition	TEMA R, BEM type horizontal, size of 20"OD x 6096 mm L.
191	14WTO-147	PT Dinamika Energitama Nusantara for PT Pertamina (Persero) Dumai	Pengadaan Shell & Tube Heat Exchanger, Pertamina Dumai	STHE	Shell & Tube Heat exchanger Tag. No.:300-E94,	Design & Supply	501	Current	SA106-B channel, SB111-C12200 seamless tubes	TEMA, ASME VIII Div. 1, 2010 Edition	TEMA R, BEM type horizontal, size of 10"OD x 2000 mm L.
190	14WTO-146	PT PJB Services	Pengadaan Desain Scrubber dalam Rangka Proyek Relokasi PLTG Gili Timur Madura ke Duri Pekanbaru PT PLN (Persero) Pembangkitan Sumatera Bagian Utara Sektor Pembangkitan Pekanbaru	ServM ain	Engineering Service, Shop drawing (GA drawing, Construction Drawing) and Mechanical Design Calculation	Design	-	Completed		ASME VIII Div. 1, 2010 Edition	
189	14WTO-145	PT Meindo Elang Indah for PT PHE ONWJ	Feed KL Gas Lift Compressor Project STC #0448 WO #588	ACHE	Compressor After Cooler (E-002A/B)	Design & Supply	4,611	Current	Header Plates SA240 UNS32205, Finned Tubes SA789 UNS32205, Structure Galvanized to ASTM 123	API 661, ASME VIII Div. 1	Forced draft, 1 bay - 2 bundle per bay, size of bay: 1.540 m Width x 3.353 m Length
188	14WTO-145	PT Meindo Elang Indah for PT PHE ONWJ	Feed KL Gas Lift Compressor Project STC #0448 WO #588	ACHE	Compressor Interstage Cooler (E-001A/B)	Design & Supply	4,285	Current	Header Plates SA240 UNS32205, Finned Tubes SA789 UNS32205, Structure Galvanized to ASTM 123	API 661, ASME VIII Div. 1	Forced draft, 1 bay - 2 bundle per bay, size of bay: 1.528 m Width x 3.500 m Length
185	14WTO-144	PT Delapan Pintu Utama	Scrubber PJB Services, PLTGU Gresik	Other	Supply Mist Eliminator for Scrubber	Supply	-	Completed April 2014	SS304	ASME IIA	
187	14WTO-143	PT Pertamina (Persero) RU IV Cilacap	Turn Around 2014 Pertamina RU IV Cilacap	STHE	Pengadaan Shell Assy (86E204)	Supply	1,447	Current	Shell SA285	TEMA, ASME VIII Div. 1, 2010 Edition	TEMA, AEU type, Horizontal and size of 650mm ID x 670mm OD x 6071mm Length
186	14WTO-142	PT Pertamina (Persero) RU IV Cilacap	Turn Around 2014 Pertamina RU IV Cilacap	STHE	Pengadaan Tube Bundle Assy, Channel Cover, and Channel Assy (86E206)	Supply	12,400	Current	Tube Sheet SA105, Tube SA179, Channel Cover + Channel Assy SA516 Gr.70	TEMA, ASME VIII Div. 1, 2010 Edition	TEMA, CJU type, Horizontal and size of 1050mID X 5416 mm L
184	14WTO-141	PT Delapan Pintu Utama	Scrubber PJB Services, PLTGU Gresik	ServM ain	Engineering Service, Shop drawing (GA drawing, Construction Drawing) and Mechanical Design Calculation	Design		Completed March 2014		ASME VIII Div. 1, 2010 Edition	
183	14WTO-140	PT Cabot Indonesia	Cabot CL Coal Tar	STHE	Oil Heater, Tag No.: EA-0-5-01	Supply	984	Completed September 2014	SA240-304	TEMA, ASME VIII Div. 1, 2010 Edition	TEMA-C, BEM Type, Horizontal and size of 16" OD x 2800 mm L

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182	14WTO-139	PT Gearindo Prakasa for PT PHE ONWJ	Turbulator MMC BX Cooler for Chemical Treatment	ServMain	Twisted tape turbulator (246 pcs), solid soft iron (500 pcs)	Supply		Completed April 2014	SA240-304	ASME IIA, API 661	
181	14WTO-138	PT Pertamina (Persero) RU IV Cilacap	Turn Around 2014 Pertamina RU IV Cilacap	STHE	Supply Floating Head dan Stat Head Channel (011E129-2)	Supply		Current	SB171-614 floating head, SA516-70 CLAD SB171-614 stat. head channel	ASME IIA	925mm ID x 73m thk, 860mm ID x 1022mm OD
180	14WTO-137	PT Petro OXO Nusantara	Engineering Service for CFD Analysis on Reformer E-010B	ServMain	Engineering Analysis	Design		Current		ASME VIII Div. 1	
179	14WTO-136	PT ReKayasa Industri for PT Pupuk Sriwidjaja	Pusri-IIB Project	STHE	Air Compressor 2nd stage intercooler, 101-JC3	Design & Supply	32,071	Current	SA240-316 shell & channel, SA213-316 seamless tubes	TEMA, ASME VIII Div.1 , 2010 Edition	TEMA-R, BXM, size of 1705 mm ID x 7825 mm LOA
178	14WTO-136	PT ReKayasa Industri for PT Pupuk Sriwidjaja	Pusri-IIB Project	STHE	Air Compressor 2nd stage intercooler, 101-JC2	Design & Supply	30,500	Current	SA240-316 shell & channel, SA213-316 seamless tubes	TEMA, ASME VIII Div.1 , 2010 Edition	TEMA-R, BXM, size of 1790 mm ID x 8570 mm LOA
177	14WTO-136	PT ReKayasa Industri for PT Pupuk Sriwidjaja	Pusri-IIB Project	STHE	Air Compressor 1st stage intercooler, 101-JC1	Design & Supply	37,911	Current	SA240-316 shell & channel, SA213-316 seamless tubes	TEMA, ASME VIII Div.1 , 2010 Edition	TEMA-R, BXM, size of 2130 mm ID x 8380 mm LOA
176	14WTO-135	PT Petro Oxo Nusantara	C-011 After Cooler, Tag No. : E-001	STHE	Shell side for STHE E-001	Design & Supply	568	Current	SA106B shell, SA213-304 seamless tubes	TEMA, ASME VIII Div.1 , 2010 Edition	TEMA-R, BEM, Size of 12" OD x sch. 20 x 2771 mm L
175	14WTO-134	PT Yusonda Mahayasa Nusantara	Proyek Pembangunan Mini LPG Plant 2.2 MMSCFD di Musi Banuasari - Palembang	ACHE	Debutanizer Condenser (E-1404) Combined with Condensate Cooler (E-1405)	Design & Supply	6500	Current	Header Plates SA516-70, Finned Tubes SA179, Structure Galvanized to ASTM 123	API 661, ASME VIII Div. 1	Forced draft, 1 bay - 1 bundle per bay, size of bay: 2432mm Width x 4877mm Length
174	13WTO-133	PT Serba Dinamik Indonesia for Petronas Carigali	Kepodang Gas Development Project, Muriah PSC Indonesia	Other	Insulation for Exhaust Microturbine	Supply & Install		Completed November 2013	Rockwool 50mm thk, 120 kg/cbm		
173	13WTO-131	PT Dresser-Rand Services Indonesia for Chevron Indonesia, Minas	Fabricate, Supply & Commissioning of Four (4) Units of Air Cooler Heat Exchangers at Chevron Minas, Indonesia	ACHE	4 units of ACHE, 1 lifting device c/w sling, shackles & load certification, supervision for commissioning, special tools and spare parts	Design, Supply & Construction	5,540	Completed January 2014	Header Plates SA516-70, Finned Tubes SA179, Structure Galvanized to ASTM 123	API 661, ASME VIII Div. 1	Forced Draft, 4 Bays - 1 Bundle per bay, Size of bay : 2,60 m Width x 5,20 m Length.
172	13WTO-130	PT Pertamina (Persero) RU VI Balongan	Pengadaan Lube Oil Cooler 15-K-103 E3 A/B	STHE	2 units of STHE Lube Oil Cooler	Design & Supply	1,350	Completed	SA106B shell & channel, SA179 seamless tubes	TEMA, ASME VIII Div.1 , 2010 Edition	Size of 10 NPS x 2500mm L
171	13WTO-129	PT Samator	Replacement of Tube Bundle for Primary Evaporator and Secondary Evaporator	STHE	Primary Evaporator and Secondary Evaporator	Fabrication & Supply	8,450	Completed November 2013	SA312-316L shell & channel + SA213-316L seamless tubes	TEMA, ASME VIII Div.1 , 2010 Edition	Size of 800mm ID x 1990mm L; 400mm ID x 1997mm L
170	13WTO-128	PT Serba Dinamik Indonesia for Petronas Carigali	Kepodang Gas Development Project, Muriah PSC Indonesia	Other	Intake & Exhaust Ducting Pipe for Micriturbine	Design, Supply & Construction	3,597	Completed November 2013	SA312-316L pipes	ASME B31.3	
169	13WTO-127	PT Enviromate Technology International	Compressed Natural Gas (CNG) Tambak Lorok Project, Semarang	STHE	CNG Heat Exchanger Tag No. E-200; Horizontal, BEM Type, TEMA R	Design & Supply	4,002	Completed September 2013	SA312-316L shell & channel + SA213-316L seamless tubes	ASME VIII Div.1 , 2010 Edition	Size of 18in OD x 5000mm T/T
168	13WTO-126	PT Enviromate Technology International	Compressed Natural Gas (CNG) Tambak Lorok Project, Semarang	STHE	CNG Cooler Tag No. E-100; Horizontal, CEU Type, TEMA R	Design & Supply	5,967	Completed September 2013	SA106B shell + SA106B channel + SA179 seamless tubes	ASME VIII Div.1 , 2010 Edition	Size of 18in OD x 5000mm T/T
167	13WTO-125	PT Enviromate Technology International	Compressed Natural Gas (CNG) Tambak Lorok Project, Semarang	PV	Vent Stack	Design & Supply	1,961	Completed September 2013	SA516-70/SA106B shell	ASME VIII Div.1 , 2010 Edition	Size of 16in NPS x 16000mm T/T
166	13WTO-125	PT Enviromate Technology International	Compressed Natural Gas (CNG) Tambak Lorok Project, Semarang	PV	Closed Drain Drum	Design & Supply	2,289	Completed September 2013	SA516-70/SA106B shell	ASME VIII Div.1 , 2010 Edition	Size of 1200mm ID x 3200mm T/T
165	13WTO-125	PT Enviromate Technology International	Compressed Natural Gas (CNG) Tambak Lorok Project, Semarang	PV	Instrument Air Separator, tag no. V-300	Design & Supply	3,698	Completed September 2013	SA516-70/SA106B shell	ASME VIII Div.1 , 2010 Edition	Size of 1320mm ID x 4020mm T/T
164	13WTO-125	PT Enviromate Technology International	Compressed Natural Gas (CNG) Tambak Lorok Project, Semarang	PV	Gas Scrubber, tag no. V-100	Design & Supply	3,998	Completed September 2013	SA516-70/SA106B shell	ASME VIII Div.1 , 2010 Edition	Size of 1070mm ID x 2440mm T/T
163	13WTO-124	PT Champion Kurnia Djaja Technologies		ServMain	Turbulator MMC AX Cooler for Chemical Treatment, PHE ONWJ offshore platform	Design & Supply		Completed August 2013	SS316 twisted tape turbulator	API 661	
162	13WTO-122	PT Wijaya Karya (Persero) for Chevron Indonesia, North Duri	Pengadaan Barang CVC Condensate Air Cooler & AWT Heater Proyek ReKayasa Pengadaan dan Konstruksi NDD – 13 DURI – Riau, Indonesia	STHE	3 units of AWT Heater - South (8134.X.0701 ABC), Double Pipe Hairpin Heat Exchanger	Design & Supply	1,074	Current	SA106B shell + SA182-316L channel and seamless tubes	ASME VIII Div.1 , 2010 Edition	Horizontal, Hairpin Type, and Size of 154.051 mm ID x 6373 mm Tube Length

