BUROHAPPOLD ENGINEERING

BH-ZSG-CAL-E-0001

Section D - Load Calculation

Revision	Description	Issued by	Date	Checked by
01	VFC	JV	Dec-15	PG

Project:	**Lodha Kolshet**	**Reference:**	**SG-E-CAL-001**
		Sheet no:	**1**
Area of Project:	**Sales gallery Plot C**	**Revision:**	**1**
		Prepared by:	**JV**
Description:	**Electrical load estimation**	**Checked by:**	**PG**
		Date:	**1-Dec-15**

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Sr. No	Area name	Area		Lighting	Power	Total connected load	Diversity factor	Working load
		m2	ft2	W/m2	W/m2	KW		KW
Sales gallery								
1	SG-LPDB-L0001					13.4	0.8	10.72
2	SG-LPDB-L0002					12.18	0.8	9.74
3	SG-ACDB-L0001					7.31	1	7.31
4	SG-ACDB-L0002					3.69	1	3.69
5	SG-ELPDB-L0001					10.81	0.8	8.65
6	SG-EXT-LPDB-L0001					6.5	1	6.5
7	SG-TENANT-L0001					3.92	0.8	3.14
HVAC High Side (1 Nos. 12.6 kW VRF)						75	1	75
Pump load (2 Nos. 1 W + 1 S)						2.2	1	2.2
Water feature + irrigation pump (TBC)						3	0.8	2.4
A/V equipment (TBC)						15	0.9	13.5
Pantry equipment (TBC)						10	0.8	8
PA System equipment						0.5	0.9	0.45
CCTV system						0.5	0.9	0.45
Telephone system / Server						1.1	0.9	0.99
External lighting						15	0.8	12
Total Load in kW						**180.00**		**165.00**
Total Load in kVA @ 0.8 PF						**225.00**		**206.00**
Total Load Considering Overall Diversity @ 0.8						**180.00**		**165.00**
Total Load in KVA considering 80 % Equipment Loading						**225.00**		**206.25**
Hence, Selected DG Rating								**250.00**