

## EQUIPMENT OVERHAUL & TEST REPORT

Job No: **TR-2026-0023**

Date: **28/05/2026**

Overall Result:

**PASS**

### 1. EQUIPMENT DETAILS

|                    |                                             |          |    |
|--------------------|---------------------------------------------|----------|----|
| Project Details    | Mushrif pumping station rehabilitation work |          |    |
| Tag / Equipment ID | SCR-12                                      | Location | LL |
| Equipment Name     | Bar Screen -2 (Top motor)                   |          |    |
| Motor Specs        | 0.55 kW   415 V   0.9 A                     |          |    |

### 2. ELECTRICAL & INSULATION CHECKS

| Test Parameter                                    | Measured Value                                                  | Result |
|---------------------------------------------------|-----------------------------------------------------------------|--------|
| Motor Rewinding & Stator Check                    | REPLACED AND TESTED OK                                          | PASS   |
| Winding Resistance (Ohms)                         | U-V: 3.434 $\Omega$   V-W: 3.366 $\Omega$   W-U: 3.400 $\Omega$ | PASS   |
| Insulation Resistance (500V DC) - Phase to Ground | 425.98 M $\Omega$ (Min standard: > 5 M $\Omega$ )               | PASS   |
| Insulation Resistance (500V DC) - Phase to Phase  | 490.12 M $\Omega$ (Min standard: > 5 M $\Omega$ )               | 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: 0.30 A   L2: 0.31 A   L3: 0.29 A              | PASS   |
| Bearing Temperature (°C) | DE: 50.5 °C   NDE: 45.2 °C (Normal)               | PASS   |
| Vibration (mm/s RMS)     | DE: 1.60 mm/s   NDE: 1.68 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 GEROGE          |
| Signature _____<br>Date: 28/05/2026 | Signature _____<br>Date: 28/05/2026   | Signature _____<br>Date: 28/05/2026 |