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

REQUEST FOR QUOTATION

(THIS IS PRICE ENQUIRY-NOT AN ORDER)
SAP No.6100018858

RFQ No	LT-20154IA
DATE	01.11.2026

Company PSO Dummy Vendor
PAKISTAN

QUOTATION REQUIRED

ON (Date)	24.11.2026	BY (Time)	1415 PST

Please quote your best price for all items of following specifications. Please read the instructions attached herewith

EARNEST MONEY BSD % Rs._____ PO/DD NO. _____

Title: Supply, Installation, Testing and Commissioning of Blow Moulding Machine with Moulds and Utility Equipment on C<(>&<)>F/CFR Basis.

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
1	**Blow Molding Machine (DHDS)** PRELUDE: Pakistan State Oil Company Limited (PSO) invites sealed bids from eligible, experienced, and financially sound original equipment manufacturers (OEMs) or their duly authorized local agents/distributors for the supply, delivery, installation, testing and commissioning of a blow moulding machine, complete with two interchangeable head/mould-set assemblies<(>,<)> moulds for all four can sizes (0.7, 1, 3 & 4 Liters respectively), and supporting utilities, on complete in all respect responsibility basis, comprising: # One (1) common complete blow-molding machine (extruder, clamping unit(s), hydraulic power unit, and control system)<(>,<)> engineered to accept both head-sets described below. # Head-Set 1: Quad-Head, Double-Station tooling assembly (8 cans/cycle) for 0.7 L and 1 L cans. # Head-Set 2: Dual-Head, Double-Station tooling assembly (4 cans/cycle) for 3 L and 4 L cans. # Complete sets of production moulds (blow moulds and deflash / trim moulds) for 0.7 L, 1 L, 3 L, and 4 L cans. # Auxiliary utility equipment including: # Water chiller, # Air-dryer, # Cooling tower / cooling water circuit (if required), # Other utilities necessary for the machine's intended operation across both head-sets # Third Party Factory Acceptance Testing (FAT), witnessed by PSO representatives. # Installation, Site Acceptance Testing (SAT)/commissioning of the machine and both head-sets<(>,<)> # Training of PSO/operating-company personnel, and # After-sales support. NOTE: 1. Rate for the underneath supply requirements is to be quoted against this particular line item:	**LMT**	**EA**	1		

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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	i) The Common Machine Assemblies (Extruder, Clamping, Controls) with Head-Set 2 (dual-head, double-station) assembled. ii) Auxiliary utility equipment including: # Water chiller, # Air-dryer, # Cooling tower / cooling water circuit (if required), # Other utilities necessary for the machine's intended operation across both head-sets. iii) Consumables for 2 years of operation of the machine i.e. Hydraulic Filter Cartridges (if hydraulically actuated), Pneumatic Filter Cartridges and others required for the quoted machine model. iv) List of essential spare parts being offered as part of the machine package, if any, to be shared at the time of technical evaluation. SCOPE OF SUPPLY & TECHNICAL SPECIFICATIONS: 1) Blow-Molding Machine: - The common machine platform shall be designed to mechanically and electrically accept either of the 2 head-sets i.e. Head-Set 1 (quad-head, double-station) and Head-Set 2 (dual-head, double-station) <(>,<)> at any given time (1 at a time), via a defined changeover procedure for Head-Set 1 (quad-head, double-station) and Head-Set 2 (dual-head<(>,<)> double-station). 1. Machine Architecture: i) Common Machine Assemblies (Extruder, Clamping, Hydraulics, Controls): - The following baseline applies to the common machine platform shared by both head-sets: ii) Production Capacity: 1. 0.7 L: Minimum 1500 - 1550 finished cans per hour, after normal machine losses/rejection, excluding scheduled changeovers (average minimum acceptable cycle time = 19.2 seconds). 2. 1 L: Minimum 1500 - 1550 finished cans per hour, after normal machine losses/rejection, excluding scheduled changeovers (average minimum acceptable cycle time = 19.2 seconds).					

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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	3. 3 L: Minimum 500 - 550 finished cans per hour, after normal machine losses/rejection, excluding scheduled changeovers (average minimum acceptable cycle time = 28.8 seconds). 4. 4 L: Minimum 500 - 550 finished cans per hour, after normal machine losses/rejection, excluding scheduled changeovers (average minimum acceptable cycle time = 28.8 seconds). iii) Machine architecture: - Single common base incorporating main extruder(s), auxiliary extruder for visual strip of cans, clamping unit(s), hydraulic power unit, and control system, designed to mechanically and electrically accept either Head-Set 1 (quad-head<(>,<)> double-station) or Head-Set 2 (dual-head, double-station) via a defined changeover procedure (Bidder can come up with their proprietary design with variations from the above, which should meet or exceed minimum requirements, without compromising cost at bidder's end) iv) Resin HDPE: - For reference, Marlex 5502, SABIC B-5429 or equivalent may be considered. (Refer material properties of the mentioned grades for equivalence). - Capable of using: 1. Virgin HDPE with Master Batch 2. Mix of HDPE virgin, re-grind and Master Batch material v) Main extruder drive: i) Appropriately sized e.g. 75 HP AC motor with vector/inverter (VFD) speed control, as sized by bidder to satisfy the higher of the two head-sets' melt-throughput demand, with stated spare capacity margin. ii) Should also include appropriately sized auxiliary extruder motor for visual strip of cans, with vector/inverter (VFD) speed control, as sized by bidder to satisfy the higher of the two head-sets' melt-throughput demand, with stated spare capacity margin. vi) Extruder screw: 1. Appropriately sized e.g. 75 mm # 85 mm diameter, L/D # 30:1, barrier-type screw, melt output atleast 170 kg/hr<(>,<)> Bidder to size for higher melt output than stated minimum if required to satisfy the production rate demand for the most demanding head-set; screw <(>&<)>					

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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	barrel material SACM645 nitralloy (nitrided and polished) or equivalent hardened, nitrided alloy steel 2. Appropriately sized auxiliary screw for visual strips of the respective cans (bidder to confirm melt output<(>,<)> kg/hr, or as sized by bidder to satisfy the demand sufficient for the more demanding head-set); screw & barrel material SACM645 nitralloy (nitrided and polished) or equivalent hardened, nitrided alloy steel. vii) Barrel heating / cooling: - Stainless steel band heaters; independent forced-air cooling per zone; minimum 4-zone sectional temperature control via industrial PLC (B <(>&<)>R or equivalent Tier-1 brand). Feed throat: - Grooved feed bushing, water-cooled jacket, nitrided/hardened wear liner. viii) Gear box: - OEM-manufactured, case-hardened gray cast iron housing minimum grade GG25 (G25) or equivalent; SKF (or equivalent Tier-1) thrust bearings; forced lubrication with oil pump and heat exchanger. ix) Melt distribution / manifold: - Melt manifold or distribution head designed to feed<(>,<)> i) Four (4) die heads per station (Head-Set 1), and ii) Two (2) die heads per station (Head-Set 2). - With balanced melt flow and consistent parison wall-thickness across all cavities in use. x) Clamping unit(s): - Toggle-type or any other OEM determined, minimum 2 sets (double station), clamping tonnage sized for the higher of: (a) 8 smaller cavities under Head-Set 1, or (b) 4 larger cavities under Head-Set 2 (reference baseline 25 tons/250 kN class per station; bidder to confirm actual tonnage required for 3 L/4 L cans, which will likely govern); horizontal carriage shuttle on linear/bearing rack<(>,<)> hydraulically driven, closed-loop position feedback; platen size and daylight / mould-thickness range to accommodate both head-set / mould envelopes. xi) Hydraulic System:					

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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	- Energy-saving hydraulic unit with high/low pressure circuit (variable-displacement/servo-pump or accumulator-assisted nitrogen-charged circuit), proportional valve closed-loop control for clamp, carriage, blow-pin, and de-flash functions, sized for the higher hydraulic demand of the two head-sets. xii) Pneumatic system: - Industrial-grade directional valves, filters, and pressure regulators (Festo, SMC, or equivalent Tier-1 brand); air consumption to be stated separately for Head-Set 1 and Head-Set 2 operation, for utility sizing. xiii) Control system: - Industrial PLC-based control (B<(>&<)>R, Siemens<(>,<)> Allen-Bradley or equivalent Tier-1 brand) with minimum 12-15 inch colour touchscreen HMI, recipe management (minimum 50 recipes, sufficient to store distinct recipes for all four can sizes), Ethernet and Wi-fi connectivity for Internet of Things (IoT) (10/100/1000 Mbit/s)<(>,<)> preferable mobile / PC applications for remote monitoring of production data, data logging of cycle time, cycle counts, and production rate per can size, multi-level password security, multi-language capability (English/Urdu minimum), and guided changeover sequence / checklist logic for head-set changeover 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. 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. xiv) Electrical control cabinets: - Segregated main control cabinet and motor-control cabinet, IP54 (minimum) enclosure rating, with interlocked safety-lock doors<(>,<)> solid-state relays for heater control, and vector-drive inverters for motor control. xv) Safety: - Full modular perimeter guarding with electrically interlocked safety doors covering electrical, hydraulic, and pneumatic hazards<(>,<)> reconfigurable/adjustable to suit both head-set footprints; emergency					

