



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	LT-19987IA	
DATE	09.09.2026	

REQUEST FOR QUOTATION

(THIS IS PRICE ENQUIRY-NOT AN ORDER)

SAP No.6100018161

Company PSO Dummy Vendor
PAKISTAN

QUOTATION REQUIRED

ON
(Date)

25.09.2026

BY
(Time)

2:15 PM

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

Title: Supply, Installation and Commissioning of Rotary Screw Air Compressor and Dryers at PSO LMPA.

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
1	<u>Rotary Screw Air Compressor 37 kW</u> Supply, Installation, Piping Integration, Testing <(>&<)> Commissioning of a Variable-Speed, Rotary Screw Air Compressor Package (Compressor, Refrigerant Dryer & Filtration) for the Lubricants Manufacturing Plant # A (LMP-A). INTRODUCTION & PURPOSE: Pakistan State Oil Company Limited ("PSO" / "the Company" / "the Purchaser") intends to procure<(>,<)> install, integrate, test and commission one (01) complete compressed-air package comprising a variable-speed<(>,<)> oil-injected rotary screw air compressor, a refrigerant-type compressed air dryer, and combined pre/post air filtration together with all associated stainless-steel piping, fittings and installation works, for supply of clean, dry, oil-free-quality compressed air to the lubricant filling machines<(>,<)> associated pneumatic/process equipment and boiler at the Lubricants Manufacturing Plant # A (LMP-A), Karachi. SCOPE OF SUPPLY: The scope of supply shall include, at minimum, on a complete in all respect (supply, delivery<(>,<)> installation, piping, testing and commissioning) basis: - One (01) complete variable-speed, oil-injected rotary screw air compressor package, as specified in relevant section. - One (01) refrigerant-type compressed air dryer, sized to suit the full rated output of the compressor, as specified in relevant section. - One (01) combined pre-filtration and post-filtration air filter assembly, as specified in relevant section. - Supply and installation of stainless-steel piping, valves and fittings for the compressor package installation, and piping from the compressor package to the point of use at the LMP-A lube filling machines and boiler. - All installation labor, mechanical and required electrical works, foundation/anchoring (if required)<(>,<)> and consumables necessary for	LMPA (Blending)	EA	1		



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	a complete, working installation. 6. Site Acceptance Test (SAT) support and commissioning as detailed in relevant section. 7. Operator and maintenance training as detailed in relevant section. 8. Standard manufacturer's warranty covering parts and labor. 9. Operation and maintenance manuals, technical datasheets, and spare-parts information (in English). MINIMUM TECHNICAL SPECIFICATIONS (Air Compressor): - The compressor offered must meet or exceed the following minimum technical, performance, and certification requirements. These are stated as verifiable engineering requirements, given the critical and continuous-duty nature of this equipment, bidders must substantiate every item below with the OEM's published, independently-referenceable technical literature and/or certification documents. - Unsubstantiated claims of compliance will not be accepted. Bidders must complete the Technical Compliance Sheet against each parameter. - Compressor Type: Oil-injected rotary screw compressor, air-cooled. - Speed Control / Drive Technology: Genuine, OEM-integrated Variable Speed Drive (VSD) technology that continuously and automatically matches motor speed to actual air demand across an extensive flow turndown range (minimum 20#100% of rated flow), fixed-speed, or simple external VFD retrofits not integrated/co-designed by the compressor OEM, are NOT acceptable. - Motor & Drive Configuration: Direct-drive configuration (motor shaft directly coupled to the compression element), NO gearbox, belt, or coupling subject to routine wear/adjustment in the power-transmission path. - Motor Type & Cooling: Oil-cooled motor (oil-lubricated bearings<(>,<(> no re-greasing required), IP66 or better ingress protection<(>,<(> permanent-magnet (IPM) or synchronous reluctance design. - Motor Efficiency: Motor and drive combination shall meet or exceed IE5 efficiency per IEC 60034-30-1 (or the drive/motor system shall exceed IES2 requirements of EN 50598 for power drive efficiency); bidder to submit OEM certification/published data confirming compliance.					



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	- Rated Motor: Power Minimum 37 kW installed motor power (bidder may offer a higher-rated unit if required to meet Capacity / FAD requirement; capacity/power to be mutually confirmed against actual LMP A demand). - Capacity (FAD: Minimum Free Air Delivery (FAD) of 130 l/s (# 468 m³/h) at 7 bar(e) working pressure<(>,<)> measured per ISO 1217, latest edition or equivalent internationally recognized standard); bidder to submit the full FAD performance table/curve for the offered model across the working pressure range of 4#12.5 bar(e). - Maximum Working Pressure: Minimum 13 bar(e) (188 psig) maximum rated working pressure capability. - Noise Level: Maximum 67 dB(A) mean noise level, measured at 1 m at maximum working pressure per ISO 2151:2004 using the ISO 9614-2 sound intensity method (or equivalent internationally recognized standard), with tolerance stated by the OEM. Controller: - Advanced graphic touch-screen controller providing real-time and remote monitoring capability through IoT connectivity through Ethernet / Wifi / other protocol, warning indications, automatic compressor shut-down protection, and maintenance scheduling; controller shall be designed/manufactured by the compressor OEM (not a generic third-party PLC/HMI relabeled as a "controller"). Remote Monitoring: - Controller shall support standard (OEM in-house designed) remote/cloud monitoring capability for air-system performance and energy tracking, at minimum as an available option; offered as standard. Air/Oil Separation & Valve Technology: - Integrated air/oil vessel separator, thermostatic bypass valve, and a minimum-pressure/blow-off-loss-minimizing valve (e.g., a sentinel-type valve) designed to optimize inlet air-end flow without blow-off losses. Electromagnetic Compatibility (EMC):					



