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.6100019033

RFQ No	RF20191AA
DATE	16.11.2026

Company PSO Dummy Vendor
PAKISTAN

QUOTATION REQUIRED

ON (Date)	27.11.2026	BY (Time)	

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

Title: Detailed Survey, Technical Assessment and Evaluation of Earthing Systems at CF/CORO Sites # Karachi Divisions

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
1	**Assessment of Earthing Systems at COROs**	**PSO House**				
1.01	**Earthing System** 1. Scope of Work The contractor shall undertake the following activities at all 100 CF/CORO sites of Karachi Divisions listed in Annexure-A. 1.1 Comprehensive Site Survey The contractor shall conduct a detailed physical and technical survey of the complete earthing system at each retail outlet, including but not limited to: - Existing earthing pits/bores. - Earth electrodes/earth rods. - Earthing chambers and covers. - Earth enhancement material, where applicable. - Earthing conductors/cables. - Earthing strips and connections. - Equipment earthing points. - Main earth bars/earth terminals. - Electrical panels and distribution boards. - Transformers/generators, where available. - Canopies and steel structures. - Fuel dispensing units. - Underground storage tanks and associated metallic components. - ATG systems and associated equipment. - Lightning protection system, where applicable. - Compressors and other mechanical/electrical equipment. - Signage and illuminated equipment. - Metal structures requiring bonding. - Any other equipment/system requiring electrical grounding. The survey shall identify the complete existing earthing network<(>,<)> including visible and accessible underground routes. 2. Earth Resistance Testing The contractor shall measure and record the earth resistance of each existing earthing point/pit and all applicable equipment earthing		**JOB**	100		

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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	points. 2.1 Testing Requirements 1. Testing shall be performed using third-party calibrated earth resistance testing instruments. 2. The testing instrument shall have a valid calibration certificate from a competent/accredited calibration laboratory. 3. Calibration certificates shall be submitted to PSO before commencement of testing. 4. The contractor shall use an appropriate earth resistance testing methodology suitable for the site conditions, such as: - Fall-of-Potential method; - 3-point/4-point earth resistance testing; or - Clamp-on testing where technically justified and appropriate. 5. Clamp meters shall not be used as a substitute for conventional earth resistance testing where conventional testing is technically feasible. 6. The contractor shall record: - Earth pit/point identification; - Equipment connected; - Test location; - Test method; - Instrument make/model; - Instrument serial number; - Calibration validity; - Test date/time; - Measured resistance; - Weather/site conditions where relevant; - GPS coordinates; - Pass/Fail status. 3. Earth Resistance Acceptance Criteria The contractor shall assess each reading against the applicable PSO requirement and relevant electrical standards. For this assignment, earth resistance values shall be maintained below 5 ohm, unless a stricter requirement is specified by PSO for a particular equipment/system. Acceptance:					

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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	Earth Resistance < 5 ohm = Acceptable Earth Resistance # 5 ohm = Non-Compliant / Rectification Required The contractor shall clearly identify all readings of 5 # or above in the technical report and corresponding BOQ. Where a specific equipment/system requires a more stringent value under applicable standards or PSO requirements, the more stringent requirement shall prevail. 4. Testing of Equipment Earthing The contractor shall verify that all applicable electrical and metallic equipment is properly connected to the earthing system. The inspection shall include, where available: - MDBs/SMDBs/DBs. - Generator sets. - Transformers. - Fuel dispensers/DUs. - Motors. - Compressors. - Air-conditioning equipment. - Lighting poles. - Canopy structures. - Signage. - Underground storage tanks. - ATG equipment. - Electrical panels. - Battery/UPS systems. - Metallic structures. - Lightning protection system. - Other electrical/mechanical equipment requiring grounding. The contractor shall verify both: a. Earth resistance, and b. Physical continuity/connectivity of the earthing conductor. A satisfactory earth resistance reading alone shall not be considered sufficient where the equipment is not properly bonded to the earthing network. 5. Inspection of Earthing Pits/Bores					

