

*Date:05-01-2025*

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## *SOLAR PHOTOVOLTAIC PROJECT DESIGN*

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*Project Name: Purbachal Apparel Ltd. 175.7KWp Grid Connected Solar PV Plant.*

*Location: Nagori, Purbachal, Bangladesh.*

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### *EPC PARTNER*



*Eco Energy Engineering & Consultancy*

*H#6, R#12, Sec#11, pallabi, Mirpur Dhaka - 1216, bangladesh.*

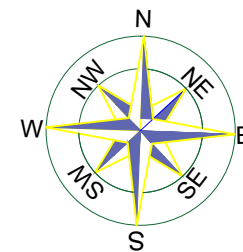
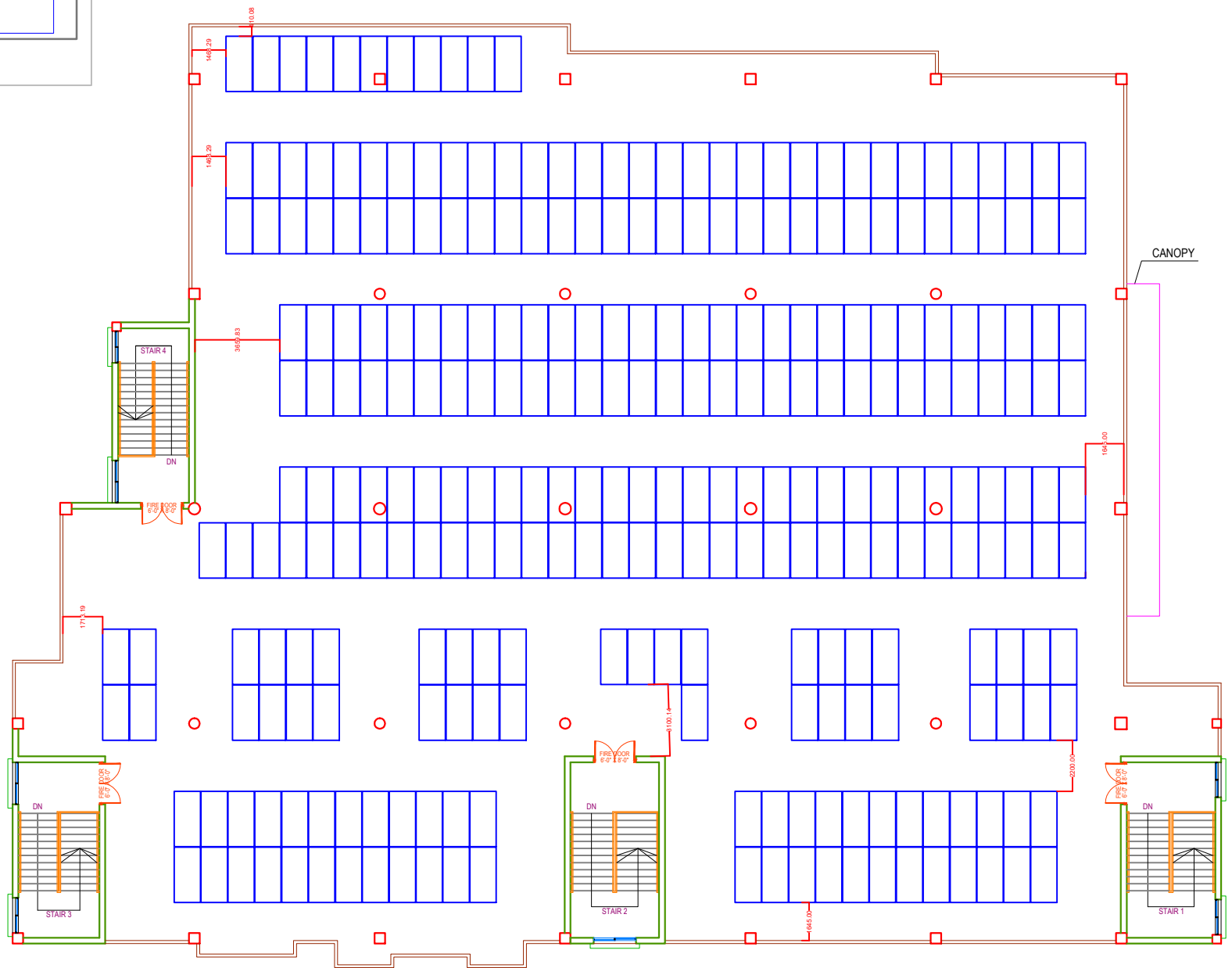
*Phone Number: +8801806972777*