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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	stop stations; CE and IEC compliant machinery safety design or equivalent internationally recognized standard. xvi) Other standard features: - For hydraulic/hybrid machines: auto-lubrication system for linear bearings/clamp, anti-vibration mounting pads<(>,<)> anti-static device at die head(s), melt pressure and temperature transducers. xvii) Power supply compatibility: - 400V, 50Hz, 3-phase, 4-wire (R, S, T, N+E), to be confirmed against actual site supply for existing installed Blow-Moulding machine TECHNE Model 15000 SN). 2. Head-Set 2: - Dual-Head, Double-Station (3 L / 4 L Cans, 2 + 2 = 4 Cans per Cycle) Mounted on the common machine platform in place of Head-Set 1 (Quad-Head, Double Station) via the defined changeover procedure. i) Configuration: - Two (2) clamping stations, each fitted with two (2) extrusion die heads (2 stations × 2 heads = 4 cans produced per cycle) ii) Dedicated Container Range: - 3 litre and 4 litre lubricant cans, with changeover tooling to switch between the two sizes without removing the head-set from the machine; target changeover time not exceeding 4 working hours (to be validated at FAT/SAT). iii) Estimated production rate: - Baseline (For 3 L and 4 L bottle, double-head): 500 - 550 bottles per hour (BPH) combined for the double-head arrangement; bidder to confirm achievable rate for both 3 L and 4 L cans on the offered head-set iv) Die Heads: - Dies with dual spider-leg support or alternate support mechanism, double head per station, chrome-plated SCM440 (or equivalent alloy) tooling, stainless steel band heating, minimum 3-zone sectional temperature control, centre pitch to be specified by bidder to suit 3L/4L mould envelope or can sizes, hydraulically (blow-pin) and pneumatically (de-flash) actuated, top/bottom and handle de-flash with automatic flash removal/handling chute sized for 4-cavity throughput.					

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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	v) Parison Control: - Closed-loop parison wall-thickness programmer, minimum 100-point program resolution, servo-valve actuated with displacement transducer feedback. vi) Blow Pin: - One per cavity (4 total), hydraulically actuated. vii) De-Flash: - Top / bottom and handle de-flash with automatic flash removal/handling chute sized for 4-cavity throughput Spare Mould Inserts / Wear Parts: i) Wear-prone neck cutting rings, Qty: 24. ii) Additional die and core, Qty: 1 set for each size. iii) Additional neck inserts, Qty: 4 sets for each size. 3) Auxiliary Utility Equipment: - Bidder shall size and supply the following utilities to match the actual heat-load, air-demand, and cooling-water requirement of the machine under whichever head-set draws the higher demand (bidder to state the governing head-set for each utility item): i. Water Chiller with Accessories: - Industrial process water chiller of required refrigeration capacity (bidder to state kW/TR, and the governing head-set/can-size for sizing) to serve mould cooling, barrel/die cooling jackets, and electrical-cabinet air-cooling / heat exchanger; chilled water supply temperature 7#12°C (adjustable)<(>,<)> complete with circulation pumps <(>,<)> buffer tank, and control panel. ii. Compressed Air Treatment: - Air-Dryer and Filtration arrangement, Refrigerant air dryer, and line filters, sized with minimum 25% spare capacity margin. iii. Electrical Cabinet Cooling: - Water-cooled (chilled-water) heat exchanger unit for electrical panel internal cooling, or air-conditioning unit as alternative, to protect PLC/drive electronics in ambient conditions up to 45°C.					
2	**Head-Assembly 2-Station, 4 Die-Heads** Rates for the underneath scope to be quoted against this line item.	**LMT**	**EA**	1		

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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	Head-Set 1: Quad-Head (4-head), Double-Station (0.7 L / 1 L Cans, 4 + 4 = 8 Cans per Cycle): - Capable of being mounted on the common platform of the Blow-Moulding machine in place of Head-Set 2 via the defined changeover procedure. Minimum Required Specification: Configuration: - Two (2) clamping stations, each fitted with four (4) extrusion die heads (2 stations × 4 heads = 8 cavities produced per cycle). Dedicated container range: - 0.7 litre and 1 litre lubricant cans, with quick-changeover tooling (common mould base/adaptor plates, quick-clamp or hydraulic mould-clamping cylinders) to switch between the two sizes without removing the head-set from the machine; target changeover time not exceeding 4 working hours (to be validated at FAT/SAT). Estimated Production Rate: - Bidder to state achievable combined cans/hour for 0.7 L and, separately, for 1 L<(>,<)> based on 8 cavities per cycle at the offered cycle time, minimum requirement of 1500 cans / hour (for both 0.7 & 1 Liter). Die Heads: - Dies with spider-leg support or alternate support mechanism, 4 heads per station, chrome-plated SCM440 (or equivalent alloy) tooling, stainless steel band heating, sectional temperature control (minimum 3 zones per head or as required for uniform wall-thickness across all 8 cavities), centre pitch to be specified by bidder to suit 0.7 L / 1 L mould envelope / can size. Parison Control: - Closed-loop parison wall-thickness programmer for each die head					

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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	unit/cavity group, minimum 100-point program resolution<(>,<)> servo-valve actuated with displacement transducer feedback, capable of independent or synchronized profiles across all 8 cavities. Blow Pin: - One per cavity (8 total), hydraulically actuated. De-Flash: - Pneumatically (de-flash) actuated, top/bottom and handle de-flash with automatic flash removal/handling chute sized for 8-cavity throughput.					
3	**0.7 L Can Mould Set (8 Cavities)** Rates for mould sets as under this line item shall be included in the base scope of supply: Minimum Required Specification: 0.7 Litre bottle mould set (Head-Set 1): - One (1) complete set, two moulds with 4 cavities each, comprising eight (8) cavities in total (four (4) per station × two (2) stations) along with die & core, and accessories, blow mould body in stainless steel S136H (or equivalent), complete with matching de-flash mould in aluminium alloy (Al # 6061 or equivalent); neck/handle geometry and labelling area as per PSO-approved drawing/sample to be provided at the time of detailed engineering phase after PO issuance. Note: 1. PSO is currently considering a redesign activity for the lubricant can range. 2. Hence, the design documents of the current moulds are not being shared at this stage. 3. The final can design will be provided after the award of the Purchase Order, at the detailed engineering stage when mould design will be required. 4. Certain minor adjustments may be required in the provided design<(> ,<)> which shall be communicated at the detailed engineering phase by PSO<(>,<)> and shall have to be duly incorporated by the successful bidder in the provided mould-set.	**LMT**	**EA**	1		

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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	- Indicative envelope (approximate height/width range) of the can-size and target weight are being added as under merely as a planning reference. - The provided values are subject to change at detailed engineering after contract award, and PSO reserves the right to a change in can geometry. - Approximate height/width (H x W): 200 mm x 110 mm - Target Weight: 50 - 60 grams Mould Interchangeability: - Mould sets shall be dimensionally compatible with the offered machine's platen size and mould-mounting standard for their respective head-set, without further modification; bidder to confirm platen size and mould thickness range should accommodate all four mould sets across both head-sets Note: 1. PSO shall reserve the right to decide on whether to procure or forgo any of the moulds. 2. Separate line items have been provided for each mould and rates are to be quoted against respective line item for each mould. 3. PSO shall not be liable to pay for moulds it forgoes.					
4	**1 L Can Mould Set (8 Cavities)** Rates for mould sets as under this line item shall be included in the base scope of supply: Minimum Required Specification: 1 Litre bottle mould set (Head-Set 1): - One (1) complete set comprising two moulds with 4 cavities each<(>,<)> comprising eight (8) cavities in total (four (4) per station × two (2) stations) along with die & core, and accessories, blow mould body in stainless steel S136H (or equivalent), complete with matching de-flash mould in aluminium alloy (Al # 6061 or equivalent); neck/handle geometry and labelling area as per PSO-approved drawing/sample to be provided at the time of detailed engineering phase after PO issuance.	**LMT**	**EA**	1		

