



SUPPLY AND DELIVERY OF 1 X TRAILER-MOUNTED BOREHOLE TESTING RIG

TECHNICAL SPECIFICATIONS

The ARC NRE invites bids for the supply of one (1) mobile, trailer-mounted borehole testing rig suitable for water borehole drilling and testing. The rig must be capable of operating efficiently under local environmental conditions, including dust, heat, and humidity, and must be equipped with an independent power source (generator) to enable operation in off-grid locations.

1. Performance Requirements

Feature	Requirement
Maximum Drilling Depth	160 meters
Maximum Water Yield	12,000 L/hour
Pump Type	Submersible or centrifugal, with calibrated flow meter
Generator	20 KVA, 380V, diesel or suitable fuel type, compliant with emission and noise standards
Trailer	Heavy-duty, towable, with stabilization jacks, safety lights, and reflective markings
Safety Features	Emergency stop, grounding system, protective guards, warning labels
Operational Conditions	Must operate efficiently in ambient temperatures up to 40°C and dusty environments

2. Materials & Build Quality

- All mechanical, hydraulic, and structural components must be high-quality, corrosion-resistant materials.
- Welding and assembly must comply with recognized industrial standards.
- Hoses, fittings, and electrical wiring must meet durability and safety standards.



3. Compulsory Requirements

- Supplier must provide a brochure or technical datasheet with pictures, specifications, and operational details.
- Supplier must provide training for operators (minimum 1 day on-site).
- **Experience Requirement:** Bidders must provide at least 2 reference letters where similar mobile trailer-mounted borehole testing rigs or related heavy-duty water drilling equipment were supplied and successfully commissioned, including contactable references.

4. Special Conditions (Compliance & Documentation)

- The supplier shall provide an operating manual, maintenance manual, and spare parts list for the borehole testing rig upon delivery.
- All components supplied must comply with local safety and electrical standards.
- Supplier shall provide proof of compliance with local electrical safety standards, such as a Certificate of Compliance (CoC) for the generator and electrical systems, upon delivery.
- **Warranty:**
 - Trailor Warranty: Minimum 24 months
 - Warranty starts from date of delivery and successful commissioning.
 - Supplier responsible for repair or replacement of defective parts during warranty period.
 - **Warranty certificates must be provided upon delivery.**

5. Acceptance Criteria

- Rig will be accepted only after demonstration and verification that it meets all depth, yield, and operational requirements.

Annexure 1 (Example)

