PAKISTAN MINERAL DEVELOPMENT CORP.

Head Office
Plot No: 13, Sector H/9, Islamabad 44000,
Pakistan.
Tel: 9265123-24
E-mail: info@pmdc.gov.pk
www.pmdc.gov.pk

Say No to Corruption

Invitation of E-BID

Pakistan Mineral Development Corporation is an autonomous corporation under the administrative control of Ministry of Energy (Petroleum Division), Government of Pakistan invites electronic bids from the interested Parties/Contractors having valid registration with PEC (Pakistan Engineering Council) under Code (EE-05) & Federal Board of Revenue (FBR)/Respective Revenue Boards for income tax & sales tax and who are on active taxpayer list (Income & Sales Tax) of the Federal Board of Revenue (FBR)/Respective Revenue Boards for **"Supply/Installation and Commissioning of New 1000 KVAR Automatic Voltage Regulator (AVR) for 11 KV for PMDC Collieries Sor – Range, Quetta"**

E-Bidding documents containing detailed terms and conditions, method of procurement, bid security, opening of bid, etc. are available electronically and can be downloaded from EPADS-PPRA Website: https://eprocure.gov.pk free of cost.

The electronic bids, prepared in accordance with the instructions in the bidding document along with bid money amounting to **Rs.800,000/-** in the shape of demand draft/pay order in the name of Pakistan Mineral Development Corporation on account of bidder must be submitted by using EPADs on or before **10.06.2026 at 11:00 AM**. Tenders will be opened on EPAD on the same date at **11:30 AM** in the presence of participants who may desire to attend the tender opening.

Note:-

1. Original Bid Security Instrument must be submitted to undersigned, before the online submission deadline of the bid; otherwise, respective bid will not be entertained.
2. In case of any technical difficulty in using EPADS, prospective bidders may contact PPRA Office, 1st Floor, FBC building Sector G-5/2, Islamabad. Contact Number 051-111-137-237.

AVP (Procurement)
PMDC Head Office, H-9/4, Islamabad
Phone: 051-9265128
E-mail: dgm-pro@pmdc.gov.pk

PMDC Head Office, Islamabad
Procurement Department

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Ref No. PMDC/ Tender Enquiry No. PMDC/PROC/AVR/SR
DUE FOR OPENING ON: 10.06.2026 AT 11:30 AM

TENDER FOR "SUPPLY/INSTALLATION AND COMMISSIONING OF NEW 1000 KVAR AUTOMATIC VOLTAGE REGULATOR (AVR) FOR 11 KV FOR PMDC COLLIERIES SOR – RANGE, QUETTA"

1. INTRODUCTION

E – Tenders are invited from the interested Parties/Contractors, having valid registration with PEC (Pakistan Engineering Council) under Code (EE-05) & Federal Board of Revenue (FBR)/Respective Revenue Boards for income tax & sales tax and who are on active taxpayer list (Income & Sales Tax) of the Federal Board of Revenue (FBR)/Respective Revenue Boards for "**Supply/Installation and Commissioning of New 1000 KVAR Automatic Voltage Regulator (AVR) for 11 KV for PMDC Collieries Sor – Range, Quetta**".

2. SCOPE OF WORK

1 Supply/Installation And Commissioning of new 1000 KVAR Automatic Voltage Regulator (AVR) for 11 KV with the following specifications :-

Specification Type	Explanation / Requirement
Standards	ANSI C57.15 or Equivalent Standard rules
Rated Voltage	11-KV
Input Voltage Range	11KV ±30%
Output Voltage	11KV ±2%
Frequency	50-Hz
No. of Phases	3
Max. 3-Phase Symmetrical fault current	20 x Nominal current
Lightning Impulse withstand voltage	95-KV peak
One minute power frequency withstand	28-KV rms
Cooling class	Oil Natural Air Natural (ONAN)
Line Load	1000-KVA (approx.)
Means of tap changing	On load automatic
Tap Changer Type	On Load
Tap Changer rating	1.5 times Max rating
Tap Changer Power Supply	Self Powered.

