

Site Survey

Country: Kenya

Location Region: Samurai

Office name: Mercy Corps Maralal

GPS Coordinates: 1°05'17.6"N 36°41'25.9"E

Size: 900 SQ meter

Staff: 40 staff members and an average of 10 members of the community per day. In instances where conferences are held, the number of people can be 100

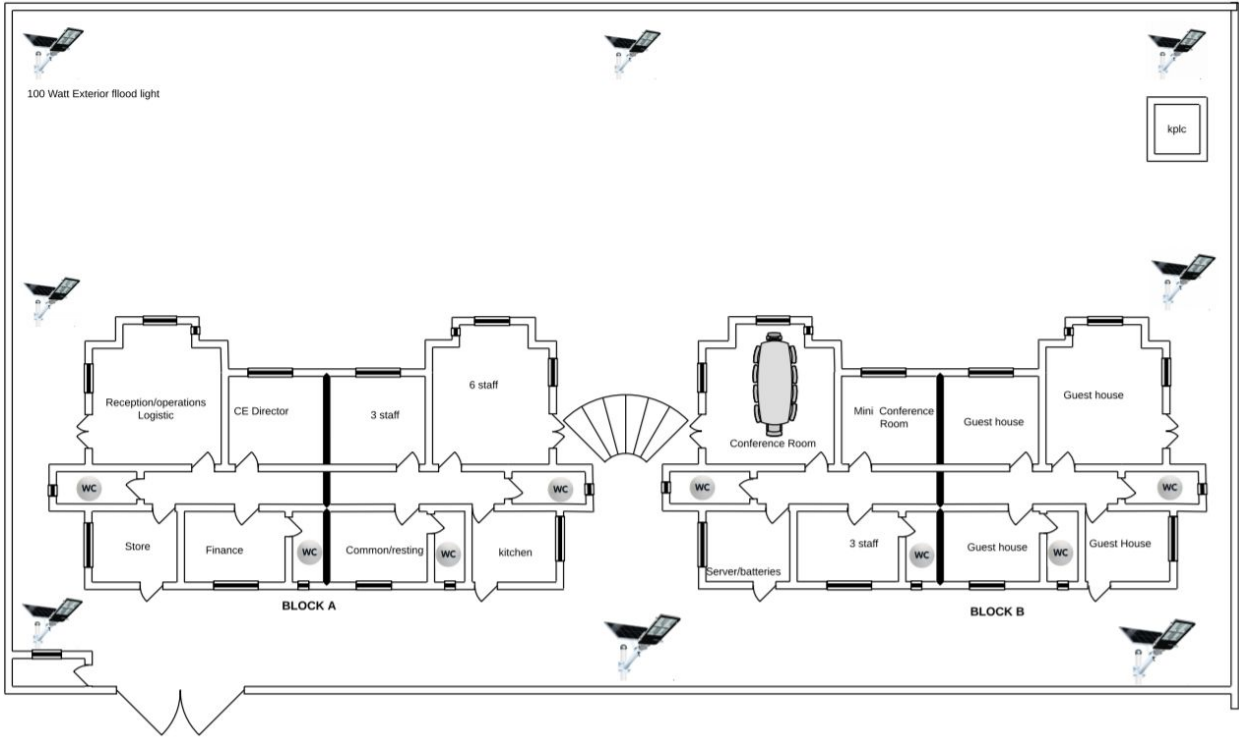
Load profile

Below is an indication of the appliances to be powered by the solar system:

Appliances	Quantity	Power	Hours of usage per day
Computers	40	65W each	3 charging hours
Printers	4	345W each	8
Network equipment	4	90W each	24
Refrigerators	2	220W each	24
Microwaves	2	1700W each	3.5 (40 people * 5 mins each/day)
Instant water heaters	8	3000W	1
Mobile phone devices	40	5W each	4
Interior lights	40	50W each	8
Exterior lights*	18	100W each	12
Water pumps	2	370W each	2
Water Dispenser	2	1300W each	8
Ceiling Fan	10	70W each	6

*replace with 8 x standalone solar lights

Office layout*



*All four buildings will be used as an office (no guesthouse)