*Email: [bdecoenergy@gmail.com](mailto:bdecoenergy@gmail.com)*

*Website: [www.ecoenergybd.com](http://www.ecoenergybd.com)*

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LEGEND:



N Roof Top plan  
Floor area : 19,200 sq.ft

Project Summary		
Project Capacity(DC)	175.7	kWp
Total Panel	288	Nos
Each Panel Capacity (Trina 610)	610	Wp
Project Capacity (AC)	150	kW
No of inverters (SUN2000-100KTL-M2)	1	Nos
No of inverters (SUN2000-50KTL-M2)	1	Nos

Project Data											
Shed Name	Tilt	Azimuth	No. of Panel	Capacity(kWp)	Total Panel	Total Capacity	Panel Weight(33.7 KG/Panel) KG	Structure Weight (for Roof=5KG/P panel) KG	String Configuration	No. of Inverter (SUN 2000 100KTL-M 2)	No. of Inverter (SUN 2000 50KTL-M3 )
PAL UC Building	15°	0°	288	175.7	288.0	175.7	9705.6	1440.00	(18x11)x1,(18x5)x1	1	1
			288	175.7	288.00	175.7	9705.6	1440.00		1	1

\*\*\*\*\*Note: All Drawings are conceptual, Design can be change as per discussion at the time of execution.

Site Name

Purbachal Apperal Ltd. 175.7 Kw  
Grid Connected Solar PV Plant

Title of The Drawing

Plant LAYOUT

2		
1		
0		
No.	Revision/Issue	Date

Note

Client Name

Purbachal Apperal Ltd.



Client Address

Nagori, Purbachal

Consultant & Design Firm Name:

Eco Energy Engineering & Consultancy



Designed By: Askur Rahman, Project Coordinator- Renewable Energy

Checked By:

Approved By:

