



METER DETAILS		
Meter Type	Rating Range	Number of Meters Required
Direct	1A - 100A	2
S	100A - 400A	1
T	400A - 1300A	1
W	1300A - 3750A	0

LOAD BREAKDOWN DETAILS						
Load Type	Number	Phase	Diversity Factor	Individual Maximum Rating (A)	Individual Estimated Operation Rating (A)	Total Estimated Operation Rating (kVA)
Light (Common Property)	20	1	0.3	20	6	28.80
GPO	40	1	0.8	20	16	153.60
Motion Sensors	20	1	0.3	10	3	14.40
GPO	10	3	0.5	20	10	71.88
<b>Total Estimated Operation Rating (kVA)</b>						<b>268.68</b>

GENERATOR SPECIFICATION DETAILS										
Single Line Diagram Code	Load Type	Maximum Rating	Power Factor	Phase	Frequency (Hertz)	Frequency Regulation	Voltage Regulation	Instantaneous Voltage Dip	Stable Operation Recovery Time	Voltage Adjustment
G1	Generator	300 kW	0.8	3	50	0.5 Hz	+/- 1 %	11%	2 s	+/- 5 %

POWER QUALITY DISTURBANCE LOAD DETAILS										
Load Type	Number	Individual Maximum Rating (kW)	Phase	Operation Frequency	Individual Starting Power Factor	Individual Operation Power Factor	Individual Starting Current (A)	Individual Estimated Operation Current (A)	Total Estimated Operation Rating (kVA)	
Motor	3	40	3	5 times per hour	0.117	0.8	477	64	138.01	
Welding Machine	1	5	1	2 times per 30 minutes	0.067	0.7	179	29	20.85	
Pump	2	50	3	3 times per hour	0.133	0.8	521	78	112.13	
<b>Total Estimated Operation Rating (kVA)</b>									<b>270.99</b>	