Tap Changer Voltage Regulation	Automatic electronic
Input correction range of voltage & frequency.	The AVR should be manufactured such that it will maintain electrical properties, even under severe overload, under/over voltage and under/over frequency conditions. Input correction range should be -30% to +30% of nominal input voltage (11-KV). The system design should be capable of operating at an input frequency range of -15% to +10% of nominal frequency. This is accomplished without clearing protective devices or causing component failure within the AVR. When generator or utility power is restored, the AVR should automatically restart. Upon turn on or restart, the output of the AVR should not exceed the specified output regulation limits. If the input voltage or frequency exceeds programmable minimum or maximum set points for a programmable time period, the AVR should electronically shut off (factory set for 10 seconds). When electrical parameters are back within acceptable limits for a programmable time period (factory set for 60 seconds), the AVR should automatically restart to provide conditioned power to the load. If the input parameters are within acceptable limits, but the output voltage is outside of acceptable programmed limits, the AVR should electronically shut off and require a manual restart. The AVR should be capable of operating at 100% rated load capacity continuously.
Response Time	The AVR should respond to any line voltage variation in 1/2 cycle while operating linear or non-linear loads, with a load power factor of 0.60 of unity. Peak detection of the voltage sine wave should not be permitted to avoid inaccurate tap switching due to input voltage distortion.
Line Voltage Regulation and Correction Time	Output regulation should be +5%, -6%, given an input voltage variation of -30% to +30% for nominal, when within +/-5% of the nominal frequency. The AVR output voltage should be corrected to within +5%, -6% or less within 1 cycle per tap for an under voltage condition. For an over voltage condition, the output should correct within 1 cycle directly. Typical correction time should be 1 to 2 cycles. No load to full load regulation should be 3% typical under linear loading.
Operating Frequency	The AVR should be capable of operating at +10% to -15% of the nominal frequency. And 50 Hz with programmable high & low limits to alarm and electronically shut down the AVR. Limits should be set to +/-2Hz from nominal and electronic shutdown should occur if limits are exceeded for 10 seconds. Once back within limits for a programmable time period of 60 seconds, the AVR should automatically restart.
Input over current protection	The AVR should be provided with an Integral, three pole, molded case, manually operated, thermal magnetic input circuit breaker rated at 125% of the full load input current. In addition, the system input current (Phase A, B, C) should be monitored and digitally displayed. Programmable over current alarm should be provided.

Temperature Rise	Designed for 115°C maximum rise above 40°C ambient.
Output Impedance	3% to 5%.
Regulation	2% to 4% maximum at full resistive load; 6% at rated nonlinear load.
Full Load Efficiency	96% to 98% at non-linear load.
Coil Insulation	200°C C-Class.
Audible Noise	Maximum allowable noise level should not exceed 65dB measured at 3-feet distance.
Alarms	The AVR should be provided with an Input over/under voltage, input over current, over/under frequency, voltage phase reversal, voltage phase imbalance, output over/under voltage, and output over current alarms. The Alarms should reset automatically upon return to nominal operating conditions.
Fuse Failure Indicators	The AVR should be provided with Individual "Fuse Failure" indicator lights for phase A, B, and C, on the front panel for diagnostic purpose. Failure of either fusible links or phase semiconductor fuses should be indicated.
Indicators	The AVR should be equipped with both an "Output Failure" and "Over Temperature" indicator lights on the front enclosure. In addition to an output over/under voltage condition/ However, not caused by the input voltage or frequency being out of range. An input "Out of Range" indicator light should be provided on the meter face to indicate that the input voltage or frequency has exceeded acceptable limits.
Metering	Digital input meter to be provided to display line voltages, line currents, frequency, KVA, kW, and power factor. A Separate digital output meter should be provided to display line-to-line voltages, line-to-neutral voltages, phase currents. Both meter should have Programmable min/max value set points.
Input/Output Cable Connections	The AVR should have provisions for the installation of cable lugs directly to the input/output bus bars or conductors to the input/output terminals provided. Allow sufficient up to 300-mm2 copper conductors per phase.
Input Transient Voltage Surge Suppressor	Input transient voltage surge suppressor (TVSS) should be provided external to AVR to divert high energy voltage spikes.
Above Sea Level (ASL)	AVR to be installed at 6500-feet ASL.
Cores	Low loss design with sturdy clamping to prevent axial movement and allow high short circuit strength.
Oil	AVR should be supplied with mineral insulating oil as per AS1767 or equivalent. Regulators should be thoroughly dried out and vacuum filled. Facilities should be provided to check for the correct oil level without disassembly. Drain valve and oil sampling device to be fitted. Oil filler cap should be screw onto male threaded pipe on the lid and should be located so that pipe may be passed through it to the bottom of the tank.
Regulator Lifting & Lashing	Lifting lugs/eyes are required for tank, core/windings, and lid. The tank lifting lugs or eyes are to be suitable for lifting the complete regulator. Lugs should also be provided on the AVR for bottom down

