SMARTER ENERGY SOLUTION
Preventive Maintenance Solar System

Customer Name :	Khun Jeab	Maintenance :	MA	Date :	4 April 2025

Solar Panel				Inverter		
Brand	Model	Capacity	Install	Brand	Model	S/N
Enlom	GX 480 TC	10 kWp.	22 Panels	Solis	3S-GR3P10K	18050402362700034

Before Preventive Maintenance Solar System

Solar Panels		Operating Voltage / Current						Time	Inspection				Remark
String 1	11 Panels	Vmp	350.4 Vdc	Voc	417.7 Vdc	Isc	3.10 A.	13:00	✓	Pass		Not Pass	
String 2	11 Panels	Vmp	352.9 Vdc	Voc	419.3 Vdc	Isc	2.86 A.	:	✓	Pass		Not Pass	
String 3	Panels	Vmp	Vdc	Voc	Vdc	Isc	A.	:		Pass		Not Pass	
String 4	Panels	Vmp	Vdc	Voc	Vdc	Isc	A.	:		Pass		Not Pass	
String 5	Panels	Vmp	Vdc	Voc	Vdc	Isc	A.	:		Pass		Not Pass	
String 6	Panels	Vmp	Vdc	Voc	Vdc	Isc	A.	:		Pass		Not Pass	
String 7	Panels	Vmp	Vdc	Voc	Vdc	Isc	A.	:		Pass		Not Pass	
String 8	Panels	Vmp	Vdc	Voc	Vdc	Isc	A.	:		Pass		Not Pass	
String 9	Panels	Vmp	Vdc	Voc	Vdc	Isc	A.	:		Pass		Not Pass	
String 10	Panels	Vmp	Vdc	Voc	Vdc	Isc	A.	:		Pass		Not Pass	
String 11	Panels	Vmp	Vdc	Voc	Vdc	Isc	A.	:		Pass		Not Pass	
String 12	Panels	Vmp	Vdc	Voc	Vdc	Isc	A.	:		Pass		Not Pass	

After Preventive Maintenance Solar System

Solar Panels		Operating Voltage / Current						Time	Inspection				Remark
String 1	11 Panels	Vmp	399.8 Vdc	Voc	435.6 Vdc	Isc	3.17 A.	13:45	✓	Pass		Not Pass	
String 2	11 Panels	Vmp	394.2 Vdc	Voc	435.2 Vdc	Isc	3.02 A.	:	✓	Pass		Not Pass	
String 3	Panels	Vmp	Vdc	Voc	Vdc	Isc	A.	:		Pass		Not Pass	
String 4	Panels	Vmp	Vdc	Voc	Vdc	Isc	A.	:		Pass		Not Pass	
String 5	Panels	Vmp	Vdc	Voc	Vdc	Isc	A.	:		Pass		Not Pass	
String 6	Panels	Vmp	Vdc	Voc	Vdc	Isc	A.	:		Pass		Not Pass	
String 7	Panels	Vmp	Vdc	Voc	Vdc	Isc	A.	:		Pass		Not Pass	
String 8	Panels	Vmp	Vdc	Voc	Vdc	Isc	A.	:		Pass		Not Pass	
String 9	Panels	Vmp	Vdc	Voc	Vdc	Isc	A.	:		Pass		Not Pass	
String 10	Panels	Vmp	Vdc	Voc	Vdc	Isc	A.	:		Pass		Not Pass	
String 11	Panels	Vmp	Vdc	Voc	Vdc	Isc	A.	:		Pass		Not Pass	
String 12	Panels	Vmp	Vdc	Voc	Vdc	Isc	A.	:		Pass		Not Pass	

Inverter Inspection

Device	Field Measured Readings		Readings from Inverter Display		Readings from Smarter Meter		Field Measured Back Up	
Inverter	AC Line Voltage		AC Line Voltage		AC Line Voltage		AC Line Voltage	
	Phase L1 to Grd :	224.1 Vac.	Phase L1 to Grd :	222.9 Vac.	Phase L1 to Grd :	225.1 Vac.	Phase L1 to Grd :	Vac.
	Phase L2 to Grd :	227.2 Vac.	Phase L2 to Grd :	227.2 Vac.	Phase L2 to Grd :	227.7 Vac.	Phase L2 to Grd :	Vac.
	Phase L3 to Grd :	225.1 Vac.	Phase L3 to Grd :	228.4 Vac.	Phase L3 to Grd :	225.8 Vac.	Phase L3 to Grd :	Vac.
	AC Line Current		AC Line Current		AC Line Current			
	Phase L1 to Grd :	3.13 A.	Phase L1 to Grd :	3.21 A.	Phase L1 to Grd :	14.40 A.		
	Phase L2 to Grd :	2.96 A.	Phase L2 to Grd :	3.20 A.	Phase L2 to Grd :	7.80 A.		
	Phase L3 to Grd :	2.99 A.	Phase L3 to Grd :	3.22 A.	Phase L3 to Grd :	28.20 A.		

Comment : _____

Inspection By : _____

(Bunhorn Libnoy)Project Engineer

Date : ____/____/____

SMARTER ENERGY SOLUTION
Electrical Room Inspection

Device	Ambient Temp	Temperature						Remark
Inverter	39.7 °C	Inside :	47.8 °C	Outside :	42.2 °C	Heatsync :	50.2 °C	
AC Cabinet	38.6 °C	MCB Breaker :	38.7 °C	RCCB Breaker :	38.7 °C	AC SPD :	39.6 °C	
			40 A.		40 A.		3 Phase	
		Smart Meter :	39.9 °C	AC Terminal	37.8 °C	CT Ratio :	./ A.	
			3 Phase	AC Cable :	6 Sq.m.	Meter Ratio :	A.	
		String No.	DC Fuse	DC Breaker	DC SPD	MC4 Connector		
DC Cabinet	38.4 °C	String 1	37.8 °C	37.8 °C	39.1 °C	36.7 °C		
		String 2	38.2 °C	38.4 °C	37.9 °C	36.6 °C		
		String 3	°C	°C	°C	°C		
		String 4	°C	°C	°C	°C		
		String 5	°C	°C	°C	°C		
		String 6	°C	°C	°C	°C		
		String 7	°C	°C	°C	°C		
		String 8	°C	°C	°C	°C		
		String 9	°C	°C	°C	°C		
		String 10	°C	°C	°C	°C		
		String 11	°C	°C	°C	°C		
		String 12	°C	°C	°C	°C		
EE Room	38.7 °C	AC Cable :	20 Sq.m.	Main Breaker :	80 A.	MCCB Feed :	A.	
		Wireway :	36.5 °C	MDB / LC :	39.7 °C		°C	

Comment : _____

_____

_____

Inspection By : _____

(Bunharn Libnoy)Project Engineer

Date : _____/_____/_____