

Engineering, Procurement & Construction Contract

Public Company ORLEN Lietuva LPG flare system renovation

FOR BID

Technical Annex No. 4 VENDORS LIST

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Public Company ORLEN Lietuva

VENDORS LIST

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General Note:

1. Vendors list – means list of equipment manufacturers, producers approved by Public Company ORLEN Lietuva (hereinafter OWNER) to be used for newly designed and repaired equipment.
2. In case of international companies the country reference in the VENDORS List is included for informative purposes only. The actual country of origin of the goods may be different from the one shown in the list.
3. Any Vendor of equipment, materials, not listed herein, shall be submitted to the OWNER for review and approval.
4. All equipment, materials for use shall be selected according to the approved requirements of the OWNER.

I. LIST OF VENDORS

A. STATIC EQUIPMENT

MANUFACTURER	COUNTRY
1. Pressure vessels and Drums	
ZBA S.A.	Poland
Famet	Poland
Granziero S.R.L.	Italy
Engicon nv (Geldof)	Belgium
Mangiarotti S.p.A	Italy
ZVU	Czech
Borsig	Germany
Felguera CP	Spain
Kralovopolska, A.S.	Czech
OT INDUSTRIES-DKG Machine Manufacturing Co. Ltd.	Hungary
MASHZAVOD LTD	Ukraine
BENVIG HEAT TRANSFER	Czech
IZOTECHNIK Sp. z o.o.	Poland
CARPENTERIA CORSI srl	Italy
UAB Cosmica	Lietuva
POLIMER KRAKÓW	Poland
Union Sp. z o.o.	Poland
2. Column Internals	
Sulzer/Chemtec	International
Koch/ Glitch / St.Gobain Norpro	International
3. Reactors	
ATB Riva Calzoni	Italy
Belleli Energy	Italy
Mangiarotti	Italy
Japan Steel Works	Japan
ZBA S.A.	Poland
Brembana	Italy
Felguera CP	Spain
Engicon nv (Geldof)	Belgium
VACO	Germany
4. Filters, Coalescers & Droplet Separators	
BEA Filtri	Italy
Pall	Germany
Facett	Netherlands
Koch-Glitsch	International
5. Backwash Filters	
BEA Filtri	Italy
Pall	Germany

	FACET	Netherlands
6.	Ejectors	
	GEA Wiegand	EU
	Fluidel	EU
	Edwards Vacuum	USA
	Balcke Durr	Germany
	Kraus Maffei	Germany
	Prematécnica (Wellman-Graham)	Spain
	Inmateinsa	Spain
	Eipsa	Spain
	Equirepsa	Spain
	Korting Hannover AG	Germany
	Hijet Engineering Ltd	Russia/International
7.	Air Coolers	
	Nuovo Pignone	Italy
	Boldrocchi	Italy
	Famet	Poland
	ZBA S.A.	Poland
	Nicola & Albia	Italy
	KPS Metal	Czech
	OSAUHING TMT	Estonia
	ZVU	Czech
	ANOD	Russia
	Borchimmash	Russia
8.	Heat Exchangers	
	ZBA S.A.	Poland
	Brembana	Italy
	Nicola & Albia	Italy
	Olmi	Italy
	Azomet	Poland
	OT INDUSTRIES-DKG Machine Manufacturing Co. Ltd.	Hungary
	Borsig	Germany
	ZVU Engineering	Czech
	Kralovopolska, A.S.	Czech
	EXCON Steel	Czech
	MASHZAVOD LTD	Ukraine
	BENVIG HEAT TRANSFER	Czech
	IZOTECHNIK Sp. z o.o.	Russia
	CARPENTERIA CORSI srl	Italy
	UAB Cosmica	Lietuva
	POLIMER KRAKÓW	Poland
	Kelvion Central Europe Sp. z o.o.	Poland/International
	Funke	
9.	Plate Exchangers	
	Alfa Laval	EU/International
	Kelvion Central Europe Sp. z o.o.	Poland/International
	GEA	International
	Funke	Germany/International

