



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-19936YP	
DATE	27.08.2026	

REQUEST FOR QUOTATION

(THIS IS PRICE ENQUIRY-NOT AN ORDER)

SAP No.6100018001

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 Automatic Fiber Laser Coding System and Electromagnetic Induction Cap Sealing at LMPA

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
1	<u>Laser coding Machine</u> Supply, Installation, Testing & Commissioning of an Automatic Online Fiber Laser Coding System for the Lubricants Manufacturing Plant # A (LMP-A) Introduction: Pakistan State Oil Company Limited operates the Lubricants Manufacturing Plant A (LMP-A), where lubricant containers/cans/drums are filled<(>,<)> capped, labelled and packed on an automated production line. The Company intends to procure, supply, install, integrate and commission an Automatic Online Fiber Laser Coding Machine on the LMP-A packing line for permanent, high-speed, non-contact marking of variable production data (batch number, manufacturing date, expiry date, lot/shift code <(>,<)> barcode/QR code, MRP and other variable data) directly onto moving containers/cartons without manual intervention. Bidders are free to offer any equipment/system that meets or exceeds the minimum requirements stated below. Scope of Work (Summary): The scope of work covers, but is not limited to, the following, on a complete in all respect (supply, delivery, installation, integration <(>,<)> testing, commissioning, training and warranty support) basis: 1. Review and site survey of the existing LMP-A packing line to confirm mounting location, line speed, product orientation, available utilities and integration points. 2. Supply of one (01) complete Automatic Fiber Laser Coding/Marking System including laser source, marking/scan head, controller/HMI<(>,<)> mounting/gantry stand, enclosure, cabling and all standard accessories. 3. Supply and installation of all sensors, encoders, interlocks, safety devices and interface hardware necessary to achieve fully automatic <(>,<)> line-synchronized, trigger-based marking as detailed in relevant	<u>LMPA</u> <u>(Blending)</u>	<u>EA</u>	1		



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	section. 4. Mechanical integration (mounting stand/gantry/bracket compatible with the existing conveyor/line without structural modification to critical line components, unless mutually agreed). 5. Electrical integration, including power wiring, control-signal interfacing (I/O, PLC handshake, Ethernet/OPC-UA/Modbus as applicable) with the existing line control panel/PLC where required for automatic start/stop, product-present, and line-speed signals. 6. Fume/dust extraction arrangement at the marking point, if required based on substrate/material being marked, including laser fume extractor and ducting. 7. Site Acceptance Test (SAT), and performance demonstration on actual production samples at rated line speed. 8. Supply of an operation & maintenance (O<(>&<)>M) manual, electrical drawings, spare-parts list, and software backup/configuration files. 9. Training of PSO's operations and maintenance personnel. 10. Warranty support and post-warranty Annual Maintenance Contract (AMC)/spare-parts availability commitment. Existing Line / Site Conditions (Reference Data to Be Confirmed at Site Survey): The following indicative parameters are provided for bidders' reference. Bidders shall conduct a mandatory pre-bid site visit to LMP-A to verify actual conditions and shall size/select equipment accordingly. PSO does not warrant the completeness of the indicative data below; final sizing is the bidder's responsibility. Line / Plant: LMP-A packing/filling line, PSO Lubricants Manufacturing Plant Product / Substrate to be marked: HDPE lubricant containers, cartons and/or shrink-wrapped multi-packs (to be confirmed at site survey) Container types: Various sizes (e.g., 0.7L to 20L containers) and cartons, as running on					



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Title: Supply, Installation, and Commissioning of Automatic Fiber Laser Coding System and Electromagnetic Induction Cap Sealing at LMPA