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161	13WTO-122	PT Wijaya Karya (Persero) for Chevron Indonesia, North Duri	Pengadaan Barang CVC Condensate Air Cooler & AWT Heater Proyek Rekayasa Pengadaan dan Konstruksi NDD – 13 DURI – Riau, Indonesia	STHE	4 units of AWT Heater - North (8131.X.0701 ABCD), Double Pipe Hairpin Heat Exchanger	Design & Supply	1,265	Current	SA106B shell + SA182-316L channel and seamless tubes	ASME VIII Div.1 , 2010 Edition	Horizontal, Hairpin Type, and Size of 146.33 mm ID x 6354.166 mm Tube Length
160	13WTO-121	PT Wijaya Karya (Persero) for Chevron Indonesia, North Duri	Pengadaan Barang CVC Condensate Air Cooler & AWT Heater Proyek Rekayasa Pengadaan dan Konstruksi NDD – 13 DURI – Riau, Indonesia	ACHE	1 unit of Air Cooled Heat Exchanger, CVC Condensate Air Cooler, tag no. 8131.X.0901/0902/0903/0904	Design & Supply	174,128	Current	Header Plates SA516-70, Finned Tubes SA179, Structure Galvanized to ASTM 123	API 661, ASME VIII Div. 1	Forced Draft, 4 Bays - 2 Bundles per bay, Size of bay : 6,10m Width x 12,49m Length.
159	13WTO-120	PT Tracon Industri	Modifikasi dan Penyempurnaan Stasiun Pengumpul Gas Merbau (EPC)	STHE	Supply of 2 Years Spare Part for Amine Salt Treater Cooler	Supply		Completed February 2013	SWSSGF 316L/Solid 316L Gasket + SA193-B7/SA194 2H Bolts & Nuts + SA105N Plug/Solid Soft Iron Gasket + Bearing + HTD Belt		
158	13WTO-119	PFM Engineering Pte Ltd, Singapore	Supply Heat Exchanger tag no. HX#01, Vertical, BEM Type, TEMA R	STHE	Shell & Tube Heat Exchanger tag no. HX#01, Vertical, BEM Type, TEMA R	Design & Supply	9,819	Completed September 2013	SA789-31803 Tube & SA182 F51 Tubesheet + SA240-31803 Gr. E Shell & Channel	TEMA, ASME VIII Div. 1	Size 1190 mm ID x 4500 mm L
157	13WTO-118	PT. ALP Petro Industry		STHE	Replacement unit Reboiler E-202 SWS	Design & Supply		Completed July 2013	Material of shell Carbon stell ASTM A516 Gr 70	TEMA, ASME VIII Div. 1	Size 350 mm ID x 3048 mm L
156	13WTO-117	PT. Indoturbine for PT Pertamina EP	Subang Additional Gas Compression Feed Package	ACHE	3 Unit Compressor Discharge Cooler Item No. E-001 A/B/C Forced Draft	Design & Supply		Current	Forced Draft, Material Header A240-316, Tube A213-TP316	API 661, ASME VIII Div. 1	Estimate Size per bay 3975 m Width x 9449 m Length
155	13WTO-116	PT. Fajar Mas Murni	Krakatau Daya Listrik Power Plant Project	Other	Supply material nozzle	Supply		Completed January 2013	Material forging		
154	12WTO-115	ETI - Merak Borindo Mandiri	CNG Project Grati	Other	Hot Water Tank Tag No. T-200, Field Erected, Vertical, complete set with Radiator, Platform & Ladder	Design, Supply & Construction	25,603	Completed June 2013		API 650, ASME VIII Div. 1	Size 7500 mm ID x 6140 mm H
153	12WTO-114	ETI - Merak Borindo Mandiri	CNG Project Grati	STHE	STHE Tag No. E-200, Horizontal, BEM Type, TEMA R	Design & Supply		Completed May 2013		TEMA, ASME VIII Div. 1	Size 562 mm ID x 4200 mm L
152	12WTO-113	PT. Istana Karang Laut for Chevron Bangladesh	Jalalabad Process Up Grade Chevron Bangladesh, Block Thirteen and Fourteen, LTD	STHE	Gas/Gas Exchanger, Tag No. E251; NEN Type, TEMA R, Horizontal	Design & Supply	45,336	Current		TEMA, ASME VIII Div. 1	Size 965.2 mm ID x 14630 mm L; 45336 Kg
151	12WTO-112	PT. Istana Karang Laut	CNG Project Grati	STHE	CNG Cooler Tag No. E-100; Horizontal, CEU Type, TEMA R	Design & Supply		Completed May 2013		TEMA, ASME VIII Div. 1	Size 476.25 mm ID x 4200 mm L
150	12WTO-111	PT. Profab Indonesia		STHE	Engineering services			Completed December 2012		TEMA, ASME VIII Div. 1	
149	12WTO-110	PT. Depriwangga Engineering		ACHE	Engineering services, Site services and supervision for ACHE	Design		Completed November 2012		API 661, ASME VIII Div. 1	
148	12WTO-109	PT. Kayu Lapis Indonesia		PHE	Supply one set PHE (Mainen)	Supply		Completed January 2013	Plate SS 316 (0.6mm T), Gasket EPDM, PHE model P31 x 120	API 662	
147	12WTO-108	PT. Petro OXO Nusantara		Other	Supply fan of ACHE	Supply		Completed			
146	12WTO-107	PT. Samator		STHE	Retubing STHE BFW Preheater BFU type, TEMA R	Design & Supply		Completed			
145	12WTO-106	PT. Slipform Indonesia	Sengkang Plant Block 2 Project	Other	Material for SWC Phase # 3 supply of valve	Supply		Completed			
144	12WTO-105	PT. Slipform Indonesia	Sengkang Plant Block 2 Project	Other	Deaerator Safety Valve Counters Flange and Gasket	Supply		Completed			
143	12WTO-104	PT. Slipform Indonesia	Sengkang Plant Block 2 Project	Other	Material for SWC Phase # 3	Supply		Completed			
142	12WTO-103	PT. Slipform Indonesia	Sengkang Plant Block 2 Project	Other	Material for SWC Phase # 3	Supply		Completed			
141	12WTO-102	PT. JGC Indonesia	Penambahan Sour Water Stripping RU-V Balikpapan	ServMain	Site services and supervision	Services		Completed February 2012			
140	12WTO-101	PT. Sandana - Samator Group		PHE	Spare part Gasket NBR	Supply		Completed October 2012			
139	12WTO-100	PT. BBM Petroina - TPPI		Other	Basket Strainer	Design & Supply		Current	Ellipsoidal head and shell Carbon Steel, Element Filter SS304	ASME VIII Div. 1	

