



Pakistan State Oil Company Limited

PSO House, Khayaban-e-Iqbal, Clifton, Karachi-75600, Pakistan
Telephone (021) 9203866-85 Fax (021) 9203796

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RFQ No	OP-A4919SJ	
DATE	13.08.2026	

REQUEST FOR QUOTATION

(THIS IS PRICE ENQUIRY-NOT AN ORDER)

SAP No.6100017864

Company PSO Dummy Vendor
PAKISTAN

QUOTATION REQUIRED

ON
(Date)

28.08.2026

BY
(Time)

Please quote your best price for all items of following specifications. Please read the instructions attached herewith Rs. _____ EARNEST MONEY %
PO/DD NO. _____

Title: Annual Contract for Inspection and Condition Assessment of Product Pumps and Electric Motors at PSO Keamari Terminal A.

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
1	<u>Monthly Inspection of Pumps KTA</u>	<u>Keamari Terminal</u>				
1.01	<u>Noise Monitoring Services</u> Monthly Inspection Services of Pump-Motor Set at Keamari Terminal A Gasoline and Kerosene Section The total number of Centrifugal Pumps at KTA Gasoline Section are 10 Pumps. The total number of Centrifugal Pumps at KTA Kerosene Section are 08 Pumps. The Contractor must visit the site on monthly basis and perform on-site physical inspection, functional checks, and vibration/thermal measurement of each product pump-motor set identified in Annexure A (Equipment List), covering the four inspection domains below, consistent with PSO's standard inspection checklist format. SCOPE OF WORKS: Scope of Work includes but not limited to the following: Section-01 A. General Requirements 1.,The Contractor shall inspect product pump-motor sets located at KTA Gasoline and Kerosene pump houses, as listed in the equipment schedule to be issued at contract award. 2.,Each pump-motor set shall be inspected as a single unit; findings shall be recorded against the specific Client Name, Location/Tag Number, Pump identification, and Motor identification as per the standard checklist header fields. 3.,Inspection shall be carried out with the equipment in running condition wherever operationally feasible, to allow vibration, temperature, noise, and ampere/voltage readings to be taken under load; where a unit is on standby, this shall be recorded and, where practicable, coordinated with PSO Operations for a short functional run. 4.,All work shall be performed under a valid PSO Work Permit / Hot Work or Cold Work Permit as applicable, with PSO HSE and Operations personnel informed prior to commencement of work on each pump.		<u>JOB</u>	72		



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	B. Pump # Mechanical Inspection Parameters 1.,,Discharge # Verify discharge pressure against pump curve / rated duty point; note any deviation. 2.,,Head # Confirm developed head is consistent with design/rated head at current flow. 3.,,Power # Record power drawn (kW/HP) and compare against rated motor power / pump BHP curve. 4.,,Application # Confirm service application (e.g., MoGas transfer, HSD dispatch) matches design intent; note any duty change. 5.,,Mechanical Seal # Inspect for leakage, weeping, flush line integrity, and seal pot condition (if applicable). 6.,,Bearing Seals # Inspect bearing housing seals / labyrinth seals for oil leakage or contamination ingress. 7.,,Coupling # Inspect coupling element/guard, alignment condition, and wear on flexible element. 8.,,Vibration (Driven End & Non-Driven End) # Measure horizontal and vertical vibration velocity (mm/s RMS) at driven and non-driven ends per ISO 20816-3; benchmark against zone boundaries. 9.,,Temperature # Record bearing housing / casing surface temperature (°C) using contact or IR thermometer. 10.,,Noise # Record qualitative/quantitative noise level (dB(A) where instrumentation available); note abnormal sounds (cavitation, bearing distress). 11.,,Foundation # Inspect pump-side foundation for cracks, grouting deterioration, base-plate corrosion, and hold-down bolt tightness. 12.,,General Condition # Overall visual assessment covering paint/coating condition, corrosion, oil leaks, housekeeping around the unit. C. Electric Motor / Control Unit # Inspection Parameters For each motor and its associated local control unit / starter panel, the Contractor shall inspect and record the following: 1.,,Cooling Fan # Verify fan cover integrity, fan blade condition, and unobstructed cooling air path. 2.,,End Covers # Inspect end shield / end cover fixing, gasket condition, and ingress protection integrity.					



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	3.,,Bearing Greasing # Verify grease nipple condition and re-lubrication schedule adherence; check for over/under greasing signs. 4.,,Connection Box # Inspect terminal box for moisture ingress, cable gland integrity, and terminal tightness/torque marks. 5.,,Cable & Conduit # Inspect power and control cabling, conduit fixing, and cable insulation condition for damage or chafing. 6.,,Starting Circuit (Soft Starter / VFD / Star-Delta) # Functionally verify starting method operation; check for fault history, thermal alarms, or parameter drift on VFD/soft-starter. 7.,,Under/Over Voltage Relay # Verify relay is fitted, correctly set, and trips within specified voltage band (functional test where feasible). 8.,,Over Load Relay # Verify relay setting corresponds to motor FLC; check trip test history / calibration status. 9.,,Star/Delta Timer # Verify changeover timer setting and functional operation where star-delta starting is used. 10.,,Ampere Meter # Record running current on each phase and compare against motor nameplate FLC (if available). 11.,,Volt Meter # Record supply voltage on each phase; check for voltage imbalance. 12.,,Indication Lights # Verify Run/Stop/Trip/Fault indication lamps are functional. 13.,,Internal Wiring # Visual inspection of panel internal wiring for looseness, discoloration (heat damage), or non-standard modifications. 14.,,Hour Meter # Record running hours where fitted. 15.,,Vibration (Driven End & Non-Driven End) # Measure horizontal and vertical vibration velocity at motor drive-end and non-drive-end bearings per ISO 20816-3. 16.,,Temperature # Record motor frame/bearing temperature (°C); flag against NEMA/IEC insulation class limits. 17.,,Noise # Record noise level and note any abnormal electrical (hum) or mechanical (bearing) noise. 18.,,General Condition # Overall visual condition: corrosion, paint, panel door seals, labeling/nameplate legibility. D. Fittings, Accessories & Instrumentation					