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	LMP-A Indicative line speed: Up to 40 # 60 containers/min (to be verified at site survey; system shall be sized with adequate margin) Available electrical supply: 220#240V, single phase / 380#415V three phase, 50Hz Ambient conditions: Industrial plant environment; ambient temperature approx. 15#45°C; presence of dust/oil mist Existing line control: PLC-based conveyor/packing line control panel(make/protocol to be confirmed at site survey) Technical Specifications: Laser Coding/Marking Unit: The following are the minimum functional and performance requirements. Equivalent or superior specifications are acceptable and encouraged. Bidders must complete the Technical Compliance Sheet (Annexure A) against each parameter. Marking technology: Fiber laser marking (non-contact, maintenance-free laser source); Laser source rated power: Minimum 20W; recommended 30#50W fiber laser source (bidder to justify power rating based on substrate, line speed and character size) Laser wavelength: Approx. 1064 nm (fiber) or as appropriate to offered technology Marking/scanning method: High-precision 2D galvanometer scanning Marking speed: Minimum 7,000 mm/s; higher preferred, sufficient to mark full variable data (batch/mfg/exp/barcode) within available dwell time at rated line speed without missed prints Marking field (standard): Minimum 100 mm × 100 mm at working distance; larger/optional field lens acceptable					



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	Marking content capability: Alphanumeric text, date/time (dynamic<(>,<)> real-time clock based), batch/lot codes, sequential/running numbers, 1D barcodes (Code39, Code128, EAN/UPC) and 2D codes (QR, Data Matrix/ECC200), logos and graphics Character size range: Adjustable, minimum 0.3 mm to 15 mm (or wider) to suit label/container size Positioning / focusing aid: Red-light pointer/guide for positioning and mounting alignment; auto or manual focus arrangement Casing / housing: Industrial-grade, dust/oil-mist resistant enclosure (minimum protection rating IP54 for marking head recommended) suitable for the plant environment Cooling system: Air-cooled standard; water-cooled shall not be acceptable. Controller / HMI: Industrial controller with touchscreen HMI (minimum 7-inch, 10-inch preferred) supporting local editing of print templates , without requiring a separate PC for routine operation. Operating/embedded software: Field-proven industrial control software(e.g., Linux-based or equivalent industrial OS); user-editable print job/template management; password-protected access levels (operator/supervisor/admin). The laser-coding machine shall have requisite connectivity arrangement through Ethernet / Wi-fi / IP with external PCs and devices, with straight-forward print commands through external devices. Control system upgrades back-up and support till at least 10 years after installation shall be required. Contractor shall provide PSO with the necessary PLC software intellectual rights and admin passwords including the Operator and maintenance level password (if any). All level passwords should be handed over to PSO at the time of SAT. The software should preferably be open-source, easily configurable for future integration purposes. File / data format support: Support for standard vector/print formats (e.g., PLT, DXF, or equivalent) and ability to import variable data (date/time, counters) automatically without manual daily entry Communication interfaces: Minimum: USB 2.0/3.0 for local data transfer					



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	and for input devices i.e. mouse; digital I/O for trigger/encoder/interlock signals; industrial Ethernet (TCP/IP) port for remote monitoring/diagnostics and future MES/ERP/3rd party software integration Power supply: 220#240V AC $\pm 10\%$, 50Hz single phase (or as per site supply confirmed at survey); maximum power consumption to be stated by bidder Operating environment rating: Suitable for continuous industrial operation across 0#45°C ambient and typical plant humidity/dust levels Mounting: Adjustable mobile/fixed stand or gantry-mount compatible with line geometry, with fine XYZ and tilt adjustment for beam alignment; on lockable castors or fixed base as per site survey outcome. Duty cycle: Continuous duty rated for multi-shift (minimum 16#24 hours/day) industrial operation Laser safety classification: Enclosed/Class 1 (eye-safe) laser safety housing at point of operator interface, in compliance with IEC 60825-1 (or equivalent), with safety interlocks per relevant Section Automation & Sensor Requirements for Fully Automatic Inline Operation: The offered system shall operate in a fully automatic, hands-free mode once commissioned i.e., it shall detect each container/pack as it arrives at the marking station and print automatically, in synchronization with the moving line, without an operator triggering each cycle manually. The following sensing/control elements may be required for the fully automatic operation of the laser-coding machine (or shall be justified as not applicable, with technical reasoning, in the Technical Compliance Statement): Product Detection / Trigger Sensor: # Photoelectric (diffuse-reflective, retro-reflective or through-beam , as appropriate to container material/finish) or inductive/capacitive proximity sensor to detect presence of each container/pack at the marking zone and generate a trigger pulse to initiate the print cycle automatically. # Sensor response time and mounting shall be compatible with the					



