



Pakistan State Oil Company Limited

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

PAGE

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RFQ No	LM-19923YP	
DATE	27.08.2026	

REQUEST FOR QUOTATION

(THIS IS PRICE ENQUIRY-NOT AN ORDER)

SAP No.6100018000

Company PSO Dummy Vendor
PAKISTAN

QUOTATION REQUIRED

ON
(Date)

11.09.2026

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 AND COMMISSIONING OF DRIVE-IN / DRIVE-THROUGH PALLET RACKING SYSTEM
AT SHERSHAH DEPOT WAREHOUSE

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
1	<u>STEEL RACKS</u> SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING OF DRIVE-IN / DRIVE-THROUGH PALLET RACKING SYSTEM AT SHERSHAH DEPOT WAREHOUSE INTRODUCTION AND BACKGROUND: Pakistan State Oil Company Limited (PSO) intends to procure, install , test and commission a Drive-In / Drive-Through Pallet Racking System at its Shershah Depot warehouse to increase palletized storage density and improve inventory handling and safety. This document constitutes the Scope of Work (SOW) and Technical Specification requirements of the pallet-racking. SCOPE OF WORK: At Technical Evaluation Stage: Participating bidders (#Contractor") shall be responsible for the following: 1.,Site survey, verification of as-built warehouse dimensions, floor levelness, column grid, door/entry clearances, roof/truss clear height and any obstructions (fire hydrants, columns, electrical conduits<(>,<)> lighting, ventilation louvers, sprinkler heads, etc.) prior to design finalization. 2.,Submission of Structural design and engineering of the racking system (layout, bay/aisle configuration, frame and beam sizing, load ratings) prepared and certified, based on actual site conditions and the design loads specified herein. 3.,Submission of design, general arrangement (GA) drawings, and structural drawings for review by PSO at the time of technical evaluation. Scope of Work Summary: The successful bidder (#Contractor") shall be responsible, at a minimum , for the following: 1.,Manufacture / procurement of all racking components (uprights/frames, beams, rails, arms/cantilevers, bracing, base plates	<u>Shershah (Depot)</u>	<u>EA</u>	600		



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	, connectors) in accordance with the technical specification and applicable codes in the RFQ. 2.,Supply of all racking components, connecting hardware, safety accessories and consumables required for a complete, functional and code-compliant pallet racking system. 3.,Transportation, delivery, offloading, staging and storage of materials at site. 4.,Complete installation / erection of the racking system including anchoring/bolting to the floor slab, alignment, plumb and level checks , and torque verification of all fasteners. 5.,Supply and installation of all safety accessories, including but not limited to column/upright protectors, end-of-aisle and corner guards , safety pins/locking devices for beams, rack identification and load-capacity signage. 6.,Floor loading verification and any minor civil works (e.g.<(>,<(> grouting, floor patching at anchor points) required for a safe installation. 7.,Load testing / functional verification of the erected racking system prior to handover. 8.,Submission of as-built drawings, load capacity certificates, mill test certificates, inspection/test reports and O<(>&<(>M (Operation <(>&<(> Maintenance) manual. 9.,Training of PSO's warehouse/operations staff on safe loading practices, maximum load limits and routine inspection checklist. 10.,Provision of warranty and after-sales support as specified in the RFQ. SITE PARTICULARS: ” Facility:,,Shershah Depot Warehouse,, Location:,,Shershah, Multan, Punjab, Pakistan,, Building Footprint:(approx.) 97 ft x 57 ft (29.57 m x 17.37 m), approx. 5,529 sq. ft / 513.7 sq. m., Building Type:,,Enclosed Pre-engineered Building warehouse (all sides					



