

MANUFACTURERS FOR THE NIGERIAN OIL AND GAS PARK SCHEME

	Category	Sub Category	Sub Sub Category	Products/services
S/N	Rotating Equipment			
1	Rotating Equipment	Aftermarket		Covers the maintenance, repair overhaul, goods (spare parts) supply and repair for Rotating Equipment for Shell OUs globally. The Rotating Equipments covered by this EFA are all nameplates Centrifugal Compressors and Steam Turbines Globally
2	Rotating Equipment	Compressors	Instrument Air	Supply of Instrument Air Compressor Packages per the SPEP. Provide pricing for parts and services
3	Rotating Equipment	Aftermarket		Covers the maintenance, repair overhaul, goods (spare parts) supply and repair for Siemens Rotating Equipment for Shell OUs globally (e.g. Gas Turbines, Steam Turbines and Compressors).
4	Rotating Equipment	Aftermarket		Covers the maintenance and repair for Rotating Equipment for Shell OUs globally. The Rotating Equipments covered by this EFAs are GE nameplate Industrial Gas Turbines and All nameplates Centrifugal Compressors and Steam Turbines in Americas
5	Rotating Equipment	Compressors		Supply of Compressors and Services

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6	Rotating Equipment	Turbines		Gas turbines for mechanical and generator drive.
7	Rotating Equipment	Pumps	Seals	Supply of Pumps, Seals and Services . This agreement applies to the overhung, vertically suspended and between bearing API centrifugal pumps
8	Rotating Equipment	Pumps	Seals	Supply of Seals, Seal Support Systems, Couplings, Bearings, Filters and Related Goods and Services.
9	Rotating Equipment	Pumps		Supply of Pumps and Services . The agreement covers between bearing API centrifugal pumps
10	Rotating Equipment	Compressors		Supply of Compressors and Services
11	Rotating Equipment	Valves	Manufacturer	Butterfly Valves
12	Rotating Equipment	Valves	Safety Relief Valves	<p>Safety Relief Valves EFA covers the supply of the following types of Shell MESC SPE 77/135 Jan 2012 Safety Relief valves:</p> <ol style="list-style-type: none"> 1. Conventional General (Vapour, Liquid and Dual certified) 2. Conventional Steam (Vapour certified) 3. Conventional Thermal expansion (Liquid certified) 4. Balanced (Vapour, Liquid and Dual certified) 5. Pilot operated (Vapour, Liquid and Dual certified) <p>Sizes: API 526 standard effective orifice areas: 1" to 8" (Inlet diameter) and 2" to 10" (Outlet diameter)</p> <p>Materials (body, trim, seat: soft seated and metal-to-metal): Carbon Steel, Low Temperature Carbon Steel, Stainless Steels, Duplex and Super Duplex, Nickel Alloys and Chrome Molly grades</p> <p>Pressure Classes: 150CL to 2500CL (inlet pressure) and 150CL to 300CL (outlet pressure)</p>
13	Rotating Equipment	Valves	Manufacturer	Large Cast Gate, Globe and Check Valves + Ball Valves Floating & Trunnion mounted

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14	Rotating Equipment	Valves	Manufacturer	Small Forged Gate, Globe and Check Valves
15	Rotating Equipment	Valves	Manufacturer	Large Cast Gate, Globe and Check Valves + Ball Valves Floating Low Tech
16	Rotating Equipment	Fittings	Manufacturer	Forged and Butt Welded Fittings- all material grades, all sizes.
17	Rotating Equipment	Fittings	Manufacturer	Supply of Butt Weld Pipe Fittings
18	Rotating Equipment	Flanges	Manufacturer	SUPPLY OF FLANGES AND RELATED EQUIPMENT
19	Rotating Equipment	Fittings	Manufacturer	Forged and Butt Welded Fittings- all material grades, all sizes.
	Subsea & Static Equipment			
20	Subsea Equipment and Umbilicals	Subsea Equipment	ATOL and OLAF Equipme	Subsea Production Systems; Articulated Tandem Offshore Loader (ATOL) and Offshore Loading Arms Footless (OLAF) Equipment
21	Static Equipment	Pressure Vessels/Heat Exchangers	Manufacturer	Pressure Vessels: Horizontal vessels, Vertical vessels, Columns with tray rings, Reactors. Shell & Tube Heat Exchangers: Fixed Tube Sheets, Floating Heads, U-Tubes, Kettle Types
22	Static Equipment	Pressure Vessels/Heat Exchangers	Manufacturer	Pressure Vessels: Horizontal vessels, Vertical vessels, Columns with tray rings, Reactors. Shell & Tube Heat Exchangers: Fixed Tube Sheets, Floating Heads, U-Tubes, Kettle Types
23	Static Equipment	Fired Equipment	Boilers/HRSGs	The scope includes the design, engineering and fabrication and supply of Boilers and / or Heat Recovery Steam Generators. In addition, the oversight by the Supplier of erection, done by a contractor working for Shell at the project site, is included, based on daily rates.
	Production Chemical & Drilling Fluids			
24	Purchased Chemicals	Small Commodities	DGA	DiGlycoAmine (DGA)
25	Purchased Chemicals	Small Commodities	DIPA, MEA, DEA, MDEA	Di-Isopropanol-Amine (DIPA), Methyl-Diethanol-Amine (MDEA), Diethanolamine (DEA), Monoethanolamine (MEA)
26	Purchased Chemicals	Small Commodities	Distributed Chemicals incl. Caustic Soda Americas	Distributed Chem (list by site) other products / can be added
27	Purchased Chemicals	Small Commodities	Heat Transfer Fluids	HTF Therminol

