

IAN BANHAM &amp; ASSOCIATES

ELECTRICAL

PROJECT : <b>B+G+M+1 FLOOR CAR SHOWROOM &amp; OFFICE BUILDING</b>										DETAILS OF CONNECTED LOAD/MAX. DEMAND										AREA :		AL QUOZ FIRST, DUBAI			
PLANNED COMPLETION DATE : <b>2024</b>										OWNER :										M/S. INTER EMIRATES MOTORS		PLOT :		35410013	
LV MDB REF : <b>LV MDB -1</b>										CONSULTANT :										M/S. IAN BANHAM & ASSOCIATES		LOCATION :		LV ROOM	
<b>BASEMENT FLOOR</b>																									
SR. NO	CIRCUIT FEEDER DB NO.	SP/TP	RATING - AMPS			FAULT DUTY KA	PVC/XLPE SWA/PVC/SC	CABLE SIZE		LENGTH OF CABLE (Mtrs)	ECC SIZE -1C mm <sup>2</sup>	CONNECTED LOAD - KW				KWH METER			REMARKS						
			ACB	MCCB	MCB			2/4x1C mm <sup>2</sup>	2/3/4C mm <sup>2</sup>			R-PHASE kW	Y-PHASE kW	B-PHASE kW	TOTAL kW	1 Ph (1)	3 Ph (2)	LV/HV CT (3)							
1	INCOMER - 1	4P	2500 <small>SET @ 0.85</small>			50	BY DEWA			2x1C 150									1	2400/5A CTM					
2	INCOMER - 2	4P	2500 <small>SET @ 0.85</small>			50	BY GENERATOR SUPPLIER			PROVISION FOR MOBILE GENERATOR WITH ELECTRICAL AND MECHANICAL INTERLOCK															
OUTGOING (D.O.T)																									
1	MDB-E1	TP		800		50	FIRE PROOF		2x4C 300		2x1C 150	132.77	130.67	125.17	388.60	550 KVA GENERATOR									
2	FIRE PUMP	TP		320		50	FIRE PROOF		4C 185		1C 95	42.00	42.00	42.00	126.00				*						
3	SMDB-BN	TP		500		50	XLPE/SWA/PVC		2x4C 150		2x1C 70	76.90	74.30	73.70	224.90										
4	SMDB-GN1	TP		350		50	XLPE/SWA/PVC		4C 240		1C 120	55.33	54.63	53.83	163.80										
5	SMDB-GN2A	TP		630		50	XLPE/SWA/PVC		2x4C 185		2x1C 95	88.23	84.73	85.03	258.00										
6	SMDB-GN2B	TP		500		50	XLPE/SWA/PVC		2x4C 150		2x1C 70	78.00	78.00	78.00	234.00										
7	SMDB-GN2C	TP		630		50	XLPE/SWA/PVC		2x4C 185		2x1C 95	87.67	87.47	85.57	260.70										
8	SMDB-1N1	TP		400		50	XLPE/SWA/PVC		4C 300		1C 150	62.10	57.80	60.60	180.50										
9	DB-RMU	SP		40		50	XLPE/SWA/PVC		2C 10		1C 10	1.80			1.80				*						
9	DB-TR	SP		40		50	XLPE/SWA/PVC		2C 10		1C 10		2.00		2.00				*						
10	AHF PROVISION	TP		400		50			--		--								*						
11	CAPACITOR BANK	TP		1000		50	XLPE/SWA/PVC		3x4C 300		3X1C 150	350 KVAR CAPACITOR BANK"													
<b>LV MDB -1</b>						CONNECTED TO <b>TRANSFORMER #1</b>		<b>1500KVA</b>		TOTAL CONNECTED LOAD PER PHASE		<b>624.80</b>	<b>611.60</b>	<b>603.90</b>	<b>1840.30</b>			<b>1</b>	TOTAL						
DEMAND FACTOR...0.70... MAX. DEMAND...1,200.01...kW TOTAL CONNECTED LOAD (3 PHASE)...1,840.30...kW TOTAL BUILD - UP AREA ..... ACTUAL LOAD (3 PH)...1,714.30...kW																									
CONSULTANTS : <b>M/S. IAN BANHAM AND ASSOCIATES</b>										TEL : 04 - 370 5777					FAX : 04 - 370 5888										
Type of Meter (Rating of Incomer) :										(1) UPTO 60A (1 PHASE)		(2) UPTO 125A (3 PHASE)		(3) LV CT .....		HV CT .....A									

\* REFER SINGLE LINE DIAGRAM FOR ELCB RATING