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	- Compressor drive/inverter shall comply with applicable EMC directives/standards (e.g., equivalent to EU EMC Directive 2014/30/EU or its predecessor 2004/108/EC). Pressure Vessel Certification: - Pressure vessel(s) forming part of the compressor package shall be designed, manufactured and certified to a recognized pressure-equipment standard/directive (e.g. ASME, or equivalent). Cooling System: - Air-cooled, with a radial/axial fan providing adequate cooling capacity for continuous operation at maximum ambient temperature stated by the bidder; classic or equivalent cooler design with separate oil/air cooling circuits and integrated water separation. Power Supply: - 380#415V three phase, 50Hz (to be confirmed at site survey; bidder to state exact connected load). Reference Conditions & Standards: - Basis All performance figures (capacity, noise, efficiency) shall be stated at standard reference conditions (absolute inlet pressure 1 bar / intake air temperature 20°C, or equivalent stated basis) and shall be independently verifiable against the OEM's published technical literature. Note: - Operating Temperature and Environmental Conditions: The rotary screw compressor package shall be suitable for reliable<(>,<)> continuous-duty operation under the prevailing environmental conditions at the installation site in Karachi, Pakistan. The compressor shall be designed and rated to operate satisfactorily with inlet/suction air temperatures ranging from a minimum of 5°C to a maximum of 45°C<(>,<)> without excessive thermal loading, high-temperature shutdowns, derating beyond the manufacturer's declared performance limits, or deterioration of					



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2	compressed-air capacity and pressure. - The compressor shall maintain the specified Free Air Delivery (FAD)<(>,<)> discharge pressure, efficiency and operating performance throughout the complete specified temperature range. Selection of the compressor shall incorporate adequate design margin for Karachi's hot climatic conditions. - The compressor shall be equipped with suitably sized cooling systems <(>,<)> air/oil coolers, ventilation arrangements, temperature protection and other accessories necessary for reliable operation at the specified maximum temperature. Equipment requiring special/high-ambient modifications to achieve the specified operating conditions shall be supplied with such modifications as part of the scope of supply<(>,<)> without compromising the guaranteed performance. - The compressor shall be suitable for the site's humid and coastal environment. Materials, coatings<(>,<)> electrical components, cooling system and other exposed components shall be appropriately selected/protected against high humidity, condensation and corrosive coastal atmosphere. <u>Air Dryer (upto 200 lit / sec)</u> <u>LMPA</u> <u>EA</u> <u>(Blending)</u> MINIMUM TECHNICAL SPECIFICATIONS (Refrigerant Compressed Air Dryer): Dryer Type: - Refrigerant (refrigeration) type compressed air dryer, fully automatic, compact, designed for straightforward installation. Capacity: - Minimum 200 l/s air treatment capacity at nominal working conditions (7 bar(g) working pressure, 25°C ambient, 35°C inlet temperature reference conditions, or equivalent stated basis), sized to match/exceed the offered compressor's full rated FAD. Pressure Dew Point (PDP): - Stable pressure dew point of 3#5°C.			1		



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	Heat Exchanger: - High-efficiency combined air/air and air/refrigerant heat exchanger design, for high thermal exchange with low load losses. Hot Gas Bypass Valve: - Fitted, to maintain refrigeration capacity across all load conditions and prevent evaporator freezing. - Condensate Drainage Dual timer and float-type drain (or equivalent no-loss drain technology) to ensure proper, reliable condensate removal. Refrigerant, Compressor & Protection: - Electrically driven refrigerant compressor with high-pressure and start-up protection. Controller: - Digital controller with LCD display showing pressure dew point indication and main on/off control. Delivered Air Quality: - Capable of delivering air quality consistent with ISO 8573-1 Class 4 (or better) for particle size, pressure dew point(>,<)> and oil content, when used in conjunction with the specified filtration. Power Supply: - 230V, single phase, 50Hz. Refrigerant: - Environmentally responsible refrigerant with zero ozone-depletion potential (e.g.<(>,<)> R134a/R410A or equivalent low-GWP alternative); bidder to state refrigerant type used. Pressure Drop: - Should not be greater than 0.3 bar. Maximum Working Pressure:					



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3	- Upto 12 bar atleast. Note: Air Dryer # Environmental and Humidity Requirements: - The compressed-air dryer supplied with the compressor shall be specifically selected and rated for installation and continuous operation in the hot, humid and coastal environment of the Keamari Port, Karachi, where ambient relative humidity can frequently approach 90% RH and the equipment may be exposed to moisture-laden and saline coastal air. - The dryer shall be capable of achieving and maintaining the specified Pressure Dew Point (PDP) under the maximum design conditions of the installation, including high ambient temperature and up to 90% relative humidity, without unacceptable loss of capacity, excessive pressure drop, nuisance tripping or degradation of drying performance. The supplier shall state the guaranteed PDP, rated capacity and pressure drop at the applicable maximum inlet-air temperature, ambient temperature and humidity conditions. - The dryer and all associated components, including heat exchangers<(>,<)> condenser, fans, coils<(>,<)> controls, electrical components, drains and exposed metallic parts, shall be suitably designed/protected for high-humidity and coastal/saline atmospheric conditions to prevent premature corrosion, electrical deterioration and reduction in service life. Suitable anti-corrosion treatment/coating, corrosion-resistant materials and electrical protection shall be provided wherever required. - The dryer shall be designed for long-term, reliable continuous operation under the above environmental conditions, with no special environmental restrictions that would prevent normal operation at the installation location. Any high-ambient, tropical, marine/coastal or corrosion-protection package required to meet these requirements shall be included in the supplier's scope. <u>Air Filter for Rotary Screw Compressor</u> Supply and installation of complete Air Filter set with all necessary connections and differential pressure gauge for installation at LMP-A.	LMPA (Blending)	EA	1		



