

LOAD INVENTORY OF RED ROOF HUMANITARIAN HUB

No.	Description	ESTIMATED LOAD SCHEDULE								CRITICAL LOAD SCHEDULE			
		Qty	Unit of Measure	Unit Power Rating (Watt)	Total Power Required (Watt)	Day Time		Night Time		Day Time		Night Time	
						Qty	Power Required (Watts)	Qty	Power Required (Watts)	Qty	Power Required (Watt)	Qty	Power Required (Watt)
OFFICE BLOCK													
1	A/C UNIT	12	Nr	900	10,800	8	7,200	0	0	4	3,600	0	0
2	A/C UNIT	12	Nr	1,800	21,600	8	14,400	0	0	4	7,200	0	0
3	LIGHTING POINT	30	Nr	85	2,550	15	1,275	0	0	8	638	0	0
4	COMPUTERS	35	Nr	85	2,975	20	1,700	0	0	10	850	0	0
5	PRINTERS	30	Nr	1,000	30,000	10	10,000	0	0	5	5,000	0	0
6	SWITCHES	3	Nr	1,800	5,400	3	5,400	3	5,400	3	5,400	3	5,400
7	REFRIGERATORS	10	Nr	1,000	10,000	10	10,000	10	10,000	5	5,000	5	5,000
8	MISCELLANEOUS	1	Nr	3,000	3,000	1	2,100	0	0	0	1,050	0	0
	Sub-Total				86,325		52,075		15,400		28,738		10,400
TRAINING CENTER													
1	A/C UNIT	2	Nr	3,800	7,600	1	5,320	0	0	1	2,660	0	0
2	LIGHTING POINT	10	Nr	12	120	4	50	0	0	2	25	0	0
3	FANS	2	Nr	150	300	1	210	0	0	1	105	0	0
4	PRINTERS	2	Nr	1,200	2,400	1	1,680	0	0	1	840	0	0
5	CHARGERS	15	Nr	18	270	5	90	0	0	3	45	0	0
6	PROJECTOR	1	Nr	750	750	1	525	0	0	0	263	0	0
8	MISCELLANEOUS	5	Nr	100	500	1	100	0	0	1	50	0	0
	Sub-Total				11,940		7,975		0		3,988		0
CONFERENCE ROOM													
1	A/C UNITS	1	Nr	3800	3,800	1	2,660	0	0	1	3,800	0	0
2	A/C UNIT	2	Nr	1800	3,600	1	2,520	0	0	1	1,260	0	0
3	LIGHTING POINT	10	Nr	85	850	4	340	0	0	2	170	0	0
4	FANS	4	Nr	1000	4,000	0	0	0	0	0	0	0	0
5	PROJECTOR	1	Nr	750	750	1	525	0	0	1	750	0	0
6	CHARGES	30	Nr	18	540	5	90	0	0	0	0	0	0
7	UPS	1	Nr	1000	1,000	1	700	1	1,000	1	1,000	1	1,000
8	WATER DISPENSERS	1	Nr	750	750	1	525	1	525	1	750	0	0
9	MISCELLANEOUS	1	Nr	2500	2,500	1	1,750	0	0	1	2,500	0	0
	Sub-Total				17,790		9,110		1,525		10,230		1,000
DINING BLOCK													
1	A/C UNIT	5	Nr	1,800	9,000	4	6,300	0	0	2	3,150	0	0
2	A/C UNITS	2	Nr	3,800	7,600	1	5,320	0	0	1	2,660	0	0
3	WATER DISPENSER	4	Nr	325	1,300	3	910	0	0	2	650	2	650
4	FOOD WARMERS	5	Nr	1,500	7,500	4	5,250	0	0	0	0	0	0
5	WATER BOILER	4	Nr	1,500	6,000	3	4,200	3	4,200	2	3,000	0	0
6	MICROWAVE OVEN	4	Nr	2,500	10,000	2	5,000	0	0	1	2,500	0	0
7	FANS	8	Nr	250	2,000	2	500	0	0	4	1,000	0	0