10. Burners

John Zink
Hamworthy Combustion
Samia
Zeeco
I.C.E Srl

Luxembourg
England
Italy
USA
Italy

B. ROTATING MACHINERY

MANUFACTURER	COUNTRY
1. Centrifugal Compressors	
AG (former DEMAG)	Italy / France
Dresser Rand	UNITED KINGDOM
Elliott	UNITED KINGDOM
MAN Turbo	Germany
Nuovo Pignone	Italy
Sulzer	Germany
2. Reciprocating Compressors	
Neumann & Esser	Germany
Dresser	Germany
Thomassen	Netherlands
Nuovo Pignone	Italy
3. Centrifugal Process Pumps	
Flowserve Worthington	Italy/ Austria / Netherland
KSB	Germany/Spain
SULZER	International
Syndyne/Sundstrand	USA/France
Wafapomp	Poland
4. High Speed Pumps	
Sundstrand/Sundyne	USA/France
5. Reciprocating Pumps	
Ingersoll Rand	United Kingdom
Milton Roy	EU
6. Metering Pumps (displacement type)	
Braun + Luebbe	Germany
Dosapro Milton Roy	France
ProMinent	Germany
Hermetic Pumpen	Germany
7. Couplings, Mechanical Shaft Seal	
Flexibox now John Crane	International
Thomas (for Sundstrand)	USA/France
Burgmann	Germany
Flowserve	Netherlands
8. Seal / Dry Gas Compressors	
Burgmann	Germany
Flowserve	Netherlands
John Crane	United Kingdom

9. Fans

Stranic	Italy
Sulzer Chemtech	Germany

10. Steam Turbines

Siemens	Germany
Dresser Rand	International
Nuovo Pignone	Italy

11. Air-coolers fans (radial)

Cofimco	Italy
Nuovo Pignone	Italy

12. Blowers (radial)

Aeromeccanica Stranich	Italy
Boldrocchi	Italy
Sulzer Chemtech	Germany

C. PIPING MATERIALS

	MANUFACTURER	COUNTRY
1. Safety Valves	Tyco	France
	Niezugodka GmbH	Germany
	Leser	Germany
	Armak	Poland
	FARRIS	Canada
	Pentair Valves & Controls Sales	Netherlands Netherlands
2. Butterfly Valves	Keystone	USA
	Neles-Jamesburg	USA
	Velan	International
	Ebro	Germany
3. Forged Steel Valves (Gate/Globe/Check)	TCH	Italy
	ARAKO	Czech
	Tyco	Germany
	Goodwin International	UNITED KINGDOM
	MSA	Czech
	OMB	Italy
	Bonney Forge	Italy
	WAKMET	Poland
	Velan	International
	Calobri	Italy
	LVF	Italy
	B.F.E. (Bonney Forge Europe)	Italy
	Armatury Group	Czech
	4. Ball Valves	Klinger
Burgmann		Germany
MOGAS		USA
GEFA Processtechnik		Germany
ABD-valves		Germany/Czech
KITZ CORPORATION		Japan
5. Special Valves	Tapko MPRD	USA
	MOGAS	USA
6. Supports	PHS Industries	International
	LISEGA	International
7. Boltings	Country of origin - EU, USA, JAPAN, CANADA.	

8. Gaskets

Klinger	UNITED KINGDOM
Chesterton	International
IDT	Germany
SGL Group	International (for graphite)

9. Pipes, tubes, flanges and fittings

Country of origin - EU, USA, CIS, UA, JAPAN, CANADA.