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	Note: 1. PSO is currently considering a redesign activity for the lubricant can range. 2. Hence, the design documents of the current moulds are not being shared at this stage. 3. The final can design will be provided after the award of the Purchase Order, at the detailed engineering stage when mould design will be required. 4. Certain minor adjustments may be required in the provided design<(> ,<)> which shall be communicated at the detailed engineering phase by PSO<(>,<)> and shall have to be duly incorporated by the successful bidder in the provided mould-set. - Indicative envelope (approximate height/width range) of the can-size and target weight are being added as under merely as a planning reference. - The provided values are subject to change at detailed engineering after contract award, and PSO reserves the right to a change in can geometry. - Approximate height/width (H x W): 220 mm x 120 mm. - Target Weight: 55 - 65 grams. Mould Interchangeability: - Mould sets shall be dimensionally compatible with the offered machine's platen size and mould-mounting standard for their respective head-set, without further modification; bidder to confirm platen size and mould thickness range should accommodate all four mould sets across both head-sets Spare mould inserts / wear parts: - One (1) spare set of wear-prone mould inserts (neck rings/pinch-off inserts). Note: 1. PSO shall reserve the right to decide on whether to procure or forgo any of the moulds.					

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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	2. Separate line items have been provided for each mould and rates are to be quoted against respective line item for each mould. 3. PSO shall not be liable to pay for moulds it forgoes.					
5	**3 L Can Mould Set (4 Cavities)** Rates for mould sets as under this line item shall be included in the base scope of supply: Minimum Required Specification: 3 Litre bottle mould set (Head-Set 2): - One (1) complete set comprising two moulds with 2 cavities each<(>,<)> comprising four (4) cavities in total (two (2) per station × two (2) stations), along with die & core, and accessories, blow mould body in stainless steel S136H (or equivalent), complete with matching de-flash mould in aluminium alloy (Al # 6061 or equivalent); neck/handle geometry and labelling area as per PSO-approved drawing/sample to be provided at the time of detailed engineering phase after PO issuance. Note: 1. PSO is currently considering a redesign activity for the lubricant can range. 2. Hence, the design documents of the current moulds are not being shared at this stage. 3. The final can design will be provided after the award of the Purchase Order, at the detailed engineering stage when mould design will be required. 4. Certain minor adjustments may be required in the provided design<(> ,<)> which shall be communicated at the detailed engineering phase by PSO<(>,<)> and shall have to be duly incorporated by the successful bidder in the provided mould-set. - Indicative envelope (approximate height/width range) of the can-size and target weight are being added as under merely as a planning reference. - The provided values are subject to change at detailed engineering after contract award, and PSO reserves the right to a change in can	**LMT**	**EA**	1		

Pakistan State Oil Company Limited
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REQUEST FOR QUOTATION

(THIS IS PRICE ENQUIRY-NOT AN ORDER)
SAP No.6100018858

RFQ No	LT-20154IA
DATE	01.11.2026

Company PSO Dummy Vendor
PAKISTAN

QUOTATION REQUIRED

ON (Date)	24.11.2026	BY (Time)	1415 PST

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

Title: Supply, Installation, Testing and Commissioning of Blow Moulding Machine with Moulds and Utility Equipment on C<(>&<)>F/CFR Basis.

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	geometry. - Approximate height/width (H x W): 280 mm x 210 mm. - Target Weight: 190 - 200 grams. Mould Interchangeability: - All mould sets shall be dimensionally compatible with the offered machine's platen size and mould-mounting standard for their respective head-set, without further modification; bidder to confirm platen size and mould thickness range should accommodate all four mould sets across both head-sets Spare mould inserts / wear parts: - One (1) spare set of wear-prone mould inserts (neck rings/pinch-off inserts). Note: 1. PSO shall reserve the right to decide on whether to procure or forgo any of the moulds. 2. Separate line items have been provided for each mould and rates are to be quoted against respective line item for each mould. 3. PSO shall not be liable to pay for moulds it forgoes.					
6	**4 L Can Mould Set (4 Cavities)** Rates for mould sets as under this line item shall be included in the base scope of supply: Minimum Required Specification: 4 Litre can mould set (Head-Set 2): - One (1) complete set comprising two moulds with 2 cavities each<(>,<)> comprising four (4) cavities in total (two (2) per station × two (2) stations), along with die & core, and accessories, blow mould body in stainless steel S136H (or equivalent), complete with matching de-flash mould in aluminium alloy (Al # 6061 or equivalent); neck/handle geometry and labelling area as per PSO-approved drawing/sample to be provided at the time of detailed engineering phase after PO issuance. Note: 1. PSO is currently considering a redesign activity for the lubricant	**LMT**	**EA**	1		

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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	can range. 2. Hence, the design documents of the current moulds are not being shared at this stage. 3. The final can design will be provided after the award of the Purchase Order, at the detailed engineeringstage when mould design will berequired. 4. Certain minor adjustments may be required in the provided design<(>,<)> which shall be communicated at the detailed engineering phase by PSO<(>,<)> and shall have to be duly incorporated by the successful bidder in the provided mould-set. - Indicative envelope (approximate height/width range) of the can-size and target weight are being added as under merely as a planning reference. - The provided values are subject to change at detailed engineering after contract award, and PSO reserves the right to a change in can geometry. - Approximate height/width (H x W): 300 mm x 230 mm. - Target Weight: 195 - 210 grams. Mould Interchangeability: - All mould sets shall be dimensionally compatible with the offered machine's platen size and mould-mounting standard for their respective head-set, without further modification; bidder to confirm platen size and mould thickness range should accommodate all four mould sets across both head-sets. Spare mould inserts / wear parts: - One (1) spare set of wear-prone mould inserts (neck rings/pinch-off inserts). Note: 1. PSO shall reserve the right to decide on whether to procure or forgo any of the moulds. 2. Separate line items have been provided for each mould and rates are to be quoted against respective line item for each mould.					

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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	3. PSO shall not be liable to pay for moulds it forgoes.					
7	**~~Bottle-Take-Out Gripper~~** Automated multi-cavity bottle-removal gripper / take-out system, sized for 8-cavity (Head-Set 1) as well as 4-cavity (Head-Set 2) handling. The bottle removal gripper should be compatible with both head sets and all 4 sizes (0.7, 1, 3 and 4 Liters), without restricting the rated production capacity of the blow-moulding machine. The system shall meet the following minimum requirements: - Maximum Cycle Rate: Take-out cycle rate shall be suitable for, and preferably exceed, the maximum rated cycle/output rate of the blow-moulding machine, with adequate margin to prevent downstream bottlenecking. - Can Weight Range: System shall reliably handle the complete specified indicative range of can weights, including the lightest and heaviest cans, without deformation or loss of control. - Can Orientation: System shall accommodate the required can orientation at take-out and maintain controlled orientation during transfer to the downstream conveyor/equipment. - Maximum Drop Height: Can drop/transfer height shall be minimized and shall not exceed the OEM's demonstrated safe limit for the lightest can <(>,<)> without deformation, denting or cosmetic damage. - Damage/Scratch Criteria: Take-out, transfer and accumulation shall not cause dents, deformation<(>,<)> scratches, scuffing or other cosmetic damage. - Any contact surfaces shall be suitably designed/protected to prevent product damage. - Jam Detection: The system shall incorporate automatic detection of can jams, misfeeds and abnormal accumulation conditions, with appropriate machine interlocks and alarms. - Automatic Recovery: Following a minor jam or transient stoppage, the system shall provide automatic recovery/restart where safely practicable, without requiring manual intervention for routine stoppages.	**~~LMT~~**	**~~EA~~**	1		