	when ground/platform mounted. Lugs should also be provided for lashing during transport.
Tank Earthing Terminal	The tank should have two unpainted stainless steel earthing lugs welded to it at diagonally opposite corners near ground level. Earthing Lugs should have Minimum cross-sectional area 300-mm².
Surface Finish	AVR Tank & other should be of Stainless steel construction and painted per standard rules.
Type Tests	AVR should be of Type tested design. At least the following tests had been conducted on AVR in accordance with standard rules. • Applied Frequency, • Induced Potential, • Impulse Test, • Short Circuit Test.
Rating Plates	To be provided as per standard rules. Labels in English.
Year of Manufacturing	2025 onward.
Warranty	Minimum one year from start of operation.
Maintenance Requirements	Information required to operate and maintain equipment throughout operational life.
Other Accessories	All fittings/accessories necessary for safe operation of the equipment should deemed to be included, whether mentioned in the specification or not.

2 All the Civil Works for making of foundation pad for AVR including labor & material.

3 Supply, Laying and Termination of 50 meters 3 Core Copper, XLPE, 11 KV Cables (minimum 95mm2 or as per standard size for 1250 KVA load) from HT Pole/Underground to AVR with all the required material.

4 Supply, Laying and Termination of 50 meters 3 Core Copper, XLPE, 11 KV Cables (minimum 95mm2 or as per standard size for 1250 KVA load) from AVR with HT Panel Terminals with all the required material.

5 Supply, laying, termination of copper earthing cable 1 core 95mm2

6 Boring of 03 earthing pits with all required material.

7 Fencing with door for AVR

8 Poles for support of 11KV cable.

9 All required material, labor, transportation etc. for completion of job in all respect.

10 NOC from concern electric inspector.

The bidders are required to fill the rates in the below mentioned BOQ :-

3. BILL OF QUANTITIES

Sr. No.	Detail of Works	Qty.	Unit Rate in PKR (Inclusive of All Taxes)	Total Price in PKR (Inclusive of All Taxes)

01	**Supply/Installation and Commissioning of New 1000 KVAR Automatic Voltage Regulator (AVR) for 11 KV. <u>AS PER SPECIFICATIONS GIVEN ABOVE</u>** Complete in all respect including the cost of all required material, labor, transportation etc. for completion of job or as directed by Engineer/In-charge.	01 No.		
02	**Foundation Pad** Fabrication of foundation pad suitable for offered AVR in respect to dimension, weight, etc.. This job includes all cost related to all civil works like labor, all materials etc. Complete in all respect including the cost of all required material, labor, transportation etc. for completion of job or as directed by Engineer/In-charge.	01 Job		
03	**Supply, Laying and Termination, Connection of 03 core Copper, XLPE, 11 KV cable (minimum 95mm2 or as per standard size for 1250 kVA load)** Supply, Laying and termination (with material like cable lugs, glands, ladder support/Trench, etc. from HT Overhead/Underground line to AVR) of 03 core, 11 KV cable (as per standard size for 1250 kVA load) from HT Pole/Underground to AVR. Cable Brand : Pakistan Cables. Complete in all respect including the cost of all connections cables and required material, labor, transportation etc. for completion of job or as directed by Engineer/In-charge.	50 meters		
04	**Supply, Laying and Termination Connection of output 03 core Copper, XLPE, 11KV Cable (minimum 95mm2 or as per standard size for 1250 KVA Load)** Supply, Laying and termination Connection of output, 03 core, 11KV Cable (as per standard size for 1250 KVA Load) from AVR with HT Panel Terminals (with material like cable lugs, glands, ladder support/Trench, etc.) Cable Brand : Pakistan Cables.	50 meters		

