Hydrotek Engineering Co.

Technical Services Division

EQUIPMENT OVERHAUL & TEST REPORT

Job No: **TR-2026-0002**	Date: **12/05/2026**	Overall Result: **PASS**

1. EQUIPMENT DETAILS

Project Details	Mushrif pumping station rehabilitation work		
Tag / Equipment ID	**OCF 02**	**Location**	ML-1
Equipment Name	Odur control extract fan motor		
Motor Specs	**160 kW** | **415 V** | **261.9 A**		

2. ELECTRICAL & INSULATION CHECKS

Test Parameter	Measured Value	Result
Motor Rewinding & Stator Check	**REPLACED AND TESTED OK**	PASS
Winding Resistance (Ohms)	U–V: **0.121 Ω** | V–W: **0.119 Ω** | W–U: **0.120 Ω**	PASS
Insulation Resistance (500V DC) – **Phase to Ground**	**441.11 MΩ** (Min standard: > 5 MΩ)	PASS
Insulation Resistance (500V DC) – **Phase to Phase**	**433.63 MΩ** (Min standard: > 5 MΩ)	PASS

3. MECHANICAL SEAL & 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	N/A (Fan Motor Drive) • Static Leak Test: N/A	PASS

4. OPERATIONAL RUN TEST

Test Parameter	Measured Value	Result
Running Current (A)	L1: **91.30 A** | L2: **93.13 A** | L3: **89.47 A**	PASS
Bearing Temperature (°C)	DE: **51.5 °C** | NDE: **43.2 °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:	INSPECTED BY:	APPROVED BY:
ENG. JITHU THOMAS	**ASWATH KUMAR HOSDURG**	**ABU GEROGE**
Signature Date: 12/05/2026	Signature Date: 12/05/2026	Signature Date: 12/05/2026