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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	- Machine Interlocking: Take-out system shall be fully interlocked with the blow-moulding machine and downstream equipment for coordinated start/stop, fault, emergency-stop and accumulation conditions. - Accumulation Capacity: The system shall provide sufficient accumulation/buffer capacity to absorb normal short-duration downstream stoppages without requiring the blow-moulding machine to stop, with the required capacity to be stated by the bidder based on the maximum machine production rate. - Capacity Assurance: Bidder shall state the maximum demonstrated take-out rate for each can size/head-set combination and confirm that the take-out system will not become the production bottleneck at the blow-moulding machine's specified maximum output. - Performance Demonstration: Supplier shall demonstrate satisfactory operation across all four can sizes and both head-sets during FAT and SAT / commissioning / acceptance testing, at the specified production rate.					
8	**~~Turn Conveyor(s)~~** Merge conveyor(s) + turn conveyor(s) mechanism for downstream integration with a leak-detection station<(>,<)> dimensioned to accommodate each can size. - The line item includes the complete conveyor system to ensure that the cans emerge from the machine through conveyor on to the leak-detection conveyor. Incase the machine is such that it requires multiple conveyors for the purpose, all of the conveyors shall be included as part of the package. - Bottle-gripper shall place the can onto the merge / turn conveyor, which shall move the can out of the machine and onto the leak-detection system. The system shall meet the following minimum requirements: - Maximum Cycle Rate: Rate shall be suitable for, and preferably exceed <(>,<)> the maximum rated cycle/output rate of the blow-moulding machine, with adequate margin to prevent downstream bottlenecking. - Can Weight Range: System shall reliably handle the complete specified	**~~LMT~~**	**~~EA~~**	1		

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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	indicative range of can weights<(>,<)> including the lightest and heaviest cans, without deformation or loss of control. - Performance Demonstration: Supplier shall demonstrate satisfactory operation across all four can sizes and both head-sets during FAT and SAT / commissioning / acceptance testing, at the specified production rate.					
9	**FAT, Inst, Comm, SAT of BM Machine**	**PSO House**				
9.01	**Third-party FAT**		**EA**	1		
	i) Rates to be filled in this line item only for 3rd party FAT. ii) Rate for Witnessing of 3rd party FAT by PSO representatives (including ticketing and accommodation) to ascertain that the FAT is carried out complete in all respect, impartially and objectively is to be filled in against a separate line item dedicated for it. iii) Scope has been divided into separate line items. Quote against each line item is required for the scope defined underneath the respective item. Factory Acceptance Test (FAT): - Prior to shipment, the successful bidder shall conduct a Factory Acceptance Test at its (or its sub-vendor's) manufacturing facility<(> ,<)> witnessed by 3rd party inspection agency (e.g. SGS, Bureau Veritas, or any other reputable equivalent approved by PSO) and PSO's nominated representative(s) and (travel and accommodation for up to two (2) PSO representatives to be arranged by the bidder). The FAT should cover as a minimum: # Dry-cycle run of the common platform with EACH head-set mounted in turn (no-load) to verify sequence logic<(>,<)> safety interlocks, and cycle-time repeatability. # Production trial run with the actual (or bidder's representative test) moulds for all four can sizes 0.7 L and 1 L under Head-Set 1, and 3 L and 4 L under Head-Set 2 to demonstrate: a) Stable parison formation and wall-thickness distribution across all					

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Title: Supply, Installation, Testing and Commissioning of Blow Moulding Machine with Moulds and Utility Equipment on C<(>&<)>F/CFR Basis.

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	cavities in use; b) Achievement of the quoted production rate (cans/hour) for each can size within an agreed tolerance (e.g., ±5%); c) Can weight within specified tolerance for each size; d) Visual/dimensional conformance of sample cans of each size. e) Drop and leak test conformance. # Demonstration of both the minor changeover (within each head-set<(> ,<)> between its two can sizes) and the major changeover (between Head-Set 1 and Head-Set 2), with actual changeover time measured against the bidder's stated targets. # Verification of all quoted utility consumption figures (power<(>,<)> compressed air, cooling water) by direct measurement, for both = head-sets. # Verification of safety systems: guard interlocks, emergency stops<(> ,<)> hydraulic/pneumatic pressure relief<(>,<)> electrical earthing/insulation resistance test. # Verification of control system functions: recipe storage/recall for all four can sizes, alarm handling<(>,<)> data logging, and the guided changeover sequence. # Issuance of a signed FAT protocol/report jointly by bidder and PSO approved 3rd party inspector forming a pre-condition for shipment/dispatch clearance. - Annexure C - FAT/SAT protocol, defining testing parameters for the FAT is to be filled by prospective bidders. Where a parameter is design-dependent, bidders are to declare and guarantee its own value in the Annexure against the relevant parameter which shall form the reference at the time of FAT. Material for On-Site FAT: - The material required for conducting the on-site Factory Acceptance Test (FAT), including quantity and specifications, shall be mutually agreed between PSO and the successful bidder sufficiently in advance of the scheduled FAT. The bidder shall submit a separate cost quotation for the agreed FAT material to PSO. PSO shall issue a separate Purchase					

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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	Order (PO) to the bidder for procurement/supply of such material. The cost of FAT material shall not be included or built into the bidder#s present RFQ quotation.					
9.02	**FAT Witnessing (PSO Personnel)** i) Rates to be filled in this line item only for Witnessing of 3rd party FAT by PSO representatives to ascertain that the FAT is carried out complete in all respect, impartially and objectively. The scope of the FAT is as underneath. ii) The scope includes complete in all respect travel and accommodation for up to two (2) PSO representatives to be arranged by the bidder, over a necessary period for witnessing the complete FAT in accordance with mentioned scope. Factory Acceptance Test (FAT): - Witnessing of 3rd party FAT conducted as detailed in line item, by PSO representatives to ascertain that the FAT is carried out complete in all respect, impartially and objectively Prior to shipment, the successful bidder shall conduct a Factory Acceptance Test at its (or its sub-vendor's) manufacturing facility<(>,<)> witnessed by 3rd party inspection agency (e.g. SGS, Bureau Veritas, or any other reputable equivalent approved by PSO) and PSO's nominated representative(s) and (complete in all respect travel and accommodation for up to two (2) PSO representatives to be arranged by the bidder). The FAT should cover as a minimum: # Dry-cycle run of the common platform with EACH head-set mounted in turn (no-load) to verify sequence logic, safety interlocks, and cycle-time repeatability. # Production trial run with the actual (or bidder's representative test) moulds for all four can sizes 0.7 L and 1 L under Head-Set 1, and 3 L and 4 L under Head-Set 2 to demonstrate: a) Stable parison formation and wall-thickness distribution across all cavities in use; b) Achievement of the quoted production rate (cans/hour) for each can size within an agreed tolerance (e.g., ±5%);		**EA**	1		

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	c) Can weight within specified tolerance for each size; d) Visual/dimensional conformance of sample cans of each size. e) Drop and leak test conformance # Demonstration of both the minor changeover (within each head-set<(> ,<)> between its two can sizes) and the major changeover (between Head-Set 1 and Head-Set 2), with actual changeover time measured against the bidder's stated targets. # Verification of all quoted utility consumption figures (power<(>,<)> compressed air, cooling water) by direct measurement<(>,<)> for both head-sets. # Verification of safety systems: guard interlocks, emergency stops<(> ,<)> hydraulic/pneumatic pressure relief, electrical earthing/insulation resistance test. # Verification of control system functions: recipe storage/recall for all four can sizes, alarm handling, data logging<(>,<)> and the guided changeover sequence. # Issuance of a signed FAT protocol/report jointly by bidder and PSO approved 3rd party inspector forming a pre-condition for shipment/dispatch clearance.					
9.03	**Training for Blow-Molding Machine** Training: - The bidder shall provide, as part of the base scope<(>,<)> i) A minimum of four (4) working days of hands-on operator training and <(>,<)> ii),,Three (3) working days of maintenance/technician training at PSO's site during commissioning, covering safe operation of both head-sets<(> ,<)> routine maintenance, minor and major changeover procedures<(>,<)> troubleshooting, and use of the control system's diagnostic and recipe-management functions. - The operator training and maintenance/technician training will be carried out on separate days so that all personnel can attain both trainings. - This line item has been kept in the tender for Training scope for the bidder to fill in their rates. - Complete in all respect training is required. If days required for		**EA**	1		

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	trainings exceed the mentioned, the bidder shall be liable to make their trainers available without any additional cost to PSO. - Certificates shall be provided to PSO personnel who are given the training.					
9.04	**Inst, SAT, & Commissioning of BM Machine** i) Rates for installation, commissioning and SAT witnessing by PSO are to be included in this line item. ii) Rates for 3rd party SAT are to be filled in separate line item dedicated for the purpose. - Bidder#s and PSO#s responsibilities with regards to installation and commissioning: i) Bidder shall be responsible for delivering the blow-moulding machine and all accessories i.e. chiller, air-dryer etc. to a port in Karachi on C<(>&<)>F basis. ii),,PSO shall be responsible for custom clearance and transporting the delivered machines to site. iii) PSO intends to install the machine in place of existing Techne 15000 SN blow-moulding machine currently installed at the plant. PSO shall be responsible for removing the existing machine from its position <(>,<)> iv) PSO shall provide and terminate the main utility services up to the designated interface points for the machine, including electrical power supply, compressed air, and chilled water connections, also including installation of delivered chiller and air dryer, including required piping work. PSO shall share the progress once complete, and the bidder shall be responsible for a pre-commissioning check, whether through a representative visit (local or foreign), or an on-line check of the site after installation. v) After a successful pre-commissioning check, bidder shall mobilize his commissioning team for all necessary commissioning, SAT and training scope and obligations. Any delay in execution of the commissioning scope attributable on account of pre-commissioning works shall not be acceptable, and PSO shall not be obliged for any additional charges if bidder#s engineers visit exceeds the originally expected timeline. - Bidder shall be responsible for all additional charges on account of		**EA**	1		