Drawn By: Tahmid Tamzid

Date:05-01-2025

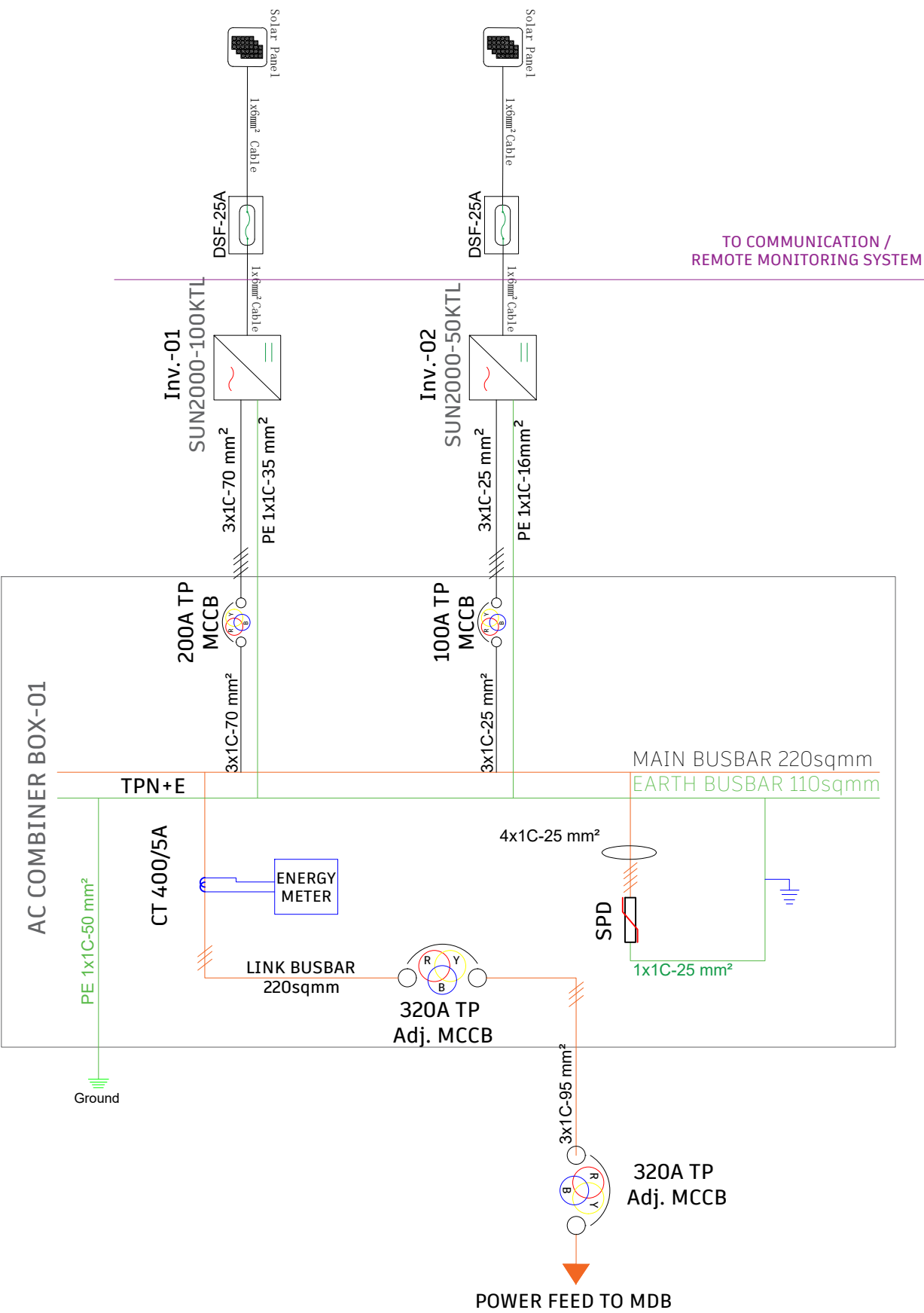
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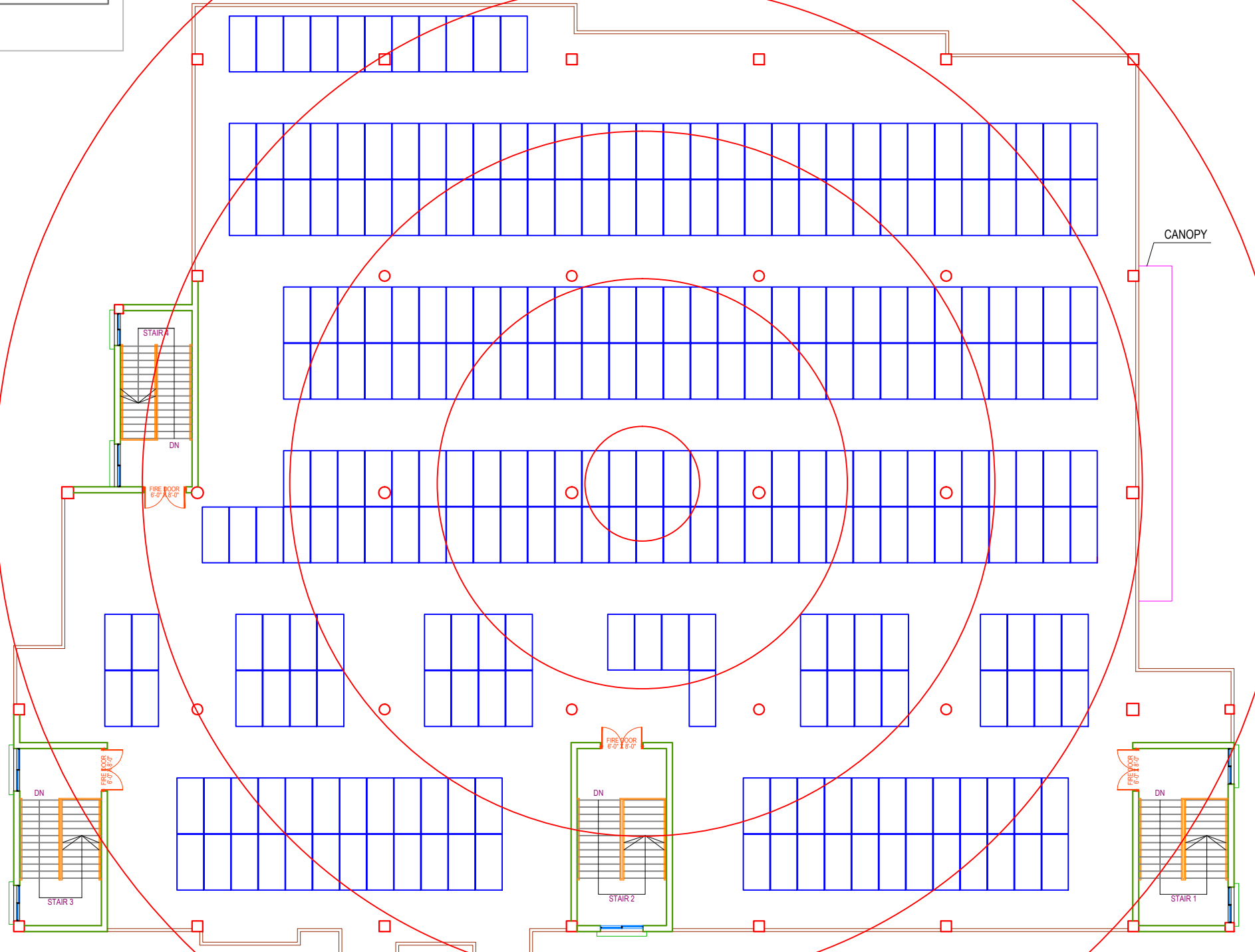
LEGEND	
Panel	
DC Fuse	
Inverter	
MCCB TP (.....500V)	
CT	
LT Energy meter	
Ground	
SPD	