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NO.	JOB NO.	CUSTOMER / END USER	PROJECT TITLE	PRODUCT DELIVERED		SCOPE OF WORK	WEIGHT KGS	YEAR BUILT	MATERIAL	CODE / STD	REMARK
				TYPE	EQUIPMENT NAME						
138	12WTO-099	PT. Tracon Industri	Modifikasi dan Penyempurnaan Stasiun Pengumpul Gas Merbau (EPC)	Other	Spreader Bar for ACHE	Supply		Completed July 2012	Material Carbon Steel	ASME VIII Div. 1	
137	12WTO-098	PT. Fajar Mas Murni	Krakatau Daya Listrik Power Plant Project	ACHE	Gas Cooler	Design & Supply	12,746	Completed December 2012	Forced Draft, Material Header A240-304, Tube A213-TP304	API 661, ASME VIII Div. 1	Plot Area 3.1 m W x 6.7 m L
136	12WTO-097	Pertamina RU IV Cilacap	Part Replacement	Other	Channel Cover & Shell Cover	Supply		Completed December 2012	Ellipsoidal head and shell Carbon Steel		
135	12WTO-096	PT. Guntner Indonesia	Provision of Calibrated Instrument and Qualified Operator for Vibration Check	Other	Inspection Service	Supply		Completed April 2012			
134	12WTO-095	PT. Kayan Putra Utama Coal	Supply Instrument Parts	Other	Magnetic Level Gauge	Supply & Install		Completed August 2012			
133	12WTO-094	PT. ReKayasa Industri for PT Pertamina RU III Plaju	Sour Water Striper Project-PT. Pertamina RU-III (Plaju)	ACHE	Side Reflux Cooler (E-63-002) and Bottom Cooler (E-63-004)	Design & Supply	37,003	Completed December 2012	Header Plates Duplex, Tube Duplex Seamless, Structure Galvanized to ASTM 123	API 661, ASME VIII Div. 1	4.4m W x 9.2m L Forced Draft, 2.8m W x 6.1m W
132	12WTO-093	PT. JGC Indonesia	Penambahan Sour Water Stripping RU-V Balikpapan	Other	Spare Part for Fin Fan Cooler/ACHE	Supply		Completed January 2012	Gasket solid soft iron for plug and grease NSK lub		
131	12WTO-092	PT. Kayan Putra Utama Coal		Other	Oil Tank Capacity 12 kL and 7.5 kL	Design & Supply	5,556	Completed August 2012	Ellipsoidal head and shell Carbon Steel	API 650, ASME VIII Div. 1	Weight 3153 kg and 2403 kg
130	12WTO-091	CV. Richtech		PHE	Spare part Gasket NBR	Supply		Completed April 2012	Gasket NBR	API 662	
129	12WTO-090	PT. Dinamika Mitra Sejati	Sengkang Combined Cycle Power Plant Project	Other	Deaerator System consists of Spray-tray type vertical stripping tower and Horizontal storage tank	Design & Supply	8,000	Completed November 2012	Shell & dished head SA516-70, Spray chamber SS 304L	ASME VIII Div. 1	Striping tower 1200 x 2500 and Horizontal storage tank ID 2300 x 6700 L
128	12WTO-089	PT. Wijaya Karya	ICA Alumina Tayan Project	Other	Air Receiver Tank	Design & Supply	42,047	Completed February 2013	Ellipsoidal head and shell Carbon Steel	API 650, ASME VIII Div. 1	
127	12WTO-088	PT. Tracon Industri	Modifikasi dan Penyempurnaan Stasiun Pengumpul Gas Merbau (EPC)	ACHE	Amine Salt Treater Cooler	Design & Supply	8,093	Completed July 2012	Header Plates SA516 Gr.70, Tube SA179 Seamless, Structure Galvanized to ASTM 123	API 661, ASME VIII Div. 1	5.5' W x 12.7' L Forced Draft
126	12WTO-087	PT. Mitra Teknik Abadi		Other	Supply material of Tube A 179	Supply		Completed February 2012			
125	12WTO-086	PT. Kayan Putra Utama Coal		Other	Fuel storage tank capacity 30KI	Design & Supply	9,300	Completed July 2012	Ellipsoidal head Carbon Steel, ID 2525mm x 6000mm x 6.35mm Thk, Tank shelter, Skid foundation	API 650, ASME VIII Div. 1	Total weight per unit 4650 kg
124	12WTO-085	PT. Karya Energi Indonesia for Santos (Sampang) Pty. Ltd		Other	Spare Part for Fin Fan Cooler/ACHE	Supply		Completed January 2012	Belt, Bearing, Pulley and Vibration Switch	API 661	
123	12WTO-084	PT. Lintech Duta Pratama		Other	Plate material	Supply		Completed December 2011			
122	12WTO-083	PT. Lintech Duta Pratama		Other	Plate material	Supply		Completed December 2011			
121	12WTO-082	PT. Lintech Duta Pratama		Other	Plate material	Supply		Completed December 2011			
120	11WTO-081	PT. Punj Lloyd Indonesia	Pertamina PHE ONWJ New Field Development Project	Other	Spare Part for Fin Fan Cooler/ACHE	Supply		Completed December 2011	Bolts and Nuts of Fan	API 661	
119	11WTO-080	Santos (Sampang) Pty. Ltd		Other	Spare Part for Fin Fan Cooler/ACHE	Supply		Completed January 2012	Belt, Bearing, Pulley and Vibration Switch	API 661	