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	any extension in Engineer#s visit. No claim for extra cost on account of site conditions shall be entertained after contract award. vi) The successful bidder shall be solely responsible for carrying out all internal utility connections within the supplied machine, including but not limited to electrical wiring, control wiring, power distribution, compressed air piping, chilled water piping, manifolds, hoses, fittings, valves, and all other interconnections necessary for the complete installation, commissioning, and satisfactory operation of the machine. vii) The bidder shall provide all labour, supervision, consumables, tools, testing instruments, and any specialized tooling or equipment required to execute these works. No additional payment shall be made by PSO for such activities. - The bidder shall ensure that all internal utility connections are executed in accordance with the OEM's recommended installation practices, applicable international standards, and local safety regulations. Site Acceptance Test (SAT) / Commissioning: - Upon installation and commissioning at PSO's designated plant, the bidder's engineer(s) shall carry out Site Acceptance Testing in the presence of PSO personnel and PSO approved 3rd party inspection agency (e.g. SGS, Bureau Veritas, or any other reputable equivalent approved PSO), including: # Re-verification of no-load operation, safety systems, and utility connections after transport and re-installation, for both head-sets. # Production performance test under actual site conditions (ambient temperature, resin batch, mains power quality) for a continuous run of not less than 72 hours per head-set (or as mutually agreed), demonstrating for each of the four can sizes: sustained production rate; can weight within ±10 grams (or bidder-proposed/PSO-approved tolerance) of target; wall-thickness distribution within specification; rejection/scrap rate not exceeding an agreed threshold (e.g., 3%); and machine uptime/availability not less than an agreed threshold (e.g., 95%) during the test window, excluding scheduled changeovers.					

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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	# Re-verification of minor and major changeover times against targets under actual site conditions. # Verification of leak-tightness of sample cans of each size (manual or automated leak test, as applicable) at an agreed AQL (Acceptable Quality Level). # Joint sign-off of a Provisional Acceptance Certificate (PAC) upon successful completion of SAT for both head-sets, triggering commencement of the warranty period and any SAT-linked payment milestone. # A SAT report shall be submitted with the complete details of the testing and the relevant data points generated during the testing. # A Final Acceptance Certificate (FAC) shall be issued after satisfactory operation for a defect-liability/observation period of ninety (90) days following PAC. Documentation & Calibration: - All test/measuring instruments used during FAT/SAT (weighing scales, thickness gauges, pressure gauges, power meters) shall bear valid calibration certificates traceable to a national/international standard, to be presented to PSO's witnessing representative. Annexure C - FAT/SAT protocol, defining testing parameters for the SAT is to be filled by prospective bidders. Where a parameter is design-dependent, bidders are to declare and guarantee its own value in the Annexure against the relevant parameter which shall form the reference at the time of SAT.					
9.05	**Third Party Site Acceptance Testing (SAT** i) Rates to be filled against this line item for SAT by PSO approved 3rd party inspection agency (e.g. SGS<(>,<)> Bureau Veritas, or any other reputable equivalent approved by PSO), with the underneath mentioned scope. ii) SAT shall compulsorily be carried out by the same 3rd party inspection agency which carries out the FAT. iii) PSO may choose to forgo the 3rd party SAT, in which case payment shall not be due against this line item.		**EA**	1		

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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	Site Acceptance Test (SAT) / Commissioning: - Upon installation and commissioning at PSO's designated plant, the bidder's engineer(s) shall carry out Site Acceptance Testing in the presence of PSO personnel and PSO approved 3rd party inspection agency (e.g. SGS<(>,<)> Bureau Veritas, or any other reputable equivalent approved by PSO), including: # Re-verification of no-load operation, safety systems, and utility connections after transport and re-installation, for both head-sets. # Production performance test under actual site conditions (ambient temperature, resin batch, mains power quality) for a continuous run of not less than 72 hours per head-set (or as mutually agreed)<(>,<)> demonstrating for each of the four can sizes: sustained production rate; can weight within ±10 grams (or bidder-proposed/PSO-approved tolerance) of target; wall-thickness distribution within specification; rejection/scrap rate not exceeding an agreed threshold (e.g., 3%); and machine uptime/availability not less than an agreed threshold (e.g.<(> ,<)> 95%) during the test window, excluding scheduled changeovers. # Re-verification of minor and major changeover times against targets under actual site conditions. # Verification of leak-tightness of sample cans of each size (manual or automated leak test, as applicable) at an agreed AQL (Acceptable Quality Level). # Joint sign-off of a Provisional Acceptance Certificate (PAC) upon successful completion of SAT for both head sets, triggering commencement of the warranty period and any SAT-linked payment milestone. # A SAT report shall be submitted with the complete details of the testing and the relevant data points generated during the testing. # A Final Acceptance Certificate (FAC) shall be issued after satisfactory operation for a defect-liability/observation period of ninety (90) days following PAC. Documentation & Calibration: - All test/measuring instruments used during FAT/SAT (weighing scales<(> ,<)> thickness gauges, pressure gauges, power meters) shall bear valid calibration certificates traceable to a national/international standard					

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REQUEST FOR QUOTATION

(THIS IS PRICE ENQUIRY-NOT AN ORDER)
SAP No.6100018858

RFQ No	LT-20154IA
DATE	01.11.2026

Company PSO Dummy Vendor
PAKISTAN

QUOTATION REQUIRED

ON (Date)	24.11.2026	BY (Time)	1415 PST

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	<(>,<)> to be presented to PSO's witnessing representative. - If any issue occurs after issuance of PAC and until issuance of FAC (after a defect-liability/observation period of ninety (90) days)<(>,<)> bidder shall be liable for any additional visits of the commissioning engineer, if required, to resolve the issues.					
9.06	**Training for Blow-Molding Machine** This Separate line-item has been provided to fill in rates for on-site training of 2 personnel at OEM's site. - Bidders shall fill in the rate for the on-site training separately in this line item. PSO may choose to opt or forgo the on-site training in favor of training at PSO's location at the time of commissioning. - Travel and accommodation for 2 PSO personnel shall be on account of the bidder, through the tenure of the training. - In case training exceeds the originally scheduled timeline, any increase in cost on account of extended stay, shall be on account of the bidder. - Scope of training shall be the same as for training offered on PSO's location at the time of commissioning reproduced as under. Training Scope: - The bidder shall provide, as part of the base scope<(>,<)> i) A minimum of four (4) working days of hands-on operator training and <(>,<)> ii),,Three (3) working days of maintenance/technician training at PSO's site during commissioning, covering safe operation of both head-sets<(>,<)> routine maintenance, minor and major changeover procedures<(>,<)> troubleshooting, and use of the control system's diagnostic and recipe-management functions. - The operator training and maintenance/technician training will be carried out on separate days so that all personnel can attain both trainings.		**EA**	1		
9.07	**Lubricant can range design services** The supplier shall provide comprehensive can design and engineering services for PSO lubricant packaging in the following nominal		**#**	1		

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	capacities: 0.7 L, 1 L, 3 L, 4 L and 10 L. The objective shall be to develop an attractive, distinctive and commercially suitable can design while optimizing empty-can weight, maintaining structural integrity<(> ,<)> ensuring product protection and facilitating efficient manufacturing<(>,<)> filling, handling, storage and transportation. Note: Only design is required for 10 Liter cans, as PSO can range is from 0.7 Liter to 10 Liters. The blow-molding machine should be capable of catering / manufacturing 0.7, 1, 3 and 4 liter cans. Target Empty-Can Weight Ranges: - The supplier shall develop designs within the following preliminary target ranges for the empty cans<(>,<)> excluding caps, plugs, labels and other separately supplied components, unless otherwise agreed. - Can Capacity and target weights as under: 0.7 L: 50#55 g,, 1 L: 55#65 g,, 3 L: 165#185 g,, 4 L: 180#200 g,, 10 L: 440#460 g,, - These ranges shall serve as preliminary design targets and shall be validated against the can geometry, manufacturing process, stacking requirements and performance criteria. The supplier shall recommend an achievable target weight for each size, supported by engineering assessment, without compromising can strength, dimensional stability<(> ,<)> leak resistance or performance during filling<(>,<)> capping, handling<(>,<)> stacking and transportation. Any proposed deviation shall be justified and approved by PSO before finalization of the designs. - Design Requirements and Coordination After PO Issuance - Following issuance of the purchase order, PSO shall share the applicable design brief, existing can references, brand guidelines, product and market requirements, and other relevant information required to initiate the design activity. The supplier shall arrange online meetings with PSO's Sales team and other relevant departments, including					