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	confirmed line speed to ensure a missed-detection rate of effectively nil under normal operation. # Sensor shall be industrially rated (minimum IP65) and positioned/adjustable to reliably detect varying container heights/sizes run on the line, or bidder shall propose multiple/adjustable sensor sets for different SKUs. Line-Speed Synchronization (Encoder Input): # Provision for a shaft/rotary encoder input (supplied and installed by the bidder, mechanically coupled to the conveyor/line drive) to allow the controller to synchronize the marking (especially for moving/on-the-fly marking) with actual, variable line speed, preventing distorted or smeared codes during speed fluctuations. # Alternatively, for static/dwell marking stations, a stop-mark-release mechanism synchronized with an upstream sensor and, if required, a pneumatic/mechanical stop-gate, shall be proposed # bidder to state which marking mode (on-the-fly vs. stop-and-mark) is offered and why , based on the confirmed line speed and container spacing. Product/Size Change-Over Sensing: # Where LMP-A runs multiple container sizes/SKUs, the system shall support automatic or quick-changeover recipe selection (e.g., via barcode scan of the job card, HMI recipe selection, or an SKU-detection sensor) linked to the correct print template, to prevent wrong-code application. Fume/Dust Extraction Interlock (if applicable): # If a fume extractor is required for the substrate being marked, its running status shall be interlocked with the laser i.e., the laser shall not fire (or shall alarm) if the extractor is not running, for operator safety. Safety Sensors/Guarding: # Light curtain, safety door switch, or equivalent guarding sensor at the operator-accessible side of the marking enclosure, interlocked to					



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	disable/attenuate the laser beam if the enclosure is opened during operation, in addition to the inherent Class-1 enclosed beam path requirement in relevant section. Software, Data & Connectivity Requirements: # Local HMI-based template design and editing (no dependency on a separate laptop/PC required for daily operation) with user access levels (Operator / Supervisor / Administrator). # Automatic real-time date/time/shift-code generation without manual daily update by the operator (system RTC based), with provision for the administrator to program date-offset logic (e.g., expiry = manufacturing date + X months) automatically. # Password-protected template/recipe library to prevent unauthorized changes to approved artwork/coding formats. # Multi-language support including English (minimum); additional languages as available from the offered platform. # Ethernet/TCP-IP connectivity for remote diagnostics, print-log retrieval, and future integration with PSO's plant network / MES / SCADA / ERP (SAP or equivalent)/ 3rd party softwares i.e. Track and Trace etc. for production data traceability, without obligating PSO to any specific future integration under this RFQ. # Production/print log storage (minimum last 30 days or as offered) retrievable for quality traceability and audit purposes. Safety, Health, Environment & Standards Compliance: # The offered system shall comply with IEC 60825-1 (or equivalent international standard) for laser product safety, and shall be supplied with a valid CE, UL, or equivalent internationally recognized conformity certification. # Electrical design/wiring shall conform to IEC/NEC or equivalent applicable electrical safety standards; all electrical enclosures shall be suitably rated for the plant's hazardous/non-hazardous area classification (bidder to confirm area classification requirement with PSO HSE at site survey; if LMP-A marking location falls within a classified hazardous area, ATEX/IECEx-certified equipment shall be					



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	offered). # Fume extraction (if applicable) shall be compliant with applicable environmental/occupational exposure limits for fumes generated from the specific substrate being marked. # Noise levels of the complete system shall not exceed applicable occupational noise exposure limits. # Bidder shall provide Material Safety Data Sheet(s) for any consumables (e.g., extractor filters) proposed. Installation, Testing & Commissioning: 1. Successful bidder shall conduct detailed engineering survey/measurements at LMP-A prior to finalizing mounting design, in coordination with PSO Engineering/Maintenance. 2. Installation shall include all mechanical mounting, electrical wiring, sensor/encoder installation, safety interlocking and network/PLC interfacing described in relevant sections, without damage to existing line equipment. 3. Site Acceptance Test (SAT) shall be conducted jointly with PSO's nominated representatives, demonstrating: (a) automatic detection and marking of containers at rated line speed with zero manual triggering; (b) code legibility/verification; (c) safety interlock functionality (guarding, extractor interlock); 4. A minimum continuous trial run (e.g., 4#8 hours, or as mutually agreed) on live production shall be conducted to demonstrate reliability before final acceptance sign-off. 5. Any deficiencies identified during SAT/trial run shall be rectified by the bidder at its own cost prior to final acceptance. Training: # Comprehensive on-site training for PSO's operations personnel (routine operation, template selection, minor troubleshooting), minimum for 2 batches/shifts.					