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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	A detailed health assessment of every existing earthing pit/bore shall be carried out. The assessment shall include: - Physical condition of earth pit/bore. - Condition of earth electrode. - Electrode material and approximate dimensions, where ascertainable. - Condition of earthing conductor. - Connection between electrode and conductor. - Condition of clamps/joints. - Corrosion condition. - Earth chamber condition. - Accessibility. - Water/moisture condition. - Earth enhancement compound condition, where applicable. - Signs of deterioration. - Broken/disconnected conductors. - Improper joints. - Loose connections. - Exposed conductors. - Damaged chambers/covers. - Evidence of previous repairs. - Approximate age/condition, where ascertainable. - Overall health status. Each earthing pit/bore shall be classified as: Good / Satisfactory / Requires Maintenance / Requires Rectification / Requires Replacement The contractor shall specifically comment on the remaining serviceability/health of each earthing bore based on physical inspection and test results. 6. Earthing Network Continuity & Interconnection The contractor shall verify the interconnection of the earthing system throughout each site. The assessment shall identify: - Main earth bar. - Individual earth pits.					

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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	- Interconnecting conductors. - Equipment earth connections. - Bonding arrangements. - Underground connections. - Missing connections. - Broken/disconnected conductors. - Improper conductor sizes. - Inadequate joints. - Corroded connections. - Unauthorized modifications. - Any parallel/incorrect connections. Where the existing arrangement cannot be physically verified due to underground routing, the contractor shall clearly state the limitation in the report and recommend suitable investigation/rectification. 7. Earthing Cable/Conductor Inspection The contractor shall inspect existing earthing conductors for: - Cable size. - Cable type/material. - Insulation condition. - Mechanical damage. - Corrosion. - Termination quality. - Lug/clamp condition. - Routing. - Protection against mechanical damage. - Adequacy of conductor size. - Proper connection to equipment. - Proper connection to earth electrode. - Identification/tagging. Any conductor found undersized, damaged, corroded, improperly terminated or otherwise non-compliant shall be identified for rectification. 8. GPS-Enabled Photographic Evidence The contractor shall provide GPS-enabled photographic evidence for every tested earthing point/location. Photographs shall clearly show, where practicable:					

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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	1. Earthing pit/earth chamber. 2. Earth resistance meter during testing. 3. Displayed earth resistance reading. 4. Equipment/point being tested. 5. Earthing cable/connection. 6. GPS/location information. 7. Relevant deficiency, if identified. Photographs shall be properly indexed against the corresponding earthing point number. Photographs shall be clear, date/time stamped and GPS-enabled. 9. Earthing Inspection Report The contractor shall prepare a complete site-wise Earthing Inspection Report using the format provided by PSO as an annexure to this RFQ. The report shall include, as a minimum: - Site name/code. - Site address. - Date of inspection. - Contractor's inspection team. - Testing instrument details. - Calibration certificate details. - Weather/site conditions, where relevant. - Earthing pit inventory. - Equipment-wise test results. - Earth resistance readings. - Continuity observations. - Physical condition assessment. - Deficiencies/non-conformities. - Photographic evidence. - GPS coordinates. - Pass/fail status. - Recommended corrective action. - Priority of rectification. - Site summary. The contractor shall not alter the prescribed PSO report format without prior approval of PSO.					

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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	10. Site Layout Drawings The contractor shall prepare an accurate earthing layout drawing for each of the 55 sites. The drawing shall clearly indicate: - Site boundary. - Existing earthing pits/bores. - Earthing pit identification numbers. - Main earth bar. - Equipment earthing points. - Earthing conductors. - Underground earthing cable routes. - Interconnections between earth pits. - Equipment connected to each earthing point. - Underground trenches associated with the earthing network. - Approximate dimensions/distances. - North direction. - Relevant buildings/structures/equipment for orientation. The drawing shall distinguish between: Existing / Verified / Proposed / To Be Rectified where applicable. Drawings shall preferably be submitted in AutoCAD DWG and PDF formats. 11. Identification & Tagging of Earthing Points Every earthing pit and tested earth point shall be assigned a unique identification number. For example: KHI-01-EP-01 Where: - KHI = Karachi Division - 01 = Site number - EP = Earth Pit - 01 = Earthing point number The contractor shall maintain the same identification throughout: - Physical tagging; - Earth test report; - Photographs;					