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	Lubricants Manufacturing<(>,<)> Packaging, Marketing and any other nominated stakeholders, to clarify the functional, technical, commercial and aesthetic requirements for each can size. - The supplier shall incorporate the feedback and requirements gathered during these meetings into the proposed designs. Any additional information required for design development shall be identified and communicated to PSO promptly to avoid delays. Design Development and Deliverables: The supplier shall develop can designs for all five capacities: 0.7 L, 1 L, 3 L, 4 L and 10 L<(>,<)> considering the following: - Visual design: Distinctive styling, proportions, surface features and brand presentation consistent with PSO's packaging identity and target-market positioning. - Weight optimization: Efficient material distribution and geometry to minimize empty-can weight while maintaining the required mechanical strength and service performance. - Functional ergonomics: Suitable grip and handling features, pouring convenience, cap/neck arrangement, and compatibility with the intended filling and dispensing process. - Manufacturability: Compatibility with the proposed blow moulding process, including mould parting lines, neck finish, wall-thickness distribution, draft angles and other relevant tooling considerations. - Production compatibility: Suitability for the intended filling line<(> ,<)> labelling or decoration process<(>,<)> conveyors, case packing, stacking<(>,<)> warehousing and transportation. - Design consistency: A coordinated design language across all five sizes while accommodating the specific functional and dimensional requirements of each capacity. - The supplier shall submit design concepts, proposed dimensions, target empty-can weights, material and wall-thickness recommendations, and relevant technical drawings and 3D models for PSO's review. Designs shall be revised in accordance with consolidated feedback from PSO and shall only be finalized upon written approval.					

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	Final Design and Mould-Cavity Development: - Upon approval of the designs, the supplier shall provide the finalized engineering package for all five can sizes, comprising dimensioned drawings, 3D CAD models, neck and closure interface details<(>,<)> critical tolerances, target weights and other information necessary for tooling development. - The approved designs for all five capacities shall form the basis for the development of the corresponding mould cavities. The designs shall therefore be sufficiently detailed and technically validated to enable mould design, cavity development, machine integration and subsequent sample production. - The supplier shall coordinate with the mould/tooling development team to resolve any design-related queries and ensure that the approved can geometry is suitable for practical mould manufacture and production. Any changes affecting the approved appearance, dimensions, target weight or functional performance shall require PSO's prior written approval. Review and Acceptance: - PSO shall review the submitted designs and provide consolidated feedback. The supplier shall incorporate the agreed revisions and resubmit the designs until approval. - Completion of the design services shall be subject to PSO's written approval of the final designs and receipt of the complete engineering package required for development of mould cavities for all five can capacities.					
9.08	**Extended Warranty for Blow-Molding Machi** Scope of Extended Warranty # Blow Moulding Machine: - The supplier shall provide an extended warranty for an additional period of three (3) years beyond the standard two (2)-year warranty, resulting in a total warranty period of five (5) years from the date of successful commissioning and final acceptance of the machine. - The warranty shall cover the complete blow moulding machine and all supplied equipment, components, accessories<(>,<)> tooling and auxiliary assemblies, whether manufactured by the supplier or sourced from third parties, as applicable to the supplied configuration.		#	1		

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	- The warranty coverage shall include, but not be limited to, the following: 1. Main Machine and Mechanical Assemblies: Machine frame, structural components, clamping unit, mould mounting arrangements, opening/closing mechanisms, pneumatic and hydraulic actuators, cylinders, valves, seals <(>,<)> gearboxes, bearings, shafts, couplings and other mechanical components. 2. Moulds and Tooling: All moulds supplied with the machine, including mould bodies, cavities, cores, inserts<(>,<)> neck-finish components, cooling passages, mounting arrangements and associated mechanisms, against defects in material, manufacturing, workmanship and premature failure under normal operating conditions. 3. Extrusion and Plasticising System: Extruder barrel, screw, feed system, drive assemblies, die head, parison control system and associated components, as applicable to the machine design. 4. Electrical and Control System: PLC, HMI, control panels, drives<(> ,<)> servo motors, motors, sensors, encoders, limit switches, relays<(> ,<)> contactors, wiring, control modules and associated electrical and electronic components. 5. Pneumatic, Hydraulic and Cooling Systems: Pumps, compressors where supplied as part of the machine, pneumatic valves, FRL units, hoses<(> ,<)> fittings, manifolds, hydraulic power packs, cooling circuits and associated components supplied with the machine. 6. Gripper and Take-Out System: Grippers, take-out arms, actuators<(> ,<)> guide mechanisms, transfer assemblies, gripping components and associated controls, including reliable handling and transfer of finished cans without unacceptable deformation, scratching or damage attributable to the equipment. 7. Conveyor and Product Handling System: All supplied conveyors, belts <(>,<)> rollers, drive motors, gearboxes, guides<(>,<)> transfer mechanisms, sensors<(>,<)> accumulation arrangements and associated assemblies. 8. Auxiliary and Safety Equipment: All other supplied auxiliary equipment, guards, interlocks, safety devices<(>,<)> control interfaces and accessories necessary for safe and reliable operation of the					

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	complete system. Supplier's Warranty Obligations: - Repair or replace, without additional cost to PSO, any covered component found defective due to faulty design<(>,<)> materials<(>,<)> manufacturing, workmanship or premature failure during the warranty period. - Include the cost of replacement parts, labour, technician visits<(> ,<)> dismantling, reassembly, installation, testing and recommissioning associated with warranty repairs. - Provide all necessary technical support, troubleshooting and corrective action to restore the machine to its specified operating condition. - Ensure that replaced or repaired components remain covered for the unexpired warranty period, or for a minimum of twelve (12) months from replacement or repair, whichever is later. - Attend warranty complaints within the response and rectification timelines agreed in the purchase order. - Ensure that the extended warranty carries the same scope of coverage as the standard warranty, except for any exclusions expressly identified and agreed in writing by PSO before award of the purchase order. - The warranty shall not be limited to the main machine alone and shall cover the complete supplied system<(>,<)> including moulds, gripper, take-out mechanism, conveyor and all associated assemblies. Routine wear and tear<(>,<)> consumables, damage arising from misuse, unauthorized modification or operation contrary to the supplier's documented instructions may be excluded, provided such exclusions are clearly defined in the purchase order and do not undermine coverage for premature failure under normal operating conditions. - The supplier shall submit a written warranty certificate confirming the five-year total warranty period<(>,<)> component-wise coverage, complaint response times and all applicable warranty terms before final acceptance of the machine. ========== ==========					

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	GENERAL COMPLETE SCOPE OF SUPPLY UNDER THIS PO: - The scope of supply shall be on a complete in all respect responsibility basis and shall include, without limitation: # Manufacture, testing (FAT), supply, freight, delivery (C<(>&<)>F Karachi as specified), training (2 personnel), unloading, installation <(>,<)> alignment, testing, commissioning, and performance demonstration of the common machine together with BOTH Head-Set 1 and Head-Set 2, at PSO's / its designated operating company's plant. # Complete sets of process moulds (blow moulds with de-flash tooling) for 0.7 L, 1 L, 3 L, and 4 L cans # All auxiliary utility equipment listed in section, sized and matched to the offered machine's actual utility consumption under whichever head-set draws the higher demand (utilities need not be sized additively for both head-sets simultaneously, since only one head-set operates at any given time<(>,<)> unless the bidder's design allows/requires concurrent operation, in which case utilities shall be sized accordingly and this shall be clearly stated). # All interconnecting piping, cabling, and control interfacing between the machine, moulds, and utility equipment up to defined mechanical/electrical/utility tie-in points at the plant (battery limits to be mutually agreed with PSO's engineering team during detailed engineering). PSO's and Bidder's responsibilities with regards to installation and commissioning have been defined under the line item for the same. # A documented Head-Set Changeover Procedure (major changeover between Head-Set 1 and Head-Set 2, and minor changeover between can sizes within each head-set), including any special tooling<(>,<)> lifting/handling fixtures, and storage racks/trolleys for the head-set / mould assembly not currently mounted on the machine. # Operation & Maintenance (O&M) manuals, spare-parts catalogue with recommended two (2)-year operational spares list, pricing, and lead times, electrical/hydraulic/pneumatic drawings, and as-built documentation, in both hard and soft (editable where applicable) copy					

