



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	LM-20094YP	
DATE	12.10.2026	

REQUEST FOR QUOTATION

(THIS IS PRICE ENQUIRY-NOT AN ORDER)

SAP No.6100018599

Company PSO Dummy Vendor
PAKISTAN

QUOTATION REQUIRED

ON
(Date)

28.10.2026

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: SUPPLY, INSTALLATION, TESTING and COMMISSIONING OF AN AUTOMATIC DUAL-NOZZLE DRUM FILLING LINE

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
1	Dual Nozzle Drum-Filling Machine PROCUREMENT, SUPPLY, INSTALLATION, TESTING and COMMISSIONING OF AN AUTOMATIC DUAL-NOZZLE DRUM FILLING LINE Prelude: PSO intends to procure, supply, install, test, and commission a fully Automatic Dual-Nozzle Drum Filling Line, with automatic nozzle actuation and automatic filling upon arrival of a drum at the filling station, for the filling of packaged product (lubricants / finished petroleum product, as applicable) into standard upto 210-litre plastic / steel drums (at least) at its plant/terminal at Korangi. This RFQ defines the minimum technical, functional, and performance requirements that the offered system must meet. All requirements stated herein represent the minimum acceptable standard. Bidders may offer equal or technically superior solutions, and provide full technical and supporting literature/datasheets with the bid. Scope of Work Summary: The successful bidder's ("the Contractor's") scope shall include, but not be limited to, the following: 1. Manufacture/fabrication, supply, and delivery of a complete Automatic Dual-Nozzle Drum Filling Line, with automatic drum detection, automatic nozzle actuation, and automatic filling sequence, as detailed in relevant section. 2. Supply of all associated mechanical, electrical, instrumentation , pneumatic, and automation/control components necessary for a fully functional, ready-to-operate machine. 3. Packing, transportation, delivery to site on DDP basis, unloading , and storage guidance. 4. Installation, mechanical alignment, electrical/pneumatic hook-up, and supervision of civil/foundation interface works at PSO's site. 5. Site Acceptance Test (SAT), performance/load testing, and commissioning of the complete line. 6. Supply of mandatory commissioning spares and a minimum two (2) year operational spare-parts package, as specified in relevant section.	LMT	EA	1		



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	7. Supply of complete technical documentation, drawings, operation <(>&<)> maintenance (O<(>&<)>M) manuals, and test/inspection certificates, as specified in relevant section. 8. Training of the PSO's operations and maintenance personnel, as specified in relevant section. 9. Warranty support and defect-liability obligations. 10. Availability of after-sales service, technical support, and spare parts for a minimum period as specified in relevant section. 11. Dismantling and safe removal (as directed by PSO) of the existing drum-filling machine currently installed at site; the new machine shall be installed in the space vacated by the existing machine. 12. Pre-bid site visit by the Bidder to ascertain existing site conditions, layout, access, and utility availability relevant to dismantling, installation, and commissioning. 13. For internationally sourced machines, installation, testing, and commissioning at site shall be carried out through the OEM's local (Pakistan-based) authorized representative. Technical Specifications: The following constitute the minimum functional and performance specifications for the machine. Bidders shall complete and submit the Compliance Sheet confirming compliance against each requirement, supported by relevant catalogues, datasheets, and/or drawings. Any deviation must be clearly stated in the compliance sheet bidder specs column. General Requirements: Machine: Fully automatic, dual-nozzle, drum filling line for 205 / 208 / 210-litre steel / plastic drums, comprising in-feed conveyor, motorized/automatic filling station with load-cell based weight/volume control, and out-feed conveyor. The machine shall automatically detect drum arrival/positioning and automatically actuate nozzle diving, filling, retraction, and drum indexing, without manual triggering by the operator. Nominal Filling Capacity: Not less than 60 drums/hour (210-litre drums)					