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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	- Layout drawing; - BOQ; - Rectification report. 12. Earth Value Tagging & Six-Month Validity After successful testing, the contractor shall provide and affix a durable identification/tagging system on each applicable earthing cable/point. The tag shall include, as a minimum: - Earthing point ID. - Measured earth resistance. - Test date. - Validity date. - Contractor identification. - Reference to test report. The test validity shall be considered six (06) months from the date of testing. Six-Month Rectification Warranty If, within six months from the date of testing: - The earth resistance of any tested earthing point becomes 5 # or above, or - Any fault attributable to the contractor's testing/rectification work is identified<(>,<)> the contractor shall re-test and rectify the affected earthing system at no additional cost to PSO. The contractor shall carry out the necessary corrective work and restore the earth resistance to: < 5 ohm within the period specified by PSO. This obligation shall apply without additional testing, labour<(>,<)> mobilization or material charges to PSO. 13. Deficiency & Non-Conformity Assessment The contractor shall identify all deficiencies and classify them according to severity. Critical Conditions presenting immediate electrical/HSE risk, including: - Completely disconnected equipment earthing.					

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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	- Severely defective earthing. - Dangerous exposed conductors. - Critical electrical equipment without effective grounding. - Major bonding deficiencies. Major Conditions requiring prompt corrective action, including: - Earth resistance #5 #. - Defective earth pit. - Damaged/corroded earth conductor. - Improper earthing connection. - Inadequate bonding. - Defective earth chamber. Minor Conditions such as: - Damaged identification. - Minor corrosion. - Defective covers. - Poor tagging. - Other non-critical deficiencies. The final classification may be modified by PSO based on site risk assessment. 14. Rectification Recommendations For every deficiency, the contractor shall provide a technically appropriate rectification recommendation. The recommendation shall clearly specify: - Existing problem. - Root cause, where identifiable. - Recommended corrective action. - Required material. - Required quantity. - Technical specification. - Labour requirement. - Civil works requirement. - Testing requirement. - Expected final result.					

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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	The contractor shall not simply recommend replacement of all earthing pits/bores without technical justification. 15. Comprehensive BOQ A detailed site-wise BOQ shall be prepared for all recommended rectification works. The BOQ shall include, where applicable: - Earth rods/electrodes. - Earthing cables/conductors. - Copper/GI strips. - Earth clamps. - Lugs. - Connectors. - Earth enhancement compound. - Earth chambers. - Inspection pits. - Civil works. - Excavation. - Backfilling. - Cable laying. - Trenching. - Welding/brazing. - Testing. - Identification tags. - Protective conduits. - Cable glands. - Termination accessories. - Equipment bonding. - Any other required material/work. The BOQ shall clearly distinguish between: Existing Quantity / Required Quantity / Deficient Quantity / Proposed Rectification Quantity 16. Quantity Take-Off & Cost Estimate The contractor shall prepare a detailed quantity take-off for each site. A consolidated BOQ shall also be submitted for all 55 sites. The contractor shall provide:					

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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	1. Site-wise BOQ. 2. Consolidated BOQ. 3. Quantity calculations. 4. Unit of measurement. 5. Technical specifications. 6. Estimated unit rates. 7. Estimated cost. 8. Site-wise estimated rectification cost. 9. Total estimated project cost. The BOQ shall be sufficiently detailed to enable PSO to subsequently issue a separate work order/PR for rectification works, if required. 17. Final Technical Assessment Report A consolidated technical report shall be submitted covering all 55 sites. The report shall include: Executive Summary - Total sites inspected. - Total earth pits/points tested. - Number compliant. - Number non-compliant. - Number requiring replacement. - Number requiring maintenance. - Overall condition of Karachi Division earthing network. Site-wise Assessment - Individual findings. - Test results. - Photographs. - Drawings. - Deficiencies. - Recommended corrective actions. - BOQ. - Estimated cost. Consolidated Analysis - Site-wise compliance percentage.					