	Complete in all respect including the cost of all connections cables and required material, labor , transportation etc. for completion of job or as directed by Engineer/In-charge.			
05	**Boring/commissioning of 03 new separate earthing pits** Boring/commissioning of 03 new separate earthing pits upto water table/as per technical standard and for AVR Body, neutral and SWG including the cost of bare copper conductor for connection to earthing pit, chemicals etc. Complete in all respect including the cost of all required material, labor , transportation etc. for completion of job or as directed by Engineer/In-charge.	01 Job		
06.	**Supply, Laying, commissioning of Earthing Copper Cable 1 core, 95mm2 (PVC)** Supply, Laying, commissioning of Earthing Copper Cable 1 core, 95mm2 (PVC) by ensuring that ohms is as per relevant technical standard. Complete in all respect including the cost of all required material, labor, transportation etc. for completion of job or as directed by Engineer/In-charge.	90 meter		
07.	**Poles** Supply, transportation, erection, and installation of Steel Structure poles (as approved) of anti-corrosive material for supporting 11 kV cable line for AVR, including excavation of pits, pole erection, alignment, backfilling, ramming, and concreting of pole foundation (1:2:4). The item includes provision and fixing of cross-arms, clamps, brackets, insulators (if required), cable support system and all necessary hardware. The work also includes stringing, dressing, and proper clamping of 11 kV cable along poles, maintaining required clearances as per standards. Complete in all respect including the cost of all required material, labor, transportation etc. for completion of job or as directed by Engineer/In-charge.	As per requirement		
08.	**Protective fencing** Supply, fabrication, installation, and fixing of protective fencing (minimum 6 feet height) along with door around the	01 Job		

	premises AVR (Automatic Voltage Regulator), comprising of MS (Mild Steel) angle/frame with chain link/expanded metal mesh of approved quality, including vertical posts embedded in concrete foundation (1:2:4), complete with all required civil works, paint etc. Complete in all respect including the cost of all required material, labor, transportation etc. for completion of job or as directed by Engineer/In-charge.			
09	**No Objection Certificate (NOC)** Obtaining No Objection Certificate (NOC) and Fitness Certificate from the Electric Inspector of the relevant Electrical Inspection Authority for AVR system, including completing/submitting all pre-requisites thereof if required. Complete in all respects as per requirements and Engineer In-charge instructions.	01 Job		
10	**Testing & Commissioning** of AVR at Site on supplied load for minimum 02 hours. Complete in all respects as per requirements and Engineer In-charge instructions.	01 Job		
G. TOTAL IN PKR (INCLUSIVE OF ALL TAXES)				

- The bidders are advised to visit and examine the site of the works and its surroundings on their own responsibility, all information that may be necessary for preparing the bid and entering in to contract agreement. The cost incurred in visiting the site shall be at the bidders own expense. The bidder will have to examine the site conditions, existing electrical network etc.
- All the works, fittings and accessories that might not have been mentioned specifically in the scope/specification but are necessary for the system(s) should be deemed to be included in the cost.
- The Contractor shall ensure that all supplied equipment conforms to relevant international standards, including IEC where applicable, and is brand new, genuine, unused, and free from

defects. The equipment shall be fully operational, perform reliably, and strictly comply with the specifications outlined in above BOQ.

- ❖ Bidders are requested to attach complete brochure/manufacturer documents etc. and any other additional detail of the offered items.
- ❖ Year of manufacturing 2025 to onward.
- ❖ Warranty : one-year free comprehensive onsite warranty, which must include labor, parts replacement and any other related service.