D. ELECTRICAL

	PRODUCER/MANUFACTURER	COUNTRY
1. 6 kV Motors	ABB Siemens / Loher ATB Schorch WEG	Germany Germany Germany Portugal/Brasil
2. LV Motors	ABB Siemens / Loher ATB Schorch	Germany Germany Germany
3. MOV and other type actuators	Rotork AUMA Limatorque	UK International (for inside non Intelligent applications without vibration and corrosion environment only) USA
4. 6 kV switchgear	Siemens Schneider Electric	Germany France
5. LV switchgear & MCC & panels	Schneider Electric ABB Siemens ELEKTROBUDOWA	France International Germany Poland
6. Power Transformers	Schneider Electric/Alstom ABB Siemens	International International Germany
7. MV microprocessor based relay protection	Siemens ABB	Germany International
8. MV Circuit Breaker	Schneider Electric Siemens ABB (only for retrofit)	France Germany International
9. LV Circuit Breaker, contactors, thermal relays and other power circuit elements.	Schneider Electric Siemens ABB	France Germany International
10. Miscellaneous LV power distribution, control panels equipment	Schneider Electric	France

	Siemens	Germany
	ABB	International
11. Frequency converters/drivers and soft starters		
	Schneider Electric	France
	ABB	International
	Vacon	Finland
	Siemens	Germany
12. Electrical Heating System (with cables)		
	eVent/Raychem (priority)	International
	Bartec	Germany
13. MV Power Cables & LV Power Cables & Control cables		
	AS DRAKA KEILA CABLES	International
	Eupen Cable	International
	Lappakabel	International
	LEONI Kerpen GmbH	International
	TELE-FONIKA Kable Sp. z o.o.	International
	Helucable	International
	Bitner	Poland
	NKT cables S.A.	Poland
	Nexans	France
	Prysmian	Italy
	Sudkabel	Germany
	TKD Kable	Germany
	Technokabel	Poland
14. Miscellaneous Explosion Protected Equipment for hazardous areas ATEX (plugs, box, push-buttons, lighting, panels)		
	CEAG/EATON	International
	Stahl	Germany
	MALUX	Finland
	Bartec	Germany
15. Cable leader and tray		
	Wibe	Sweden
	Stago	Germany
	Obo Betterman	Germany
	MP Bolagen	Sweedden
	Meka	International
16. MV, LV Cable joints, termination		
	Raychem	International
	KABELDON	International
	3M	USA
17. BATTERY for UPS and DC System		
	Panasonic	International
	Sonnenschein GmbH	International
	Fiamm	International
18. Grounding and Lightning systems elements, surge arresters		
	Galmar	International
	OBO BETTERMANN	Germany

	Raychem (MV) DEHN	International International
19. Capacitor control units		
	Schneider Electric Nokian Capacitors Ltd. / ALSTOM	France International
20. UPS		
	APS ENERGIA GUTOR	Poland Switzerland
21. DC System		
	AEES APS ENERGIA ELTEK VALERE	France Poland Germany
22. HVAC, air conditioners		
	Panasonic Mitsubishi Fuji	International International Japan
23. Auxiliary relays, time, voltage control, etc.		
	Phoenix Contact GM International Finder Schneider Electric Siemens ABB	USA Italy Germany France Germany International
24. Burners, pilot burners power/control panels, etc.		
	John Zink Hamworthy Combustion Samia Zeeco I.C.E Srl	Luxembourg England Italy USA Italy

Note. The burner's manufacturer should design and produce the power and control panels, the components should be selected from this Vendor list

E. INSTRUMENTATION

	MANUFACTURER	COUNTRY
1. Chromatographs	Siemens Yokogawa (priority) ABB Emerson	Germany Japan Switzerland USA
2. Zirconium oxide oxygen analyzers	Ametek Fuji ABB Emerson	USA Japan Switzerland USA
3. Paramagnetic oxygen analyzers	GE Panametrics Siemens SICK ABB Emerson	USA Germany Germany Switzerland USA
4. Moisture analyzers	Panametrics Ametek	Ireland USA
5. Hydrogen thermal conductivity analyzers	ABB Siemens SICK Emerson	Switzerland Germany Germany USA
6. SO₂/H₂S air demand analyzers	Ametek	USA
7. Hydrocarbons and toxic gas monitoring system	Det-tronics Drager Honeywell	USA Germany USA
8. Fire detect system (for process area)	Det-tronics	USA
9. Emission monitoring (CEMS)	Durag (Software Applications) Siemens (Gas emissions)	USA Germany
10. pH meters and conductometers	Knick Mettler Toledo ABB	Germany Germany Switzerland