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	# Comprehensive on-site training for PSO's maintenance/technical personnel (preventive maintenance, calibration, basic fault diagnosis , sensor replacement/adjustment, software backup/restore). # Training material (manuals/quick-reference guides), preferably in English and Urdu, to be provided in both hard and soft copy. Warranty: # Minimum one (01) year comprehensive on-site warranty from the date of Site Acceptance/Final Commissioning, covering the laser source<(>,<)> controller, sensors, and all supplied accessories, including free service visits, unless a longer warranty is offered by the bidder. # Warranty response time: bidder to state maximum response time (on-site or remote) for breakdown calls during the warranty period; PSO requires a maximum response time not exceeding 72 hours for on-site critical breakdowns within Pakistan. # Warranty shall exclude only consumables explicitly identified as wear items (if any) and damage due to proven operator misuse, subject to mutual agreement. Spare Parts, After-Sales Support & AMC: # Bidder shall confirm availability of an authorized local service/support presence in Pakistan (own office or authorized service partner) capable of providing spare parts and technical support for a minimum of seven (07) years from the date of supply. # Bidder shall provide, as part of the technical proposal, a recommended list of critical spare parts (as a separate, optional schedule) for PSO's reference/optional procurement. # Bidder shall offer optional Annual Maintenance Contract (AMC) terms for the post-warranty period (for PSO's future reference only; not mandatory to accept at this stage). Documentation to be Supplied with the Equipment: # Operation & Maintenance (O<(>&<)>M) manual (English).					



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2	# Electrical wiring diagrams and I/O list for the delivered configuration. # Sensor/encoder datasheets and wiring schematics. # Software/template configuration backup (soft copy). # Conformity/safety certification(s) (e.g., CE/UL/IEC 60825-1 compliance certificate) for the specific model supplied. # Warranty certificate and after-sales service contact details. Delivery, Payment & Performance Security: Delivery / completion period: Maximum 120 days from date of Purchase Order issuance for delivery to site, plus installation and commissioning, bidder to state firm lead time in the technical/financial proposal Payment terms: 100% payment to be released against delivery<(>,<)> installation and successful Site Acceptance Test (SAT). 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): In case of delay in delivery/completion attributable to the supplier, LD shall be applied at 0.1% of the contract value per day of delay, subject to a maximum cap of 10% of the contract value, beyond which PSO reserves the right to cancel the order and forfeit the performance guarantee, per applicable contract conditions <u>INDUCTION SEALING MACHINE</u> Supply, Installation, Testing <(&<)> Commissioning of an Automatic Electromagnetic Induction Cap Sealing (Foil Sealing) System for the Lubricants Manufacturing Plant # A (LMP-A) Introduction: Pakistan State Oil Company Limited ("PSO" / "the Company" / "the Purchaser") operates the Lubricants Manufacturing Plant # A (LMP-A)	<u>LMPA</u>	<u>EA</u> <u>(Blending)</u>	1		