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	enclosed),,, Required Storage System:,,Drive-In / Drive-Through Pallet Racking,, Required Capacity:,,600 pallet positions,, Seismic Zone:,,Contractor to verify and design accordingly,, Floor:,,Existing concrete floor slab, bidder to verify slab thickness , reinforcement and allowable bearing/point-load capacity prior to design finalization,, Note: All dimensions stated above are indicative and based on available records. The Contractor/bidder may carry out an independent site survey and verification of all dimensions, clearances, floor condition and structural parameters prior to submission of the final design and shall be solely responsible for the accuracy of the layout offered. TECHNICAL SPECIFICATIONS: System Description: The system shall be a Drive-In and Drive-Through type pallet racking system, permitting forklift entry into the storage lane for high-density block storage/retrieval on a First-In-First-Out (FIFO) basis, utilizing continuous rails/support rails cantilevered from the upright frames on which pallets are directly supported. Design Basis Pallet and Load Data: Pallet type:,,Plastic pallet, nominal 1100 mm x 1100 mm x 150 mm<(>,<)> approx. 31 kg,, Unit load (weight per pallet):,,Minimum design load of 800 kg gross per pallet position ,, Total required pallet positions:,,600,, Number of pallets deep per lane:,,To be proposed by bidder ,, Racking configuration:,,Drive-in and drive-through lanes, multi-level, height optimized to available clear height of the warehouse Note: 1. First level horizontal load rail will be adjusted in order to					



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	accommodate movement of high-reach truck (high-reach width max: 1190 mm, cab height max: 2215 mm) to move within the drive-in drive through pallet racking without the overhead guard touching the horizontal rail, atleast 2250 mm from ground level. Bay clear entry of drive-in: At least 1290 mm Aisle width: At least > 3 meters to suit the forklift/reach truck type in use at the depot, bidder to confirm turning radius requirements with PSO. ” Structural Components Minimum Requirements: Upright Frames: #, Cold-formed / roll-formed high-tensile structural steel sections, minimum yield strength as per design code, with perforations at standard hole pitch i.e. 50 mm for adjustability of arms/rails. #, Minimum uncoated base metal thickness suited to the design load and height, to be substantiated by structural calculations (not less than 2.0 mm for principal upright members, subject to design verification). #, Diagonal and horizontal bracing to resist lateral(>, <) longitudinal and torsional forces, welded or bolted per manufacturer's standard, verified by calculation. #, Frame height to be optimized to the available clear height of the warehouse roof structure while maintaining minimum code-required clearances to roof trusses, lighting, sprinklers (if any) and safety clearance above the top load level. Support Rails / Arms (Pallet Support Members): #, Continuous rails or cantilever arms bolted to the upright frame , engineered to support the full unit load specified in relevant RFQ Section (800 kg per pallet, minimum) with the required factor of safety. #, Rail/arm connections to be positively locked (bolted and/or pinned) to prevent dislodgement under load or impact. Row Spacers, Bracing and Top/Back Ties: #, Row spacers or continuous row ties between adjacent frame rows to					



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	ensure overall system stability and rigidity, sized and spaced per the structural design. #,,Rear/back ties or continuous rails to be provided at drive-through configurations as necessary to maintain frame-to-frame alignment and out-of-plumb tolerance limits. Base Plates and Floor Fixing: #,,Heavy-duty base plates (minimum thickness to be justified by anchor pull-out and bearing calculations) welded to each upright leg. #,,Mechanical/chemical anchor bolts sized per the manufacturer's / structural engineer's calculation, accounting for uplift, shear and overturning forces, suitable for the actual verified floor slab strength. Safety Accessories: #,,Upright/column protectors at all exposed frame legs and aisle-end frames, capable of absorbing forklift impact without transferring damaging load to the frame. #,,Rack end and corner guards at all pedestrian/vehicle interface points. #,,Positive locking/anti-dislodgement devices (safety pins, clips or bolted connections) on all beams, rails and arms. #,,Load capacity signage/data plates fixed at each bay indicating maximum unit load, maximum bay load and maximum overall system load, in English/Urdu as required. #,,Aisle guide angles / entry guides at drive-in lane entrances to protect frames from forklift impact during entry. Materials and Finish: ” Uprights / Frames:,,Structural cold-formed steel; surface preparation (degreasing, phosphating/shot-blasting) followed by electrostatic powder coating (min. 60#80 microns DFT) or hot-dip galvanization,, Beams / Rails / Arms:,,Structural cold or hot-formed steel; powder-coated finish, high-visibility colour (e.g., safety orange/yellow) for load-bearing members,, Base plates / connectors:,,Welded structural steel, galvanized or painted with corrosion-resistant primer + top coat,,					