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	combined dual-nozzle throughput, at the specified product viscosity/temperature range Number of Filling Nozzles: Minimum two (2) Filling Method: Bottom-up (sub-surface) filling to minimize product aeration/foaming and static charge generation. Filling Accuracy: Proportional/adjustable filling with programmable speed and volume, and closed-loop weight verification with over-weight and under-weight alarms; accuracy of $\pm 0.5\%$ of target fill weight or better. Safety Interlock: No drum, no fill interlock; filling shall not initiate unless a drum is correctly positioned and detected. Drum Compatibility: Standard 205, 208 and 210 litre steel and plastic drums Product Transfer / Filling Pump System: Function: Transfer of product from storage tank/source to the filling header/nozzles. Pump Type: Positive-displacement gear pump (or equivalent technology suitable for the product being filled), of stainless steel construction, fitted with an integral/line safety relief valve. Number of Pumps: Minimum two (2) feed pumps (redundant/parallel configuration to be confirmed based on line configuration), or as required to meet the stated capacity with adequate margin. Pump Connections: Minimum 2-inch nominal size inlet/outlet, flanged. Flow Rate: Not less than 10 m³/hr per pump, or as required to achieve the specified filling capacity. Materials of Construction: All product-wetted parts in stainless steel (minimum SS-304 or better), suitable for long-term contact with the product being handled. Filling Header <(>&<) Valves: Header Material: Stainless steel (minimum SS-304), Schedule 10 pipe or					



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	equivalent wall thickness, with flanged-type connections throughout. Main Filling Valve: Minimum 2-inch pneumatically operated ball valve with position feedback, for bulk/main filling. Trim/Fine Filling Valve: Minimum ½-inch pneumatically operated ball valve with position feedback, for precise/dribble filling to final target weight. Valve Operation: Two-stage (coarse + fine) filling sequence to optimize speed while maintaining fill accuracy. Filling Nozzles: Material of Construction: Stainless steel, Schedule 10 (or heavier) pipe, minimum 1½-inch nominal size. Nozzle Actuation: Automatically and pneumatically operated (raise/lower or "diving" motion into the drum) using an industrial-grade pneumatic cylinder of adequate bore/stroke to suit drum geometry (indicative: 50 mm bore x 500 mm stroke, or as required). Nozzle diving/actuation shall be triggered automatically upon correct drum detection/positioning at the filling station, with no manual initiation required. Sealing: Premium-quality low-friction bush/seal (e.g., PTFE or equivalent) to ensure smooth, drip-free, long-life operation. Drip Control: Automatic drip-tray mechanism to capture/avoid residual product droplets from spilling onto drums or the work area. Nozzle Quantity: Minimum two (2), independently controlled. Drum Conveyor System: In-feed Section: Roller conveyor (gravity or motorized/powered, at Bidder's design option), minimum 10 ft. long x 25-inch wide, for accumulation/infeed of empty drums. Filling Section: Motorized/automatic (powered) roller conveyor, minimum 2 ft. long x 30-inch wide, fitted with a single-point load cell of minimum 500 kg capacity for in-line weight verification during filling. The filling-section conveyor shall automatically index/position the drums under the filling nozzles and automatically transfer the filled					



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	drums to the out-feed conveyor on completion of the fill cycle, without manual pushing/handling. Out-feed Section: Roller conveyor (gravity or motorized/powered, at Bidder's design option), minimum 10 ft. long x 25-inch wide, for accumulation/outfeed of filled drums. Structure Stainless steel (or hot-dip galvanized/coated carbon steel) structural frame, fitted with end-to-end guide rails to maintain drum alignment. Line Configuration: Both filling positions/nozzles shall be merged into a single line. Automation <(>&<)> Control System: Control Philosophy: Fully automatic filling cycle: automatic drum detection/positioning, automatic nozzle diving/actuation, proportional (coarse + fine) filling with adjustable/programmable filling speed and target volume/weight per product/recipe, automatic nozzle retraction , and automatic release of the drum to the out-feed conveyor, with no manual triggering required from the operator. Weight Verification: Continuous counter-weight checking with configurable over-weight and under-weight alarm limits. Interlocks: "No drum # no fill" protection, and other process/safety interlocks as required for safe unattended-cycle operation. Controller (PLC): Industrial-grade Programmable Logic Controller (PLC) of a reputable, internationally recognized make with a local service/support presence in Pakistan, comprising as a minimum: Central processing unit, RTD/temperature input card, density meter (as required by process), digital input/output card(s), and a regulated power supply unit or functionally equivalent architecture. The PLC/control system should be equipped with built-in IoT (Industrial					



