

### 7.1.2 Institution Facilities For Alternate Sources Of Energy And Energy Conservation Measures

#### SOLAR POWER PLANT DETAILS

Plant capacity I & II: 200 KW (Each 100KW)  
Inverters (4): 50KW  
Daily Generated Average Solar Units: 650-850  
Solar Panel DB: 400Amps

#### PLANT –I SPECIFICATIONS:

Year of Establishment: 2017  
Normal Peak Power of each solar panel  $P_{MPP} = 310W$   
No of Solar Panels: 323  
Inverters (2):  $50 KW * 2 = 100 KW$   
Capacity of plant I ( $310 * 323$ ) = 100KW

#### PLANT –II SPECIFICATIONS:

Year of Establishment: 2019  
Normal Peak Power of each solar panel  $P_{MPP} = 325W$   
No of Solar Panels: 318  
Inverters (2):  $50 KW * 2 = 100 KW$   
Capacity of plant I ( $325 * 318$ ) = 100KW

#### Details of power Generated and Export:

Average Power Generated per month=20000 Units

Average Power Export to grid per month=5000 Units

Average Power used in college per month=15000 Units

  
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