

PROPOSED ELECTRICAL LOAD LIST FOR COPPER CHIMNEY (OBEROI MALL)										DATE	24.01.2024
SR.NO.	SB NO.	APPLIANCE	VOLTS	WATTS	NOS	TOTAL CONNNECT LOAD WATTS	TOTAL CONNECT LOAD KW	D/F	MD WATTS	TOTAL MD LOAD KW	TOTAL UPS LOAD WATTS
1 KITCHEN AREA											
1.1	KSB01	INSECT KILLER	220	375	1	375	0.375	0.8	300	0.3	
1.2		AIR CURTAIN	220	375	1	375	0.375	0.8	300	0.3	
1.3	KSB02	GEYSER	220	3000	1	3000	3	0.8	2400	2.4	
1.4	KSB03	SPARE	220	250	1	250	0.25	0.8	200	0.2	
1.5	KSB04	VERTICAL CHILLER	220	560	1	560	0.56	0.8	448	0.448	
1.6	KSB05	VERTICAL CHILLER	220	560	1	560	0.56	0.8	448	0.448	
1.7	KSB06	VERTICAL DEEP FREEZER	220	560	1	560	0.56	0.8	448	0.448	
1.8	KSB07	VERTICAL DEEP FREEZER	220	560	1	560	0.56	0.8	448	0.448	
1.9	KSB08	REFRIGERATOR	220	560	1	560	0.56	0.8	448	0.448	
		SPARE	220	250	1	250	0.25	0.8	200	0.2	
1.10	KSB09	MEAT MINCER	220	1500	1	1500	1.5	0.8	1200	1.2	
1.11	KSB10	SPARE	220	250	1	250	0.25	0.8	200	0.2	
1.12	KSB11	REFRIGERATOR	220	560	1	560	0.56	0.8	448	0.448	
		SPARE	220	250	1	250	0.25	0.8	200	0.2	
1.13	KSB12	EXHAUST LIGHT	220	100	1	100	0.1	0.8	80	0.08	
1.14	KSB13	VISI COOLER	220	375	1	375	0.375	0.8	300	0.3	
		SPARE	220	250	1	250	0.25	0.8	200	0.2	
1.15	KSB14	CHEST FREEZER	220	1000	1	1000	1	0.8	800	0.8	
1.16		SPARE	220	250	1	250	0.25	0.8	200	0.2	
1.17	KSB15	REFRIGERATOR	220	375	1	375	0.375	0.8	300	0.3	
1.18		SPARE	220	250	2	500	0.5	0.8	400	0.4	
1.19	KSB16	HOT CASE	220	2500	1	2500	2.5	0.8	2000	2	
1.20	KSB17	SALAMANDER	220	3000	1	3000	3	0.8	2400	2.4	
1.21	KSB18	SPARE	220	250	1	250	0.25	0.8	200	0.2	
1.23	KSB19	REFRIGERATOR	220	375	1	375	0.375	0.8	300	0.3	
1.24		RR	220	1000	2	2000	2	0.8	1600	1.6	
1.25	KSB19A	POS	220	250	2	500	0.5	0.8	400	0.4	
1.26	KSB20	MICROWAVE OVEN	220	1000	1	1000	1	0.8	800	0.8	
1.27	KSB21	MICROWAVE OVEN	220	1000	1	1000	1	0.8	800	0.8	
1.28	KSB22	HOT BAIN MARIE	220	1500	1	1500	1.5	0.8	1200	1.2	
1.29	KSB23	WATER COOLER	220	375	1	375	0.375	0.8	300	0.3	
1.30		SPARE	220	250	1	250	0.25	0.8	200	0.2	
1.31	KSB24	DISH WASHER	415	9000	1	9000	9	0.8	7200	7.2	
1.32	KSB25	GEYSER	220	3000	1	3000	3	0.8	2400	2.4	
1.33	KSB26	SPARE	220	250	1	250	0.25	0.8	200	0.2	
1.34	KSB27	STEP IN REFRIGERATOR	415	6000	1	6000	6	0.8	4800	4.8	
1.35	KSB28	DEEP FAT FRYER	220	3300	1	3300	3.3	0.8	2640	2.64	
1.36	KSB29	DEEP FAT FRYER	220	3300	1	3300	3.3	0.8	2640	2.64	
1.37	KSB30	EXHAUST LIGHT	220	100	1	100	0.1	0.8	80	0.08	
2 BAR AREA											
2.1	BSB1	Beer Chilling Machine	220	1000	1	1000	1	0.8	800	0.8	
2.2		SPARE	220	250	1	250	0.25	0.8	200	0.2	
2.3	BSB2	BLENDER	220	250	1	250	0.25	0.8	200	0.2	
2.4		SPARE	220	250	1	250	0.25	0.8	200	0.2	
2.5	BSB3	Back Bar Bottle Cooler	220	373	1	373	0.373	0.8	298.4	0.2984	
2.6		SPARE	220	250	1	250	0.25	0.8	200	0.2	
2.7	BSB4	Back Bar Bottle Cooler	220	373	1	373	0.373	0.8	298.4	0.2984	