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28	Purchased Chemicals	Specialty Chemicals	Water & Process Treatment	Key product types include: Influent treatment, Wastewater Treatment (primary, biological, sludge dewatering, & recovered oil handling and treatment), Potable Water, Cooling Water Treatment (pre-treatment, re-circulation, closed loop, and once-through), Boiler Feed Water & boiler water treatment, Steam/Condensate, Emulsion breakers, Wetting Agents, Corrosion Inhibitors, Scale Inhibitors, Hydrate inhibitors, Neutralizers, Antifoulants, Antifoams, Metal Passivators, Alkylation Aids, Metal Deactivators, H2S Scavengers and Fireside Additives Services include engineering and technology experts to apply and monitor chemical applications and drive systems improvements Wells product and services, including Drilling Fluids, are out of scope
29	Purchased Chemicals	Large Commodities	Caustic Soda (Europe & Argentina)	50% Caustic Soda Membrane Grade
30	Purchased Chemicals	Small Commodities	Acetic Acid	Acetic Acid
31	Purchased Chemicals	Large Commodities	Caustic Soda (US)	1 contract for 50% Caustic Soda Membrane Grade; another contract for 50% Caustic Soda Diaphragm Grade
32	Purchased Chemicals	Large Commodities	Caustic Soda (US)	50% diaphragm grade caustic soda contract/price (actually Membrane quality)
33	Purchased Chemicals	Specialty Chemicals	Water & Process Treatment	Key product types include: Influent treatment, Wastewater Treatment (primary, biological, sludge dewatering, & recovered oil handling and treatment), Potable Water, Cooling Water Treatment (pre-treatment, re-circulation, closed loop, and once-through), Boiler Feed Water & boiler water treatment, Steam/Condensate, Emulsion breakers, Wetting Agents, Corrosion Inhibitors, Scale Inhibitors, Hydrate inhibitors, Neutralizers, Antifoulants, Antifoams, Metal Passivators, Alkylation Aids, Metal Deactivators, H2S Scavengers and Fireside Additives Services include engineering and technology experts to apply and monitor chemical applications and drive systems improvements Wells product and services, including Drilling Fluids, are out of scope
34	Purchased Chemicals	Fluids	Drilling fluids & Cementing Services	Base Oil
35	Services	Fluids	Drilling fluids & Cementing Services	KWIK SEAL M & F; HRP; G-SEAL PLUS; FLO-TROL; DUOVIS;; DRISPAC-R; DEFOAM A; CMC HV

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36	Services	Fluids	Drilling fluids & Cementing Services	Various drilling fluids
37	Services	Fluids	Drilling fluids & Cementing Services	Various drilling fluids
38	Purchased Chemicals	Business Chemicals	Anti-Oxidants	Irganox 1135, Irganox 5057, Irganox 1076-Melt, PUR 55
39	Services	Fluids	Drilling fluids & Cementing Services	Soltex
40	Services	Fluids	Drilling fluids & Cementing Services	Synvert 1 & 2; Starch; XCD
41	Services	Fluids	Drilling fluids & Cementing Services	Synert TWA & LEM
Instrumentation, Automation & Electrical (IAE)				
42	IAE	Electrical	Motors & Drives	Electric Motors up to 5000hp (ANSI) and 4MW (IEC) with identified scope of expansion to drives and higher power ratings. Associated spares and replacement parts, including those required for testing and commissioning
43	IAE	Instrumentation	Field Instruments	<p>~ Endress+Hauser for the provision of field instruments as the single supplier of level instruments and simple liquid analyzers such as pH, ORP, conductivity, etc.</p> <p>~ Endress+Hauser and Emerson for field instruments measuring pressure, temperature, and flow. The scope will cover the majority of Shell's field instruments requirements as well as technical and engineering support for the selection and sizing of field instruments.</p> <p>Also covered is the supply of field instruments for either Brownfield and Greenfield projects as well as ongoing maintenance activities.</p>
44	IAE	Instrumentation	Field Instruments	<p>~ Endress+Hauser for the provision of field instruments as the single supplier of level instruments and simple liquid analyzers such as pH, ORP, conductivity, etc.</p> <p>~ Endress+Hauser and Emerson for field instruments measuring pressure, temperature, and flow. The scope will cover the majority of Shell's field instruments requirements as well as technical and engineering support for the selection and sizing of field instruments.</p> <p>Also covered is the supply of field instruments for either Brownfield and Greenfield projects as well as ongoing maintenance activities.</p>
45	IAE	Electrical	Cables	Low Voltage to High Voltage Electric Cables

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46	IAE	Automation	MAC	Main Automation Contractor Products and Services Field instrumentation including transmitters, tank guages, analyzers, etc.
47	IAE	Electrical	Power Distribution	MV/HV switchgear (6.6kV and above) MV/HV transformers (primary voltage 6.6kV and above) Electrical network monitoring and control (ENMC) systems All projects services including design, engineering, project management, commissioning support, installation supervision and maintenance services.
48	IAE	Instrumentation	Analyzers	Process Gas Chromatographs, , Silica analyser, RVP analyser, Analyser Shelters, Sample systems / integration
49	IAE	Automation	MAC	Main Automation Contractor Products and Services Field instrumentation including transmitters, tank guages, analyzers, etc.
50	IAE	Instrumentation	Control Valves	General service and severe service control valves manufactured by Valtek. This includes linear valves (globe post guided and globe cage guided) and rotary valves (ball, butterfly, and eccentric plug) for all Run and Maintain, Capital and Turnaround work.