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				TYPE	EQUIPMENT NAME						
118	11WTO-079	PT. Lintech Duta Pratama		PV	Fabrication of Air Receiver	Fabrication	7,658	Completed January 2012	Ellipsoidal head and shell Carbon Steel	API 650, ASME VIII Div. 1	
117	11WTO-078	PT. PAL Indonesia	PT. Pertamina (persero), Production Sungai Pakning	STHE	Tube Bundle Assy, ¼ In, SA179	Design & Supply		Completed January 2012	Tube SA179, Tube Sheet SA516 Gr.70	TEMA, ASME VIII Div. 1	
116	11WTO-077	PT. Punj Lloyd Indonesia	Pertamina PHE ONWJ New Field Development Project	Other	Spreader Bar for ACHE	Supply		Completed October 2011		ASME VIII Div. 1	
115	11WTO-076	PT. Trans Pacific Petrochemical Indotama		STHE		Design & Supply		Completed December 2011	Tube Naval Brass SB111 UNS C44300	TEMA, ASME VIII Div. 1	
114	11WTO-075	PT Petro OXO Nusantara		STHE		Design & Supply		Completed December 2011		TEMA, ASME VIII Div. 1	
113	11WTO-074	PT. Wijaya Karya	PLTD Ambon	PHE	Sea water cooler	Supply		Completed November 2011	Plate Titanium 0.5, Gasket NBR, PHE model HT201L-1P-79	API 662	
112	11WTO-073	CV. Richtech		PHE		Supply		Completed June 2011	Plate SS316, Gasket NBR	API 662	
111	11WTO-072	PT. Punj Lloyd Indonesia	Pertamina PHE ONWJ New Field Development Project	STHE		Design & Supply		Completed August		TEMA, ASME VIII Div. 1	
110	11WTO-071	PT. Petro OXO Nusantara		Other	Reformer Feed Preheating Coil tag no. E-010 B	Design, Supply & Construction		Completed June 2011	Cuntruction with material of Pipe 253 MA	ASME VIII Div. 1	
109	11WTO-070	PT. Punj Lloyd Indonesia	Pertamina PHE ONWJ New Field Development Project	ACHE	After Cooler, MMC-C-001-AX forced draft combine Lube Oil Cooler MMC-C-001-CX forced draft & After Cooler, MMC-C- 001-BX forced draft combine Lube Oil Cooler MMC-C-0001- ny	Design & Supply		Completed August 2011		API 661, ASME VIII Div. 1	
108	11WTO-069	PT. Telehouse Engineering		Other	CKD Shelter – 3 x 4 x 3 M Including Baseframe + Pedestal	Supply		Completed March 2011			
107	11WTO-068	PT. Tripatra Engineers and Constructors	Jambi Merang Development Gas Production Facilities	Other	Technical Assistance for treated Gas Cooler (SK-25-E-			Completed February	Treated Gas Cooler (SK-25-E-02)		
106	10WTO-067	CV. Richtech		PHE	PHE Package	Supply		Completed december 2010	GXD-007 x 53	API 662	
105	10WTO-066	PT. JGC Indonesia	Penambahan Sour Water Stripping RU-V Balikpapan	ACHE	SWS Pump Around Cooler (E- 17-03), Stripped Water Cooler (E-17-04)	Design & Supply		Completed February 2011	Header Plates SA204 Gr. 316L, Tube SA213 TP 316L Seamless, Structure Galvanized to ASTM 123	API 661, ASME VIII Div. 1	E-17-03 Forced Draft, E-17-04 Forced Draft
104	10WTO-065	PT. Mega Surya Eratama		PHE	PHE Package	Supply		Completed december 2010	GLD-013-L-5-N-34 and GLD-013-M- 5-N-58	API 662	
103	10WTO-064	PT. Bina Usaha Maritim Indonesia		PHE	Spare Part of Titanium plates and Gasket GXD-042	Supply		Completed december 2010	GXD-042-L-5-Ti-1234-NBR	API 662	
102	10WTO-063	CV. Kalen Tapen	Pertamina EP Region Jawa	ACHE	Gas Cooler	Supply		Completed November 2010	Replacement AC Coil Section for E 170.2	API 661, ASME VIII Div. 1	
101	10WTO-062	Tripatra Engineers and Constructors	Jambi Merang Development Gas Production Facilities	ACHE	Supply of transportation beam & nuts for fireproofing of air cooled heat exchangers	Supply		Completed September 2010			
100	10WTO-061	PT. Yudistira Energy	LPG Plant – Pondok Tengah, Bekasi Utara	ACHE	Regen Gas Cooler E-104, LPG Condenser E-404, Condensate E-407	Design & Supply		Completed September 2010	Seamless tubes SA179, SA516Gr.70 SA106Gr.B, SA105	API 661, ASME VIII Div. 1	
99	10WTO-060	PT. Transalindo Eka Persada for PT. PLN (Persero)	PT. PLN Pembangkit Sumatera Bagian Utara Sector Pembangkit Belawan	STHE	Lube Oil Cooler PLTU 2	Design & Procurement		Completed September 2010	Seamless tubes SB338 Gr2 size of 15.875 OD x 1.245 A/W x 3950mmLG	TEMA, ASME VIII Div. 1	TEMA-R Class, BEW type, Size 406.4 OD x 3950 L
98	10WTO-059	In purpose of ASME U Stamp requirement		Other				Completed September 2010			

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97	10WTO-058	Tripatra Engineers and Constructors	Jambi Merang Development Gas Production Facilities	ACHE	Lean Solvent Cooler (SK-25-E-04)	Design & Supply		Completed 2010	Steel structure support height complete with fabrication and hot dip galvanized	API 661, ASME VIII Div. 1	
96	10WTO-057	Korea Development Co, LTD		ACHE	Air Cooled Heat Exchanger Tube Bundle Assembly for PPP Compressor Project	Construction		Completed 2010		API 661, ASME VIII Div. 1	
95	10WTO-056	PT. Dinamika Energitama Nusantara	Generator Power Plant 3 MW-Solo	Other	Design and Engineering work external piping system & support	Design		Completed August 2010			
94	10WTO-055	PT. Otsuka Indonesia	PT. Otsuka Indonesia	PHE	GXD-026-L-5-P-121	Supply	-	Completed april, 2010	EPDM(P) Gaskets, SS304 Plates, DN100, DIN2501 SS316	API 662	
93	09WTO-054	Profab Indonesia, PT			Supply of Structural Design of Surge Tank 200 BBL	Design	-	Completed january, 2010		ASME VIII Div. 1	
92	09WTO-053	PT. Media Karya Sentosa	PT. Media Karya Sentosa	ACHE	Propane Condenser (HX-1) for flowrate 35000 lbr/hr	Design, Supply & Construction	22,914	Completed March, 2010	SA516Gr70, SA179 seamless, SA106GrB/SA105, SA105 plugs	API 661, ASME VIII Div. 1	15.7' W x 29.2' L Forced Draft
91	09WTO-052	Jasa Metal		Other	Tube Material	Supply	-	Completed 2010			
90	09WTO-051	Tripatra Engineers and Constructors for HESS – Pertamina Jambi Merang	Jambi Merang Development Gas Production Facilities	ACHE	Stabilizer Overhead Comp. AfterCooler (SK-35-E-02 A/B)	Design and Supply	-	Completed August 2010	A213 TP316L Tube & A240 Gr. 316L Header	API 661, ASME VIII Div. 1	
89	09WTO-050	Santos Asia Pasific Ptv. Ltd	Santos Asia Pasific Ptv. Ltd	ACHE	service and replacement of blades (moore fans) on ACHE	Supply	-	Completed November 2009		API 661, ASME VIII Div. 1	
88	09WTO-049	Santos (Sampang) Pty. Ltd	Santos (Sampang) Pty. Ltd	ACHE	service order 901190 troubleshoot on ACHE service	Troubleshoot	-	Completed July, 2009		API 661	
87	09WTO-048	Santos (Sampang) Pty. Ltd	Santos (Sampang) Pty. Ltd	ACHE	service order 901152 troubleshoot on ACHE service	Troubleshoot	-	Completed July, 2009		API 661	
86	09WTO-047	Santos (Sampang) Pty. Ltd	Provision of Heat Exchanger for General Cooling System Bid No. 900998	STHE	Provision of Heat Exchanger for General Cooling System	Supply	-	Completed February, 2010	Tube seamless SA213TP316, SA240Gr316, SA106B, SA105, A516GR70	TEMA, ASME VIII Div. 1	
85	09WTO-046	HESS (Indonesia – Pangkah) Ltd.	UPD Phase II Gresik, East Java Indonesia	ACHE	2 Years Operations Spare Parts UPD II Gresik, East Java Indonesia	Supply	-	Completed July, 2009		API 661	Spare Parts belt for UPD II Gresik, East Java Indonesia
84	09WTO-045	KODECO ENERGY CO. LTD	Kodeco Poleng Booster Compressor PPP Platform, Java Sea, North of Madura Island	ACHE	Poleng Booster Compressor Discharge Cooler, PPP Platform, E-625/626	Design and Supply	-	Completed November 2009	A179 Seamless Tube + A516 Gr.70 Header	API 661, ASME VIII Div. 1	4517 W x 9144 L Forced Draft
83	09WTO-044	Bumi Ship Management, PT For Bina Usaha Maritim Indonesia, PT	MT. Layar Samudera	PHE	GXD-042	Supply	-	Completed April, 2009	NBR, Plate Titanium	API 662	Spare Part Gasket & Plate
82	09WTO-043	Garnesia Ciptaniaga Utama, PT For Chevron Gunung Derajat	Chevron Gunung Derajat	PHE	Gasket EPDM for Exchanger Model 06-T26-HP-109 shop order no 76577	Supply	-	Completed April, 2009	NBR	API 662	Spare Part Gasket EPDM
81	08WTO-042	HESS (Indonesia – Pangkah) Ltd.	UPD Phase II Gresik, East Java Indonesia	ACHE	2 Years Operations Spare Parts UPD II Gresik, East Java Indonesia	Supply	-	Completed February, 2009	SWSSGF 316L/Solid 316L Gasket + SA320 L7M/SA194 7M Bolts & Nuts + SA105N/SA182 F51 Plug	API 661, ASME VIII Div. 1	Spare Parts Plug, Plug Gasket, Bolts & Nuts, Gasket for UPD II Gresik, East Java Indonesia
80	08WTO-041	Samator, PT.	Economizer Heat Exchanger	STHE	BFW Preheater (E21)	Design and supply	1,590	Completed September 2009	A213TP321 Tube + A105 Shell & Channel	TEMA, ASME VIII Div. 1	TEMA R-BFU 406.4 OD x 4000 S L
79	08WTO-040	Tripatra Engineers and Constructors for HESS – Pertamina Jambi Merang	Jambi Merang Development Gas Production Facilities	STHE	Amine Reboiler (SK-25-E-06)	Design and supply	-	Completed August 2010	A213TP304L Tube + A105 Shell & Channel	TEMA, ASME VIII Div. 1	TEMA R-AJ12U 1371.6 ID x 6096 L
78	08WTO-040	Tripatra Engineers and Constructors for HESS – Pertamina Jambi Merang	Jambi Merang Development Gas Production Facilities	STHE	Amine Feed Product Regency (SK-25-E-01)	Design and supply	-	Completed August 2010	A213TP304L Tube + A240 Gr.304L Shell & Channel	TEMA, ASME VIII Div. 1	TEMA R-AEU 787.4 ID x 2590.8 L
77	08WTO-040	Tripatra Engineers and Constructors for HESS – Pertamina Jambi Merang	Jambi Merang Development Gas Production Facilities	STHE	Stabilizer Reboiler (SK-35-E-03)	Design and supply	-	Completed August 2010	A179 Tube + A516 Gr.70 Shell & Channel	TEMA, ASME VIII Div. 1	TEMA R-AKU 871.22 ID - 1486.97 ID x 5029.2 L

