

## EQUIPMENT OVERHAUL &amp; TEST REPORT

Job No: TR-2026-0005

Date: 23/05/2026

Overall Result: PASS

## 1. EQUIPMENT DETAILS

|                    |                                             |          |      |
|--------------------|---------------------------------------------|----------|------|
| Project Details    | Mushrif pumping station rehabilitation work |          |      |
| Tag / Equipment ID | RCP 01                                      | Location | ML-1 |
| Equipment Name     | Odur control recirculation pump with motor  |          |      |
| Motor Specs        | 44.7 kW   415 V   73.2 A                    |          |      |
| Pump Specs         | Model: Flygt Submersible / KSB              |          |      |

## 2. ELECTRICAL &amp; INSULATION CHECKS

| Test Parameter                                    | Measured Value                                                  | Result |
|---------------------------------------------------|-----------------------------------------------------------------|--------|
| Motor Rewinding & Stator Check                    | REPLACED AND TESTED OK                                          | PASS   |
| Winding Resistance (Ohms)                         | U-V: 0.121 $\Omega$   V-W: 0.119 $\Omega$   W-U: 0.120 $\Omega$ | PASS   |
| Insulation Resistance (500V DC) - Phase to Ground | 462.25 M $\Omega$ (Min standard: > 5 M $\Omega$ )               | PASS   |
| Insulation Resistance (500V DC) - Phase to Phase  | 411.68 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: 6316 C3 • Brand: SKF (Explorer Series) (Replaced New) | PASS   |
| Bearings - Non-Drive End (NDE) | Part No: 6314 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: 25.50 A   L2: 26.01 A   L3: 24.99 A           | PASS   |
| Bearing Temperature (°C) | DE: 47.5 °C   NDE: 43.2 °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 &amp; APPROVALS

|                                   |                                       |                           |
|-----------------------------------|---------------------------------------|---------------------------|
| PREPARED BY:<br>ENG. JITHU THOMAS | INSPECTED BY:<br>ASWATH KUMAR HOSDURG | APPROVED BY:<br>ABU GEROG |
| Signature                         | Signature                             | Signature                 |
| Date: 23/05/2026                  | Date: 23/05/2026                      | Date: 23/05/2026          |