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	Fasteners / Anchor bolts:,,Zinc-plated or galvanized high-tensile steel , grade to be certified by mill test certificate,, Column protectors / guards:,,High-visibility safety yellow<(>,<)> impact-resistant steel or polymer as per manufacturer standard,, APPLICABLE CODES, STANDARDS AND REFERENCE DOCUMENTS: The design, manufacture, testing and installation of the racking system shall comply with one, or a recognized combination, of the following (or their locally applicable equivalents), as substantiated in the bidder's technical proposal: #,,FEM 10.2.02 / FEM 10.2.08 # European Federation of Materials Handling: Design of Static Steel Pallet Racking (recommendations for the design of static steel pallet racks). #,,EN 15512 # Steel static storage systems: Adjustable pallet racking systems # Principles for structural design. #,,EN 15620 # Steel static storage systems: Adjustable pallet racking # Tolerances, deformations and clearances. #,,EN 15629 # Steel static storage systems: Specification of storage equipment. #,,EN 15635 # Steel static storage systems: Application and maintenance of storage equipment. #,,RMI (Rack Manufacturers Institute, USA) / ANSI MH16.1 # Specification for the Design, Testing and Utilization of Industrial Steel Storage Racks. #,,SEMA (Storage Equipment Manufacturers' Association, UK) Code of Practice for the design of static steel racking. #,,AS 4084 # Australian Standard for Steel Storage Racking. #,,Building Code of Pakistan (Seismic Provisions) 2007, or the latest applicable revision #,,AISC 360 / AISI S100 # for cold-formed and structural steel member design, where applicable. #,,ASTM A653 / ASTM A1011 (or equivalent) for base steel material specification and coating (galvanization) requirements. #,,ISO 9001 # Quality Management System certification of the manufacturer.					



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	The bidder shall clearly state, in its technical proposal, the specific design code(s) adopted and provide documentary evidence (design calculations, third-party test certificates, or accreditation) of compliance. Where the bidder proposes an equivalent national or international standard not listed above, it shall provide a technical justification demonstrating equivalence in structural safety margins. STRUCTURAL DESIGN AND ENGINEERING REQUIREMENTS: 1.,Design Calculations: The bidder shall submit complete structural design calculations covering upright/frame capacity, beam/rail capacity , base plate and anchor bolt design, and overall frame stability , sealed/certified by a qualified structural engineer. 2.,Load Cases: Design shall account for dead load (self-weight)<(>,<)> live/stored load, dynamic/impact loads from forklift operation, seismic loads applicable to the site's seismic zone, and any wind/other loads as applicable to an enclosed structure. 3.,Factor of Safety (FOS): Minimum factor of safety on yield for primary structural members shall not be less than that prescribed by the adopted design code (typically 1.5#1.65 for steel storage racking under the applicable FEM/RMI/EN provisions); the bidder shall state the FOS applied for each critical member. 4.,Anti-Collapse / Robustness: The system shall be designed such that accidental local overload or removal of a single structural member does not result in progressive/disproportionate collapse of the overall structure, in line with EN 15512 robustness provisions. 5.,Deflection Limits: Beam/rail deflection under full rated load shall not exceed the limit prescribed by the adopted design standard. 6.,Out-of-Plumb / Erection Tolerances: Installed frames shall not exceed the verticality and straightness tolerances specified in EN 15620(or equivalent), typically within h/350 for frame out-of-plumb, to be verified during installation and stated in the as-built survey. 7.,Floor Loading Verification: The Contractor shall verify that the point loads transmitted through base plates and anchors do not exceed the safe bearing capacity of the existing floor slab, and shall propose remedial measures (e.g., load-spreading plates, localized slab					



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	strengthening) if required, subject to PSO approval. 8.,,Rack Load Capacity Signage: Each bay/level shall be permanently marked with the maximum permissible unit load and total bay load, as required by EN 15635 / RMI good-practice guidance. 9.,,Clearances: Minimum vertical clearance above the highest loaded pallet to roof structure, lighting fixtures and (if applicable) sprinkler deflectors shall comply with applicable fire and building safety codes and be confirmed in the design submittal. WARRANTY AND AFTER-SALES SUPPORT: #.,,Minimum warranty period of twelve (12) months from the date of successful commissioning/handover shall be provided against manufacturing/material defects and structural failure under rated load <(>,<)> unless a longer period is offered by the bidder. #.,,The bidder shall confirm availability of spare parts (uprights<(>,<)> beams, rails, connectors, safety accessories) for a minimum period of five (5) years from the date of supply. #.,,The bidder shall state its local service/support capability (branch/workshop presence in Pakistan) for warranty claims, repairs and future system expansion. DELIVERY, INSTALLATION SCHEDULE AND COMPLETION:,, Manufacture / procurement and delivery to site,,140 days from date of approved purchase order / Letter of Intent (LOI),, Installation and erection:,,140 days from date of approved purchase order / Letter of Intent (LOI),, Load testing, inspection and handover:,,140 days from date of approved purchase order / Letter of Intent (LOI),, The bidder shall provide a detailed project execution schedule (bar chart) in its technical proposal, covering design<(>,<)> procurement/manufacturing, delivery, installation and commissioning , culminating in a firm overall completion period from the date of contract/purchase order.					