4. GENERAL TERMS AND CONDITION

1. Electronic Bid must be submitted on EPAD on or before **10.06.2026** at **11:00 AM** which will be opened on the same day at **11:30 AM** in the presence of tenderers or their representatives who desire to participate.
2. Bid Money amounting to **Rs.800,000/-** in the form of pay order/demand draft made in the name of Pakistan Mineral Development Corporation on account of bidder from any scheduled bank shall accompany the bid/tender. Tender with less or without bid money (in the form of pay order/demand draft) or pay order/demand draft shall not be considered.
3. The bidder must possess valid registration with the Pakistan Engineering Council (PEC) under Category/Code EE-05.
4. Successful tender will be required to deposit security money @ 10% of the total value and bid money already deposited will be converted into security deposit while balance amount shall have to be deposited to maintain the Security deposit @ 10% of the total value which will be refunded after successful completion of DLP.
5. Tenders will be evaluated on least cost method. Bidders meeting the required all mandatory required documents and relevant experience, will be considered Technical responsive among the technical responsive bidders the contract will be awarded to the bidder offering the lowest evaluated price.
6. The rates should be quoted in PKR and should be inclusive of all applicable/prevailing taxes. Any increase in taxes at any stage shall not be considered.
7. The rates, prices and amounts shall be entered against each item in the Schedule of Prices/BOQ. Any item against which no rate or price is entered by the bidder will not be paid for by the Employer when executed and shall be deemed covered by the rates and prices for other items in the Schedule of Prices.
8. Interpretation of the PMDC regarding the tendered rates in case of any discrepancy regarding unit rates and total amount shall be final.
9. Escalation of cost at any circumstances will not be permitted.
10. The successful bidder shall be required to furnish Integrity Pact if applicable, as per PPRA Rules.

11. The bidder will be responsible to carry out the works as per detailed mentioned in BOQ and the payment to the contractor shall be made on actual work done.

12. No running/interim payment will be applicable.

13. Conditional bids shall be liable to rejection.

14. The Project Manager/Engineer may request samples of material to be installed in order to check its quality for approval purpose.

15. The quantity can be increased (upto 15% of the total contracted quantities/amount) or decreased during the period of the contract at the sole discretion of PMDC without any prior notice to contractor.

16. No extra item shall be allowed to be executed without written orders from the concern Project Manager.

17. Concern Project Manager shall reserve the right to add/ delete any item from bill of quantities and the contractor will be responsible to execute any extra item required at site to complete the work and the payment for the same shall be made on mutually agreed rates.

18. No extra payment for water and electricity works etc. shall be claimed by the contractor.

19. The Contractor shall be responsible to make complete arrangements for the transportation/storage/security of the material etc. and the security/stay of his staff/workers.

20. The Contractor shall also ensure that the installation and workmanship are of the highest professional quality

21. The contractor shall use all safety equipment/PPEs for the execution of the work as per WAPDA standards and any damages to contractor's staff shall be sole responsibility of the contractor.

22. Any damages to PMDC assets, HR of whatsoever nature shall be completely borne by the contractor.

23. The contractor shall execute works in a manner that daily operations/works of PMDC may not be affected.

24. The Contractor shall execute the work during official working hours only. Work shall not be carried out on holidays except with prior written approval from PMDC

25. Bids should remain valid for a period of 90 days from the date of opening of tenders. In case no specific date of validity is mentioned in the offer, it will be presumed to be valid for a period of 90 days from the date of opening of tender.

26. If the contractor fails to fulfill the contractual obligations of the contract, then the Security deposit will be forfeited.

27. All taxes will be applicable/deducted as per prevailing Government rules.

28. Firm/Contractor should be of sound financial health and shall provide Bank statement covering last 12 months (from the date of submission of bid).

29. Firm/Contractor must provide a list of the construction machinery and equipment available with the tenderer.

PMDC Head Office Procurement Department 13-H/8, Islamabad

30. The tender for the supply / work will be completed / delivered at PMDC Collieries, SOR Range Quetta.

31. Completion time period will be 04 months. In case of delay, LD Charges @ rate 0.10% of total contract value will be applied per day upto 10 % of Total Contract Value.