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	Internet of Things) connectivity (e.g., Ethernet/IP, industrial Wi-Fi, GSM/4G, or equivalent) enabling remote monitoring of filling parameters including, as a minimum, fill weight per drum and the number/count of drums filled via a secure web-based/cloud dashboard or local network interface accessible to authorized PSO personnel. Operator Interface (HMI): User-friendly touch-screen Human-Machine Interface (HMI) with password-protected/role-based access, real-time alarms, and fault/error diagnostic messages. IoT / Remote Monitoring and Data Reporting: IoT-enabled remote monitoring of filling parameters (fill weight, number of drums filled/batch count, alarms/fault status), together with batch/production reporting or data-logging capability (e.g., drums filled, weight, time-stamp), accessible remotely by authorized PSO personnel. Pneumatic System: Components: Filter-Regulator-Lubricator (FRL) unit, pressure switch(es), connectors and tubing, pneumatic cylinders, solenoid valve island(s), and reed/proximity switches for position feedback. Make/Quality: Industrial-grade pneumatic components from a reputable, internationally recognized manufacturer with proven reliability in similar industrial filling/packaging applications. Maximum Operating Air Pressure: Not exceeding 8 bar (system to be designed for reliable operation within the compressed-air supply available at site)					



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	Electrical, Instrumentation <(>&<)> Safety: Electrical Protection Devices: Circuit breakers, contactors, and overload relays from a reputable, internationally recognized manufacturer, correctly rated for the installed electrical load. Earthing / Bonding: Static earthing/bonding provision for drums and equipment, in line with good lubricant-filling practice. Safety Devices: Emergency stop (E-stop) station(s), guarding of moving parts, and all other safety devices necessary for safe operation, to be included in the offer. Control Panel: Enclosure Industrial-grade enclosure with degree of protection suitable for the installation environment (minimum IP54, or as required for the specific location/hazardous area classification). Performance Requirement: Filling Speed: Not less than 60 drums/hour (210-liter drums), combined dual-nozzle throughput, demonstrated during SAT. Availability: System shall be designed for continuous industrial duty with minimal unplanned downtime; bidder to state expected mechanical/electrical duty rating. Applicable Standards <(>&<)> Codes: The design, materials, fabrication, and installation shall, as a minimum, conform to the following (or internationally recognized					



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	equivalent standards, duly stated by the bidder): # ASME B31.3 / relevant piping code # for process piping design and fabrication. # ASME Section IX / AWS D1.1 (or equivalent) # for welding procedures and welder qualification. # IEC 60204-1 (or equivalent) # for electrical safety of machinery. # Applicable ISO 9001:2015 (or equivalent) certified Quality Management System for the manufacturer/fabricator. # Relevant national/international standards for steel drums and packaging, as applicable. # Local statutory, environmental, health & safety (HSE), and fire-safety regulations applicable at the site of installation. Where the bidder proposes an alternative standard, evidence of equivalence shall be submitted for evaluation by the Procuring Agency's technical committee. Scope of Supply: The following shall be included within the Contractor's scope of supply complete in all respects: # Complete Dual-Nozzle Drum Filling Line as specified in relevant section (pumps, header, valves, nozzles, conveyors, automation/control system, pneumatics, electrical panel, and safety devices). # All interconnecting piping, cabling, structural steel, and fixing/mounting hardware required between the supplied equipment items. # Local control panel(s) and operator HMI station(s). # Mandatory commissioning spares. # All documentation specified in relevant section. # Loading/positioning guidance for foundation and utility tie-in points (final civil/foundation works, electrical supply up to the panel incomer, and compressed-air supply up to the FRL inlet, to be provided by the Procuring Agency unless otherwise agreed). Battery limits (i.e., the precise interface point between the Contractor's and the Procuring Agency's scope for utilities such as power supply, compressed air, and product supply piping) shall be					