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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	- Number of readings below 5 ohm. - Number of readings #5 ohm. - Critical deficiencies. - Major deficiencies. - Minor deficiencies. - Recommended priority of works. 18. Deliverables The contractor shall submit the following: Sr.,,Deliverable 1,,Site survey/inspection 2,,Equipment-wise earth resistance readings 3,,Earth pit/bore health assessment 4,,Earthing continuity assessment 5,,GPS-enabled photographs 6,,Completed PSO Earthing Inspection Report 7,,Site-wise technical assessment 8,,Site-wise earthing layout drawing 9,,Site-wise BOQ 10,,Site-wise cost estimate 11,,Consolidated BOQ for 55 sites 12,,Consolidated cost estimate 13,,Deficiency/non-conformity register 14,,Earthing point identification/tagging 15,,Six-month validity/warranty commitment 16,,Final consolidated technical report 17,,Soft copies of all reports/drawings 18,,Calibration certificates of testing instruments 19. Vendor Qualification Requirements The bidder/contractor must demonstrate relevant technical competence and experience. Minimum Experience The contractor shall have: - Minimum 03 years of relevant experience in electrical earthing<(>,<)>					

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	grounding, electrical testing, lightning protection or related electrical inspection works. - Experience of carrying out earthing testing/assessment at industrial , commercial, petroleum, oil & gas, power or similar facilities. - Successfully completed at least 03 similar assignments involving comprehensive earthing testing/assessment. Preference may be given to vendors having experience at: - Oil marketing companies. - Petroleum storage/dispensing facilities. - PSO/other OMC retail outlets. - Industrial facilities. - Power plants. - Large commercial facilities. 20. Required Technical Personnel The contractor shall deploy suitably qualified personnel. Minimum team: Electrical Engineer - B.E./B.Sc. Electrical Engineering or equivalent. - Registered with relevant professional body, where applicable. - Minimum 03 years relevant experience. Electrical Testing Technician - Diploma/technical qualification in electrical field. - Minimum 03 years relevant testing experience. - Demonstrable experience with earth resistance testing equipment. The contractor shall provide CVs of proposed key personnel along with the quotation. PSO reserves the right to reject personnel considered technically unsuitable. 21. Testing Equipment Requirements The contractor shall provide calibrated testing equipment suitable for the assignment, including: - Digital Earth Resistance Tester. - Earth Resistance/Soil Resistance Testing Equipment where required. - Continuity Tester/Micro-ohmmeter, where required. - Clamp meter where technically applicable.					

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	- Multimeter. - GPS-enabled camera/mobile device. - Other necessary electrical testing equipment. All testing equipment shall have valid calibration certificates. PSO reserves the right to inspect testing instruments before commencement of work. 22. HSE Requirements The contractor shall comply with all applicable PSO HSE requirements. The contractor shall: - Conduct toolbox talks before work. - Use appropriate PPE. - Follow site safety rules. - Obtain required work permits. - Follow electrical isolation/LOTO requirements where applicable. - Ensure safe testing practices. - Barricade work areas where required. - Avoid interference with retail operations. - Ensure testing does not create a hazard to customers, staff or site personnel. - Follow all instructions of the PSO site representative. Any unsafe act/work shall be stopped immediately by PSO. 23. Coordination with PSO The contractor shall coordinate with: - PSO Divisional Engineer. - Site/retail outlet management. - PSO HSE representative, where required. - Other relevant PSO departments. No site shall be visited without prior coordination with the designated PSO representative. The contractor shall submit a site visit/testing schedule before commencement. 24. Site Access & Operational Constraints Since the work shall be carried out at operational retail outlets: - Contractor shall plan testing to minimize disruption to retail operations.					

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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	- No equipment shall be disconnected without PSO/site representative approval. - No excavation shall be carried out without prior approval. - No underground service shall be disturbed. - Any excavation required for verification shall be carried out safely and restored after inspection. - Contractor shall remain responsible for damage caused due to negligence. 25. Accuracy & Responsibility of Contractor The contractor shall be fully responsible for the accuracy of: - Earth resistance readings. - Equipment identification. - GPS coordinates. - Photographs. - Drawings. - Quantity calculations. - BOQ. - Technical recommendations. Any false, manipulated or technically unreliable test result shall be considered a material breach of the assignment. PSO reserves the right to independently re-test any earth point. 26. PSO Verification / Random Re-Testing PSO may randomly select any tested earth point for independent verification. If the independent reading materially differs from the contractor's reported reading or the contractor's test methodology is found inadequate, PSO may require: - Re-testing of the affected site; - Re-testing of additional sites; - Submission of revised reports; - Replacement of defective/invalid test results; at no additional cost to PSO. 27. Rectification Responsibility During Validity Period The contractor shall remain responsible for the six-month testing validity/warranty for the points covered under this assignment.					