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4	Should be compatible with quoted compressor. MINIMUM TECHNICAL SPECIFICATIONS (Air Filtration): Filtration Configuration: - Combined pre-filtration and post-filtration assembly (upstream of and/or integrated with the dryer, as per the OEM's standard configuration for this duty), for removal of particulates, oil aerosols and oil vapour to protect downstream equipment and product quality. - Maximum allowable oil carry-over (mg/m³): 0.0015 - Given if Inlet oil concentration = 10 mg/m³ where Oil = oil aerosol and liquid. Sizing: - Sized to match/exceed the full rated FAD (atleast 1.25x of FAD) of the offered compressor without excessive pressure drop; bidder to state the rated pressure drop at full flow. Filter Elements: - OEM-genuine filter elements with clearly stated service/replacement intervals. Pipe SS 1 1/2"dia - Supply of SS 304L 1.5 inch piping for 10 bar compressed-air distribution system, including all fittings<(>,<)> accessories, supports and hangers required for a complete, safe and leak-free installation. The piping shall comply with ASTM A312 TP304L and ASME B36.19M, with fittings conforming to applicable ASME B16 standards. The following piping sizes and schedules shall be provided: - 1.5 inch NB # SS 304L, Schedule 10S. Note: The quoted unit rate per metre shall be inclusive of all necessary SS	LMPA (Blending)	M	78		



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5	fittings and accessories, including but not limited to unions, tees<(>,<)> elbows, reducers, couplings, nipples, valve connection arrangements <(>,<)> flanges where required, gaskets, nuts, bolts and other items necessary for completing the piping system. All fittings shall be of compatible SS material and suitable for the specified operating pressure. - The quoted rate shall also include all required pipe supports, hangers <(>,<)> clamps, brackets, guides and associated installation hardware. No separate payment shall be made for fittings, accessories, supports or hangers. - Bidders shall conduct a site visit prior to bidding to ascertain the expected routing/path of the piping<(>,<)> tie-in points, elevations, bends and the anticipated quantity and type of fittings, supports and hangers. - The bidder shall appropriately account for these requirements in the quoted unit rate per metre for each piping size. - Payment shall be made solely on the actual measured and accepted length of piping, separately for each specified diameter. The unit rates shall be deemed fully inclusive of all fittings, accessories<(>,<)> supports/hangers and incidental materials required for a complete installation, and no separate claim for such items shall be entertained. - All piping and associated components shall be new and unused and supported by relevant Material Test Certificates (MTCs). Upon completion, the system shall be subjected to an appropriate pressure/leak test and shall be demonstrated to be leak-free and suitable for safe operation at a minimum working pressure of 8 bar. Pipe SS 1"dia Supply of SS 304L 1-inch piping for 10 bar compressed-air distribution system, including all fittings, accessories, supports and hangers required for a complete, safe and leak-free installation. The piping shall comply with ASTM A312 TP304L and ASME B36.19M, with fittings conforming to applicable ASME B16 standards. The following piping sizes and schedules shall be provided:	LMPA (Blending)	M	150		



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6	- 1 inch NB # SS 304L, Schedule 10S. Note: - The quoted unit rate per metre shall be inclusive of all necessary SS fittings and accessories<(>,<)> including but not limited to unions, tees<(>,<)> elbows, reducers, couplings, nipples, valve connection arrangements<(>,<)> flanges where required, gaskets, nuts, bolts and other items necessary for completing the piping system. All fittings shall be of compatible SS material and suitable for the specified operating pressure. - The quoted rate shall also include all required pipe supports, hangers <(>,<)> clamps, brackets, guides and associated installation hardware. No separate payment shall be made for fittings, accessories<(>,<)> supports or hangers. - Bidders shall conduct a site visit prior to bidding to ascertain the expected routing/path of the piping, tie-in points, elevations, bends and the anticipated quantity and type of fittings<(>,<)> supports and hangers. - The bidder shall appropriately account for these requirements in the quoted unit rate per metre for each piping size. - Payment shall be made solely on the actual measured and accepted length of piping, separately for each specified diameter. The unit rates shall be deemed fully inclusive of all fittings<(>,<)> accessories, supports/hangers and incidental materials required for a complete installation, and no separate claim for such items shall be entertained. - All piping and associated components shall be new and unused and supported by relevant Material Test Certificates (MTCs). Upon completion, the system shall be subjected to an appropriate pressure/leak test and shall be demonstrated to be leak-free and suitable for safe operation at a minimum working pressure of 8 bar. Pipe SS 1/2"dia Supply of SS 304L 1/2-inch piping for 10 bar compressed-air distribution system, including all fittings<(>,<)> accessories, supports and hangers required for a complete, safe and leak-free installation. The piping	LMPA (Blending)	M	48		