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76	08WTO-040	Tripatra Engineers and Constructors for HESS – Pertamina Jambi Merang	Jambi Merang Development Gas Production Facilities	STHE	De-ethanizer Reboiler (SK-45-E-04 A/B)	Design and supply	-	Completed August 2010	A213TP316L Tube + A240 Gr.316L Shell & Channel	TEMA, ASME VIII Div. 1	TEMA R-AKU 515.62 ID - 1014.5 ID x 5181.6 L
75	08WTO-039	Tripatra Engineers and Constructors for HESS – Pertamina Jambi Merang	Jambi Merang Development Gas Production Facilities	ACHE	Treated Gas Cooler (SK-25-E-02)	Design and supply	-	Completed August 2010	A213 Gr.TP304L Seamless Tube + A516 Gr.70 Header	API 661, ASME VIII Div. 1	4760 W x 9000 L Forced Draft
74	08WTO-039	Tripatra Engineers and Constructors for HESS – Pertamina Jambi Merang	Jambi Merang Development Gas Production Facilities	ACHE	Regeneration Gas Cooler (SK-30-E-01)	Design and supply	-	Completed August 2010	A179 Seamless Tube + A516 Gr.70 Header	API 661, ASME VIII Div. 1	3330 W x 6100 L Forced Draft
73	08WTO-039	Tripatra Engineers and Constructors for HESS – Pertamina Jambi Merang	Jambi Merang Development Gas Production Facilities	ACHE	Acid Gas Condenser (SK-25-E-05)	Design and supply	-	Completed August 2010	A213 Gr.TP304L Seamless Tube + A240 Gr.304L Header	API 661, ASME VIII Div. 1	1890 W x 4060 L Forced Draft
72	08WTO-039	Tripatra Engineers and Constructors for HESS – Pertamina Jambi Merang	Jambi Merang Development Gas Production Facilities	ACHE	Lean Solvent Cooler (SK-25-E-04)	Design and supply	-	Completed August 2010	A213 Gr.TP304L Seamless Tube + A516 Gr.70 Header	API 661, ASME VIII Div. 1	1177 W x 2743 L Forced Draft
71	08WTO-038	Tripatra Engineers and Constructors for HESS – Pertamina Jambi Merang	Jambi Merang Development Gas Production Facilities	ACHE	Sales Gas Compressor After Cooler (SK-50-E-01 A/B)	Design and supply	-	Completed August 2010	A179 Seamless Tube + A516 Gr.70 Header	API 661, ASME VIII Div. 1	4963 W x 9000 L Forced Draft
70	08WTO-038	Tripatra Engineers and Constructors for HESS – Pertamina Jambi Merang	Jambi Merang Development Gas Production Facilities	ACHE	Expander Compressor After Cooler (SK-45-E-05)	Design and supply	-	Completed August 2010	A179 Seamless Tube + A516 Gr.70 Header	API 661, ASME VIII Div. 1	4618 W x 9000 L Forced Draft
69	08WTO-038	Tripatra Engineers and Constructors for HESS – Pertamina Jambi Merang	Jambi Merang Development Gas Production Facilities	ACHE	De-Ethanizer NGL Cooler (SK-45-E-03)	Design and supply	-	Completed August 2010	A179 Seamless Tube + A516 Gr.70 Header	API 661, ASME VIII Div. 1	2635 W x 7315 L Forced Draft
68	08WTO-038	Tripatra Engineers and Constructors for HESS – Pertamina Jambi Merang	Jambi Merang Development Gas Production Facilities	ACHE	Stabilizer NGL Product Cooler (SK-35-E-01)	Design and supply	-	Completed August 2010	A179 Seamless Tube + A516 Gr.70 Header	API 661, ASME VIII Div. 1	3455 W x 9000 L Forced Draft
67	08WTO-037	Chevron Geothermal Salak, Ltd	Chevron Geothermal Gunung Salak	PHE	EXH-EG-4870	Supply	-	Completed Juni, 2009	SS304/NBR	API 662, ASME VIII Div. 1	GXD-051-H-5-N-79
66	08WTO-036	INCO Tbk, PT.	INCO Sorowako, South Sulawesi Indonesia 92984	STHE	Drain Cooler	Design and supply	-	Completed February, 2008	SB111C44300 Tube + A106Gr.B Shell & Channel	TEMA, ASME VIII Div. 1	TEMA R-NEN PIPE 12DN SCH STD x 4962 mm L
65	08WTO-035	Petro Oxo Nusantara, PT	MDEA Lean Cooler Replacement	STHE	Lean MDEA Cooler	Design and supply	-	Completed February, 2008	A213TP304L Tube + A106Gr.B Shell & Channel	TEMA, ASME VIII Div. 1	TEMA R-BEM PIPE 16DN SCH STD x 7331 mm L
64	08WTO-034	Inti Karya Persada Teknik(IKPT), PT For Medco E & P Lematang	Singa Gas Development Project	PHE	35-HBC-204 A/B	Supply	-	Completed December, 2009	SS316L	API 662, ASME VIII Div. 1	6XD-100-L-6-S-179
63	08WTO-033	Inti Karya Persada Teknik(IKPT), PT For Medco E & P Lematang	Singa Gas Development Project	ACHE	Sweet Gas Cooler	Design and supply	-	Completed December, 2009	A213 TP316 Tube & A240 Gr. 316L Header	API 661, ASME VIII Div. 1	2845 W x 6200 L Forced Draft
62	08WTO-033	Inti Karya Persada Teknik(IKPT), PT For Medco E & P Lematang	Singa Gas Development Project	ACHE	Condenser	Design and supply	-	Completed December, 2009	A213 TP316 Tube & A240 Gr. 316L Header	API 661, ASME VIII Div. 1	2845 W x 7415 L Forced Draft
61	08WTO-033	Inti Karya Persada Teknik(IKPT), PT For Medco E & P Lematang	Singa Gas Development Project	ACHE	Lean Cooler	Design and supply	-	Completed December, 2009	A179 Tube & A516 Gr. 70 Header	API 661, ASME VIII Div. 1	2825 W x 11100 L Forced Draft
60	08WTO-032	Indocool Solusi Cemerlang, PT	Fan ring	ACHE		Supply	-	Completed June, 2008	SA36	API 661, ASME VIII Div. 1	1239 ID x 714 c/w jointing & Bolt and nuts
59	08WTO-031	OGPP Engineering SDN BHD For Petronas Penapisan (Melaka) SDN BHD	HSFO Blending Project	STHE	Desalter Water Effluent Cooler	Design & Supply	7,211	Completed December, 2009	SA179213-T5 Tube & SA182GRF5 Tubesheet + SA387GR5CL2 Shell & Channel	TEMA, ASME VIII Div. 1	TEMA R-AES 760 ID x 6096 mm L
58	08WTO-030	Tripatra Engineers and Constructors for Pertamina Jambi Merang	Fatigue analysis for dehydration Vessel	PV	Dehydration Vessel	Design	-	Completed June, 2008	-	ASME VIII Div. 1	-



