

Reference list

Chemical and Oil&Gas Equipment made by “ZAVKOM” JSC.

Year	Project	Customer	Equipment	Quantity, pcs
In production	Oil refinery plant reconstruction for Gazpromneft	Gazpromneft Moscow Refinery JSC	Vessels 100m ³	2
			Vessels 200m ³	2
			Columns K-1/1,2 (bimetal 09Г2С+316L)	2
2015	Hydrogen facility for “TAIF-NK” PSC	Linde Engineering Rus LLC	Condensation separator 1 6A/B-E202	2
			Condensation separator 2 6A/B-E202	2
			Vapor vessel 6A/B-E204	2
			Vapor condensation separator 6A/B-E205	2
			Vapor vessel 6A/B-E207	2
			Deaerator 6A/B-E201	2
			Deaerator 6A/B-E206	2
			Air vessel 6S-E402	1
2015	Refinery plant reconstruction for Gazpromneft	Gazpromneft Omsky refinery	Propane and butane vessels V=200m ³	10
2015	Refinery plant reconstruction for Lucoil	Stavrolen LLC	Propane and butane vessels V=200m ³	24
2015	Oil deposit reconstruction for Gazpromneft	Gazpromneft Vostok	Underground Vessels	2
2015	Refinery plant reconstruction for Kinef LLC	Kinef LLC	Column K-1 (P=0,7 MPa, M=10 700kg, OD=6120mm, L=31 828mm)	1
2015	Refinery plant reconstruction for Gazpromneft	Gazpromneft Moscow refinery		
2015	Air separation unit for “KuibyshevAzot” JSC	Linde Engineering Rus LLC	Air vessels: 9502D20, 9502D22, 9502D24, 9502D27, 9502D21, 9502D23, 9502D25, 9502D26, 9502D28, 9502D29, 9502D30, 9502D31, 9502D32, 9502D33, 9502D34. (stainless steel)	15 in total
2015	Refinery plant repairing for Gazpromneft	Gazpromneft Omsky refinery JSC	Tube bundles X-312, X-312A (carbon steel, OD=1200mm)	2
2015	Air separation unit for	Linde Engineering Rus LLC	Gas vessel V=327m ³	2

	“KuibyshevAzot” JSC		P=0,6MPa, M=74 000kg, s=18mm, carbon steel	
2015	Refinery plant reconstruction for Gazpromneft	Gazpromneft Omsky refinery JSC	Vapor vessel E-103 (hastelloy tubes) Condenser E-100 (steel 08X17H15M2T)	1 1
2014	Refinery plant reconstruction for Afipsky refinery LLC	Optima energostroy JSC	Shell and tube heat exchanger E-104/3 (P=1,15MPa, M=35500 kg, OD=1200 mm) Shell and tube heat exchanger E-104/4 (P=1,2MPa, M=35500 kg, OD=1200 mm) Shell and tube heat exchanger E-104/5 (P=1,25MPa, M=35500 kg, OD=1200 mm) Shell and tube heat exchanger E-106/1 (P=1,5MPa, M=35000 kg, OD=1100 mm) Shell and tube heat exchanger E- 107/1,2 (P=0,8MPa, M=11050 kg, OD=700 mm) Shell and tube heat exchanger E-203 (P=1,47MPa, M=3000 kg, OD=500 mm) Shell and tube heat exchanger E-206/1 (P=1,3MPa, M=29300 kg, OD=1000 mm) Shell and tube heat exchanger E-206/2 (P=1,2MPa, M=28800 kg, OD=1000 mm) Shell and tube heat exchanger E-301 (P=0,6MPa, M=1600 kg, OD=400 mm) Shell and tube heat exchanger E-305 (P=0,5MPa, M=3060 kg, OD=600 mm) Shell and tube heat exchanger E-423 (P=0,5MPa, M=12700 kg, OD=800 mm)	1 1 1 1 2 1 1 1 1 1 1

