Hydrotek Engineering Co.

Technical Services Division

ELECTRIC MOTOR OVERHAUL & TEST CERTIFICATE

Job / WO No: **HY-TSD-TR-2026-0634**	Date: **07/05/2026**	Result: **ACCEPTED**

1. EQUIPMENT DETAILS

Project Details	Kabd Water Treatment Plant - Pump & Motor Repair overhauling (M/s. Contractor Co.)		
Tag / Equipment ID	**WEG-22kW**	**Location**	Kabd Water Treatment Plant
Equipment Name	**WEG motor** (TEFC Squirrel Cage Induction Motor)		
Motor Specs	**22kW** | **415 V** | **40.00 A** | 2900 RPM RPM		
Pump Specs	Model: **WEG**		

2. 1. ELECTRICAL & STATOR INSULATION TEST

Test Parameter	Measured Value	Result
Stator Condition / Winding Status	**Overhauled, Serviced & Tested OK**	PASS
Winding Resistance (U1-U2, V1-V2, W1-W2 in 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: **426.92 MΩ** | V–G: **434.78 MΩ** | W–G: **421.95 MΩ**	PASS
Insulation Resistance (500V DC) – Phase to Phase	U–V: **473.54 MΩ** | V–W: **478.82 MΩ** | W–U: **464.23 MΩ**	PASS

3. 2. MECHANICAL SPECIFICATIONS & RENEWALS

Component Checked	Replacement Details / Part No.	Result
Drive End (DE) Bearing Fitted	Part No: **6312 2Z/C3** • Brand: SKF (Replaced New)	PASS
Non-Drive End (NDE) Bearing Fitted	Part No: **6310 2Z/C3** • Brand: SKF (Replaced New)	PASS
Mechanical Seal / Seal Spec	Burgmann Cartridge Mechanical Seal • Static Leak Test: N/A	PASS

4. 4. OPERATIONAL RUN TEST (NO-LOAD / FULL SYSTEM RUN)

Test Parameter	Measured Value	Result
Running Current (A)	L1: **40 A** | L2: **40.5 A** | L3: **39.9 A**	PASS
Bearing Temperature (°C)	DE: **48.5 °C** | NDE: **43.2 °C** (Normal)	PASS
Vibration (mm/s RMS)	DE: **1.55 mm/s** | NDE: **1.68 mm/s** (Smooth)	PASS
Rotation & Seal Check	Rotation: **Correct (CW)** | Seal Leakage: **Nil / None**	PASS

5. 5. SPECIALIZED WORKSHOP VERIFICATIONS

Test Name	Standard / Criteria	Measured / Inspection	Result
Motor Insulation Test	500W DC Meggar Test	**No earth Leakage found**	PASS
Painting Done	-	**OK**	PASS

6. SIGN-OFF & APPROVALS

PREPARED BY:	INSPECTED BY:	APPROVED BY:
ENG. JITHU THOMAS	**ASWATH KUMAR HOSDURG**	**ABU GEROGE**
Signature — Date: 07/05/2026	Signature — Date: 07/05/2026	Signature — Date: 07/05/2026