Site Name		
Purbachal Apparel Ltd. 175.7 Kwp Grid Connected Solar PV Plant		
Title of The Drawing		
PLANT SLD		
2		
1		
0		
No.	Revision/Issue	Date
Note		
Client Name		
Purbachal Apparel Ltd.		
Client Address		
Nagori, Purbachal		
Consultant & Design Firm Name:		
Eco Energy Engineering & Consultancy		
Designed By:	Askur Rahman, Project Coordinator, Renewable Energy	
Checked By:		
Approved By:		
Drawn By:	Tahmid Tamzid	
Date: 05-01-2025		
Dimension: mm		PAGE NUMBER
Scale: 1:1		1 of 3

## LEGEND:

SOLAR  
PANEL



N  
▲ Roof Top plan  
Floor area : 19,200 sq.ft

**\*\*LPS: OPR 60, ABB**  
**COVERAGE AREA: r=79m at h=5m**

Site Name

Purbachal Apparel Ltd. 175.7 Kw  
Grid Connected Solar PV Plant

Title of The Drawing

LPS LYSTEM

2		
1		
0		
No.	Revision/Issue	Date

Note

Client Name

Purbachal Apparel Ltd.



Client Address

Nagori, Purbachal

Consultant & Design Firm Name:

Eco Energy Engineering & Consultancy



Designed By: Askur Rahman, Project Coordinator,  
Renewable Energy

Checked By:

Approved By:

Drawn By: Tahmid Tamzid

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