

ELECTRICAL LOAD SUMMARY						
<b>LIGHTING LOAD</b>						
S.No	Load Details	TCL (kW)	TDL (KW)	Current (A)	Breaker Size(A)	Cable Size
1	DB-GFA	53.06	45.28	101.88	100	4C 25-Sqmm Cu/PVC/PVC +ECC 25 Sqmm Cu/PVC
2	DB-GFB	41.34	41.34	93.01	100	4C 25-Sqmm Cu/PVC/PVC +ECC 16 Sqmm Cu/PVC
3	DB-EXT	4.41	4.41	9.92	32	4C 6-Sqmm Cu/PVC/PVC +ECC 6 Sqmm Cu/PVC
4	DB-1FA	47.34	47.34	106.52	32	4C 6-Sqmm Cu/PVC/PVC +ECC 6 Sqmm Cu/PVC
5	DB-1FB	53.09	53.09	119.46	32	4C 6-Sqmm Cu/PVC/PVC +ECC 6 Sqmm Cu/PVC
6	DB-2FA	45.33	45.33	102.00	32	4C 6-Sqmm Cu/PVC/PVC +ECC 6 Sqmm Cu/PVC
7	DB-2FB	62.72	62.72	141.13	32	4C 6-Sqmm Cu/PVC/PVC +ECC 6 Sqmm Cu/PVC
	<b>Total Connected Load</b>	<b>307.30</b>	<b>299.52</b>	<b>673.91</b>		<b>4C 50 Sq.mm Cu./PVC + ECC 1C-25 Sq.mm Cu./PVC</b>
<b>UDB</b>						
1	UPS (2kVA)	1.50	1.00	8.1	20	3C 6-Sqmm Cu/PVC/PVC
<b>LIFT</b>						
1	TCL without Lift			673.91	120	4C 35 Sq.mm Cu./PVC + ECC 1C-25 Sq.mm Cu./PVC
2	Hydraulic Lift	16.00	16.00	36.00	40	4C 10 Sq.mm Cu./PVC + ECC 1C-10 Sq.mm Cu./PVC
	<b>Total Connected Load</b>	<b>16.00</b>	<b>16.00</b>	<b>709.91</b>	<b>125</b>	<b>4C 50 Sq.mm Cu./PVC + ECC 1C-25 Sq.mm Cu./PVC</b>
<b>GENERATOR</b>						
S.No	DESCRIPTION	TCL (kW)	TDL @50%	Ampere (A)	Breaker Size (A)	Cable Size
1	GENSET @50% of TCL (35kVA) (With Lift Provision)	43.00	21.50	48.38	80	4C 10-Sqmm Cu/PVC/PVC +ECC 10 Sqmm Cu/PVC
	GENSET @50% of TCL (60kVA) (With Lift Provision)	59.375				
<b>Miscellaneous Load</b>						
S.No	DESCRIPTION	TCL (kW)	TDL	Ampere (A)	Breaker Size (A)	Cable Size
1	HEATERS LOAD		0.00	0.00	244.40	
2	WATER PUMPS	4	3.20			
3	INSTANT WATER HEATERS	7	5.60			
4	VENT FAN	4	3.20			
	<b>Total Heating Load</b>	<b>15.00</b>	<b>12.00</b>	<b>0.00</b>		
<b>TOTAL CONNECTED LOAD</b>						
		<b>339.80</b>	<b>328.52</b>			

ELECTRICAL LOAD BREAKUP					
DB-GFA					
S.No	Load Details	Wattage	Qty	Total Load (kW)	MAX. DEMAND LOAD (kW)
<b>LPDB</b>					
<b>A.</b>	<b>Lighting</b>				
1	Round Type Surface Down Light 20W	20	0	0.00	0.00
2	T-5 LED Batten Light	14	114	1.60	1.28
3	LED Down Light Fixtrue	10	24	0.24	0.19
4	Surface Down Light for Open Area IP-54	15	16	0.24	0.19
5	15W Surface Down lights	15	6	0.09	0.07
6	Exit light with battery backup	4	2	0.01	0.01
7	Wall Emergency Light with battery backup	6		0.00	0.00
8	Ceiling emergency light with battery backup	4		0.00	0.00
9	Ceiling Fan 48"	80	26	2.08	1.66
10	Ceiling Fan 36"	80	12	0.96	0.77
11	Ramp Step Light		0		
12	15W Surface Down lights	15	6		
	<b>Total</b>			<b>5.21</b>	<b>4.17</b>
<b>B.</b>	<b>Small Power</b>				
1	3 Pin - 13A International switch socket outlet	50	37	1.85	1.11
	<b>Total</b>			<b>1.85</b>	<b>1.11</b>
	<b>Over All Lighting Power Load</b>			<b>7.06</b>	<b>5.28</b>
<b>C.</b>	<b>HEATER</b>				
1	HEATER @3kW Each		0	46.00	36.80
2	INSTANT WATER HEATERS	3	2	3.00	2.40
3	VENT FAN		0	1.00	0.80
4	WATER PUMPS 2NOS @2KW EACH		0	0.00	0.00
	<b>Total</b>			<b>46.00</b>	<b>40.00</b>
	<b>DB-GFA</b>			<b>53.06</b>	<b>45.28</b>
<b>SUMMARY</b>					
<b>DB Tags</b>	<b>TCL (kW)</b>	<b>TDL(KW)</b>	<b>Current (A)</b>	<b>Breaker Size(A)</b>	<b>Cable Size</b>
<b>DB-GFA</b>	53.06	45.28	101.88	100	4C 25-Sqmm Cu/PVC/PVC +ECC 25 Sqmm Cu/PVC

