

## EQUIPMENT OVERHAUL & 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 | <b>RCP 01</b>                               | Location | ML-1 |
| Equipment Name     | Odur control recirculation pump with motor  |          |      |
| Motor Specs        | <b>44.7 kW   415 V   73.2 A</b>             |          |      |
| Pump Specs         | Model: <b>Flygt Submersible / KSB</b>       |          |      |

### 2. ELECTRICAL & INSULATION CHECKS

| Test Parameter                                           | Measured Value                                                  | Result      |
|----------------------------------------------------------|-----------------------------------------------------------------|-------------|
| Motor Rewinding & Stator Check                           | <b>REPLACED AND TESTED OK</b>                                   | <b>PASS</b> |
| Winding Resistance (Ohms)                                | U-V: <b>0.121 Ω</b>   V-W: <b>0.119 Ω</b>   W-U: <b>0.120 Ω</b> | <b>PASS</b> |
| Insulation Resistance (500V DC) - <b>Phase to Ground</b> | <b>462.25 MΩ</b> (Min standard: > 5 MΩ)                         | <b>PASS</b> |
| Insulation Resistance (500V DC) - <b>Phase to Phase</b>  | <b>411.68 MΩ</b> (Min standard: > 5 MΩ)                         | <b>PASS</b> |

### 3. MECHANICAL SEAL & BEARING REPLACEMENT

| Component Checked              | Replacement Details / Part No.                                        | Result      |
|--------------------------------|-----------------------------------------------------------------------|-------------|
| Bearings - Drive End (DE)      | Part No: <b>6316 C3</b> • Brand: SKF (Explorer Series) (Replaced New) | <b>PASS</b> |
| Bearings - Non-Drive End (NDE) | Part No: <b>6314 C3</b> • Brand: SKF (Explorer Series) (Replaced New) | <b>PASS</b> |
| Mechanical Seal & Leak Test    | Burgmann MG1 / 45mm SiC/SiC/Viton • Static Leak Test: Pass            | <b>PASS</b> |

### 4. OPERATIONAL RUN TEST

| Test Parameter           | Measured Value                                                  | Result      |
|--------------------------|-----------------------------------------------------------------|-------------|
| Running Current (A)      | L1: <b>25.50 A</b>   L2: <b>26.01 A</b>   L3: <b>24.99 A</b>    | <b>PASS</b> |
| Bearing Temperature (°C) | DE: <b>47.5 °C</b>   NDE: <b>43.2 °C</b> (Normal)               | <b>PASS</b> |
| Vibration (mm/s RMS)     | DE: <b>1.70 mm/s</b>   NDE: <b>1.79 mm/s</b> (Good)             | <b>PASS</b> |
| Rotation & Seal Check    | Rotation: <b>Correct (CW)</b>   Seal Leakage: <b>Nil / None</b> | <b>PASS</b> |

### 5. SIGN-OFF & APPROVALS

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