8	LIGHTING POINT	15	Nr	85	1,275	8	714	0	0	4	357	0	0
9	EXTRACTOR FANS	2	Nr	80	160	2	160	0	0	2	160	0	0
10	WATER HEATER, 3 PHASE	1	Nr	6,000	6,000	1	6,000	1	6,000	1	3,000	1	6,000
11	MISCELLANEOUS	1	Nr	3,000	3,000	1	2,100	0	0	1	3,000	0	0
	Sub-Total				53,835		36,454		10,200		19,477		6,650
ETS OFFICE CONTAINERS													
1	A/C UNIT	6	Nr	1,800	10,800	4	7,560	0	0	3	5,400	0	0
2	COMPUTERS	1	Nr	2,500	2,500	1	1,750	1	1,750	1	2,500	0	0
3	SWITCHES	1	Nr	200	200	1	140	1	140	1	200	1	200
4	LIGHTING POINT	24	Nr	36	864	15	540	4	144	5	180	4	144
5	MISCELLANEOUS	8	Nr	12	96	5	60	1	12	4	48	1	7
	Sub-Total				14,460		10,050		2,046		8,328		351
GYM													
1	FANS	6	Nr	300	1,800	4	1,260	0	0	3	900	0	0
2	TREADMILL	4	Nr	1,500	6,000	3	4,200	0	0	3	4,500	0	0
3	EXTRACTOR FANS	8	Nr	80	640	6	448	0	0	3	240	0	0
4	A/C UNIT	3	Nr	2,800	8,400	2	5,880	0	0	1	2,800	0	0
5	TELEVISION	1	Nr	250	250	1	175	0	0	0	0	0	0
6	CLINIC A/C	1	Nr	1,800	1,800	0	0	0	0	0	0	0	0
7	LIGHTING POINT	15	Nr	85	1,275	5	425	0	0	3	255	0	0
8	PROJECTOR	1	Nr	750	750	0	0	0	0	0	0	0	0
9	CHARGER	10	Nr	85	850	3	255	0	0	1	85	0	0
10	MISCELLANEOUS	1	Nr	3,000	3,000	1	2,100	0	0	1	3,000	0	0
	Sub-Total				24,765		14,743		0		11,780		0
SECURITY GUARD HOUSE (MAIN ENTRANCE) AND SECURITY LIGHTS													
1	A/C UNIT	7	Nr	1,800	12,600	5	8,820	4	7,200	2	3,600	5	9,000
2	WATER DISPENSER	5	Nr	325	1,625	4	1,138	4	1,300	2	650	2	650
3	LIGHTING POINT	25	Nr	100	2,500	4	400	12	1,200	2	200	10	1,000
4	SECURITY LIGHT	65	Nr	200	13,000	0	0	65	13,000	0	0	50	10,000
5	FANS	8	Nr	300	2,400	6	1,680	6	1,800	3	900	4	1,200
	Sub-Total				32,125		1,680		14,800		900		11,200
WATER LABORATORY													
1	A/C UNIT	3	Nr	1,800	5,400	2	3,780	0	0	1	1,800	0	0
2	LIGHTING POINT	20	Nr	18	360	4	72	1	18	4	72	0	0
3	WATER PUMP	8	Nr	1,000	8,000	6	5,600	6	6,400	8	8,000	8	8,000
4	WATER TREATMENT PLANT 3PHASE	1	Nr	2,500	2,500	1	1,750	1	2,000	1	2,500	1	2,500

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5	MISCELLANEOUS	1	Nr	5,000	5,000	1	3,500	1	4,000	1	5,000	0	0
	Sub-Total				21,260		14,702		12,418		17,372		10,500
ACCOMMODATION AREA - MAIN BUILDING													
1	AC UNITS	11	Nr	1,800	19,800	5	9,000	10	18,000	3	5,400	7	12,600
2	TV SET	11	Nr	350	3,850	5	1,750	10	3,500	3	1,050	7	2,450