ELECTRICAL LOAD BREAKUP					
DB-GFB					
S.No	Load Details	Wattage	Qty	Total Load (kW)	MAX. DEMAND LOAD (kW)
<b>DB-CR</b>					
<b>A.</b>	<b>LIGHTING FIXTURES</b>				
1	Round Type Surface Down Light 20W	20	22	0.44	0.35
2	T-5 LED Batten Light	14	75	1.05	0.84
3	LED Down Light Fixture	10	3	0.03	0.02
4	Surface Down Light for Open Area IP54.	15	20	0.30	0.24
5	Exit light with battery backup	4	3	0.01	0.01
	Wall Emergency Light with battery backup	5			
	Ceiling emergency light with battery backup	4			
6	Ceiling Fan 48"	80	36	2.88	2.30
7	Ramp Step Light				
	3 Pin - 13A International switch socket outlet				
	<b>Total</b>			<b>4.71</b>	<b>3.30</b>
<b>B.</b>	<b>Power Sockets</b>				
1	3 Pin - 13A International switch socket outlet	50	33	1.65	1.32
2	Technology Box having two Power Sockets each	100	32	3.20	2.56
3	Floor Box	100	1	0.10	0.08
	<b>Total</b>			<b>4.95</b>	<b>3.96</b>
<b>B.</b>	<b>ELECTRIC HEATER</b>				
1	Room Heaters	2000		40.10	32.08
	Water Heater			1.50	1.20
	Vent Fan	3000		1.00	0.80
	<b>Total</b>			<b>42.60</b>	<b>34.08</b>
	<b>Total Load</b>			<b>52.26</b>	<b>41.34</b>
<b>SUMMARY</b>					
<b>DB Tags</b>	<b>TCL (kW)</b>	<b>TDL(KW)</b>	<b>Current (A)</b>	<b>Breaker Size(A)</b>	<b>Cable Size</b>
DB-GFB	52.26	41.34	93.01	100	4C 25-Sqmm Cu/PVC/PVC +ECC 16 Sqmm Cu/PVC

ELECTRICAL LOAD BREAKUP					
DB-EXT					
S.No	Load Details	Wattage	Qty	Total Load (kW)	MAX. DEMAND LOAD (kW)
<b>LPDB</b>					
<b>A.</b>	<b>Lighting</b>				
1	Round Type Surface Down Light 20W	20	1	0.02	0.02
2	T-5 LED Batten Light	14		0.00	0.00
3	LED Down Light Fixtrue	10		0.00	0.00
4	Surface Down Light for Open Area	15		0.00	0.00
	Wall Light for External Area IP54	15		0.00	0.00
8	Fan 48"	80	1	0.08	0.06
9	Ramp Step Light	4	17	0.07	0.05
10	Bollard Light	20	6	0.12	0.10
11	Exit light with battery backup	4		0.00	0.00
12	Gate Light	20	3	0.06	0.05
13	Planter Light	15	5	0.08	0.06
14	Flood Light	100		0.00	0.00
15	External Boundary Wall Light	15	60	0.90	0.72
	Wall Bracket Fan	65		0.00	0.00
	<b>Total</b>			<b>1.32</b>	<b>1.06</b>
<b>B.</b>	<b>Small Power</b>				
1	3 Pin - 13A International switch socket outlet	50	5	0.25	0.15
	<b>Total</b>			<b>0.25</b>	<b>0.15</b>
<b>C.</b>	<b>Plumbing Load</b>				
1	Water Pump	2000	2	4.00	3.20
	<b>Total</b>			<b>4.00</b>	<b>3.20</b>
	<b>Total Load</b>			<b>5.57</b>	<b>4.41</b>
<b>SUMMARY</b>					
<b>DB Tags</b>	<b>TCL (kW)</b>	<b>TDL(KW)</b>	<b>Current (A)</b>	<b>Breaker Size(A)</b>	<b>Cable Size</b>
<b>DB-EXT</b>	5.57	4.41	9.92	32	4C 6-Sqmm Cu/PVC/PVC +ECC 6 Sqmm Cu/PVC