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	(USB). # Training of PSO's / operating company's technical, production, and maintenance personnel (minimum scope defined in relevant Section)<(>,<)> covering operation of both head-sets and the changeover procedure. # Standard tool box, first-fill lubricants/hydraulic oil, and commissioning consumables. Bidder shall share the API / JASO / SAE / Other classification grade of the recommended lubricant / hydraulic oil. # Warranty support and defined post-warranty remote / on-site service arrangements (as per relevant section). Changeover Requirements Summary: # Minor changeover (within a head-set: 0.7 L to 1 L, or 3 L to 4 L) target not exceeding 4 working hours, using quick-change mould / tooling features; to be demonstrated at FAT and re-validated at SAT. # Major changeover (Head-Set 1 to Head-Set 2, i.e. quad-head to dual-head assembly): bidder to state target changeover time (not exceeding 2 working shifts), including mechanical de-mounting/mounting of the head-set, melt-manifold reconfiguration (if applicable), mould change, and control-system recipe recall; to be demonstrated at FAT and re-validated at SAT. # Bidder shall supply all special tooling, lifting/handling fixtures, and a storage rack/trolley for safe storage of the head-set/mould assembly not currently mounted on the machine, as part of the base scope. # Bidder shall provide a written, illustrated Head-Set Changeover Procedure (step-by-step, with estimated time per step) as part of the O <(>&<)>M documentation. Compressed-air / utility piping (battery limits): - Tie-in to PSO's existing plant electrical, water, and compressed-air mains to be agreed at detailed engineering stage after PO issuance and shared with PSO; bidder shall state utility demand for PSO's verification of available capacity and rectification / arrangement before machine#s arrival, if required					

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	Instructions to Bidders (ITB): Eligible Bidders: - Bidders must be original equipment manufacturers (OEMs) of extrusion blow moulding machinery with a minimum of ten (10) years' manufacturing experience, or their authorized agents/distributors in Pakistan holding a valid, current Manufacturer's Authorization Letter. Bidding Documents: - Bidders shall examine all instructions, compliance sheets, terms<(> ,<)> technical evaluation criteria and specifications in the tender document. Pre-Bid Meeting - Questions, Queries and Clarifications: - A pre-bid meeting will be held at PSO House and link for on-line participation shall be shared with interested bidders with the date to be specified once the tender is floated to clarify technical and commercial queries. Minutes of the pre-bid meeting will be circulated to all bidders and shall form part of the tender document. Amendment of Tender Documents: - PSO may, at any time prior to the deadline for submission of bids, amend the tender documents, which shall be communicated to all prospective bidders and posted in the relevant tender documents on SAP Ariba, with reasonable extension in submission deadline where necessary. Language: - Bids and all correspondence shall be in English. Currency of Bid: - Bidders to quote in US Dollars (USD) for all components / line-items. Bidder#s and PSO#s responsibilities: i) Bidder shall be responsible for delivering the blow-moulding machine, moulds, head-sets and all accessories i.e. chiller, air-dryer etc. to a					

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	port in Karachi on C<(>&<)>F basis. ii) PSO shall be responsible for custom clearance in Pakistan and transporting the delivered machines to site. iii) PSO intends to install the machine in place of existing TECHNE Model 15000 SN blow-moulding machine currently installed at the plant. PSO shall be responsible for moving the existing machine from its position<(>,<)> carrying out electrical and other utility connections i.e. compressed air, installation of delivered chiller and air dryer<(> ,<)> including required piping work. iv) PSO shall share the progress once complete, and the bidder shall be responsible for a pre-commissioning check, through any representative visit (local or foreign), or an on-line check of the site after installation. v) After a successful pre-commissioning check, bidder shall mobilize his commissioning team for all necessary commissioning, SAT and training scope and obligations. Any delay in execution of the commissioning scope attributable on account of pre-commissioning works shall not be acceptable, and PSO shall not be obliged for any additional charges if bidder#s engineers visit exceeds the originally expected timeline. Bidder shall be responsible for all additional charges on account of any extension in Engineer#s visit. No claim for extra cost on account of site conditions shall be entertained after contract award. Complete Scope Mandatory: - This tender is for a complete in all respect blow-moulding machine with BOTH Head-Set 1 (0.7 L/1 L, quad-head) and Head-Set 2 (3 L / 4 L, dual-head), accompanying accessories i.e. Chiller, Air dryer etc., together with moulds for all four can sizes. Bids offering only one head-set, or omitting moulds for any of the four can sizes, shall be treated as non-responsive to the mandatory scope and shall not be considered. Complete in all Respect Responsibility: - The successful bidder shall bear complete in all respect responsibility for the entire scope of supply, including the machine, both head-sets, all mould sets, auxiliary utilities, installation					

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	(excluding scope already accepted by PSO here-in the document), testing, and commissioning, even where sub-vendors/sub-contractors are used for individual items (e.g., chillers, compressors, individual mould sets). Site Visit: - Bidders are encouraged to visit PSO's designated plant site prior to bid submission to acquaint themselves with civil, electrical<(>,<)> and utility conditions. No claim for extra cost on account of site conditions shall be entertained after contract award. PSO shall support foreign participants for an on-line site inspection to ascertain the site conditions, if required. Eligibility and Qualification Criteria: - Bids will be considered only from bidders meeting the following minimum qualification criteria (will have to be substantiated with documentary evidence): # Minimum ten (10) years' experience in design and manufacture of extrusion blow moulding machinery. # Documentary evidence of at least three (3) similar machines (multi-head blow moulding machines of comparable or higher cavitation and clamping tonnage, ideally with interchangeable / multi-size head-set or quick-changeover tooling capability, capable of producing HDPE containers within the specified volume range and having comparable or greater production capacity/cavitation) supplied and successfully commissioned globally in the last five (5) years. # ISO 9001:2015 (Quality Management System) certification of the manufacturing facility; ISO 14001 and OHSAS 18001/ISO 45001 or other equivalent certifications(preferred). # CE marking or equivalent compliance with applicable international machinery safety directives for the offered machine. # Bidder shall mandatorily confirm the availability of local authorized agent (Pakistan-based / Karachi) capable of providing after-sales service and spare-parts support, for atleast 5 years from the machine commissioning date, with immediate response time commitment for fault resolutions (same day mobilization).					

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

Title: Supply, Installation, Testing and Commissioning of Blow Moulding Machine with Moulds and Utility Equipment on C<(>&<)>F/CFR Basis.

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	# Manufacturer's Authorization Letter where the bid is submitted by an agent / distributor rather than the OEM directly. Company / Machine-Level Certification Requirements: - Quality Management System: ISO 9001:2015 or equivalent. - Environmental Management: ISO 14001:2015 or equivalent, Preferred. - Occupational Health & Safety: ISO 45001 (or OHSAS 18001, legacy) or equivalent, Preferred,, - Machine safety: CE Marking under Machinery Directive 2006/42/EC, or compliance with an internationally recognized equivalent machinery-safety standard/regulatory framework applicable in the manufacturer's market, provided that the equivalent requirements demonstrably address machine safety<(>,<)> risk assessment, guarding<(>,<)> emergency stopping and safety-related control functions.,, - Risk assessment methodology: ISO 12100 (Safety of Machinery # General Principles) or equivalent; submit the risk assessment report. - Safety-related control functions: ISO 13849-1 (Performance Level, e.g. PLd/PLe for E-stops, guard interlocks) or IEC 62061 - Noise emission: Machinery Directive Annex I noise declaration, measured per ISO 4871 / EN ISO 3746. Motors & Drives Certifications / Standards: - Main extruder AC induction motor: IE3 minimum, IE4/IE5 preferred # IEC 60034-30-1 efficiency class - Variable Frequency Drives (VFDs):,,CE (LVD + EMC) or equivalent, IEC 61800-3 (EMC for adjustable speed drives), IEC 61800-5-1 (safety). ,, Motor bearings compliance standards: SKF, NSK, FAG, or equivalent. - Tier-1 brand certificate of origin. A formal "certification" is not necessary but a traceability document indicating origin shall be preferred. Electrical System & Control Panel certification / standards: - Machinery electrical equipment: IEC 60204-1 (Safety of Machinery # Electrical Equipment of Machines) Core standard for the whole					