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7	shall comply with ASTM A312 TP304L and ASME B36.19M, with fittings conforming to applicable ASME B16 standards. The following piping sizes and schedules shall be provided: - 1/2 inch NB # SS 304L, Schedule 10S. Note: - The quoted unit rate per metre shall be inclusive of all necessary SS fittings and accessories(>,<) including but not limited to unions, tees(>,<) elbows, reducers, couplings, nipples, valve connection arrangements(>,<) flanges where required, gaskets, nuts, bolts and other items necessary for completing the piping system. All fittings shall be of compatible SS material and suitable for the specified operating pressure. - The quoted rate shall also include all required pipe supports, hangers (>,<) clamps, brackets, guides and associated installation hardware. No separate payment shall be made for fittings, accessories, supports or hangers. - Bidders shall conduct a site visit prior to bidding to ascertain the expected routing/path of the piping, tie-in points, elevations, bends and the anticipated quantity and type of fittings, supports and hangers. - The bidder shall appropriately account for these requirements in the quoted unit rate per metre for each piping size. - Payment shall be made solely on the actual measured and accepted length of piping, separately for each specified diameter. The unit rates shall be deemed fully inclusive of all fittings, accessories(>,<) supports/hangers and incidental materials required for a complete installation, and no separate claim for such items shall be entertained. - All piping and associated components shall be new and unused and supported by relevant Material Test Certificates (MTCs). Upon completion, the system shall be subjected to an appropriate pressure/leak test and shall be demonstrated to be leak-free and suitable for safe operation at a minimum working pressure of 8 bar. Ball Valve 1½"dia	LMPA (Blending)	EA	8		



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	Supply of Stainless-Steel (SS) Ball Valves of size 1.5 inch for installation on the plant compressed-air distribution system operating at approximately 8 bar working pressure. The valves shall be suitable for compressed-air service and shall be of industrial quality<(>,<)> complete with all necessary accessories and fittings required for proper installation. Technical Requirements: - Valve body and wetted/internal components shall be of SS 304 minimum <(>,<)> with SS 316 preferred where required by the application. The bidder shall clearly state the material grade offered. - Valves shall comply with applicable internationally recognized standards, including ASME B16.34 for valve design/pressure-temperature requirements and ISO 5208 / API 598 for pressure and leakage testing, as applicable. - Valve end connections shall be BSP/NPT threaded or flanged, as required at the time of installation. Where threaded connections are required<(>,<)> threads shall conform to the applicable ASME B1.20.1 (NPT) or ISO 7-1 (BSP) standard. - Valves shall be full-port, two-piece or three-piece ball valves<(>,<)> suitable for a minimum pressure rating of 10 bar at the applicable operating temperature, with a preferred pressure class of PN16 / Class 150 or higher. - Ball and stem shall be SS construction, with suitable non-metallic seats and seals compatible with compressed-air service. PTFE seats/seals shall be acceptable unless otherwise specified. - Valves shall be manual lever-operated, with a positive locking arrangement where available. - Each valve shall be supplied with manufacturer's identification, size <(>,<)> material grade, pressure rating and applicable standard markings. Accessories & Installation Fittings: - The quoted supply shall include all fittings and accessories necessary for installation and commissioning of the valves, wherever applicable<(>,<)>					



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Please quote your best price for all items of following specifications. Please read the instructions attached herewith Rs. _____ EARNEST MONEY Fix %
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Title: Supply, Installation and Commissioning of Rotary Screw Air Compressor and Dryers at PSO LMPA.

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
8	,<> including but not limited to unions<(>,<)> nipples, reducers/adaptors<(>,<)> flanges, gaskets, bolts, nuts, washers and other required connection hardware. Such items shall be of compatible material and pressure rating. The cost of all such necessary accessories shall be deemed included in the quoted valve price. Inspection & Acceptance: - All valves shall be new, unused and free from manufacturing defects. PSO reserves the right to inspect and/or test the supplied valves for dimensional conformity, material<(>,<)> workmanship, pressure rating and leakage prior to acceptance. The supplier shall provide manufacturer's test certificate/material certificate where requested by PSO. Quantity & Payment: - The required quantities shall be as per the Purchase Order. Payment shall be made strictly against the actual number of valves supplied as per requirement, irrespective of the quantities mentioned in the PO. No payment shall be made for valves over and above requirement. Ball Valve 1"dia Supply of Stainless-Steel (SS) Ball Valves of size 1 inch for installation on the plant compressed-air distribution system operating at approximately 8 bar working pressure. The valves shall be suitable for compressed-air service and shall be of industrial quality, complete with all necessary accessories and fittings required for proper installation. Technical Requirements: - Valve body and wetted/internal components shall be of SS 304 minimum <(>,<)> with SS 316 preferred where required by the application. The bidder shall clearly state the material grade offered. - Valves shall comply with applicable internationally recognized standards, including ASME B16.34 for valve design/pressure-temperature requirements and ISO 5208 / API 598 for pressure and leakage testing, as applicable.	LMPA (Blending)	EA	6		



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REQUEST FOR QUOTATION

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SAP No.6100018161

Company PSO Dummy Vendor
PAKISTAN

QUOTATION REQUIRED

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25.09.2026

BY
(Time)

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Title: Supply, Installation and Commissioning of Rotary Screw Air Compressor and Dryers at PSO LMPA.