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	, where lubricant containers are filled and capped on an automated packing line. Following the capping operation, an induction (electromagnetic) foil liner seal must be applied to each container to provide a tamper-evident, leak-proof hermetic seal beneath the cap. The Company intends to procure, supply, install, integrate and commission an Automatic Online Electromagnetic Induction Cap Sealing System on the LMP-A packing line, capable of sealing foil liners on moving containers at production line speed without manual intervention. Scope of Work (Summary): The scope of work covers, but is not limited to, the following, complete in all respect (design, supply, delivery, installation, integration , testing, commissioning, training and warranty support) basis: - Design review and site survey of the existing LMP-A packing line to confirm mounting location (post-capping station), line/conveyor speed , container/cap dimensions, available utilities and integration points. - Supply of one (01) complete Automatic Electromagnetic Induction Cap Sealing System, including induction power generator unit, sealing head/coil assembly, height-adjustable mounting stand/gantry, control panel/HMI, cooling arrangement and all standard accessories. - Supply and installation of all sensors, encoders, interlocks, safety devices and interface hardware necessary to achieve fully automatic , line-synchronized, no-container-no-seal operation as detailed in relevant section of RFQ. - Mechanical integration (mounting stand/gantry/bracket, and conveyor section if included in scope, compatible with the existing LMP-A conveyor without structural modification to critical line components). - Electrical integration, including power wiring. - Cooling arrangement for the induction generator (air-cooled), fully self-contained. - Site Acceptance Test (SAT) and performance demonstration on actual production containers/caps/foil liners at rated line speed, including					



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	seal-integrity verification. 8. Supply of an operation <(>&<)> maintenance (O<(>&<)>M) manual, electrical drawings, spare-parts list, and control/configuration settings documentation. 9. Training of PSO's operations and maintenance personnel. 10. Warranty support and post-warranty Annual Maintenance Contract (AMC)/spare-parts availability commitment. Existing Line / Site Conditions (Reference Data # To Be Confirmed at Site Survey): The following indicative parameters are provided for bidders' reference. Bidders shall conduct a mandatory pre-bid site visit to LMP-A to verify actual conditions and shall size/select equipment accordingly. PSO does not warrant the completeness of the indicative data below; final sizing is the bidder's responsibility. Line / Plant: LMP-A packing/filling line, PSO Lubricants Manufacturing Plant, sealing station located immediately downstream of the capping machine Container/cap types: Various HDPE lubricant containers (indicatively 0.7L to 20L) with induction-lined caps of varying diameter, as running on LMP-A Induction Seal sizes as under: Old design caps: 36.9 mm New Design caps (0.7 L to 10 L): 42.8 mm 20 L pail caps: 56.6 mm Indicative conveyor/line speed Up to 40#60 containers/min or equivalent linear conveyor speed (to be verified at site survey; system shall be sized with adequate margin) Available electrical supply: 220#240V single phase and/or 380#415V three phase, 50Hz (to be confirmed at survey) Cooling water availability: Not available at site, hence water-cooled machines shall not be acceptable					



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	Ambient conditions: Industrial plant environment; ambient temperature approx. 15#45°C; presence of dust/oil mist Technical Specifications Induction Cap Sealing Unit: The following are the minimum functional and performance requirements. Equivalent or superior specifications are acceptable and encouraged. Bidders must complete the Technical Compliance Sheet (Annexure A) against each parameter. Sealing technology: Electromagnetic (solid-state, air-cooled) induction foil sealing; continuous or quench-type/pulsed induction acceptable Power supply: Single phase, 220#240V, 50/60Hz (or three-phase if required by offered power rating), bidder to state actual requirement and confirm compatibility with site supply confirmed at survey Maximum power rating: Minimum 2 kW; recommended 3#5 kW solid-state generator (bidder to justify power rating based on cap/foil liner size , material and line speed) with stepless/adjustable power output control Sealing (cap) diameter range: Adjustable, minimum 20 mm to 180 mm (or wider), or such so as to cover the full range of container/cap sizes run on LMP-A; bidder to confirm coverage of PSO's actual SKU range identified at site survey Sealing head height adjustment: Adjustable minimum 20 mm to 400 mm (or as required to suit tallest/shortest container run on the line), with quick-release/tool-less height adjustment preferred for fast changeover Conveyor/line speed compatibility: Compatible with confirmed LMP-A line speed of minimum 6#25 m/min (or equivalent containers/min), with the sealing head positioned/tunnel-designed to achieve full, uniform seal within the available dwell time Cooling method: Air-cooled for ease of maintenance; water-cooled shall not be acceptable Control panel / HMI: Digital control panel with adjustable power/time settings, digital display of set and actual output, and fault/alarm indication (minimum: power-on, sealing-active, fault/no-seal indicator					



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REQUEST FOR QUOTATION

(THIS IS PRICE ENQUIRY-NOT AN ORDER)

