

## EQUIPMENT OVERHAUL & TEST REPORT

Job No: **TR-2026-0057**

Date: **17/05/2026**

Overall Result:

**PASS**

### 1. EQUIPMENT DETAILS

|                    |                                             |          |    |
|--------------------|---------------------------------------------|----------|----|
| Project Details    | Mushrif pumping station rehabilitation work |          |    |
| Tag / Equipment ID | NA                                          | Location | NA |
| Equipment Name     | Sump pump                                   |          |    |
| Motor Specs        | 23.7 kW   415 V   38.8 A                    |          |    |
| Pump Specs         | Model: Flygt Submersible / KSB              |          |    |

### 2. ELECTRICAL & INSULATION CHECKS

| Test Parameter                                    | Measured Value                             | Result |
|---------------------------------------------------|--------------------------------------------|--------|
| Motor Rewinding & Stator Check                    | REPLACED AND TESTED OK                     | PASS   |
| Winding Resistance (Ohms)                         | U-V: 0.848 Ω   V-W: 0.832 Ω   W-U: 0.840 Ω | PASS   |
| Insulation Resistance (500V DC) - Phase to Ground | 475.82 MΩ (Min standard: > 5 MΩ)           | PASS   |
| Insulation Resistance (500V DC) - Phase to Phase  | 421.92 MΩ (Min standard: > 5 MΩ)           | PASS   |

### 3. MECHANICAL SEAL & BEARING REPLACEMENT

| Component Checked              | Replacement Details / Part No.                                    | Result |
|--------------------------------|-------------------------------------------------------------------|--------|
| Bearings - Drive End (DE)      | Part No: 6312 2Z/C3 • Brand: SKF (Explorer Series) (Replaced New) | PASS   |
| Bearings - Non-Drive End (NDE) | Part No: 6310 2Z/C3 • Brand: SKF (Explorer Series) (Replaced New) | PASS   |
| Mechanical Seal & Leak Test    | Burgmann MG1 / 45mm SiC/SiC/Viton • Static Leak Test: Pass        | PASS   |

### 4. OPERATIONAL RUN TEST

| Test Parameter           | Measured Value                                    | Result |
|--------------------------|---------------------------------------------------|--------|
| Running Current (A)      | L1: 13.50 A   L2: 13.77 A   L3: 13.23 A           | PASS   |
| Bearing Temperature (°C) | DE: 51.5 °C   NDE: 47.2 °C (Normal)               | PASS   |
| Vibration (mm/s RMS)     | DE: 1.70 mm/s   NDE: 1.79 mm/s (Good)             | PASS   |
| Rotation & Seal Check    | Rotation: Correct (CW)   Seal Leakage: Nil / None | PASS   |

### 5. SIGN-OFF & APPROVALS

|                                     |                                       |                                     |
|-------------------------------------|---------------------------------------|-------------------------------------|
| PREPARED BY:<br>ENG. JITHU THOMAS   | INSPECTED BY:<br>ASWATH KUMAR HOSDURG | APPROVED BY:<br>ABU GEROG           |
| Signature _____<br>Date: 17/05/2026 | Signature _____<br>Date: 17/05/2026   | Signature _____<br>Date: 17/05/2026 |