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	- Valve end connections shall be BSP/NPT threaded or flanged, as required at the time of installation. Where threaded connections are required(>,<) threads shall conform to the applicable ASME B1.20.1 (NPT) or ISO 7-1 (BSP) standard. - Valves shall be full-port, two-piece or three-piece ball valves(>,<) suitable for a minimum pressure rating of 10 bar at the applicable operating temperature, with a preferred pressure class of PN16/Class 150 or higher. - Ball and stem shall be SS construction, with suitable non-metallic seats and seals compatible with compressed-air service. PTFE seats/seals shall be acceptable unless otherwise specified. - Valves shall be manual lever-operated, with a positive locking arrangement where available. - Each valve shall be supplied with manufacturer's identification, size (>,<) material grade, pressure rating and applicable standard markings. Accessories & Installation Fittings: - The quoted supply shall include all fittings and accessories necessary for installation and commissioning of the valves, wherever applicable(>,<) including but not limited to unions, nipples(>,<) reducers/adaptors(>,<) flanges, gaskets, bolts, nuts, washers and other required connection hardware. Such items shall be of compatible material and pressure rating. The cost of all such necessary accessories shall be deemed included in the quoted valve price. Inspection & Acceptance: - All valves shall be new, unused and free from manufacturing defects. PSO reserves the right to inspect and/or test the supplied valves for dimensional conformity, material, workmanship(>,<) pressure rating and leakage prior to acceptance. The supplier shall provide manufacturer's test certificate/material certificate where requested by PSO. Quantity & Payment: - The required quantities shall be as per the Purchase Order. Payment					



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
9	shall be made strictly against the actual number of valves supplied as per requirement, irrespective of the quantities mentioned in the PO. No payment shall be made for valves over and above requirement. Ball Valve 1/2"dia Supply of Stainless-Steel (SS) Ball Valves of size 1/2 inch for installation on the plant compressed-air distribution system operating at approximately 8 bar working pressure. The valves shall be suitable for compressed-air service and shall be of industrial quality, complete with all necessary accessories and fittings required for proper installation. Technical Requirements: - Valve body and wetted/internal components shall be of SS 304 minimum <(>,<)> with SS 316 preferred where required by the application. The bidder shall clearly state the material grade offered. - Valves shall comply with applicable internationally recognized standards, including ASME B16.34 for valve design/pressure-temperature requirements and ISO 5208 / API 598 for pressure and leakage testing, as applicable. - Valve end connections shall be BSP/NPT threaded or flanged, as required at the time of installation. Where threaded connections are required<(>,<)> threads shall conform to the applicable ASME B1.20.1 (NPT) or ISO 7-1 (BSP) standard. - Valves shall be full-port, two-piece or three-piece ball valves<(>,<)> suitable for a minimum pressure rating of 10 bar at the applicable operating temperature, with a preferred pressure class of PN16 / Class 150 or higher. - Ball and stem shall be SS construction, with suitable non-metallic seats and seals compatible with compressed-air service. PTFE seats/seals shall be acceptable unless otherwise specified. - Valves shall be manual lever-operated, with a positive locking arrangement where available. - Each valve shall be supplied with manufacturer's identification, size <(>,<)> material grade, pressure rating and applicable standard	LMPA (Blending)	EA	8		



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10	markings. Accessories & Installation Fittings: - The quoted supply shall include all fittings and accessories necessary for installation and commissioning of the valves, wherever applicable<(> ,<(> including but not limited to unions, nipples, reducers/adaptors<(> ,<(> flanges<(> ,<(> gaskets, bolts, nuts, washers and other required connection hardware. Such items shall be of compatible material and pressure rating. The cost of all such necessary accessories shall be deemed included in the quoted valve price. Inspection & Acceptance: - All valves shall be new, unused and free from manufacturing defects. PSO reserves the right to inspect and/or test the supplied valves for dimensional conformity, material, workmanship, pressure rating and leakage prior to acceptance. The supplier shall provide manufacturer's test certificate/material certificate where requested by PSO. Quantity & Payment: - The required quantities shall be as per the Purchase Order. Payment shall be made strictly against the actual number of valves supplied as per requirement, irrespective of the quantities mentioned in the PO. No payment shall be made for valves over and above requirement. <u>Cable 4 C-25 sq.mm PVC/PVC</u> - Cable: 4-Core × 25 mm² Copper. - Conductor: Copper, stranded. - Insulation: XLPE/PVC or equivalent industrial-grade insulation. - Voltage rating: 0.6/1 kV. - Cores: 3 Phase + Neutral. - Conductor size: 25 mm² per core. - Cable shall be suitable for continuous industrial duty and the site installation environment. - Approximate cable route length: 100 ft (30.5 m) from electrical panel to compressor.	LMPA (Blending)	M	40		



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11	- Cable shall be supplied complete with suitable glands, copper lugs<(> ,<(> ferrules, cable markers and termination accessories. - Make: Pakistan Cables or equivalent. - Payment shall be made based on actual installation requirement. <u>Cable 4 C-6 sq.mm PVC/PVC</u> - Cable: 4-Core × 6 mm² Copper - Conductor: Copper, stranded - Insulation: XLPE/PVC or equivalent industrial-grade insulation - Voltage rating: 0.6/1 kV - Conductor size: 6 mm² per core - Cable shall be suitable for continuous industrial duty and the site installation environment. - Approximate cable route length: 100 ft (30.5 m) from electrical panel to dryer. - Cable shall be supplied complete with suitable glands, copper lugs<(> ,<(> ferrules, cable markers and termination accessories. - Make: Pakistan Cables or equivalent. - Payment shall be made based on actual installation requirement.	<u>LMPA</u> <u>(Blending)</u>	<u>M</u>	40		
12	<u>MCCB 100 A, 25 KA TP</u> - Rating: 100 A. - Poles: 4-Pole. - System voltage: 400/415 V AC. - Frequency: 50 Hz. - Type: Moulded Case Circuit Breaker (MCCB). - Breaking capacity: Minimum 25 kA at 400/415 V AC. - Ics: Preferably #75% of Icu. - Thermal and magnetic/adjustable protection as applicable. - MCCB shall be suitable for the compressor VSD application and coordinated with the manufacturer's recommended protection. - MCCB shall be installed in the main electrical panel. - Provide suitable cable termination and connection accessories. - Make: Schneider or equivalent.	<u>LMPA</u> <u>(Blending)</u>	<u>EA</u>	1		
13	<u>Circuit Breaker 32AMP 3 Pole (Hager) Fra</u>	<u>LMPA</u>	<u>EA</u>	1		