SAP No.6100018001

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 %
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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	lamps as a baseline; touchscreen HMI preferred) Mounting: Height and position-adjustable stand/gantry, compatible with LMP-A conveyor geometry, on lockable castors or fixed base as per site survey outcome, with fine adjustment for precise coil-to-cap alignment Coil / sealing head design: Tunnel-type or single-head induction coil sized to fully and uniformly seal the foil liner across the full declared cap-diameter range without scorching/overheating the cap or product Duty cycle: Continuous duty rated for multi-shift (minimum 16#24 hours/day) industrial operation without derating Machine footprint: Bidder to state overall machine dimensions and weight; unit shall be mobile (on lockable castors) or fixed-mount as agreed, to fit within the available space envelope at the LMP-A sealing station (to be confirmed at site survey) Safety / EMF compliance: Induction field shall be enclosed/shielded such that operator exposure to electromagnetic emissions at normal working distance complies with applicable international occupational EMF exposure limits (e.g., ICNIRP guidelines or equivalent) Overheat / fault protection: Built-in over-temperature, over-current and no-load protection with automatic shutdown and visual/audible fault alarm Automation <(>&<) Sensor Requirements for Fully Automatic Inline Operation: The offered system shall operate in a fully automatic, hands-free mode once commissioned i.e., it shall energize the induction field and apply a seal to each capped container automatically as it passes the sealing station, in synchronization with the moving line, and shall preferably NOT energize when no container/cap is present (to prevent nuisance heating of the empty tunnel/coil and conserve energy). The following sensing/control elements are preferable (or shall be justified as not applicable, with technical reasoning, in the Technical Compliance Sheet):					



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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	Container/Cap Presence (No-Container-No-Seal) Sensor: # Photoelectric (diffuse-reflective or through-beam) or inductive/capacitive proximity sensor positioned upstream of the induction coil/tunnel to detect presence of each capped container and enable induction power ONLY for the duration the container is within the sealing zone. # Sensor response and induction-enable/disable timing shall be matched to the confirmed line speed to ensure full, complete seal coverage on every container with no energization of the coil when the line is empty or stopped. # Sensor shall be industrially rated (minimum IP65) and adjustable/interchangeable to reliably detect the range of container heights/cap sizes run on the line. Line-Speed Synchronization: # Provision for a line-speed/conveyor-run signal (via encoder input, VFD signal tap, or an equivalent method proposed by the bidder) so the induction power/dwell time is matched to actual line speed, ensuring consistent seal quality across speed variations, and so the system automatically reduces to standby when the line stops. Product/Size Change-Over Sensing: # Where LMP-A runs multiple container/cap sizes, the system shall support quick, repeatable changeover (tool-less height/diameter adjustment with reference markings or pre-set memory positions on the HMI) to minimize changeover downtime and prevent under/over-sealing due to incorrect setup. Safety Interlocks / Guarding: # Guarding or proximity interlock preventing operator hand access into the active induction field/tunnel during operation, in addition to compliance with the EMF exposure requirement # Interlock ensuring induction power cannot be energized with the access panel/cover of the generator unit open. Control, Monitoring <(>&<)> Connectivity Requirements: # Digital display/HMI showing set power level, actual power output					



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	, sealing status, and fault codes. # Adjustable power and (where applicable) dwell-time settings, with password-protected access to prevent unauthorized changes to validated seal-process parameters. # Fault/alarm log (minimum: over-temperature, no-load, sensor fault , E-stop activation) retrievable for maintenance troubleshooting. # Digital I/O and/or industrial Ethernet port for interfacing with the line PLC and, optionally, for future integration with PSO's plant monitoring/SCADA system, without obligating PSO to any specific future integration under this RFQ. Safety, Health, Environment <(>&<)> Standards Compliance: # The offered system shall comply with applicable international EMC/EMF and electrical safety standards (e.g., IEC 60335 series, CE marking, or equivalent internationally recognized conformity certification) and shall be supplied with valid conformity certificates for the specific model offered. # Electrical design/wiring shall conform to IEC/NEC or equivalent applicable electrical safety standards; enclosures shall be suitably rated for the plant's hazardous/non-hazardous area classification. # Operator electromagnetic field (EMF) exposure at normal operating position shall be within applicable occupational exposure limits; bidder to provide supporting data/certification. # Noise levels of the complete system shall not exceed applicable occupational noise exposure limits. Installation, Testing <(>&<)> Commissioning: 1. Successful bidder shall conduct detailed engineering survey/measurements at LMP-A prior to finalizing mounting design, in coordination with PSO Engineering/Maintenance. 2. Installation shall include all mechanical mounting, electrical wiring, sensor installation, safety interlocking and line/PLC interfacing described in relevant sections, without damage to existing line equipment. 3. Site Acceptance Test (SAT) shall be conducted jointly with PSO's					