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57	08WTO-029	Fajar Mas Murni for Lapindo Brantas Inc	Wunut gas compressor restaging project	PV	Suction Bottle No.1 and Discharge bottle No.1	Design and supply	583	Completed June, 2008	SA106 Gr. B / SA516 GR70	ASME VIII Div. 1	609.6 OD x 1549.4 SM/SM
56	08WTO-028	Indocool Solusi Cemerlang, PT for Chevron	Melahin Platform	ACHE	AC-FLT-100	Design	708	Completed May, 2008	A179 Tube + A516 Gr. 70 Header	API 661, ASME VIII Div. 1	1549.3 W x 1615.44 L Forced Draft
55	07WTO-027	Fajar Mas Murni for Lapindo Brantas Inc	Compressor Re-staging Cooler	ACHE	E-371B/C	Design and supply	7,525	Completed May, 2008	A179 Tube + A516 Gr. 70 Header	API 661, ASME VIII Div. 1	1994 W x 5913.12 L Forced Draft
54	07WTO-026	Chevron Geothermal Salak, Ltd	PHE Package	PHE	EXH-EG-4870	Supply	950	Completed 2008	SS304	API 662, ASME VIII Div. 1	GXD-051-L-5-N-47
53	07WTO-025	Dinamika Energi Nusantara Indonesia, PT. for INCO Soroako	Retubing LP Heaters	STHE	LP Heater No. 2, EH-2	Retubing	3,402	Completed March, 2008	SB111 C44300 + A516 Gr. 70 Shell	TEMA, ASME VIII Div. 1	26" ID x 15'-3"SL
52	07WTO-025	Dinamika Energi Nusantara Indonesia, PT. for INCO Soroako	Retubing LP Heaters	STHE	LP Heater No. 1, EH-1	Retubing	3,084	Completed March, 2008	SB111 C44300 + A516 Gr. 70 Shell	TEMA, ASME VIII Div. 1	27" ID x 14'-9"SL
51	07WTO-024	OGPP Engineering Sdn Bhd for Petronas Methanol Labuan Sdn Bhd	TMA Catchpot and Supply & Loading Supervision of Ion Exchanger Resin	PV	TMA Catchpot, F-03008	Design & Supply	8,074	Completed, May, 2008	A516 Gr. 70	ASME VIII Div. 1	1536 ID x 4000 T/T
50	07WTO-023	Tripatra (TPEC) & Puspetindo for HESS Indonesia Pty. Ltd.(HIPL) (Ujung Pangkah Development Project Phase II)	Onshore Oil Treating and LPG Recovery Plant Facilities Pangkah Liquid Development Project	ACHE	Recompressor Cooler, 482-H-09	Design & Supply	15,354	Completed August 2008	A179 Tube + A516 Gr. 70 Header	API 661, ASME VIII Div. 1	4089 W x 8620 L Forced Draft
49	07WTO-023	Tripatra (TPEC) & Puspetindo for HESS Indonesia Pty. Ltd.(HIPL) (Ujung Pangkah Development Project Phase II)	Onshore Oil Treating and LPG Recovery Plant Facilities Pangkah Liquid Development Project	ACHE	De-Butanizer Condenser, 482-H-06	Design & Supply	12,450	Completed August 2008	A179 Tube + A516 Gr. 70 Header	API 661, ASME VIII Div. 1	2x3772 W x 8620 L Forced Draft
48	07WTO-023	Tripatra (TPEC) & Puspetindo for HESS Indonesia Pty. Ltd.(HIPL) (Ujung Pangkah Development Project Phase II)	Onshore Oil Treating and LPG Recovery Plant Facilities Pangkah Liquid Development Project	ACHE	De-Propanizer Condenser, 482-H-04	Design & Supply	18,353	Completed August 2008	A179 Tube + A516 Gr. 70 Header	API 661, ASME VIII Div. 1	2x4661 W x 8620 L Forced Draft
47	07WTO-023	Tripatra (TPEC) & Puspetindo for HESS Indonesia Pty. Ltd.(HIPL) (Ujung Pangkah Development Project Phase II)	Onshore Oil Treating and LPG Recovery Plant Facilities Pangkah Liquid Development Project	ACHE	Residue Discharge Cooler, 440-H-02	Design & Supply	13,930	Completed August 2008	A179 Tube + A516 Gr. 70 Header	API 661, ASME VIII Div. 1	3962 W x 8620 L Forced Draft
46	07WTO-023	Tripatra (TPEC) & Puspetindo for HESS Indonesia Pty. Ltd.(HIPL) (Ujung Pangkah Development Project Phase II)	Onshore Oil Treating and LPG Recovery Plant Facilities Pangkah Liquid Development Project	ACHE	Inlet Gas Cooler, 440-H-01	Design & Supply	24,350	Completed August 2008	A179 Tube + A516 Gr. 70 Header	API 661, ASME VIII Div. 1	6413 W x 8620 L Forced Draft
45	07WTO-023	Tripatra (TPEC) & Puspetindo for HESS Indonesia Pty. Ltd.(HIPL) (Ujung Pangkah Development Project Phase II)	Onshore Oil Treating and LPG Recovery Plant Facilities Pangkah Liquid Development Project	ACHE	Regeneration Gas Cooler, 436-H-01	Design & Supply	7,185	Completed Early July 2008	A789 S31803 Tube + A240 S31803	API 661, ASME VIII Div. 1	1362 W x 8620 L Forced Draft
44	07WTO-023	Tripatra (TPEC) & Puspetindo for HESS Indonesia Pty. Ltd.(HIPL) (Ujung Pangkah Development Project Phase II)	Onshore Oil Treating and LPG Recovery Plant Facilities Pangkah Liquid Development Project	ACHE	VRU Recycle Cooler, 339-H-03	Design & Supply	6,860	Completed Early July 2008	A179 Tube + A516 Gr. 70 Header NACE	API 661, ASME VIII Div. 1	1630 W x 5350 L Forced Draft
43	07WTO-023	Tripatra (TPEC) & Puspetindo for HESS Indonesia Pty. Ltd.(HIPL) (Ujung Pangkah Development Project Phase II)	Onshore Oil Treating and LPG Recovery Plant Facilities Pangkah Liquid Development Project	ACHE	2nd Stage Flash Gas Compressor After Cooler, 339-H-02A/B	Design & Supply	3,670	Completed Early July 2008	A789 S31803 Tube + A240 S31803 NACE	API 661, ASME VIII Div. 1	1295 W x 3048 L Forced Draft
42	07WTO-023	Tripatra (TPEC) & Puspetindo for HESS Indonesia Pty. Ltd.(HIPL) (Ujung Pangkah Development Project Phase II)	Onshore Oil Treating and LPG Recovery Plant Facilities Pangkah Liquid Development Project	ACHE	1st Stage Flash Gas Compressor After Cooler, 339-H-01A/B	Design & Supply	3,370	Completed Early July, 2008	A789 S31803 Tube + A240 S31803 NACE	API 661, ASME VIII Div. 1	1027 W x 3048 L Forced Draft
41	07WTO-023	Tripatra (TPEC) & Puspetindo for HESS Indonesia Pty. Ltd.(HIPL) (Ujung Pangkah Development Project Phase II)	Onshore Oil Treating and LPG Recovery Plant Facilities Pangkah Liquid Development Project	ACHE	Crude Oil Rundown, 332-H-02	Design & Supply	10,160	Completed Early July, 2008	A179 Tube + A516 Gr. 70 Header NACE	API 661, ASME VIII Div. 1	3105 W x 8620 L Forced Draft
40	07WTO-022	OGPP Engineering Sdn Bhd for Polyethylene Malaysia Sdn Bhd	Thermal Design for Resizing/ Modification Plan of Heat Exchanger PE2 E400	STHE	Heat Exchanger PE 2 E400	Design	34,452	2007	CS + Sakaephen	TEMA, ASME VIII Div. 1	TEMA R-BEM 1510 ID x 6900 L
39	07WTO-021	CKK Incorporated Korea for Media Karva Sentosa, PT.	40 MMSCFD LPG Extraction, Gresik Project	STHE	Feed Gas Exchanger, EA-112	Design & Supply	4,127	Completed April, 2008	A179 Tube & A266-2 Tubesheet + A516 Gr. 60 Shell & Channel	TEMA, ASME VIII Div. 1	TEMA R-BEU 740 ID x 5433 SL