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14	(Blending) - Rating: 32 A. - Poles: 3-Pole. - System voltage: 400/415 V AC. - Frequency: 50 Hz. - Type: Moulded Case Circuit Breaker (MCCB). - Breaking capacity: Minimum 25 kA at 400/415 V AC. - Ics: Preferably #75% of Icu. - Thermal and magnetic protection suitable for the dryer. - MCCB shall be installed in the main electrical panel. - Provide suitable cable termination and connection accessories. - Make: Schneider or equivalent. <u>Instal, Comm. Test., of Compressor</u>	PSO House		1		
14.01	<u>Overall commissioning of system</u> Installation Site: - PSO's Lubricants Manufacturing Plant # A (LMP-A), Karachi<(>,<)> Pakistan. Point of Use: - LMP-A lube filling machines and associated pneumatic/process equipment <(>,<)> and Boiler. Available Electrical Supply: - 380#415V three phase, 50Hz for the compressor; 220#240V single phase, 50Hz for the dryer (to be confirmed at site survey). Piping Scope: - From the compressor package (compressor, dryer, filters) through to the common compressed air tank / header<(>,<)> including all necessary isolation valves, pressure gauges, drain points, and safety devices. Ambient Conditions: - Industrial plant environment; ambient temperature approx. 20#45°C; bidder to confirm offered equipment's maximum-ambient-temperature rating		JOB			



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	covers site conditions Foundation / Floor Loading: - To be confirmed at site survey; any civil/foundation work identified as necessary shall be carried out by the bidder in its technical proposal. The material associated with the civil work is included in scope. Existing Compressed Air System: - To be confirmed at site survey; bidder to advise on any tie-in(>,<)> isolation, or temporary-supply arrangement needed to avoid production interruption during changeover/installation. Piping, Installation Materials & Site Integration: - Full mechanical integration of the compressor package with LMP-A's existing infrastructure and the point of use is a mandatory part of the scope. - Bidders shall account for the following in their proposal, and shall confirm compatibility in the Compliance Sheet: # All piping from the compressor package (compressor, dryer, filters) to the point of use at the LMP-A filling machines and Boiler shall be in stainless steel (SS 304 or equivalent) construction, complete with all necessary fittings, supports/hangers, isolation valves, pressure gauges <(>,<)> drain/condensate points, and safety relief provisions. Note: - The cost of piping is to be quoted against the respective dedicated line item for it. - The cost of any necessary supports / hangers are also included under this line item. # Piping shall be sized by the bidder based on the offered compressor's rated FAD and the confirmed pipe run/routing at site survey, to keep system pressure drop within acceptable limits (bidder to state design pressure-drop basis). # All welding, jointing, and pressure testing (e.g., hydrostatic or pneumatic pressure test) of the installed piping shall be carried out to					



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	a recognized piping code/standard, with test results documented and provided to PSO prior to commissioning. # Bidders shall conduct a pre-bid site visit to LMP-A to confirm exact pipe routing, tie-in points, structural supports, and any interface with existing plant piping/utilities, prior to finalizing their technical and financial proposals. Installation, Commissioning & Testing: - Installation, piping integration, commissioning, and testing of the compressor package form a mandatory part of the scope of supply and shall be delivered by the Bidder's own personnel and/or its authorized local vendor/representative in Pakistan. Pre-Installation & Site Preparation: - The Bidder shall provide a site-preparation checklist (electrical supply requirements, foundation/floor loading, space envelope, pipe routing, tools/consumables needed from PSO, if any) at least two (02) weeks prior to the planned installation date, to allow PSO to prepare the site. # The Bidder shall confirm, in writing, final agreed piping routing and tie-in points at the point of use(>,<)> based on its site survey measurements, before piping fabrication/procurement is finalized. Mechanical & Piping Installation: # Mechanical installation, positioning, leveling, anchoring (if required), and assembly of the compressor(>,<)> dryer, and filtration package shall be carried out by the Bidder's installation team or its authorized local agent, without damage to existing LMP-A plant equipment. # All stainless-steel piping, fittings, valves and supports shall be installed, welded/jointed, and pressure tested per a recognized piping code, with documented test results provided to PSO. Electrical Installation: - The scope includes power (feeder) cabling and its associated					