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	mutually agreed and documented prior to contract award.					
	Existing Equipment Removal, Site Visit <(>< Local Representation: # Existing Machine Removal: The Contractor's scope shall include safe dismantling and removal (as directed by PSO) of the existing drum-filling machine currently installed at the site. The new machine shall be installed in the space vacated by the existing machine, complete with all associated mechanical, electrical, and pneumatic hook-up works required to make the new installation fully operational. # Site Visit: Bidders are required to visit the site prior to submission of their bid/quotation to ascertain existing site conditions, layout , access constraints, and the space vacated by the existing machine, so as to fully assess the scope of dismantling, removal, installation, and commissioning, complete in all respects. No claim for additional cost , time extension, or scope variation shall be entertained on account of site conditions that could reasonably have been ascertained through a site visit. # Local Representation: Incase of an internationally (foreign) manufactured machine, bidders should be official authorized distributors of the machine OEM. Installation, testing, and commissioning of the offered machine at site, as well as after-sales service and warranty support, shall be carried out through the OEM's local authorized representative/agent. Bidders shall submit OEM authorization letter with the bid.					
2	<u>Instal, Comm. Test., of Filling Machine</u>	<u>LMT</u>				
2.01	<u>Overall commissioning of system</u> Installation, Testing & Commissioning: Installation: The Contractor shall supervise/execute mechanical installation<(>< alignment, electrical hook-up, pneumatic connection, and integration of		<u>JOB</u>	1		



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	all supplied equipment at the Procuring Agency's site, in accordance with the approved installation drawings and manufacturer's recommended practice. The scope includes supply of necessary piping, pipe-fittings (elbows etc), wiring, pneumatic piping and all necessary supply items for the complete in all respect electrical and mechanical successful installation and commissioning of the machine (to be determined at SAT) Site Acceptance Test (SAT) / Commissioning: Following installation at site, the Contractor shall carry out SAT and commissioning, including hot/cold commissioning with actual product (as agreed), to demonstrate that the system meets the performance requirements of relevant section (filling speed and accuracy) under actual site operating conditions. A formal Commissioning/Handover Certificate shall be signed jointly by the Contractor and the Procuring Agency upon successful completion. Performance/Guarantee Test Run: A continuous performance test run (duration to be specified by the Procuring Agency, e.g., 72 hours) shall be carried out to demonstrate sustained performance, capacity, and reliability prior to final acceptance. Bid Technical Documentation Requirements: Bidders shall submit, along with their technical proposal, the following as a minimum: ·,,Duly filled Technical Compliance Sheet against each specification ·,,General Arrangement (GA) drawing(s) of the proposed system, showing overall dimensions, footprint, and utility connection points. ·,,Catalogues/datasheets of major components (pump, PLC, HMI, pneumatic components, load cell, valves). ·,,Manufacturer's ISO 9001:2015 (or equivalent) certification. ·,,List of similar installations/references supplied and commissioned in the last five (5) years, with contact details for verification. ·,,Proposed project execution schedule (design, manufacture, delivery <(>,<)>					