- | | | |
|---|-------------------------------------|----------------|
| 11. Water analyzers | | |
| | Knick | Germany |
| | Mettler Toledo | Germany |
| | ABB | Switzerland |
| | HACH | USA |
| 12. Sulphur analyzers | | |
| | Thermo Fisher Scientific | USA |
| 13. Densitometers | | |
| | Emerson | USA |
| | Sarasota (Thermo Fisher Scientific) | UK |
| | Yokogawa | Japan |
| 14. Viscosimeters | | |
| | Solartron (Ametek) | USA |
| | Hydramotion | UK |
| 15. Distillation analyzers | | |
| | Bartec-Benke | Germany |
| 16. Analyzer FTNIR | | |
| | Yokogawa | Japan |
| | ABB | Switzerland |
| 17. Control valves | | |
| | Pekos/Emerson | Spain/USA |
| | Metso Automation | Finland |
| | Dresser/Masoneilan | France/Italy |
| | Flowserve | USA |
| 18. Shutoff valves | | |
| | Emerson/Pekos | USA |
| | Metso Automation | Finland |
| | Dresser/Masoneilan | France/Italy |
| | Flowserve | USA |
| 19. Smart valve positioners | | |
| | Dresser/Masoneilan (priority) | France/Italy |
| | Emerson (priority) | USA |
| | Metso Automation | Finland |
| | Flowserve | USA |
| | ABB | International |
| 20. Electromagnetic (solenoids) valves | | |
| | ASCO | UNITED KINGDOM |
| | Norgren-Herion | Germany |
| 21. Manifolds and fittings | | |
| | Parker | UNITED KINGDOM |
| | Swagelok | UNITED KINGDOM |
| | HACO Group | Germany |

- 22. Relays**
- | | |
|------------------|---------|
| Phoenix Contact | USA |
| GM International | Italy |
| Finder | Germany |
- 23. Vibration Monitoring and Protection System**
- | | |
|---------------|---------|
| Bently Nevada | USA |
| SKF | Sweden |
| Prognost | Germany |
- 24. Weighting Measurement**
- | | |
|----------------|-----|
| Mettler-Toledo | USA |
|----------------|-----|
- 25. Light and Audio alarm EQUIPMENT for hazardous areas ATEX (siren, horns)**
- | | |
|---------|---------|
| Stahl | Germany |
| Draeger | Germany |
| Bartec | Germany |
| Malux | Finland |
| CEAG | Germany |
- 26. Dosing Systems**
- | | |
|------------------------------|---------|
| Hyrolec | USA |
| Emerson (type: PetroCount) | USA |
| SMITH METER (type: Accuload) | Germany |
- 27. Antisurge Systems**
- | | |
|-----|-----|
| CCC | USA |
|-----|-----|
- 28. Smoke detection in control cabinets**
- | | |
|------------------|-----|
| Protectowire Co. | USA |
|------------------|-----|
- 29. Distributed Control Systems DCS (should be approved by OWNER)**
- | | |
|--------------------|--------|
| Emerson (DeltaV) | EU/USA |
| Invensys (Foxboro) | EU/USA |
- 30. ESD-Programmable Logic Controllers PLC**
- | | |
|--|---------|
| Triconex | EU/USA |
| Modicon (Schneider Electric) | France |
| Siemens | Germany |
| Emerson/SIS (implementation together with Emerson DCS and approved by OWNER) | EU/USA |
| HIMA | Germany |
- 31. Control systems-Programmable Logic Controllers PLC**
- | | |
|--------------------|---------|
| Siemens | Germany |
| Schneider Electric | France |
- 32. SCADA (for process control)**
- | | |
|--|---------|
| WinCC (Siemens) | Germany |
| Intouch for Wonderware System Platform | USA |
| Intellution (iFix) GE Fanuc | EU/USA |
- 33. Computers systems (hardware) – PC**