**PT. WARU TEKNIKATAMA**  
**PROJECT EXPERIENCE LIST**



NO.	JOB NO.	CUSTOMER / END USER	PROJECT TITLE	PRODUCT DELIVERED		SCOPE OF WORK	WEIGHT KGS	YEAR BUILT	MATERIAL	CODE / STD	REMARK
				TYPE	EQUIPMENT NAME						
38	07WTO-021	CKC Incorporated Korea for Media Karya Sentosa, PT.	40 MMSCFD LPG Extraction, Gresik Project	STHE	Regen Gas Heater, EA-111	Design & Supply	952	Completed April, 2008	A179 Tube & A266-2 Tubesheet + A516 Gr. 60 Shell & Channel	TEMA, ASME VIII Div. 1	TEMA R-BEU 310 ID x 5180 SL
37	07WTO-021	CKC Incorporated Korea for Media Karya Sentosa, PT.	40 MMSCFD LPG Extraction, Gresik Project	STHE	LPG Column Reboiler, EA-107	Design & Supply	1,069	Completed April, 2008	A179 Tube & A266-2 Tubesheet + A516 Gr. 60 Shell & Channel	TEMA, ASME VIII Div. 1	TEMA R-BKU 336 - 685 ID x 2745 SL
36	07WTO-021	CKC Incorporated Korea for Media Karya Sentosa, PT.	40 MMSCFD LPG Extraction, Gresik Project	STHE	De-Ethanizer Reboiler, EA-105	Design & Supply	6,293	Completed April, 2008	A179 Tube & A266-2 Tubesheet + A516 Gr. 60 Shell & Channel	TEMA, ASME VIII Div. 1	TEMA R-BKU 660 - 1030 ID x 5500 SL
35	07WTO-021	CKC Incorporated Korea for Media Karya Sentosa, PT.	40 MMSCFD LPG Extraction, Gresik Project	STHE	De-Ethanizer Overhead Condenser, EA-104	Design & Supply	1,094	Completed April, 2008	A179 Tube & A350 LF2 Tubesheet + A516 Gr. 60 Shell & Channel	TEMA, ASME VIII Div. 1	TEMA R-BKU 336 - 580 ID x 3660 SL
34	07WTO-021	CKC Incorporated Korea for Media Karya Sentosa, PT.	40 MMSCFD LPG Extraction, Gresik Project	STHE	Gas Chiller, EA-103	Design & Supply	15,231	Completed April, 2008	A179 Tube & A350 LF2 Tubesheet + A516 Gr. 60 Shell & Channel	TEMA, ASME VIII Div. 1	TEMA R-BKU 940 - 1515 ID x 6100 SL
33	07WTO-021	CKC Incorporated Korea for Media Karya Sentosa, PT.	40 MMSCFD LPG Extraction, Gresik Project	STHE	Gas-Gas Exchanger #1, EA-102B	Design & Supply	4,627	Completed April, 2008	A179 Tube & A350 LF3 Tubesheet + A203 Gr. E Shell & Channel	TEMA, ASME VIII Div. 1	TEMA R-AEU 635 ID x 6100 SL
32	07WTO-021	CKC Incorporated Korea for Media Karya Sentosa, PT.	40 MMSCFD LPG Extraction, Gresik Project	STHE	Gas-Gas Exchanger #1, EA-102A	Design & Supply	4,145	Completed April, 2008	A179 Tube & A350 LF2 Tubesheet + A516 Gr. 60 Shell & Channel	TEMA, ASME VIII Div. 1	TEMA R-BEU 660 ID x 4185 SL
31	07WTO-021	CKC Incorporated Korea for Media Karya Sentosa, PT.	40 MMSCFD LPG Extraction, Gresik Project	ACHE	Regen Gas Cooler, EA-110 (1.937 MMBTU/hr)	Design & Supply	6,715	Completed April, 2008	A179 Tube + A516 Gr. 70 Header	API 661, ASME VIII Div. 1	1381 W x 2896 L Forced Draft
30	07WTO-021	CKC Incorporated Korea for Media Karya Sentosa, PT.	40 MMSCFD LPG Extraction, Gresik Project	ACHE	Condensate RD Cooler, EA-109 (0.4739 MMBTU/hr)	Design & Supply	5,829	Completed April, 2008	A179 Tube + A516 Gr. 70 Header	API 661, ASME VIII Div. 1	1036 W x 2896 L Forced Draft
29	07WTO-021	CKC Incorporated Korea for Media Karya Sentosa, PT.	40 MMSCFD LPG Extraction, Gresik Project	ACHE	LPG RD Cooler, EA-108 (0.3525 MMBTU/hr)	Design & Supply	7,300	Completed April, 2008	A179 Tube + A516 Gr. 70 Header	API 661, ASME VIII Div. 1	2096 W x 2896 L Forced Draft
28	07WTO-021	CKC Incorporated Korea for Media Karya Sentosa, PT.	40 MMSCFD LPG Extraction, Gresik Project	ACHE	LPG Column Overhead Condenser, EA-106 (3.074 MMBTU/hr)	Design & Supply	12,621	Completed April, 2008	A179 Tube + A516 Gr. 70 Header	API 661, ASME VIII Div. 1	2096 W x 5913 L Forced Draft
27	07WTO-020	Petro Oxo Nusantara, PT	Revamping Project	ACHE	T140 Condenser, E-145EF	Design & Supply	19,242	2007	A249 TP304 Tube + A240 Gr. 304 Header	API 661, ASME VIII Div. 1	3798 W x 9400 L Induced Draft
26	07WTO-019	Petro Oxo Nusantara, PT	Revamping Project	STHE	Trim Cooler, E-419	Design & Supply	3,977	2007	A179 Tube + A285Gr.C Shell & Channel	TEMA, ASME VIII Div. 1	TEMA R-BEM 650 ID x 3200 L
25	07WTO-019	Petro Oxo Nusantara, PT	Revamping Project	STHE	BFW Preheater, E-017B	Design & Supply	2,527	2007	SS 304 Tube & Tubesheet + CS Shell & Channel	TEMA, ASME VIII Div. 1	TEMA R-BEM 438 ID x 4850 L
24	07WTO-018	Petro Oxo Nusantara, PT	Revamping Project	ACHE	D922 Vent Condenser, E-922	Design & Supply	3,666	2007	A179 Tube + A516 Gr. 60 Header	API 661, ASME VIII Div. 1	2500 W x 9400 L Induced Draft
23	07WTO-017	Petro Oxo Nusantara, PT	Revamping Project	ACHE	T160 Condenser, E-165IJ	Design & Supply	18,814	2007	A249 TP304 Tube + A240 Gr. 304 Header	API 661, ASME VIII Div. 1	3820 W x 9400 L Induced Draft
22	07WTO-016	Petro Oxo Nusantara, PT	Revamping Project	ACHE	Air Cooler, E-018CD	Design & Supply	14,169	2007	A249 TP304 Tube + A240 Gr. 304 Header	API 661, ASME VIII Div. 1	2230 W x 6400 L Forced Draft

