



Department of Electrical and Electronics Engineering
Government College of Technology



Pay back Calculation for 20kW Grid Tied Solar PV system

Year	20kW SPV Generation in kWh	GCT Energy Consumption with SPV	GCT Energy Consumption without SPV	Electricity Bill with SPV generation	Electricity Bill without SPV generation	Saving in INR
						(by the injection of SPV generation)
2018	19355.83	1418003	1437358.8	9004319.05	9127228.38	122909.33
2019	21541.67	1384194	1405735.7	8789631.9	8926421.695	136789.795
2020	21038.23	747052	768090.23	4743780.2	4877372.961	133592.7605
2021	14205.7	927664	941869.7	5890666.4	5980872.595	90206.195
2022	22426	1154456	1176882	7330795.6	7473200.7	142405.1
2023- Upto Oct'23	9337.2	1159765	1169102.2	8118355	8183715.4	65360.4
Total	107904.63	6791134	6899038.63	43877548.15	44568811.73	691263.5805


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HoD/EEE