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	containment, termination, protection and earthing. # Electrical wiring and termination at the compressor and dryer, and power connection to the confirmed site supply, shall be carried out by the Bidder's team, in coordination with PSO Engineering/Maintenance. For Air Compressor # 37 kW VSD: - The electrical supply and wiring shall include: # Incoming power cable:#minimum 4C × 25 mm² Cu, XLPE/PVC (to be quoted separately against material item)<(>,<)> subject to final voltage-drop and installation-condition calculations. # Protective device:#MCCB, 100 A, with adjustable protection as applicable and coordinated with the compressor manufacturer's requirements. # Local isolator: Heavy-duty, lockable, suitably rated isolator installed adjacent to the compressor. # Earthing: Dedicated PE/earth connection to the compressor and connection to the plant earth grid. # Cable glands, lugs, ferrules, termination hardware and identification shall be included. # Cable shall be suitable for industrial installation and the applicable ambient temperature/environment. # Final cable and protective-device sizing shall be confirmed against the compressor manufacturer's approved electrical data/nameplate. For Air Dryer # 200 L/s: # Incoming power cable:#minimum 4C × 6 mm² Cu, XLPE/PVC (to be quoted separately against material item)<(>,<)> subject to final dryer nameplate current, voltage drop and installation conditions. # Protective device:#25#32 A MCCB/MCB, or as required by the dryer manufacturer's electrical data. # Local lockable isolator adjacent to the dryer. # Dedicated PE/earthing connection. # Complete cable glands, lugs, ferrules, termination and cable identification. # Final breaker and cable sizing shall be based on the manufacturer's					



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	rated current and starting characteristics. General Electrical Installation Requirements: - The bidder shall include all materials and accessories required for a complete and operational installation<(>,<)> including: # Power cables from the designated electrical distribution panel to each equipment item. (the rate for the power cables and breakers is to be quoted separately against the respective material items provided<(>,<)> rates for installation to be included against this item). # Cable glands and compression fittings. # Cable lugs and termination accessories. # Cable trays/conduits and supports where required. # Local isolators. # Earthing/PE conductors and bonding. # Cable markers and equipment identification. # Termination at both ends. # Testing and commissioning of all electrical connections. - All cables shall be copper conductor, suitably rated for the installation environment, and shall comply with applicable IEC standards. - The contractor/vendor shall verify: # Full-load current. # Short-circuit withstand requirements. # Voltage drop. # Ambient temperature derating. # Cable grouping/installation method. # Protective-device coordination. # Earthing and fault-current requirements. Dry-Run & Pre-Commissioning Checks: # Prior to connecting to the LMP-A distribution piping, the Bidder shall conduct a no-load/light-load dry run of the compressor, dryer, and controller functions, and shall correct any mechanical, electrical, or control deficiencies identified before proceeding to the Site Acceptance Test.					



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	Site Acceptance Test (SAT) / Commissioning: # Following successful dry-run, the Bidder shall carry out a Site Acceptance Test at LMP-A, running the compressor package under actual or simulated load, verifying: (a) rated FAD/capacity at the site's actual working pressure; (b) dryer pressure dew point performance; (c) noise level at 1 m; (d) controller functionality including safety shut-downs and remote-monitoring connectivity; and (e) leak-free, pressure-tested piping delivering air to the air storage tank. # Any performance shortfall identified during SAT against the Technical Compliance Sheet submitted in the Bidder's technical proposal shall be rectified by the Bidder at its own cost prior to sign-off, and the relevant SAT items shall be re-tested. Commissioning Sign-Off: # Commissioning shall be deemed complete only upon joint sign-off of a Commissioning & SAT Completion Certificate by the Bidder's commissioning engineer and PSO's authorized representative. # The commissioning date recorded on the signed Completion Certificate shall serve as the reference start date for the warranty period. Post-Commissioning Support Period: # The Bidder shall provide enhanced on-call support ("hyper-care") for a minimum of two (02) weeks immediately following commissioning sign-off <(>,<) during which the Bidder's local representative shall be available to respond to any operational issues on a priority basis, at no additional cost to PSO, as part of the base warranty scope. Operator & Maintenance Training: - Comprehensive operator and maintenance training is a mandatory part of the scope of supply and shall be included in the base offer. Training shall be conducted on-site at LMP-A, Karachi, immediately following					



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	successful commissioning and SAT sign-off, using the actual installed equipment, covering: # Safe start-up, shutdown, and normal operating procedures for the compressor, dryer, and filtration package. # Controller/HMI operation, including monitoring of key parameters<(>,<,>) alarm/warning recognition, and remote monitoring dashboard use. # Routine preventive maintenance schedule and procedures (filter/element replacement, condensate drain checks<(>,<,>) cooler cleaning) with reference to the O<(>,<,>)M manual. # Basic troubleshooting guidance and criteria for when to escalate to the Bidder's local support. # The Bidder shall propose a training curriculum/agenda and minimum training duration as part of its technical proposal, and shall provide training materials (operator quick-reference guide, maintenance checklist) in English, and in Urdu upon request, in both hard and soft copy. ===== OEM & Manufacturer Qualification Criteria: - Given that compressed air is a critical utility at LMP-A and that equipment failure directly risks production downtime, the following minimum qualification criteria apply to the Original Equipment Manufacturer (OEM) of the offered compressor, in addition to the bidder's own eligibility criteria. These criteria are stated in terms of verifiable engineering pedigree, manufacturing standards, and proven local support capability; any OEM genuinely meeting every criterion below with supporting documentary evidence is eligible to be offered. 1. The OEM shall have a minimum of twenty-five (25) years' continuous experience in the design and manufacture of oil-injected rotary screw air compressors, supported by corporate literature/history. 2. The compressor's screw airend, motor, and controller shall be designed and manufactured in-house by the OEM (i.e., the OEM shall be a genuine original designer/manufacturer of these core components, not a reseller or assembler of third-party-sourced components under its own					