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REQUEST FOR QUOTATION

(THIS IS PRICE ENQUIRY-NOT AN ORDER)
SAP No.6100018858

RFQ No	LT-20154IA
DATE	01.11.2026

Company PSO Dummy Vendor
PAKISTAN

QUOTATION REQUIRED

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	control/power wiring, or equivalent,, - Enclosure ingress protection: IP54 (or better) per IEC 60529 or other equivalent standard compliance - Low Voltage Directive compliance: CE-LVD 2014/35/EU or equivalent for panels/components sold into other than CE markets. - Electromagnetic compatibility: CE # EMC Directive 2014/30/EU or equivalent for other than CE markets - PLC/HMI hardware: Manufacturer's own UL/CE/CSA certification (e.g. Siemens, B<(>&<)>R, Allen-Bradley/Rockwell, Beckhoff), provide datasheet with relevant certifications of the specific PLC family offered. - Cabling/wiring: VDE or equivalent cable certification; RoHS compliance or other equivalent compliance. Hydraulic System certifications / standards: - Hydraulic power/fluid system design: ISO 4413 (Hydraulic Fluid Power # General Rules and Safety Requirements) or equivalent,, - Pumps, valves, cylinders: OEM certificate from a Tier-1 hydraulics brand (Bosch Rexroth, Parker<(>,<)> Yuken, Eaton, or equivalent) confirming genuine components,, Hydraulic accumulators (if nitrogen-charged circuit used): Pressure Equipment Directive (PED) 2014/68/EU or ASME Section VIII, as applicable, or other equivalent standard,, Pneumatic System Compliance: - Pneumatic components: CE; brand certification (Festo, SMC, or equivalent Tier-1 brand),, Structural / Mechanical: - Frame/structural welding:,,ISO 3834 (Quality Requirements for Fusion Welding) - Structural/pressure-bearing steel:,,Mill Test Certificate for major castings/forgings (gearbox housing, platens<(>,<)> clamp frame/moulds),, - Gearbox rating:,,ISO 6336 (gear rating) or AGMA equivalent,,,, - Bearings (main drive, clamp, linear guides):,,Certificate of authenticity from Tier-1 brand (SKF<(>,<)> FAG, NSK, THK or equivalent					

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	for linear guides) Compliance requirements for auxiliary equipment: - Water chiller:,,CE; refrigerant compliance with F-Gas Regulation (EU)517/2014 if applicable, or other local refrigerant handling rules. - Mandatory and Preferred Compliance requirements listed here-in have been documented in Annexure B - Certifications / Standards compliance sheet to be filled in by bidders. Commercial Terms & Conditions: - Delivery: Complete delivery scope (common machine platform, both head-sets, all mould sets, and utilities) shall be delivered C<(>&<)>F Karachi Port within a maximum of one hundred and eighty (180) days from the date of issuance of signed Purchase Order. Payment Terms: # Payment for: i. 3rd party FAT. ii. Witnessing of 3rd party FAT by PSO representatives<(>,<)> iii. Training at OEM's site (OEM's facility)<(>,<)> to be released upon provision of signed FAT protocol/report jointly signed by bidder and PSO approved 3rd party inspector # Payment for delivery of machine, moulds, the 2 head assemblies, chiller, air-dryer and other utilities on as delivered basis, by irrevocable, confirmed deferred Letter of Credit within 60 days of Bill of Lading of the respective items. # Payment for i. Inst, SAT & Commissioning<(>,<)> ii. 3rd party SAT<(>,<)> iii. Training at PSO location (installation site), to be made upon successful Site Acceptance Test and issuance of the Provisional Acceptance Certificate. # OEM / Bidder may choose to involve their local distributor / agent as part of the tender. Any liabilities to that account shall be the sole					

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	responsibility of the OEM and PSO shall only be liable to the payment as per the rate quoted by the bidder. # 10% bank guarantee to be released upon issuance of the Final Acceptance Certificate, or release of an equivalent bank guarantee in lieu of retention. Retention money: - A 10% retention money shall be required from the successful bidder. The bidder shall: i) Either furnish an unconditional, irrevocable bank guarantee<(>,<)> either local to Pakistan through local agent, or international in accordance with due requirements, equal to ten percent (10%) of the contract value, valid until sixty (60) days beyond the expiry of the warranty period, prior to signing Purchase Order (PO). ii) Or a deduction of 10% of the Purchase Order (PO) value shall be made from the running bills of the bidder, either through this PO or any other PSO PO. Warranty: - Minimum twenty-five (25) months from Bill of Lading date or twenty-four (24) months from the date of the Provisional Acceptance. - Certificate after successful SAT, whichever provides longer on-site coverage, covering defects in materials, design, and workmanship, for the machine AND both head-sets / mould sets, consistent with (or improved upon) the bidder#s proposal's warranty terms. - Electrical/electronic components subject to power-quality conditions shall be clearly scoped, with motor and inverter warranty explicitly included. Liquidated Damages (LD): - For delay in delivery/installation/commissioning attributable to the bidder, LD shall be charged at 0.1% of the delayed portion / line item of the contract value per day of delay, subject to a maximum cap of 10% of the PO value, beyond which PSO may terminate the contract and forfeit the performance guarantee, without prejudice to other remedies.					

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	After-Sales Support: - The bidder shall commit to a defined response time for breakdown support during and after the warranty period (e.g., remote support within 24 hours, on-site support mobilised within 7#14 days). Insurance: - The equipment shall be insured by PSO and the bidder shall provide all information necessary for PSO to do so. Force Majeure: Neither party shall be liable for delay or failure to perform obligations resulting from force majeure events, subject to prompt written notice and reasonable evidence, in accordance with the Conditions of the PO. Spare Parts Availability: - Bidder shall guarantee availability of spare parts for both head-sets and the common platform for a minimum of ten (10) years from the date of commissioning. Evaluation Requirements: - Bidder shall be required to submit technical brochures, data<(>,<)> performance curves of the quoted model alongside their technical bid. Existing utilities arrangements for Blow-Moulding Machine: - The proposed blow moulding machine shall be installed at the location of the existing TECHNE Model 15000 SN blow moulding machine. The following utilities are available at the installation location. - Bidders shall review these utilities and confirm compatibility of the offered machine. - Any additional utility requirements or modifications required for satisfactory operation shall be clearly identified in the technical bid along with the necessary drawings / technical support for the changes required.					

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	1. Electrical Supply - Supply Voltage: 400#415 V AC - Frequency: 50 Hz - Supply System: 3 Phase + Neutral + Earth - Power Distribution: Dedicated MCC feeder available - Existing Incoming Cable: Existing machine power cable available for reuse<(>,<)> - Cable Route: Existing cable trays and underground routing available - Earthing: Existing plant earthing grid available - Local Isolation: Existing lockable local isolator available - Available Connected Load: Approximately 250 kW 2. Compressed Air - Supply Pressure: Installed compressor with a maximum capacity of 266 l/sec @ 7 bar, existing machine rated average consumption: 2300 Nl / min. - Air Quality: Dry, filtered, oil-free compressed air, air dryer installed along the compressor, air-drying capacity upto 400 liters / s. - Distribution: Existing compressed air header available - Point of Connection: Existing machine air connection available - Pressure Stability: Plant compressed air system maintained between 7#8 bar 3. Chilled Water - The bidder-supplied chiller should independently produce and circulate water at a temperature to cater to the requirement of the blow-molding machine - Cooling Medium: Chilled Water - Existing Piping: Existing insulated chilled water pipeline available - Existing Isolation Valves: Available - Existing Drain Connection: Available 4. Machine Installation: - Floor Loading: Existing floor designed for current machine installation					

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	- Access for Installation: Existing loading / unloading access available - Overhead Lifting: Existing lifting arrangements / crane access available (where applicable) 5. Utilities Available Nearby: - Plant instrument air header - Chilled water supply and return headers - Electrical MCC and feeder - Plant earthing network The bidder shall confirm that the proposed machine is compatible with the above utilities and shall provide a completed utility requirement against the relevant Annexure requiring Machine's utility requirements. Notes: 1. The bidder shall state the connected load, maximum operating load<(>,<)> starting current, compressed air consumption, cooling water flow rate<(>,<)> and cooling duty of the proposed machine. 2. Any requirement for upgrading electrical cables, MCCs, chilled water piping, compressed air piping<(>,<)> or foundations shall be clearly identified and included in the bidder's scope. 3. Unless otherwise stated by the bidder, it will be deemed that the proposed machine is fully compatible with the existing site utilities and infrastructure.					