Hydrotek Engineering Co.

Technical Services Division

EQUIPMENT OVERHAUL & TEST REPORT

Job No: **HY-TSD-TR-2026-0627**	Date: **21/05/2026**	Overall Result: **PASS**

1. EQUIPMENT DETAILS

Project Details	Mushrif pumping station rehabilitation work		
Tag / Equipment ID	**NA**	**Location**	NA
Equipment Name	Sump pump		
Motor Specs	**23.7 kW** | **415 V** | **38.8 A**		
Pump Specs	Model: **Flygt Submersible / KSB**		

2. ELECTRICAL & INSULATION CHECKS

Test Parameter	Measured Value	Result
Motor Rewinding & Stator Check	**Rewinded & Tested OK**	PASS
Winding Resistance (Ohms)	U1–U2: **0.848 Ω** | V1–V2: **0.832 Ω** | W1–W2: **0.840 Ω**	PASS
Insulation Resistance (500V DC) – **Phase to Ground**	U–G: **428.67 MΩ** | V–G: **440.73 MΩ** | W–G: **424.35 MΩ**	PASS
Insulation Resistance (500V DC) – **Phase to Phase**	U–V: **440.66 MΩ** | V–W: **449.90 MΩ** | W–U: **434.15 MΩ**	PASS

3. MECHANICAL SEAL & BEARING REPLACEMENT

Component Checked	Replacement Details / Part No.	Result
Bearings – Drive End (DE)	Part No: **6312 2Z/C3** • Brand: **SKF (Explorer Series)** (Replaced New)	PASS
Bearings – Non-Drive End (NDE)	Part No: **6310 2Z/C3** • Brand: **SKF (Explorer Series)** (Replaced New)	PASS
Mechanical Seal & Leak Test	Burgmann MG1 / 45mm SiC/SiC/Viton • Material: SiC / SiC / Viton	PASS

4. OPERATIONAL RUN TEST

Test Parameter	Measured Value	Result
Running Current (A)	L1: **13.50 A** | L2: **13.77 A** | L3: **13.23 A**	PASS
Bearing Temperature (°C)	DE: **49.5 °C** | NDE: **41.2 °C** (Normal)	PASS
Vibration (mm/s RMS)	DE: **1.20 mm/s** | NDE: **1.26 mm/s** (Good)	PASS
Rotation & Seal Check	Rotation: **Correct (CW)** | Seal Leakage: **Nil / None**	PASS

5. SIGN-OFF & APPROVALS

PREPARED BY:	INSPECTED BY:	APPROVED BY:
ENG. JITHU THOMAS	**ASWATH KUMAR HOSDURG**	**ABU GEROGE**
Signature Date: 21/05/2026	Signature Date: 21/05/2026	Signature Date: 21/05/2026