



VIETSOVPETRO
Совместное предприятие

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No:

*V/v: Budgetary quotation for High-
Pressure Test System*

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM
Độc lập - Tự do - Hạnh phúc

REQUEST FOR QUOTATION INVITATION

Vietsovpetro JV would like to request a quotation for High-Pressure Test System .

1. Requirements:

- **Goods Details:** Please refer to the attached list according to the High-Pressure Test System (the required quantities, specifications, and technical parameters).

The High-Pressure Test System is intended for hydrostatic pressure testing and functional testing of well downhole equipment, wireline/slickline pressure-control equipment and other pressure-bearing equipment at Vietsovpetro's workshop.

The equipment shall be supplied as one complete, self-contained and fully integrated test system, including the pumping/water-handling unit, remote control and safety system, digital monitoring/data acquisition and storage system, high-pressure delivery hose and hose reel, and all accessories necessary for normal operation.

Maximum system working pressure shall be not less than 15,000 psi (approximately 1,034 bar).

- **Delivery Location:** 15 Le Quang Dinh Street, Rach Dua Ward, Ho Chi Minh City, Vietnam.
- **Time of delivery:** 24-28 weeks
- **Quotation Requirements:** The quotation shall include the unit price and transportation costs.

The quotation shall remain valid for a minimum of **120 days**.

2. Submission Deadline and Method:

- **Deadline:** before August 26th, 2026
Submission Address: vt.pt@vietsov.com.vn.
- **Contact:**

- Materials Department: Nguyễn Văn Hiếu – Tel: 0902771705
- Slickline Department: Nguyễn Đình Ái – Tel: 0949669966

***Note:** This notice is issued solely for the purpose of conducting a market price survey and does not constitute an invitation to bid. Vietsovpetro JV will conduct an open competitive bidding process after the procurement plan has been approved.*

**ON BEHALF OF THE GENERAL
DIRECTOR
DIRECTOR OF OGPE**

Recipients:

- As above
- File: Office

Nguyễn Quốc Dũng

THE APPENDIX “HIGH-PRESSURE TEST SYSTEM ”

1. GENERAL REQUIREMENTS

The complete system shall be factory engineered as an integrated package. Field assembly of unrelated pumps, controls, recorders and hose components without documented system engineering, safety philosophy and single-manufacturer/system-integrator responsibility is not acceptable.

The main system manufacturer shall assume overall technical responsibility for system integration, pressure integrity, water handling, control logic, safety functions, data acquisition and performance of the complete package.

All controls, valves, indicators, connections and emergency devices shall be clearly and permanently identified in English.

All pressure-containing components supplied with the system shall have rated working pressures suitable for the maximum pressure to which they can be exposed.

The design shall permit inspection, calibration, servicing and replacement of pumps, filters, regulators, valves, pressure sensors, hoses and other maintenance items.

The Bidder shall clearly state manufacturer, model, part number, country of origin, manufacturing location and year of manufacture of the complete system and major assemblies.

Year of manufacture: All goods must be brand new and unused, manufactured in 2026 or later. Obsolete or discontinued main components are not acceptable.

Warranty period of the equipment: Warranty shall be minimum 12 months from successful commissioning and SAT at VSP. The Bidder shall clearly state the warranty terms and maximum warranty commencement period from delivery, if applicable.

2. TECHNOLOGY, TECHNICAL AND CONSTRUCTION REQUIREMENTS

№	Description	Technical characteristics
1	High-Pressure Test System	The High-Pressure Test System shall comprise, as a minimum: remote Control Console; Pump and Water Tank Unit; high-pressure hose reel and delivery hose; safety, interlock system; and all mechanical, pneumatic, hydraulic, electrical, instrumentation, control and communication components required for complete operation. * Pumping and water-handling subsystem: - An air-driven high-volume pump shall be provided for rapid water filling of the equipment under test and removal of trapped air. - An air-driven high-volume pump: nominal 6 HP high-volume pump with approximately 12:1 pressure ratio or equivalent/superior performance. - An independent air-driven high-pressure pump shall be provided for smooth and controlled pressure build-up to at least 15,000 psi: nominal

8 HP high-pressure pump with approximately 225:1 pressure ratio or equivalent/superior performance.

- High-pressure pump performance at 5,000 psi, 10,000 psi and 15,000 psi shall be declared.

