

Room	Area	Load per unit (w)			Total load (w)
Living and Dining	358.85 sqft (33.34 sqm)	4	tube light	20	420
		2	ceiling light	20	
		3	ceiling fan	100	
Bedroom 1	127.42 sqft (11.84 sqm)	1	tube light	22	222
		1	ceiling fan	100	
		1	5A 2 pin SB level	100	
Bedroom 2	127.09 sqft (11.81 sqm)	1	tube light	22	222
		1	ceiling fan	100	
		1	5A 2 pin SB level	100	
Bedroom 3	135.81 sqft (12.62 sqm)	1	tube light	22	222
		1	ceiling fan	100	
		1	5A 2 pin SB level	100	
Bathroom 1	42.19 sqft (3.92 sqm)	1	mirror LED	10	30
		1	ceiling light	20	
Bathroom 2	35.63 sqft (3.31 sqm)	1	mirror LED	10	30
		1	ceiling light	20	
Bathroom 3	42.71 sqft (3.97 sqm)	1	mirror LED	10	30
		1	ceiling light	20	
Kitchen	70.47 sqft (6.55 sqm)	2	ceiling light	20	140
		1	5A 2 pin SB level	100	
Baranda 1	20.58 sqft (1.91 sqm)	1	ceiling light	20	120
		1	5A 2 pin SB level	100	
Baranda 2	30.49 sqft (2.83 sqm)	1	ceiling light	20	120
		1	5A 2 pin SB level	100	
Total Load					1499

Load to EMDB	Source	Watt	Total watt
Ceiling Fan	Living and Dining	100	
Ceiling light		20	
Ceiling Fan	Bedroom 1	100	
Tube light		22	
Tube light	Bedroom 2	22	
Tube light	Bedroom 3	22	
Ceiling light	Bathroom 3	20	
Ceiling light	Kitchen	20	
Load			326
3 pin 15A socket	Kitchen	3000	3000
Total	$0.7 \times 326 + 0.3 \times 3000$		1128.20

Load to SMDB	Source	Watt	Total watt
Load	Light, Fan and 2 pin 5A	1499 - 326	1173
15A 3 pin socket	Living and Dining	3000	9000
	Bedroom 1	3000	
	Bedroom 2	3000	
20 A 3 pin (AC)	Living and Dining	4000	8000
	Bedroom 1	4000	
Total	$0.7 \times 1173 + 0.3 \times (9000 + 8000)$		5921.1