3	LIGHTING POINT	40	Nr	18	720	5	90	15	270	3	54	10	180
4	WATER HEATER	11	Nr	1,500	16,500	10	15,000	10	15,000	3	4,500	7	10,500
5	CHARGER	9	Nr	85	765	5	425	10	850	3	255	7	595
6	WATER DISPENSER	4	Nr	500	2,000	4	2,000	4	2,000	2	1,000	2	1,000
7	MISCELLANEOUS	1	Nr	3,000	3,000	1	3,000	1	3,000	1	1,500	1	1,500
	Sub-Total				46,635		31,265		42,620		13,759		28,825
ACCOMMODATION AREA - BOYS' QUARTER													
1	AC UNITS	10	Nr	1,800	18,000	3	5,400	10	18,000	2	2,700	8	14,400
2	TV SET	11	Nr	350	3,850	3	1,050	10	3,500	2	525	8	2,800
3	LIGHTING POINT	30	Nr	18	540	3	54	18	324	2	27	8	144
4	WATER HEATER	10	Nr	1,500	15,000	10	15,000	10	15,000	5	7,500	8	12,000
5	CHARGER	10	Nr	85	850	3	255	10	850	2	128	8	680
6	WATER DISPENSER	2	Nr	500	1,000	2	1,000	2	1,000	1	500	1	500
7	MISCELLANEOUS	1	Nr	3,000	3,000	1	3,000	1	3,000	1	1,500	1	3,000
	Sub-Total				42,240		25,759		41,674		12,880		33,524
ACCOMMODATION AREA - HUB A													
1	AC UNITS	68	Nr	1,800	122,400	20	36,000	40	72,000	10	18,000	35	63,000
2	TV SET	100	Nr	350	35,000	20	7,000	40	14,000	10	3,500	35	12,250
3	LIGHTING POINT	75	Nr	18	1,350	20	360	40	720	10	180	35	630
4	WATER HEATER	36	Nr	1,500	54,000	10	15,000	20	30,000	5	7,500	15	22,500
5	WATER HEATER, 3 PHASE	3	Nr	6,000	18,000	3	18,000	3	18,000	2	9,000	2	12,000
6	CHARGER	68	Nr	85	5,780	20	1,700	40	3,400	10	850	35	2,975
7	WATER DISPENSER	4	Nr	500	2,000	4	2,000	4	2,000	2	1,000	2	1,000
8	MISCELLANEOUS	1	Nr	3,000	3,000	1	3,000	1	3,000	1	1,500	1	3,000
	Sub-Total				241,530		83,060		143,120		41,530		117,355
ACCOMMODATION AREA - HUB B													
1	AC UNITS	88	Nr	1,800	158,400	20	36,000	66	118,800	10	18,000	40	72,000
2	TV SET	88	Nr	350	30,800	20	7,000	66	23,100	10	3,500	40	14,000
3	LIGHTING POINT	150	Nr	18	2,700	30	540	100	1,800	15	270	60	1,080
4	WATER HEATER	56	Nr	1,500	84,000	10	15,000	42	63,000	5	7,500	20	30,000
5	WATER HEATER, 3 PHASE	3	Nr	6,000	18,000	3	18,000	3	18,000	2	9,000	2	12,000
6	CHARGER	60	Nr	85	5,100	20	1,700	45	3,825	10	850	40	3,400
7	WATER DISPENSER	6	Nr	500	3,000	6	3,000	6	3,000	3	1,500	3	1,500
8	MISCELLANEOUS	1	Nr	3,000	3,000	2	6,000	1	3,000	1	3,000	1	3,000
	Sub-Total				305,000		87,240		234,525		43,620		136,980
TOTAL LOAD IN WATTS					897,905		374,113		518,328		212,601		356,785