2014	Refinery plant reconstruction for Lucoil	Permnefteorgsintez JSC	Column 10-DA-502 (P=10,3 MPa)	1
2014	Refinery plant reconstruction for Gazpromneft	Gazpromneft Omsky refinery JSC	Atmospheric Column C-101 (M=200 000kg, carbon steel,	1
2014	Refinery plant reconstruction	Antipinsky Refinery JSC	Column 202C002 (steel 09Г2С+10Х17Н13М2Т, M=200 000kg, OD=5200 mm) Electrical dehydrator D001/A,B (steel 09Г2С+316Ti, M=50 000kg) Electrical dehydrator D002/A,B (carbon steel, M=49000kg) Vessels Separator 101Х201 (carbon steel, OD=8000mm, M=52000kg) Hot separator 204V-102 (P=8,4MPa) Cold separator 204V-103 (P=8,6MPa) Column 204C201 (steel 09Г2С+12Х18Н10Т, M=120 000kg, OD=3800mm) Vacuum column 301С001 (steel 09Г2С+08Х13, M=340 000kg, OD=9700mm) Column 302С001 (steel 09Г2С+08Х13, M=125 000kg, OD=3300mm) Column 302С003 (steel 516Gr70, M=100 000kg, OD=4500)	1 2 2 9 2 2 1 1 1 1 1
2014	Oil deposit reconstruction for Gazpromneft	Gazpromneft Vostok JSC	Separator V=100m ³	1
2013	Refinery plant reconstruction for Gazpromneft	Gazpromneft Omsky refinery JSC	Shell and tube heat exchanger X-301 (OD=1000mm, stainless steel)	3
2013	Refinery plant reconstruction for Lukoil	LENNIKHIMMASH LLC	Column C-1 (stainless steel, M=29 000kg) Column C-2 (stainless steel, M=52 000kg) Column C-3	1 1 1

			(carbon steel, M=100 000kg)	
2013	Refinery plant reconstruction for Rosneft	Novokuibyshev refinery JSC	Column equipment	3
2013	Chemical plant reconstruction	Kuibyshev Azot JSC	Column K-387 (stainless steel, OD=5200 mm, M=170500 kg)	1
2013	Refinery plant reconstruction for Rosneft	Kuibyshev refinery JSC	Radiant coil (stainless steel, M=29 000kg)	2
2013	Sibur Neftekhim JSC Chemical plant reconstruction	UDE JSC	Column CO2 (bimetal 09Г2С + 12Х18Н10Т, OD=3300mm, M=174500 kg)	2
2012	Oil refinery plant reconstruction	Tatneft JSC	Gas separator	1
2012	Chemical and gas facility in Novy Urengoy	Gasimpeks LLC	Propane vessel V=200m ³ (carbon steel, OD=4200mm, M=95000kg)	4
			Vessels	14
2012	Hydrogen unit for Saratovsky Refinery and Ufimsky Refinery	Linde AG	PSA Adsorber E-102 a-e (P=4,05 MPa, V=10m ³ , s=32mm)	5
			PSA Adsorber M-001 (P=2,87 MPa, V=56m ³ , s=48mm)	12
			PSA Adsorber M-002 (P=3,3 MPa, V=40m ³ , s=46mm)	6
2012	Rosneft Oil refinery plant reconstruction.	Ryazan Refinery JSC	Columns KA-1, KA-2 (stainless steel, OD=6000mm, M=78100kg)	2
2012	Oil refinery plant reconstruction. Column equipment supplied with ladders, inner devices and installation)	NOVATEK – Ust-Luga	Column K-101, 201 (carbon steel, M=95 000kg)	2
			Column K-102, 202 (carbon steel, M=130 000kg)	2
			Column K-103/104, 203/204 (carbon steel, M=35 000kg)	2
			Column K-105, 205 (carbon steel, M=73 000kg)	2
2012	Oil refinery plant reconstruction	Antipinsky NPZ JSC	Column 202C002 (bimetal 09Г2С+10Х17Н13М2Т, M=200 000kg, OD=5200 mm, Height = 57 120 mm)	1
			Separator 101Х201 (carbon steel, OD=8000mm,	2

			M=52 000kg)	
2012	Oil refinery plant reconstruction	Sibur-Neftekhim JSC	Column K-210 (carbon steel, ID=7250mm, Height=36 000mm, M=135 000 kg)	1
2012	Ramp up of production capacities of BK plant	Nizhnekamskneftekhim JSC	Degasser V=63m³ OD=3600mm (Stainless steel, M=22 tons) Polimerization reactor V=20m³ (Stainless steel, internal surface polished, mixing devices made of titanium alloy included)	2 1
2012	Ramp up of production capacities of polyoleolefins plant	Nizhnekamskneftekhim JSC	Reactor R1714 A,B	2
2012	Ramp up of production capacities of SK plant	Nizhnekamskneftekhim JSC	Reactor P-407/4	2
2011	The construction of expanded polystyrene production at Sibur- Khimprom JSC	Chemieanlagenbau Chemnitz GmbH (Germany)	Surge vessel V=200m³ Surge vessel V=75m³	2 1
2011	Polypropylene production facility	Linde AG	Flare separator Condensate separator Buffer vessel	1 1 1
2011	Polypropylene plant construction	Omsk plant of polypropylene	Column K-1 (carbon steel, M=38 000kg) Column K-2/1, K-2/2 (carbon steel, M=293 700kg)	1 2
2010	Polypropylene production reconstruction	Tobolsk-Polymer Ltd.	Vessel V=100m³ (stainless steel, with pipelines) Vessel V=100m³ (carbon steel with pipelines)	3 1
2010	Butyl rubber production reconstruction	Nizhnekamskneftekhim JSC	Polimerization reactor (stainless steel, internal surface polished)	1
2010	Plant reconstruction	Sibur-Khimprom JSC	Pipelines (OD=620 – 830mm, M=270 000kg)	1
2010	Carbamide production reconstruction	Akron JSC	Heat exchangers Vessels	11 8
2010	Gas and chemical complex in Novy Urengoy	Trading House Construction-21 LLC	Degassing tank V=300m³	18
2010	Chemical plant reconstruction	Sibur-Khimprom JSC	Demineralized water tank V=150m³ Styrene tank V=100m³	1 1
2010	Polycrystalline silicon production reconstruction. Site of Usolie Sibirskoe Silicon Ltd.	NPO Sinef Engineering JSC	Column C-603 Heat exchanger with double tube sheet (OD=1000mm, M=7 000kg)	1 3

