

Solar Panels

Area Used = 80%
Effective Area = 37000 Meter Square
Power in sun light = 1000 Watt / m^2
Solar Panel Efficiency = 20%

Rooftop Area = 47000 meters Square



Rain Water Harvesting

Area Used = 100%
Annual Rain fall = 800 milli meter
Efficiency Factor = 0.6

Collection

Power Captured = 7400000 watt (Sun Facing)
Average Peak Time = 4 hours/ Day
Effective Power = 1233 KVA

Annual Water Collection = 22560000 liters
Water need person/day = 50 liters
Water need person/annual = 18000 liters
Water Enough for = 1250 peoples

Storage

Energy Captured = 30000 KWh/day
Battery Capacity = 30000KWh

Cost Estimation

Panels = 225600000 INR
(6000/m^2)
Battery = 360960000 INR
(12000/KWh)
Total Cost = 580000000INR

AMC bill = 50000000 INR/annual

Profits Start = 12-13 Years After Instalation