	Dell	USA
	HP	USA
34.	Intrinsic safety barriers (isolators, trip amplifiers and multiplexers)	
	Pepperl-Fuchs	Germany
	GM International (priority)	Italy
35.	Equipment for hazardous areas ATEX (junction boxes, cable glands, switches, etc.)	
	Bartec	Germany
	STAHL	Germany
	Malux	Finland
	CEAG	International
36.	Electronics pressure and differential pressure transmitters	
	Emerson	USA
	Yokogawa	Japan
37.	Pressure switch	
	Vega	Germany
	Magnetrol	USA
	United electric controls	USA
38.	Displacement type level electronic transmitters	
	Emerson	USA
	Dresser/Masoneilan	France/Italy
39.	Mass flow meters	
	Emerson	USA
	Endress+Hauser	Germany
	Krohne	Germany
	Yokogawa	Japan
40.	Vortex type flow meters	
	Emerson	USA
	Yokogawa	Japan
	Krohne	Germany
41.	Electromagnetic flow meters	
	Yokogawa	Japan
	Emerson	USA
	Krohne	Germany
42.	Ultrasonic flow meters	
	GE Sensing (Panametrics)	USA
	Krohne (priority)	Germany
43.	Turbine type flow meters	
	Smith Meter GmbH	Germany
44.	Rotameters	
	Emerson	USA
	Yokogawa	Japan
	Krohne	Germany
45.	Annubar (sensors)	

	Emerson E+H	USA Germany
46. Measurement systems for storage vessels		
	Enraf Emerson/SAAB	Netherlands Sweden
47. Capacity type level transmitters		
	Vega Magnetrol	Germany USA
48. Radar level transmitters		
	Emerson Vega Krohne Magnetrol	USA Germany Germany USA
49. Magnetic level indicator		
	KRS Kubler Magnetrol Krohne	Swiss USA Germany
50. Displacement type level switches		
	KRS Kubler Magnetrol	Swiss USA
51. Capacity type level switches		
	Vega Magnetrol	Germany USA
52. Vibration level switch		
	Vega Endress+Hauser Magnetrol Emerson	Germany Germany USA USA
53. Pressure Gauges (Manometer)		
	WIKA Ashcroft	Germany USA
54. Temperature transmitter's field		
	Emerson Yokogawa ABB	USA Japan Germany
55. Temperature gauges		
	WIKA Rueger Manotherm	Germany Swiss Germany
56. Resistance temperature sensor RTD PT100, Thermocouples		

	WIKA	Germany
	Electrotherm	Germany
	Emerson	USA
	Termoaparatura	Poland
	Daily thermetics	USA
57. Flame detectors (UV, IR)		
	Fireye	USA
58. Signal cables, compensation cables		
	AS DRAKA KEILA CABLES	International
	Eupen Cable	International
	Lappakabel	International
	LEONI Kerpen GmbH	International
	TELE-FONIKA Kable Sp. z o.o.	International
	Helucable	International
	Bitner	Poland
	NKT cables S.A.	Poland
	Nexans	France
	Prysmian	Italy
	Sudkabel	Germany
	TKD Kable	Germany
	HelUnited Kingdomabel	Germany
	Technokabel	Poland
	BELDEN	USA
59. Heating cables (Heating systems)		
	eVent (Raychem)	Germany
	Bartec	Germany
60. Impulse line and fittings without heating (instrument tubing)		
	Swagelok	USA
	Parker	USA
	Sandvik (only tubes)	Germany
61. Impulse line (tubing) with heating		
	O'Brien	USA
	Parker	USA
62. Control System cabinets		
	Rittal	Germany
63. Protection boxes		
	O'Brien	USA
	Intertec	Germany
64. Cable trays		
	Wibe	Sweden
	Stago	Germany
	Obo Betterman	Germany
	MP Bolagen	Sweedden
	Meka	International
65. Low voltage Power Supply		

(SIL approved, for fire, smoke&gas detection system)

GM International (use only acc. SIL requirements)Germany
Phoenix contact Germany