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	Where a tested point exceeds 5 ohm within six months, the contractor shall: 1. Revisit the site. 2. Re-test the affected point. 3. Identify the reason for deterioration. 4. Carry out necessary corrective action. 5. Re-test after rectification. 6. Submit updated reading. 7. Restore the value to below 5 #. 8. Update the relevant tag/report. All such activities shall be carried out without additional cost to PSO. 28. Reporting Format All reports shall be submitted in: Editable Format - MS Excel - MS Word - AutoCAD DWG Final Format - PDF Photographs shall be provided in original/high-resolution format and properly indexed. The contractor shall maintain the same unique identification number across all documents. 29. Submission of Final Documentation The contractor shall submit a complete digital folder structure<(>,<)> preferably arranged as: Karachi Division # Site Name # 1. Earth Test Report 2. Photographs 3. Layout Drawing 4. Deficiency Report 5. BOQ 6. Cost Estimate 7. Calibration Certificates 8. Final Site Report					

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RFQ No	RF20191AA
DATE	16.11.2026

Company PSO Dummy Vendor
PAKISTAN

QUOTATION REQUIRED

ON (Date)	27.11.2026	BY (Time)	

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

Title: Detailed Survey, Technical Assessment and Evaluation of Earthing Systems at CF/CORO Sites # Karachi Divisions

S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	A consolidated folder shall also be provided for all sites. 30. Completion Period The contractor shall complete the entire assignment within the period specified in the Purchase Order/Work Order. The contractor shall submit a detailed work schedule covering: - Site mobilization. - Site surveys. - Testing. - Data compilation. - Drawings. - BOQ preparation. - Draft report. - PSO review. - Final report submission. Any delay attributable to the contractor shall be subject to applicable contractual terms. 31. Acceptance of Work The assignment shall be considered complete only after: - All sites have been surveyed. - Required earth resistance measurements have been completed. - All applicable equipment has been assessed. - All earthing pits/bores have been evaluated. - GPS photographs have been submitted. - Site drawings have been submitted. - Site-wise BOQs have been prepared. - Consolidated BOQ has been submitted. - Technical reports have been submitted. - All PSO observations/comments have been incorporated. - Final reports have been accepted by the designated PSO representative. Submission of a report alone shall not constitute completion unless technically acceptable to PSO. 32. Commercial Requirements The bidder shall quote on a complete assignment basis covering all costs associated with the scope, including: - Mobilization/demobilization.					

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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S.No.	Description/Specifications	Location	Unit	Qty	Unit Price Rs.	Amount Rs.
	- Transportation. - Labour. - Testing equipment. - Calibration. - Testing. - Site visits. - Documentation. - Photography. - GPS tagging. - Drawings. - BOQ preparation. - Technical reporting. - Re-testing. - Six-month warranty obligations. No additional payment shall be made for activities reasonably necessary to complete the defined scope. 33. Taxes & Statutory Charges All applicable taxes, duties, levies and statutory charges shall be clearly identified in the commercial quotation. The bidder shall provide valid: - NTN. - GST/PRA registration, as applicable. - Other statutory registrations/licenses applicable to its business. 34. Confidentiality All information, drawings, photographs, site data, electrical information and technical documentation obtained during the assignment shall be treated as confidential. The contractor shall not share any PSO site information, photographs , drawings or reports with any third party without prior written authorization from PSO. 35. Subcontracting The contractor shall not subcontract the core testing/technical assessment activities without prior written approval from PSO. The primary contractor shall remain fully responsible for the quality , accuracy and compliance of all work.					

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	36. Deviations The bidder shall clearly identify any deviation from the technical scope. Failure to identify a deviation shall be considered acceptance of the complete RFQ scope and requirements. 37. Right of PSO PSO reserves the right to: - Verify test results independently. - Reject technically inadequate reports. - Request re-testing. - Request correction of drawings. - Request clarification of BOQ quantities. - Reject unsuitable testing instruments. - Reject unsuitable personnel. - Inspect work during execution. - Suspend unsafe activities. - Accept/reject deliverables based on technical compliance. 38. Penalty Completion timeline is 200 days from date of site handing over date upto maximum of 10% of work order value. Penalty of 1000/day will be applicable after 200 days.					