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	The Contractor shall inspect the following pipeline fittings and instrumentation associated with each pump: 1.,Non-Return Valve # Verify NRV is fitted, functional, and free of internal leakage (checked via downstream pressure hold / audible check). 2.,Strainer # Inspect strainer housing for integrity; confirm differential pressure indication and cleaning frequency compliance. 3.,Gate/Sluice Valve # Verify valve operability, handwheel condition, and stem/gland leakage status. 4.,Air Relief Valve # Verify presence and functional condition at high points; confirm no product weepage. 5.,Line Supports at Pump Ends # Inspect pipe supports/hangers near suction and discharge nozzles for adequacy and nozzle load conditions. 6.,Suction & Delivery Connecting Lines # Visual inspection of connecting piping for external corrosion, insulation condition, and leak marks. 7.,Pressure Gauge # Verify gauge is fitted, calibrated/tagged, glass intact, and reading plausible against process conditions. 8.,Compound Gauge # Verify suction-side compound gauge functionality and calibration status. E. Foundation & Civil Condition 1. Assess whether pump/motor foundation is proper or improper relative to OEM and civil design requirements (levelness, grouting, base-plate seating). 2. Assess general civil condition of the foundation block, plinth, and surrounding paving/drainage for cracking, settlement, or oil-soaked concrete. F. Operational Data 1. Record number of running hours per day for each pump-motor set. ----- Section-02 Inspection Methodology & Applicable Standards ----- The Contractor shall conduct all inspections in accordance with recognized industry codes and procedures, including but not limited to: #.,Vibration measurement and severity evaluation: ISO 20816-3					



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	(Mechanical vibration # Evaluation of machine vibration by measurements on non-rotating parts # Industrial machines). #,,Rotating equipment condition monitoring practice: API RP 686 / API 610 (Centrifugal Pumps for Petroleum, Petrochemical, and Natural Gas Industries) as reference for acceptance criteria, where applicable to installed pump class. #,,Electric motor inspection and testing: IEC 60034 series / NEMA MG-1 as reference for insulation, temperature rise, and nameplate parameter verification. #,,PSO Permit to Work (PTW) system, HSE Golden Rules, and site-specific Job Safety Analysis (JSA) prior to any physical or electrical intervention. All test instruments used (vibration analyzer, IR thermometer/thermal camera, clamp meter, tachometer, sound level meter) shall carry valid calibration certificates traceable to a recognized national/international standard, to be submitted with the technical proposal and made available for verification on request. Section-03: Deliverables The Contractor shall submit the following deliverables for each inspection campaign: 1.,,Duly completed and signed inspection checklists (per PSO's standard Product Pump / Motor Inspection Checklist format) for every pump-motor set covered, capturing all parameters listed in Section-01. 2.,,A consolidated inspection report (Microsoft Word/PDF) summarizing findings across all inspected units, with a fleet-level condition overview and equipment-wise observations. 3.,,A prioritized corrective action / recommendation register (Microsoft Excel), classifying findings by urgency (e.g., Immediate / Short-Term / Long-Term / Monitor) with a live status-tracking field for close-out by PSO. 4.,,Vibration trend sheets and raw measurement data (tabulated) for each measurement point, to allow baseline comparison in subsequent inspection cycles. 5.,,A general comments / recommendations section per unit, consistent with the standard checklist format, capturing the Contractor's					



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	professional opinion on remaining service life or need for overhaul. All deliverables shall be submitted in draft within 02 working days of completion of physical inspection, and finalized within 07 working days of receipt of PSO's review comments. TERMS AND CONDITIONS: 1. Contractor should strictly follow the safety and security rules of PSO. Contractor to follow Company's rules and procedures as well as HSE guidelines and safety procedures. Contractor will provide and ensure usage of PPEs i.e. Safety Shoes, Gloves, Helmets, Goggles<(>,<)> Safety Harness, Safety Belts etc during execution of work. HSE Manual <(>&<)> Instructions are provided for information & compliance. 2. All service, tools, first aid box, ladder, materials and transportation required for execution of work to be arranged and provided by contractor. 3. Quantities against various items are estimated and may increase or decrease, however payment shall be made as per actual verified quantities. 4. Contractor will ensure proper housekeeping and cleaning of the area after completion of work 5. Job is subject to inspection of Terminal Engineer 6. Contract Period: Annual Contract 7. The contractor has to visit every month. 8. If the Contractor fails to complete the work within time stipulated, the Engineer Incharge will be entitled to deduct from his bills for a value of .10% of work order per day and subject to maximum 10% value of P.O.					