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2	<u>Instal, Comm. Test., Handover of Racking</u>	<u>Sher Shah</u>				
2.01	<u>Equipment & civil Works</u> INSTALLATION, TESTING AND COMMISSIONING REQUIREMENTS: #,,Installation shall be carried out by trained/certified riggers/installers under the supervision of a qualified site engineer employed or authorized by the Contractor. #,,All components shall be installed strictly per the approved GA and structural drawings; any field deviation shall require written approval from the design engineer and PSO's representative. #,,Floor levelness shall be verified prior to erection; where floor level variance exceeds the design tolerance, the Contractor shall use approved shimming/levelling methods, subject to PSO approval, without compromising base plate bearing. #,,All anchor bolts shall be installed and torqued as per the anchor manufacturer's specification, with torque verification records maintained and submitted. #,,Upon completion, the Contractor shall conduct a full visual and dimensional inspection (plumb, level, alignment, bolt torque, safety accessory installation) and issue an installation completion/inspection checklist countersigned by PSO's representative. #,,A load test / functional verification (e.g., trial loading of representative bays to rated capacity) shall be carried out in the presence of PSO's representative prior to formal handover. #,,Housekeeping: the Contractor shall keep the work area clean and free of debris/offcuts throughout installation and shall remove all packaging material and waste upon completion. Pre-Installation Activities: 1. Site survey and verification of floor load-bearing capacity. 2. Confirm clear heights, fire safety zones, and forklift / high-reach maneuvering space. 3. Marking of racking lanes and base plate positions on the floor. 4. Preparation of staging areas for safe material handling and assembly.	<u>(Depot)</u>	<u>EA</u>	1		



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	Material Handling: - Offloading of racking components at designated site. - Safe internal shifting and storage of materials. - Vendor to provide lifting equipment/tools (forklifts, chain blocks, scissor lifts) as required. Rack Frame Assembly: - Assembly of upright frames with cross bracing at ground level. - Fixing of heavy-duty base plates. - Erection of upright frames and alignment using precision instruments ensuring verticality (distance between upright members at bottom to be same as at the top) Rail & Accessory Installation: Installation of pallet support rails at specified heights within lanes. First level horizontal load rail will be adjusted in order to accommodate movement of high-reach truck within the drive-in drive-through pallet racking without the overhead guard touching the horizontal rail. Installation of row spacers/tie beams for back-to-back rows. Fixing of entry guide rails for forklift alignment. Anchoring of frames securely to the warehouse floor with mechanical/chemical anchors. Installation of safety accessories: column guards, barriers, signage. Alignment & Quality Control: Verification of verticality and horizontal tolerances in line with EN 15620. Torque testing of anchor bolts. Cross-check of lane depth, height clearances, and alignment. Safety During Installation: Work zones to be cordoned off with safety barricades. All personnel equipped with PPE (helmets, harness, shoes, gloves).					