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	badge); bidder to provide OEM technical literature substantiating this. 3. The OEM's manufacturing facility for the offered model shall hold current ISO 9001 (Quality Management) certification at minimum, with ISO 14001 (Environmental Management) and ISO 45001 (Occupational Health & Safety) certification preferred; certificates to be provided. 4. The OEM shall have a minimum global installed base in the thousands of units for the offered VSD/oil injected screw compressor range(>,<) supported by published OEM literature or independent market data. 5. The Bidder shall be the OEM's currently and officially authorized distributor/representative for Pakistan, evidenced by a current, dated Distributor/Dealer Authorization Certificate issued directly by the OEM (or the OEM's regional/country subsidiary), valid for the full bid validity period and the proposed contract/warranty period. 6. The Bidder (as local distributor) shall maintain, within Pakistan, a fully equipped service workshop and a genuine spare-parts warehouse/inventory dedicated to the offered compressor range (not merely a sales/liaison office); bidder to provide the workshop address (>,<) a description of workshop facilities, and evidence of factory-trained resident service engineers/technicians (minimum number and OEM training certification to be stated). 7. The Bidder shall provide a minimum of three (03) installed reference sites within Pakistan, of equal or greater compressor capacity(>,<) commissioned within the last seven (07) years, ideally within the oil(>,<) lubricants, petrochemical, or a similarly critical industrial sector(>,<) with contactable client references; PSO reserves the right to conduct reference checks and/or site visits to verify these installations as part of technical evaluation. Bidders whose offered OEM and/or local distributor arrangement does not meet every criterion above, with full supporting documentary evidence(>,<) shall be declared technically non-responsive at the evaluation stage. Warranty, Service & Support: Warranty Period & Coverage:					



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	LT-19987IA	
DATE	09.09.2026	

REQUEST FOR QUOTATION

(THIS IS PRICE ENQUIRY-NOT AN ORDER)

SAP No.6100018161

Company PSO Dummy Vendor
PAKISTAN

QUOTATION REQUIRED

ON
(Date)

25.09.2026

BY
(Time)

2:15 PM

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

Title: Supply, Installation and Commissioning of Rotary Screw Air Compressor and Dryers at PSO LMPA.

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	# Minimum twelve (12) months standard warranty (parts and labor) from the date of commissioning recorded on the signed Commissioning <(>&<)> SAT Completion Certificate, unless a longer warranty period, or an extended drivetrain/air-end warranty option (e.g., up to 5 years, as offered by several established OEMs), is proposed by the Bidder. # The warranty shall cover parts replacement and labor (including on-site technician time) for any defect in design, material, or workmanship across the compressor, dryer, filtration, controller, and associated installation, and shall exclude only consumables explicitly identified as wear items (e.g., filter elements, oil) and damage due to proven operator misuse. # The warranty shall not mandate the use of strictly OEM brand compressor oils, and any compressor oil of a recognized brand not of OEM make i.e. Shell, Total etc. but of the same grade shall be an acceptable substitute, and would not void the warranty. Warranty Response & Resolution Commitments: # The Bidder shall state, in its technical proposal, its maximum response time (remote diagnostic support and, where required, on-site attendance) for warranty breakdown calls; PSO requires a maximum on-site response time not exceeding 24 hours for critical breakdowns within Karachi (given the critical-utility nature of compressed air), and remote diagnostic response within 24 hours of a fault being reported. Post-Warranty Support, Spares & AMC: # The Bidder shall confirm the availability of an authorized local service/support presence in Pakistan capable of providing genuine OEM spare parts and technical support for a minimum of ten (10) years from the date of supply, consistent with the critical-utility nature of this equipment. # The Bidder shall provide, as part of the technical proposal, a recommended list of critical spare parts (e.g., filter elements, oil<(> ,<)> sensors) for the first twelve (12) months of operation, and shall separately offer optional Annual Maintenance Contract (AMC)/Preventive Maintenance Contract for the post-warranty period, for PSO's future					



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	reference. Documentation to be Supplied with the Equipment: # Operation & Maintenance (O<(>&<)>M) manual (English), covering compressor, dryer, and filtration package. # Electrical wiring diagrams and technical datasheets for the delivered configuration. # FAD performance table/curve per ISO 1217 (or equivalent) for the offered compressor model, across the working pressure range. # Piping isometric/layout drawing of the as-built installation, and piping pressure-test certificate/report. # Conformity/safety certification(s) applicable to the offered equipment (e.g., CE, PED, or equivalent) for the specific models supplied. # Distributor/Dealer Authorization Certificate from the OEM, and evidence of local workshop/spares inventory. # Warranty certificate and after-sales service contact details. Delivery, Payment & Performance Security: - Delivery lead time Supply, installation and commissioning to be completed within 200 days of Purchase Order issuance. - Payment terms Payment to be made against delivery / completion of respective line items upon submission of invoices as per PSO#s requirement. - Performance security Successful bidder shall furnish a Performance Guarantee (bank guarantee) equivalent to 10% of the contract value<(>,<)> valid until expiry of the warranty period. - Liquidated damages (LD) Where the Bidder fails to deliver, install, or commission within the timeframe agreed in the contract, without a valid reason, Liquidated Damages shall apply at 0.1% of the contract value per day of delay, subject to a maximum of 10% of the contract value, beyond which PSO reserves the right to cancel the order and forfeit the performance guarantee. AMOUNT OF BID SECURITY: - RS. 100,000/-.					