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	installation, and commissioning), not exceeding the maximum delivery period specified in the tender document. Documentation & Manuals: The Contractor shall supply, in both hard copy (minimum 3 sets) and editable/native electronic format (USB), the following documentation upon completion: #,As-built General Arrangement (GA) drawings and layout drawings. #,Piping and Instrumentation Diagram (P&ID). #,Electrical single-line diagram and control panel wiring drawings. #,PLC program (source/backup files) and HMI application files/backup. #,Pneumatic circuit diagram. #,Operation & Maintenance (O&M) manual, including troubleshooting guide. #,List of recommended spare parts with part numbers and ordering information. #,Material Test Certificates (MTCs) for pressure-retaining/product-wetted parts. #,Site Acceptance Test (SAT)/commissioning reports and certificates. #,Calibration certificates for the load cell/weighing system and any other measuring instruments. Training: The Contractor shall provide on-site training to the PSO's operations and maintenance personnel, covering as a minimum: #,Safe start-up, normal operation, and shut-down procedures. #,HMI/PLC operation, recipe/parameter adjustment, and alarm handling. #,Routine preventive maintenance and troubleshooting of mechanical <,>> electrical, and pneumatic sub-systems. #,Safety procedures specific to the equipment and the product being handled. Training duration and batch size shall be minimum: 3 working days, for up to 10 personnel, and shall be conducted in English/Urdu as required by PSO. Spare Parts: The Contractor shall supply, as part of the base offer:					



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	#,,Commissioning/start-up spares, as recommended by the manufacturer<(>,<)> sufficient for initial commissioning and the warranty period. #,,A recommended list of critical/insurance spares and consumable spares for a minimum two (2) year normal operating period #,,The Contractor shall further confirm, in writing, the availability of spare parts support for the equipment for a minimum period of ten (10) years from the date of commissioning, and shall disclose the expected component-obsolescence/end-of-life policy for the offered automation system (PLC/HMI). Warranty / Defect Liability: The complete system, including all mechanical, electrical, pneumatic <(>,<)> and automation components, shall be warranted against defects in design <(>,<)> material, and workmanship for a minimum period of twelve (12) months from the date of successful commissioning/handover, or eighteen (18) months from the date of delivery, whichever occurs earlier (or as otherwise specified in the tender document). During the warranty period, the Contractor shall rectify, repair, or replace (at its own cost, including freight) any defective part(s) within a mutually agreed response/rectification time, at no additional cost to the Procuring Agency. After-Sales Service and Support: The Contractor shall maintain a documented local (Pakistan-based) service and technical support presence, or a clearly defined support arrangement, capable of responding to service calls within a defined period (e.g., 48#72 hours) throughout the equipment's service life. Bidders are encouraged to offer an optional Annual Maintenance Contract (AMC) / Comprehensive Maintenance Contract, covering preventive maintenance visits, breakdown support, and spare parts, for the Procuring Agency's consideration post-warranty. Delivery Schedule:					



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Title: SUPPLY, INSTALLATION, TESTING and COMMISSIONING OF AN AUTOMATIC DUAL-NOZZLE DRUM FILLING LINE

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	The complete system shall be designed, manufactured, factory-tested<(> ,<)> delivered and commissioned at site within 180 days from the date of issuance of purchase order. Payment Terms: Prices shall be quoted, and payment shall be made, on DDP basis at PSO site (Korangi Plant) basis, inclusive of packing<(> ,<)> freight, insurance, and delivery to site. Milestone-based payment: 20% of value of Drum-Filling machine package on on-site delivery, and 80% of value of the drum-filling machine package and installation and commissioning cost to be released upon successful SAT after installation and commissioning of the machine., Delivery / completion time:,,Within 180 days of PO issuance,, Performance security:,,Performance Guarantee of 10% of contract value<(> ,<)> valid through the warranty period Warranty / defect liability period: ,,Minimum 12 months from commissioning / 18 months from delivery, whichever occurs first (bidder may offer longer, and may propose a component/system-wise warranty schedule, clearly tabulated, provided it is not less favourable than this minimum for pressure parts and major rotating/control equipment),, Liquidated damages for delay: For delay in delivery/installation/commissioning attributable to the bidder, LD shall be charged at 0.1% of the delayed portion / line item of the contract value per day of delay, subject to a maximum cap of 10% of the PO value, beyond which PSO may terminate the contract and forfeit the performance guarantee, without prejudice to other remedies., Force Majeure: Neither party shall be liable for delay or failure to perform obligations resulting from force majeure events, subject to prompt written notice and reasonable evidence.					