

## EQUIPMENT OVERHAUL & TEST REPORT

Job No: **TR-2026-0028**

Date: **21/05/2026**

Overall Result: **PASS**

### 1. EQUIPMENT DETAILS

|                    |                                             |          |    |
|--------------------|---------------------------------------------|----------|----|
| Project Details    | Mushrif pumping station rehabilitation work |          |    |
| Tag / Equipment ID | SCRV-22                                     | Location | LL |
| Equipment Name     | Bar Screen -4 (Bottom motor)                |          |    |
| Motor Specs        | 15 HP (11.2 kW)   415 V   18.3 A            |          |    |

### 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 | 452.51 MΩ (Min standard: > 5 MΩ)           | PASS   |
| Insulation Resistance (500V DC) – Phase to Phase  | 431.52 MΩ (Min standard: > 5 MΩ)           | PASS   |

### 3. MECHANICAL SEAL & BEARING REPLACEMENT

| Component Checked              | Replacement Details / Part No.                                    | Result |
|--------------------------------|-------------------------------------------------------------------|--------|
| Bearings – Drive End (DE)      | Part No: 6208 2Z/C3 • Brand: SKF (Explorer Series) (Replaced New) | PASS   |
| Bearings – Non-Drive End (NDE) | Part No: 6206 2Z/C3 • Brand: SKF (Explorer Series) (Replaced New) | PASS   |
| Mechanical Seal & Leak Test    | N/A (Fan Motor Drive) • Static Leak Test: N/A                     | PASS   |

### 4. OPERATIONAL RUN TEST

| Test Parameter           | Measured Value                                    | Result |
|--------------------------|---------------------------------------------------|--------|
| Running Current (A)      | L1: 6.40 A   L2: 6.53 A   L3: 6.27 A              | PASS   |
| Bearing Temperature (°C) | DE: 45.5 °C   NDE: 46.2 °C (Normal)               | PASS   |
| Vibration (mm/s RMS)     | DE: 1.50 mm/s   NDE: 1.58 mm/s (Good)             | PASS   |
| Rotation & Seal Check    | Rotation: Correct (CW)   Seal Leakage: Nil / None | PASS   |

### 5. SIGN-OFF & APPROVALS

|                                          |                                              |                                     |
|------------------------------------------|----------------------------------------------|-------------------------------------|
| <b>PREPARED BY:</b><br>ENG. JITHU THOMAS | <b>INSPECTED BY:</b><br>ASWATH KUMAR HOSDURG | <b>APPROVED BY:</b><br>ABU GEROGÉ   |
| Signature _____<br>Date: 21/05/2026      | Signature _____<br>Date: 21/05/2026          | Signature _____<br>Date: 21/05/2026 |