32. Suspension of work arising from causes not attributable to the Contractor shall entitle the Contractor to extension of time as determined by PMDC. However, delays caused by idle manpower, equipment, or resources due to the Contractor's fault shall not be the responsibility of PMDC, and no claim for time extension or compensation shall be entertained.

33. Defect liability period (DLP)/warranty is 12 months, which will be start from the date of virtual completion.

34. Any defect that may appear within the DLP, shall be rectified by the contractor without any extra cost to the Procuring Agency. In case of failure to do so within specified time, the Procuring Agency may get such rectification works carried out thorough any other firm at a risk and cost of the contractor.

35. The successful tender will have to execute a contract within the specified time, Payment will be made after satisfactorily completion work as per specifications and on submission of the bill in duplicate along with satisfactory completion certificate/report whereas security deposit will be refunded after expiry of DLP/warranty period.

36. The Firm/Contractor should have 02 years' experience in relevant Project/ work with Govt. departments and other organizations/companies. Proof of relevant experience/work order as well as performance/completion certificate should be attached.

37. The authorized representative of the bidder/bidding firm will only be allowed to sit in the tender opening on presentation of authority letter from the bidder/bidding firm issued in favor of representative to participate in the specific tender.

38. Firm/Contractor or any its subsidiary firms or of its directors/owners or any their relatives' parents, children, brother, sister) should not be under litigation with PMDC in any local or foreign court law.

39. Firm/Contractor or any its subsidiary firms or of its directors/owners or any their relatives' parents, children, brother, sister) should not have any ongoing, under resolved business dispute with PMDC, PMDC shall be sole judge of fulfillment of this requirement.

40. Firm/Contractor or any its subsidiary firms or of its directors/owners or any their relatives' parents, children, brother, sister) should not have any conflict of interest with the procuring agency

41. In case of any dispute regarding this purchase order/assignment, the same will be resolved between the relevant parties through negotiations. If negotiations shall fail, then matter will be referred to the Arbitrator. The MD, PMDC will act as sole Arbitrator as per Arbitration Act, 1940. Decision/award of Arbitrator will be final and binding on the both parties.

42. The tenderer/supplier shall appoint a representative at the project and furnish his postal address and contact number to PMDC. Any notice to be served on or document to be signed by the contractor shall be either delivered personally or through the representative and in case it is not

possible it shall be treated to have delivered if it has been mailed by registered post on the Postal Address of the representative.

43. PMDC Reserved the right to accept or reject the tender of the tenderer at any time without assigning reasons and cannot be challenged in any court of law.

44. The tenderer/supplier will be blacklisted who is found to the tender process by making coercive practices, collusive practices, corrupt practices, fraudulent practices & obstructive practices.

45. I agree to the above terms and conditions and give my acceptance.

46. Checklist of documents to be attached.

Note: Please feel no hesitation to contact the Officer Incharge, PMDC Branch Office, Quetta regarding any query in this regard. Monday to Saturday 08:00 A.M to 2:00 P.M on Phone No.081-9201103.

Signature of tenderer: _____

Name of tenderer:_____

AVP (Procurement)
PMDC Head Office, H-9/4, Islamabad
Phone: 051-9265128
E-mail: dgm-pro@pmdc.gov.pk

Check List

Sr. No.	Description	Yes	No
1	Original Bid money amounting to Rs.800,000/- of is being deposited D.D/Pay Order:-		
2	List of the construction machinery and equipment available with the tenderer.		
3	Copy of CNIC and Authority Letter.		
4	Registration with PEC (Pakistan Engineering Council) under Code (EE-05)		
5	Copy of registration certificate with FBR/relevant authority department.		
6	Complete Brochure/Manufactured documents (Brand, Make, Model, Technical Specifications Etc.)		
7	Copies of experience certificate and work orders not less than 02 years.		
8	List of technical staff available with the tenderer who will execute/ supervise the work.		
9	Financial Soundness Proof (Bank Reference or Bank Statement, Audited Report / Accounts).		
10	Affidavit of litigation		
11	Affidavit regarding no dispute with PMDC.		
12	Affidavit of no conflict of interest.		

Tenderer/Bidder Signature

PMDC Head Office