- Independent air regulation/control shall be provided for the high-volume and high-pressure pumping functions.

*** Water reservoir and return system:**

- The Pump and Water Tank Unit shall include a main test-water reservoir having a nominal capacity of not less than 215 litres.

- A suitable suction strainer/filter shall protect the pumping system against debris

- Drain and flushing connections shall be provided to facilitate maintenance and cleaning.

***Pressure control and protection:**

Pressure-control/dump manifold including relief, dump/bleed, check and isolation valves.

- The system shall allow smooth and controlled pressure increase from filling pressure to the required test pressure.

- A dedicated controlled dump/bleed function shall safely depressurize the test circuit and route water to the designated collection/return system.

- The system shall provide a safe means to vent trapped air from the equipment under test during filling before high-pressure testing.

*** High-pressure delivery hose and hose reel:**

- A dedicated high-pressure hose reel shall be included as part of the complete system

- The high-pressure test hose shall be provided with a suitable high-pressure quick-connect coupling or equivalent connection system rated for not less than the maximum system working pressure.

- The reel shall include a safe hose-retention/locking arrangement suitable for frequent workshop use.

- All reel swivel joints, end fittings and adapters exposed to test pressure shall be rated for at least the applicable system working pressure.

- A separate water bleed/return hose or engineered return path shall be provided where required by the offered closed-loop arrangement

***Remote Control Console, digital HMI and data acquisition system:**

- The remote Control Console shall be installed in the safe operator area and shall contain the normal operating controls, digital pressure monitoring and test-data acquisition/recording functions.

The system shall use a modern industrial digital monitoring and data-acquisition system.

- A color industrial HMI/display of adequate size and resolution shall provide clear real-time indication of instantaneous pressure, Pressure-versus-Time trend, test status, alarms/interlocks and relevant system operating conditions.

- The HMI/control system shall permit entry or association of test identification information with each recorded pressure test.

- Pressure measurement shall cover the complete system range up to at least 15,000 psi.

		- Electronic test records shall be stored in non-volatile internal memory or equivalent industrial storage so that loss of normal power does not erase recorded tests. - All software, permanent licenses, drivers and communication accessories necessary for data retrieval, viewing, analysis, export and report generation shall be included. * Safety System and High-Pressure Test Area Interlocks: - Emergency Stop pushbuttons shall be provided at accessible operator locations. Activation shall stop pumping and place the pressure system into a defined safe condition, including safe pressure dump/depressurization where this is the manufacturer's validated safety philosophy. - Pressure build-up shall be inhibited unless designated high-pressure test area access doors are confirmed closed and locked. * Control functions and local indications: - Main electrical power ON/OFF and power/status indication. - Pressure Test START/STOP control. - Independent control/regulation of high-volume and high-pressure pumps.
2	Air-driven high-volume pump	To be used for high pressure test unit . 6 HP high-volume pump with approximately 12:1 pressure ratio or equivalent/superior performance Quantity: 01 ea
3	Air-driven high-pressure pump	To be used for high pressure test unit . 8 HP high-pressure pump with approximately 225:1 pressure ratio or equivalent/superior performance. Quantity: 01 ea
4	High pressure hose reel	Fixed high-pressure hose reel/support with $\geq 15,000$ psi water-test hose and required end fittings Quantity: 01set
5	Spare part	All spare parts required for the provision of full-service support, including but not limited to: - Quicklock connection: Quick Coupler with check valve and Quick Nipple 15,000 psi: 02 set - Check valve 15,000 psi: 01 ea - All installation tubing, hoses, cables, fittings, supports, anchors, adapters and accessories required for a complete operational installation
6	Service	Installation, commissioning, SAT and operator/maintenance training at VSP workshop

3. CODES, STANDARDS, CERTIFICATION AND SAFETY REQUIREMENTS

The manufacturer shall maintain a valid Quality Management System certified to ISO 9001:2015 or latest applicable edition.

As applicable: IEC 60204-1, ISO 13850, functional safety standards or equivalent

Only if hazardous-area classification requires: IECEx/ATEX or equivalent.

Preferred / accepted evidence: CE conformity or equivalent