

## EQUIPMENT OVERHAUL &amp; TEST REPORT

Job No: TR-2026-0053

Date: 14/05/2026

Overall Result: PASS

## 1. EQUIPMENT DETAILS

|                    |                                             |          |                   |
|--------------------|---------------------------------------------|----------|-------------------|
| Project Details    | Mushrif pumping station rehabilitation work |          |                   |
| Tag / Equipment ID | No tag                                      | Location | Mishref Pump Room |
| Equipment Name     | Smoke Exhaust Fan                           |          |                   |
| Motor Specs        | 5.5 kW   415 V   9.0 A                      |          |                   |

## 2. ELECTRICAL &amp; 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 | 456.54 M $\Omega$ (Min standard: > 5 M $\Omega$ )               | PASS   |
| Insulation Resistance (500V DC) - Phase to Phase  | 453.92 M $\Omega$ (Min standard: > 5 M $\Omega$ )               | PASS   |

## 3. MECHANICAL SEAL &amp; 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: 3.20 A   L2: 3.26 A   L3: 3.14 A              | PASS   |
| Bearing Temperature (°C) | DE: 47.5 °C   NDE: 47.2 °C (Normal)               | PASS   |
| Vibration (mm/s RMS)     | DE: 1.80 mm/s   NDE: 1.89 mm/s (Good)             | PASS   |
| Rotation & Seal Check    | Rotation: Correct (CW)   Seal Leakage: Nil / None | PASS   |

## 5. SIGN-OFF &amp; APPROVALS

|                                   |                                       |                            |
|-----------------------------------|---------------------------------------|----------------------------|
| PREPARED BY:<br>ENG. JITHU THOMAS | INSPECTED BY:<br>ASWATH KUMAR HOSDURG | APPROVED BY:<br>ABU GEROGE |
| Signature                         | Signature                             | Signature                  |
| Date: 14/05/2026                  | Date: 14/05/2026                      | Date: 14/05/2026           |