			Scrubber C-1801	3
2009	Polycrystalline silicon production reconstruction. Site of Usolie Sibirskoe Silicon Ltd.	LENNIKHIMMASH LLC	Column C-301 Column C-401	1 1
2009	Carbamide production reconstruction	TIKO LLC	Distillation column 1 stage (steel 02X25H22AM2)	1
2009	Styrene production reconstruction	Chimmasheexport JSC for Sibur-Khimprom JSC	Reactor P-1 Reactor P-2 Reactor P-3 Reactor K-31 Reactor K-50/1 Reactor K-50/2 Column K-42 Column K-52 Column K-62 Column K-72	1 1 1 1 1 1 1 1 1 1
2009	Chemical plant reconstruction	Sibur-Khimprom JSC	Foam vessel A-209 (M=72 tons, ID=6000mm, carbon steel)	1
2009	Sulfuric acid production facility	PG Phosphorite Ltd	Sulfuric furnace housing completed with gas pipe. (M=75 tons, ID=5500mm)	1
2009	Chemical plant reconstruction	Belozerny GPK LLC	Gas separator M-106 (OD=2200 mm, s=50mm, M=44 tons, stainless steel)	1
2008	Chemical plant reconstruction	Sibur-Khimprom JSC	Heat exchanger T-211/1,2 (OD=1600 mm, stainless steel, M=14 tons)	2
2008	Ethylene oxide and glycols plant reconstruction	Sibur Neftekhim LLC	Heat exchanger E-536 (M=49 tons, stainless steel) Evaporator with heating chamber (M=29 tons, stainless steel)	1 1
2008	PETF production facility	Sibur PETF LLC	Bin V=1200m³ for terephthalic acid storage	1
2008	Expansion of the sulfuric acid production	PG Phosphorite Ltd. Project by SNC-Lavalin Engineers & Constructor	Switch device for oxidation of sulfur dioxide to sulfur trioxide (M=340 tons, AISI 304 stainless steel)	1
2008	Gas treatment plant for hydrogen sulfide	Giprogazoochistka LLC for Naryanmarneftegaz Ltd.	Evaporators with vapor space with U-shaped pipes (ID=2000mm, F=586m²)	2
2008	Polystyrene production facility	Management Company Penopleks Holding Ltd. Project by Toyo	Columns, heat-exchangers, tanks, vessels, reactors.	51 in total

		Engineering Corp. (Japan)		
2008	PSA station	Lukoil JSC, project by Linde AG	PSA Adsorber	4
2008	PSA station	Ryzcvetmet JSC, project by Linde AG	PSA Adsorber Buffer vessel	2 1
2008	Butyl rubber production facility	Nizhnekamskneftekhim JSC	Polimerization reactor (stainless steel, internal surface polished)	1
2007	Deep oil refining facility. Supply of large-sized reactor and column equipment with internal mass-transfer devices	Oil company YAKOL JSC	Desulfurization reactor P-1 Desulfurization reactor P-2 Dehumidifier VSG P-3 Deethanizer Column 20K-1/1 Deethanizer Column 20K-1/2 Distillation column K-101 Column stabilizer 20K-1 Column stabilizer 20K-2 Gas fractionation Column Column CK-201	1 1 2 1 1 1 1 1 1 1
2007	Liquefied CO₂ production plant	JSC “KuibyshevAzot”	Air collector V=50m³ Liquefied CO₂ Vessel V=100m²	2 4
2006	“Polycarbonate” plant and “Bisphenol-A” plant	Kazanorgsintez JSC	Columns, heat exchangers, tanks, vessels, reactors	105 in total
2006	Air separation unit	Linde Gas Rus JSC	Air scrubber (V=50,5m³) Nitrogen scrubber (V=37m³) Heat accumulator (V=22m³) Buffer vessel (V=150m³)	1 1 1 2

Marketing director.

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