2.8		SPARE	220	250	1	250	0.25	0.8	200	0.2	
2.9	BSB5	Single Pod Coffee Machine	220	3600	1	3600	3.6	0.8	2880	2.88	
2.10	BSB6	Coffee Grinder	220	300	1	300	0.3	0.8	240	0.24	
2.11	BSB7	SPARE	220	250	1	250	0.25	0.8	200	0.2	
2.12	BSB8	ICE CUBE MACHINE	220	500	1	500	0.5	0.8	400	0.4	
2.13	BSB9	Under Counter Glass Washer	220	3500	1	3500	3.5	0.8	2800	2.8	
3 DINING AREA											
3.1	DSB-1	CONVENIENCE POINT	220	120	1	120	0.12	0.8	96	0.096	
3.2	DSB-2	SERVICE STATION	220	120	2	240	0.24	0.8	192	0.192	
3.3	DSB-3	CONVENIENCE POINT	220	120	1	120	0.12	0.8	96	0.096	
3.4	DSB-4	CONVENIENCE POINT	220	120	1	120	0.12	0.8	96	0.096	
3.5	DSB-5	CONVENIENCE POINT	220	120	1	120	0.12	0.8	96	0.096	
3.6	DSB-6	CONVENIENCE POINT	220	120	1	120	0.12	0.8	96	0.096	
3.7	DSB-7	SERVICE STATION	220	120	2	240	0.24	0.8	192	0.192	
3.8	DSB-8	CONVENIENCE POINT	220	120	2	240	0.24	0.8	192	0.192	
3.9	DSB-9	CONVENIENCE POINT	220	120	1	120	0.12	0.8	96	0.096	
3.10	DSB-10	CONVENIENCE POINT	220	120	1	120	0.12	0.8	96	0.096	
3.11	DSB-11	CONVENIENCE POINT	220	120	1	120	0.12	0.8	96	0.096	
3.12	DSB-12	CONVENIENCE POINT	220	120	1	120	0.12	0.8	96	0.096	
3.13	DSB-13	CONVENIENCE POINT	220	120	1	120	0.12	0.8	96	0.096	
3.14	DSB-14	SERVICE STATION	220	120	2	240	0.24	0.8	192	0.192	
3.15	DSB-15	CONVENIENCE POINT	220	120	1	120	0.12	0.8	96	0.096	
3.16	DSB-16	CONVENIENCE POINT	220	120	1	120	0.12	0.8	96	0.096	
3.17	DSB-17	CONVENIENCE POINT	220	120	1	120	0.12	0.8	96	0.096	
3.18	DSB-18	CONVENIENCE POINT	220	120	1	120	0.12	0.8	96	0.096	
3.19	DSB-19	CONVENIENCE POINT	220	120	1	120	0.12	0.8	96	0.096	
3.20	DSB-20	CONVENIENCE POINT	220	120	2	240	0.24	0.8	192	0.192	
3.21	DSB-21	DIGITAL SCREEN	220	120	2	240	0.24	0.8	192	0.192	
4 OTHERS											
4.1		EXISTING CHILLED WATER TYPE AHU UNIT - 3375CFM	415	2500	2	5000	5	0.8	4000	4	
4.2		EXHAUST AIR BLOWER	415	5500	1	5500	5.5	0.8	4400	4.4	
4.3		FRESH AIR BLOWER	415	3500	1	3500	3.5	0.8	2800	2.8	
4.4		DRY SCRUBBER	220	250	1	250	0.25	0.8	200	0.2	
4.5		SIGNAGE POINT	220	500	1	500	0.5	0.8	400	0.4	
4.6		UPS DB - 5KVA (Emergency Lights + CCTV NVR + Fire Alarm + POS)	220	4000	1	4000	4	0.8	3200	3.2	
4.7		DINING AREA - Lighting	415	3500	1	3500	3.5	0.8	2800	2.8	
4.8		DECORATIVE CEILING FAN	220	120	6	720	0.72	0.8	576	0.576	
4.9		KITCHEN LIGHTING	415	500	1	500	0.5	0.8	400	0.4	
						88016	88.016		70412.8	70.4128	
LOAD CALCULATIONS											
TOTAL CONNECTED LOAD						88.0	KW	110.02	KVA	0.8	PF
MAX DEMAND LOAD						70.4	KW	88.02	KVA		
TOTAL AMP 140AMP											
REQUIRED BREAKER 150AMP 4P MCB											
REQUIRED CABLE SIZE 3.5C X 50Sqmm Aluminium XLPE Armoured Cable											
AVAILABLE BREAKER 125AMP 4P MCB											
AVAILABLE CABLE SIZE 3.5C X 35Sqmm Aluminium XLPE Armoured Cable											