**PT. WARU TEKNIKATAMA**  
**PROJECT EXPERIENCE LIST**



NO.	JOB NO.	CUSTOMER / END USER	PROJECT TITLE	PRODUCT DELIVERED		SCOPE OF WORK	WEIGHT KGS	YEAR BUILT	MATERIAL	CODE / STD	REMARK
				TYPE	EQUIPMENT NAME						
21	07WTO-015	PAL Indonesia, PT	Chemical Tanker 24000 DWT, M.000241/242	STHE	Tank Cleaning Sea/ Fresh Water Heater for Hull 241/242	Supply	-	2007	CuNi 9010 Tube, Nvl Brass Tubesheet, CS for Shell & Channel	RINA Class	203.2 ID x 2000 T/T
20	06WTO-014	OGGP Engineering Sdn Bhd for ScomiNATCO/ CPOC	Acid Gas Removal System for JDA Block B-17 Field Dev.	PV	Regen Gas Separator, V-1360	Design	33,894	2007	SA516 Gr.70N + Clad Alloy 825 - 63 + 3t	ASME VIII Div. 2	2743 x 2134 ID x 6706 T/T
19	06WTO-014	OGGP Engineering Sdn Bhd for ScomiNATCO/ CPOC	Acid Gas Removal System for JDA Block B-17 Field Dev.	PV	Coalescing Filters, F-1310/ 1320/ 1330	Design	9,784	2007	SA516 Gr.70N + Clad 316L - 33 + 3t, NACE	ASME VIII Div. 1	1372 ID x 3455 T/T
18	06WTO-013	OGGP Engineering Sdn Bhd for Petronas Penapisan (Terengganu) Sdn. Bhd.	KR-1 CDU Debottlenecking 2007 Project	STHE	Light Naphtha Cooler, E-121	Design	-	2007	SA516 Gr. 60	TEMA, ASME VIII Div. 1	TEMA R-BEU Hor 650 ID x 6100L
17	06WTO-013	OGGP Engineering Sdn Bhd for Petronas Penapisan (Terengganu) Sdn. Bhd.	KR-1 CDU Debottlenecking 2007 Project	STHE	Heavy Naphtha Stripper Reboiler, E-104	Design	-	2007	SA516 Gr. 60	TEMA, ASME VIII Div. 1	TEMA R-BJU Hor 550 ID x 3048L
16	06WTO-012	Profab Indonesia, PT. for Expro Indonesia, PT	Rubycon FPSO Project	STHE	Crude Interstage Heater, E-101A/B	Design	1,693	2007	SA106 Gr. B - 400DN SCH STD	TEMA, ASME VIII Div. 1	TEMA R-BEU Vertical 387 ID x 5500L
15	06WTO-011	OGGP Engineering Sdn Bhd for ScomiNATCO/ CPOC	Acid Gas Removal System for JDA Block B-17 Field Dev.	PV	Condensate Separator, V-1380	Design	6,937	2007	SA516 Gr.70N - 31.8t Impact tested	ASME VIII Div. 1	1219 ID x 4674 T/T
14	06WTO-011	OGGP Engineering Sdn Bhd for ScomiNATCO/ CPOC	Acid Gas Removal System for JDA Block B-17 Field Dev.	PV	Coalescer Accumulator, V-1310	Design	519	2007	316L - 10.31t NACE MR0175	ASME VIII Div. 1	12" NPS x 1701 S/S
13	06WTO-011	OGGP Engineering Sdn Bhd for ScomiNATCO/ CPOC	Acid Gas Removal System for JDA Block B-17 Field Dev.	PV	Feed Gas Separator, V-1370	Design	36,924	2007	SA516 Gr.70N - 57t Impact tested	ASME VIII Div. 2	2743 ID x 6198 T/T
12	06WTO-011	OGGP Engineering Sdn Bhd for ScomiNATCO/ CPOC	Acid Gas Removal System for JDA Block B-17 Field Dev.	PV	Dry Gas After Filters, F-1340/ 1350/ 1360	Design	7,345	2007	SA516 Gr.70N - 32t	ASME VIII Div. 1	1219 ID x 3454 T/T
11	06WTO-010	Expro Indonesia, PT.	EMP Kangean	TANK	Rectangular Portable Drain Tank	Design & Supply	-	2006	A36 - 6t	N/A	Overall dim: 1829Lx1350Wx1677H
10	06WTO-009	Krakatau Engineering, PT. for Agip Lubrindo Pratama, PT.	Natural Gas Booster Station, Gempol	Other	Pipe Insulation	Supply & Install	-	2006	Plain Carbon Steel	N/A	
9	06WTO-008	OGGP Engineering Sdn Bhd for Shell (MDS) Sdn. Bhd.	SMDS Bintulu Malaysia	STHE	Kero Stripper Reboiler, E-4029	Design & Supply	985	2007	A179 Tube bundle	BS 5500 - 2000	TEMA R-BEU Hor 387.36 ID x 5000L
8	06WTO-007	OGGP Engineering Sdn Bhd for Petronas Penapisan (Terengganu) Sdn. Bhd.	Petronas Refinery	ACHE	Air Cooler, E21105-2/ E21105-3	Design	8,290	2007	A516 Gr. 60 Z35 - 25t Impact tested	API 661, ASME VIII Div. 1	Bundle overall dim: 11420 x 2740 x 953 mm
7	06WTO-006	Multi Tarex Mulia, PT. for Sempac Indonesia, PT. / KODECO	KODECO Poleng C Development, Poleng Process Platform	Other	Electrical Building	Design	37,000	2007	A36	AISC	
6	06WTO-006	Multi Tarex Mulia, PT. for Sempac Indonesia, PT. / KODECO	KODECO Poleng C Development, Poleng Process Platform	Other	Control Building	Design	38,500	2007	A36	AISC	
5	06WTO-005	Eterindo Nusa Graha, PT.	DT Project - Gresik	PV	Packing Column PT-3201 (Type Shell & Jacket)	Design & Supply	1,455	2006	SUS304 - 6t (Shell) SS400 - 5t (Jacket)	ASME VIII Div. 1	
4	06WTO-004	Dinamika Energi Nusantara Indonesia, PT. for Indonesia Power, PT.		Other	Finned tube	Supply	-	2006	SA179 Tubes + Aluminum Fin	N/A	
3	06WTO-003	OGGP Engineering Sdn Bhd for Petronas Penapisan (Melaka) Sdn. Bhd.	PN 14.0004 - Upgrading of E1403 Tube Bundle	STHE	Deethanizer Feed Exchanger, E-1403	Design & Supply	466	2006	Duplex 22Cr tube bundle	TEMA, ASME VIII Div. 1	TEMA R-AEU Hor 303.2 ID x 4877 L
2	06WTO-002	Bali Energy Ltd.	Bedugul	Other	Pipe Casing 40"	Supply	-	2006	Pipe API 5L Gr. B	N/A	
1	06WTO-001	Krakatau Engineering, PT. for Agip Lubrindo Pratama, PT.	Natural Gas Booster Station, Gempol	STHE	Gas Cooler, HE-01	Design & Supply	340	2006	Plain Carbon Steel	TEMA, ASME VIII Div. 1	TEMA R-BEM Hor 203 ID x 2438 L

Note 1 : All engineering matters are completely finish.

Note 2 :

ACHE = Air Cooled Heat Exchanger

PV = Pressure Vessel

PHE = Plate & frame heat Exchanger

Other = Other product and Services

STHE = Shell & Tube Heat Exchanger