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	nominated representatives, demonstrating: (a) automatic, no-container-no-seal operation at rated line speed with zero manual triggering; (b) consistent, complete, tamper-evident seal formation across the full range of container/cap sizes tested, verified by peel/pull test or equivalent seal-integrity check; (c) safety interlock functionality (E-stop, guarding); 4. A minimum continuous trial run (e.g., 4#8 hours, or as mutually agreed) on live production shall be conducted across the range of SKUs run on LMP-A to demonstrate reliability and seal consistency before final acceptance sign-off. 5. Any deficiencies (including incomplete seals, scorching, or missed containers) identified during SAT/trial run shall be rectified by the bidder at its own cost prior to final acceptance. Training: # Comprehensive on-site training for PSO's operations personnel (routine operation, changeover between SKUs, power/height adjustment, minor troubleshooting), minimum for 2 batches/shifts. # Comprehensive on-site training for PSO's maintenance/technical personnel (preventive maintenance, coil/generator servicing, sensor replacement/adjustment, fault diagnosis). # Training material (manuals/quick-reference guides), preferably in English and Urdu, to be provided in both hard and soft copy. Warranty: # Minimum one (01) year comprehensive on-site warranty from the date of Site Acceptance/Final Commissioning, covering the induction generator , sealing head/coil, control panel, sensors and all supplied accessories, including free service visits, unless a longer warranty is offered by the bidder # Warranty response time: bidder to state maximum response time (on-site or remote) for breakdown calls during the warranty period; PSO requires a maximum response time not exceeding 72 hours for on-site critical					



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	breakdowns within Pakistan. # Warranty shall exclude only consumables explicitly identified as wear items (if any, e.g., coil liners) and damage due to proven operator misuse, subject to mutual agreement. Spare Parts, After-Sales Support <(>&<)> AMC: # Bidder shall confirm availability of an authorized local service/support presence in Pakistan (own office or authorized service partner) capable of providing spare parts and technical support for a minimum of seven (07) years from the date of supply. # Bidder shall provide, as part of the technical proposal, a recommended list of critical spare parts (e.g., induction coil/head, control board, sensors) as a separate, evaluable-but-optional schedule for PSO's reference/optional procurement. # Bidder shall offer optional Annual Maintenance Contract (AMC) terms for the post-warranty period (for PSO's future reference only; not mandatory to accept at this stage). Documentation to be Supplied with the Equipment: # Operation <(>&<)> Maintenance (O<(>&<)>M) manual (English). # Electrical wiring diagrams including circuit board wiring diagrams and I/O list for the delivered configuration. # Sensor datasheets and wiring schematics. # Recommended power/height setting reference chart for each SKU tested during commissioning. # Conformity/safety certification(s) (e.g., CE/IEC 60335 compliance certificate) for the specific model supplied. # Warranty certificate and after-sales service contact details. Delivery, Payment <(>&<)> Performance Security: Delivery / completion period: Within 120 days from date of Purchase Order issuance for delivery to site, plus installation and commissioning. Bidder to state firm lead time in the technical					



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	compliance sheet Payment terms: Against delivery, installation and successful Site Acceptance Test (SAT) 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): In case of delay in delivery/completion attributable to the supplier, LD shall be applied at 0.1% of the particular delayed good/service per day of delay, subject to a maximum cap of 10% of the value of the delayed good / service, beyond which PSO reserves the right to cancel the order and forfeit the performance guarantee, per applicable contract conditions.					