

ENERGY METER CALIBRATION CHECKLIST

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Date: _____

Applicable Standards: IEC 62052-11, IEC 62053-21

1. GENERAL INFORMATION

Project / Client Name	
Site Location	
Meter Type (Single / Three Phase)	
Meter Make & Model	
Serial Number	
Accuracy Class	
Rated Voltage & Current	
Frequency (Hz)	

2. TEST EQUIPMENT DETAILS

Equipment	Make / Model	Calibration Due Date	Status
PQ Analyzer			
Reference Energy Meter			
Power Source / Load Bank			
CT / PT			
Digital Multimeter			
Clamp Meter			

3. PRE-CALIBRATION CHECKLIST

Check Point	Yes / No	Remarks
Meter visually inspected (seals, damage)		
Nameplate data verified		
Connections tight & correct		
Test bench grounded		
Environmental conditions acceptable		
Safety PPE available		
Isolation transformer used		

4. LOAD TEST & ACCURACY VERIFICATION

Load %	Voltage (V)	Current (A)	Power Factor	Reference Reading	Meter Reading	Error %	Permissible Limit	Pass / Fail
No Load								
10%								
25%								
50%								
75%								
100%								

5. POWER QUALITY ASSESSMENT

Parameter	Measured Value	Standard Limit	Status
Voltage THD (%)			
Current THD (%)			
Frequency (Hz)			
Voltage Variation (%)			
Power Factor			

6. RESULT & COMPLIANCE

Meter Accuracy Within Limits	
Certified for Billing Use	
Adjustment Required	
Replacement Required	
Remarks	

7. AUTHORIZATION

Prepared By: _____ Signature: _____ Date: _____

Reviewed By: _____ Signature: _____ Date: _____

Approved By: _____ Signature: _____ Date: _____