ELECTRICAL LOAD BREAKUP					
DB-1FA					
S.No	Load Details	Wattage	Qty	Total Load (kW)	MAX. DEMAND LOAD (kW)
<b>LPDB</b>					
<b>A.</b>	<b>Lighting</b>				
1	Round Type Surface Down Light 20W	20	0	0.00	0.00
2	T-5 LED Batten Light	14	90	1.26	1.01
3	LED Down Light Fixtrue	10	24	0.24	0.19
4	Surface Down Light for Open Area IP-54	15	9	0.14	0.11
5	15W Surface Down lights	15	6	0.09	0.07
6	Exit light with battery backup	4	1	0.00	0.00
7	Wall Emergency Light with battery backup	6		0.00	0.00
8	Ceiling emergency light with battery backup	4		0.00	0.00
9	Ceiling Fan 48"	80	30	2.40	1.92
10	Ceiling Fan 36"	80		0.00	0.00
11	Ramp Step Light				
	<b>Total</b>			<b>4.13</b>	<b>3.30</b>
<b>B.</b>	<b>Small Power</b>				
1	3 Pin - 13A International switch socket outlet	50	24	1.20	0.72
	Power Socket for Hand Dryer	100	2	0.20	0.12
	<b>Total</b>			<b>1.40</b>	<b>0.84</b>
<b>C.</b>	<b>HEATER</b>				
1	HEATER kW Each	3000		51.00	40.80
	Water Heaters	1500	2	3.00	2.40
	<b>Total</b>			<b>54.00</b>	<b>43.20</b>
	<b>DB-1FA</b>			<b>59.53</b>	<b>47.34</b>
<b>SUMMARY</b>					
<b>DB Tags</b>	<b>TCL (kW)</b>	<b>TDL(KW)</b>	<b>Current (A)</b>	<b>Breaker Size(A)</b>	<b>Cable Size</b>
<b>DB-1FA</b>	59.53	47.34	106.52	125	4C 35-Sqmm Cu/PVC/PVC +ECC 25 Sqmm Cu/PVC

**ELECTRICAL LOAD BREAKUP**

**DB-1FB**

S.No	Load Details	Wattage	Qty	Total Load (kW)	MAX. DEMAND LOAD (kW)
<b>A.</b>	<b>LIGHTING FIXTURES</b>				
1	Round Type Surface Down Light 20W	20	0	0.00	0.00
2	T-5 LED Batten Light	14	120	1.68	1.34
3	LED Down Light Fixture	10	2	0.02	0.02
4	Surface Down Light for Open Area IP54.	15	14	0.21	0.17
5	Exit light with battery backup	4	1	0.00	0.00
6	Wall Emergency Light with battery backup	5	0		
7	Ceiling emergency light with battery backup	4	0		
8	Ceiling Fan 48"	80	42	3.36	2.69
9	Ramp Step Light				
10					
	<b>Total</b>			<b>5.27</b>	<b>3.69</b>
<b>B.</b>	<b>Power Sockets</b>				
1	3 Pin - 13A International switch socket outlet	50	35	1.75	<b>1.40</b>
2	Technology Box having two Power Sockets each	100		0.00	<b>0.00</b>
3	Floor Box	100		0.00	<b>0.00</b>
	Power Socket for Dryer	100	0	0.00	<b>0.00</b>
	<b>Total</b>			<b>1.75</b>	<b>1.40</b>
<b>B.</b>	<b>ELECTRIC HEATER</b>				
	Room Heaters	3000		60.00	<b>48.00</b>
	<b>Total</b>			<b>60.00</b>	<b>48.00</b>
	<b>Total Load</b>			<b>67.02</b>	<b>53.09</b>
<b>SUMMARY</b>					
<b>DB Tags</b>	<b>TCL (kW)</b>	<b>TDL(KW)</b>	<b>Current (A)</b>	<b>Breaker Size(A)</b>	<b>Cable Size</b>
<b>DB-1FB</b>	67.02	53.09	119.46	125	4C 35-Sqmm Cu/PVC/PVC +ECC 25 Sqmm Cu/PVC

