

TP Solar Limited- Unit 1 Module Manufacturing Facility,
Ganagikondan, Tirunelveli

ENVIRONMENTAL STATEMENT FORM-V
(See rule 14)

Environmental Statement for the financial year ending with 31st March

PART-A

i)	Name and address of the owner/ occupier of the industry operation or process	Mr Ajith Prasad Sheety Unit 1 Module manufacturing facility, TP Solar Limited, Gangaikondan, Tirunelveli.
ii)	Industry category Primary-(STC Code) Secondary- (STC Code) :	-
iii)	Production capacity	1.Solar Module panel-6750000 Nos
iv)	Year of establishment	2024
v)	Date of the last environmental statement submitted	-

PART .B

Water and Raw Material Consumption:

i)Water consumption in m³/d

Cooling : 45 m³/d

Domestic : 105m³/d

S.No	Name of Products	Process water consumption per unit of products	
		During the previous financial year (2022-23)	During the current financial year (2023-24)
1	Solar module panel	-	240616 Nos

ii. Raw material consumption

Name of raw materials	Name of Products	Consumption of raw material per unit of products		
		During the previous financial year	During the current financial year	UOM
Photovoltaic cell	Photo voltaic solar panel	NA	18511397	Nos
Sealant			94211	Kg
TCI copper			66037941	Meters
Glass			306622	Nos
Aluminum frame			977028	Nos
Bus bar			789369	Meters
Junction box			242747	Nos
EVA/EPE			114204	Meters
Back sheet			42182	Meters
Flux			7133636	Ltrs

PART-C

Pollution discharged to environment/unit of output
(Parameter as specified in the consent issued)

a) Water :(Analysis carried out by Advanced Env Lab,TNPCB)

S. No.	Pollutants	Quantity of Pollutants discharged (mass/day)	Concentration of Pollutants in ETP treated water (mass/volume) mg/lit	Percentage of variation from prescribed standards with reasons.
1	pH	Trade Effluent : 85 KLD for On land for Gardening,Green Belt Irrigation	6.49	No Deviation
2	Total Suspended Solids		24	No Deviation
3	Total Dissolved Solids		-	No Deviation
4	Chlorides		-	No Deviation
5	Sulphates		-	No Deviation
6	Oil & Grease		-	No Deviation
7	BOD		14	No Deviation
8	COD		112	No Deviation

b) Air :(Stack Monitoring carried out by External NABL accredited Lab)

S. No.	Description of Chimney/Stack	Concentration of Pollutants discharged (mass/volume) mg/Nm ³			Quantity of Pollutants discharged (mass/day) kg/day		
		PM	SO ₂	NO _x	PM	SO ₂	NO _x
1	Module Line 1	10.3	<1.0	16	12.37	<1.0	19
2	Module Line 2	8.9	<1.0	13	10.57	<1.0	15.62

PART-D**HAZARDOUS WASTES**

(as specified under Hazardous Wastes (Management & Handling Rules, 1989).

Hazardous Wastes	Total Quantity (Kg)	
	During the previous financial year 2022-23	During the current financial year 2023-24
1. From Process		
5.1 Spent/Used oil	NA	0.04 Tones
5.2 – Waste or Residue containing oil		0.012 Tones
33.1 - Empty barrels /containers / liners contaminated with hazardous chemicals / wastes		3.930 Tones
33.2 – Contaminated Cotton Rags		0.10 Tones
2. From Pollution Control Facilities - Spent carbon and filter medium		-

PART . E**SOLID WASTES:**

	During the previous financial year	During the current financial year
a. From Process	NA	Paper- 950 Kg/D Plastic sheet-70 Kg/D Carton- 800 kg/D Wooden pallet- 4200 Kg/D

		Glass waste- 190 Kg/D
b. From Pollution Control Facilities : 36.2 – Spent Carbon or Filter Medium.	NA	-
c. 1.Quantity recycled or re-utilised within the unit. 2.Sold 3.Disposed	NA	-

PART . F

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1.Hazardous Waste –

S. No.	Category of waste	Accumulated Quantity (Tons)	Disposal method
1.	5.1 - Used or Spent oil	0.040	Authorized recycler
2.	5.2 – Waste or Residue containing oil	0.012	Authorized recycler
3.	33.1 - Empty barrels /containers / liners contaminated with hazardous chemicals / wastes	3.930	Authorized recycler
4.	33.2 – Contaminated Cotton Rags	0.010	Authorized recycler
5.	36.2 – Spent Carbon or Filter Medium.	-	Authorized recycler

2.Solid Waste –

PART-G

S.NO	Solid waste	Generation quantity (Kg/D)	Disposal method
1.	Paper	950 Kg/D	Paper industry for recycling
2.	Carton	800 Kg/D	Paper industry for recycling
3.	Wood	4200 Kg/D	To recyclers
4.	Plastic	70 Kg/D	To recyclers
5.	Glass waste	190 Kg/D	To recyclers

Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production.

Environmental Improvement Measures

1. Utilizing the treated water from STP for green belt development
2. Conducted environmental awareness training programme for students in Tamarabarni Engineering college

PART . H

Additional measures/investment proposal for environmental protection including abatement of pollution.

S.No.	DESCRIPTION	COST in Lakh
1.	Drip irrigation for green belt development	50
2.	Total cost per Annum	50