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	QUALITY ASSURANCE, TESTING AND CERTIFICATION: #,,Manufacturer shall hold a valid ISO 9001 Quality Management System certification for design, manufacture and supply of storage racking equipment. #,,Mill test certificates (MTCs) shall be provided for the base steel used in uprights, beams/rails and connectors, confirming chemical composition and mechanical properties. #,,Coating/galvanization thickness test reports shall be provided confirming compliance with the specified minimum coating thickness. #,,Where available, the bidder shall provide independent third-party test/inspection certificates (e.g., SGS, Bureau Veritas, TUV, or an equivalent accredited inspection body) for the racking system's structural type-testing (frame and beam load-deflection tests) in accordance with the adopted design code. #,,PSO reserves the right to depute its own representative or a third-party inspection agency to witness factory inspection (if imported) and/or site installation and load testing, at PSO's discretion and cost, unless otherwise agreed. #,,A Quality Assurance Plan / Inspection and Test Plan (ITP) shall be submitted by the Contractor prior to commencement of fabrication/procurement. HEALTH, SAFETY AND ENVIRONMENT (HSE) REQUIREMENTS: #,,The Contractor shall comply with PSO's site HSE rules and applicable Pakistani occupational health and safety regulations throughout mobilization, installation and commissioning. #,,All installation personnel shall use appropriate personal protective equipment (PPE), safety helmets, safety shoes, gloves, and fall protection where working at height. #,,A site-specific Job Safety Analysis / Method Statement shall be					



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	submitted and approved by PSO prior to commencement of work. #,,Hot works (welding/grinding, if any) shall be subject to PSO's permit-to-work system, given the facility is an oil storage/distribution depot. #,,The Contractor shall maintain adequate insurance (third-party liability, workmen's compensation) for the duration of the works, evidence of which shall be provided prior to mobilization. Training: Provide hands-on training for warehouse staff on: - o Forklift operation inside drive-in/drive-through racks. - o Safe pallet loading/unloading sequence. o<(>,,<)>Maximum load capacity per pallet/lane. - o Periodic inspection routines (upright inspection, anchor check, damaged rail replacement). Final Handover: - o System deemed operational only after written acceptance by PSO representative. - o Warranty period (minimum 12 months) commences upon acceptance, during which contractor shall be liable to replace and install structural members at no additional cost. Bidders are required to visit the site (Shershah Warehouse) before participation in the tender to ascertain all additional works not mentioned here-in but which bidder deems necessary for the smooth complete in all respect installation of the racking. The scope includes the complete in all respect error free installation of the racking, and bidders are to make part of their commercial bid all works identified during their site visit even if not mentioned here-in. Bidders will be required to share a signed and stamped undertaking on letter-head certifying that their commercial bid includes all works for the complete in all respect installation and commissioning of the pallet-racking.					



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Telephone (021) 9203866-85 Fax (021) 9203796

PAGE

13	OF	14
RFQ No	LM-19923YP	
DATE	27.08.2026	

REQUEST FOR QUOTATION

(THIS IS PRICE ENQUIRY-NOT AN ORDER)

SAP No.6100018000

Company PSO Dummy Vendor
PAKISTAN

QUOTATION REQUIRED

ON
(Date)

11.09.2026

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 AND COMMISSIONING OF DRIVE-IN / DRIVE-THROUGH PALLET RACKING SYSTEM
AT SHERSHAH DEPOT WAREHOUSE

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	Terms and Conditions: Security Deposit: Successful bidder shall furnish a Security Deposit equivalent to 10% of the contract value, in the form of a bank guarantee or performance bond. # Security Deposit shall be released only after successful installation , testing, and acceptance of the racking system. Delivery & Installation Timeline: The complete system must be delivered, installed, and commissioned within 140 days of Purchase Order issuance. Delays shall attract liquidated damages at 0.1% of contract value per day of delay, up to a maximum of 10%. Penalties: Failure to meet minimum pallet capacity, safety standards, or structural certification shall result in rejection of system and forfeiture of Security Deposit. Use of substandard material or deviation from approved design without prior consent will attract penalties and possible termination. Events of Default: Events constituting default include: # Failure to deliver within stipulated time. # Failure to comply with technical specifications or safety requirements. # Abandonment of work without completion. In such events, PSO may: # Terminate the contract. # Forfeit Security Deposit. # Procure from alternate vendor at risk and cost of the defaulting party. Warranty & Support: # Minimum 12 months warranty covering materials, manufacturing defects , and installation workmanship. # Vendor must ensure availability of spare parts during the warranty period. Safety & Compliance:					



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	# Vendor shall be responsible for ensuring compliance with site HSE guidelines. # Workers must be insured and provided with PPE. Force Majeure: # Neither party shall be liable for delays due to events beyond reasonable control (natural disasters, strikes, etc.). Import documentation:- In case of imported components / structural members, documentary proof shall be required at the time of delivery certifying they are sourced from the OEM.					