<b>ELECTRICAL LOAD BREAKUP</b>					
<b>DB-1FA</b>					
<b>S.No</b>	<b>Load Details</b>	<b>Wattage</b>	<b>Qty</b>	<b>Total Load (kW)</b>	<b>MAX. DEMAND LOAD (kW)</b>
<b>LPDB</b>					
<b>A.</b>	<b>Lighting</b>				
1	Round Type Surface Down Light 20W	20		0.00	0.00
2	T-5 LED Batten Light	14	90	1.26	1.01
3	LED Down Light Fixtrue	10	24	0.24	0.19
4	Surface Down Light for Open Area IP-54	15	36	0.54	0.43
5	15W Recessed Down lights	15	6	0.09	0.07
6	Exit light with battery backup	4	1	0.00	0.00
7	Wall Emergency Light with battery backup	6		0.00	0.00
8	Ceiling emergency light with battery backup	4		0.00	0.00
9	Ceiling Fan 48"	80	30	2.40	1.92
10	Ceiling Fan 36"	80		0.00	0.00
11	Exhaust Fan	65	12	0.78	0.62
	<b>Total</b>			<b>5.31</b>	<b>4.25</b>
<b>B.</b>	<b>Small Power</b>				
1	3 Pin - 13A International switch socket outlet	50	24	1.20	0.72
	Power Socket for Hand Dryer	100	2	0.20	0.12
	<b>Total</b>			<b>1.40</b>	<b>0.84</b>
<b>C.</b>	<b>HEATER</b>				
1	HEATER @3kW Each	3000		47.30	37.84
	WATER HEATER			3.00	2.40
	<b>Total</b>			<b>50.30</b>	<b>40.24</b>
	<b>DB-2FA</b>			<b>57.01</b>	<b>45.33</b>
<b>SUMMARY</b>					
<b>DB Tags</b>	<b>TCL (kW)</b>	<b>TDL(KW)</b>	<b>Current (A)</b>	<b>Breaker Size(A)</b>	<b>Cable Size</b>
<b>DB-2FA</b>	57.01	45.33	102.00	100	4C 25-Sqmm Cu/PVC/PVC +ECC 16 Sqmm Cu/PVC

<b>ELECTRICAL LOAD BREAKUP</b>					
<b>DB-1FB</b>					
<b>S.No</b>	<b>Load Details</b>	<b>Wattage</b>	<b>Qty</b>	<b>Total Load (kW)</b>	<b>MAX. DEMAND LOAD (kW)</b>
<b>A.</b>	<b>LIGHTING FIXTURES</b>				
1	Round Type Surface Down Light 20W	20		0.00	0.00
2	T-5 LED Batten Light	14	120	1.68	1.34
3	LED Down Light Fixture	10	2	0.02	0.02
4	Surface Down Light for Open Area IP54.	15	17	0.26	0.20
5	Exit light with battery backup	4	1	0.00	0.00
6	Wall Emergency Light with battery backup	5			
7	Ceiling emergency light with battery backup	4			
8	Ceiling Fan 48"	80	42	3.36	2.69
9	Ramp Step Light				
10					
	<b>Total</b>			<b>5.32</b>	<b>3.72</b>
<b>B.</b>	<b>Power Sockets</b>				
1	3 Pin - 13A International switch socket outlet	50	35	1.75	1.40
2	Technology Box having two Power Sockets each	100		0.00	0.00
3	Floor Box	100		0.00	0.00
4	Power Socket for Dryer	100	0	0.00	0.00
	<b>Total</b>			<b>1.75</b>	<b>1.40</b>
<b>B.</b>	<b>ELECTRIC HEATER</b>				
1	EWB-01	2000			0.00
2	Room Heaters	3000		72.00	57.60
	<b>Total</b>			<b>72.00</b>	<b>57.60</b>
	<b>Total Load</b>			<b>79.07</b>	<b>62.72</b>
<b>SUMMARY</b>					
<b>DB Tags</b>	<b>TCL (kW)</b>	<b>TDL(KW)</b>	<b>Current (A)</b>	<b>Breaker Size(A)</b>	<b>Cable Size</b>
<b>DB-2FB</b>	79.07	62.72	141.13	150	4C 50-Sqmm Cu/PVC/PVC +ECC 25 Sqmm Cu/PVC



S.No	Load Details	TCL (kW)	TDL (KW)	Current (A)	Breaker Size(A)	Cable Size
1	DB-GFA		40.00	Current (A)	Breaker Size(A)	
2	DB-GFB		34.08	Current (A)	Breaker Size(A)	
3	DB-EXT		3.20	Current (A)	32	
4	DB-1FA		43.20	Current (A)	32	4C 6-Sqmm Cu/PVC/PVC +ECC 6 Sqmm Cu/PVC
5	DB-1FB		48.00	Current (A)	32	4C 6-Sqmm Cu/PVC/PVC +ECC 6 Sqmm Cu/PVC
6	DB-2FA		40.24	Current (A)	32	4C 6-Sqmm Cu/PVC/PVC +ECC 6 Sqmm Cu/PVC
7	DB-2FB		57.60	Current (A)	32	4C 6-Sqmm Cu/PVC/PVC +ECC 6 Sqmm Cu/PVC