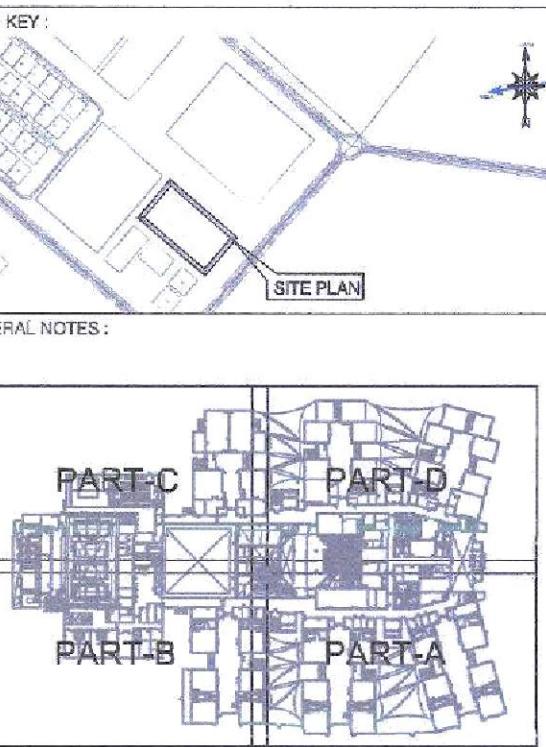


Case ID: 1384802986RQD-33593



Project Name: ABUDHABI FUTURE SCHOOL PROGRAM (PH-08)  
Address / Location : AL DHAKER  
Distribution Board No./Ref. CU-G1  
Fed from : SMD8-1

Ckt ref.	Mcb Rating	Phase & Neutral size	Earth size mm2	Circuit name / Point reference	No. of points	Watts Per Points	Circuit Load In (kw)	B	Diversity Type	Diversity Factor	Circuit Diversity Load(kw)	REMARKS
Y1 10	2.5	1.5	L1-L2+L1	3	100/50	0.25	LTG	0.75	0.19			
Y2 20	4	2.5	S1-S2(RADIAL)	2	200	0.40	SSO	0.5	0.20	RCCBO(30mA)		
Y3 20	4	2.5	20A SP ISO. FOR CU-1	1	1800	1.80	A/C	0.9	1.62			
Y4 10			SPARE									
Y5 20			SPARE									
Y6 20			SPARE									
TOTAL CONNECTED LOAD=											2.45	KW
TOTAL DIVERSITYFIED LOAD=											2.03	KW

Project Name: ABUDHABI FUTURE SCHOOL PROGRAM (PH-09)  
Address / Location : AL DHAKER  
Distribution Board No./Ref. CU-5  
Fed from : SMD8-1

Ckt ref.	Mcb Rating	Phase & Neutral size	Earth size mm2	Circuit name / Point reference	No. of points	Watts Per Points	Circuit Load In (kw)	B	Diversity Type	Diversity Factor	Circuit Diversity Load(kw)	REMARKS
Y1 10	2.5	1.5	L1-L5	4	100	0.40	LTG	0.75	0.30			
Y2 10	2.5	1.5	L6+EX1	2	100	0.20	LTG	0.75	0.15			
Y3 10	2.5	1.5	L7-L8	2	100	0.20	LTG	0.75	0.15			
Y4 20	4	2.5	S1-S3(RADIAL)	3	200	0.60	SSO	0.5	0.30	RCCBO(30mA)		
Y5 20	4	2.5	S4-S5(RADIAL)	3	200	0.60	SSO	0.5	0.30	RCCBO(30mA)		
Y6 20	4	2.5	WH1	1	1500	1.50	WH	0.5	0.75	RCCBO(30mA)		
Y7 20	4	2.5	20A SP ISO. FOR CU-1	1	1800	1.80	A/C	0.9	1.62			
Y8 20	4	2.5	20A SP ISO. FOR CU-2	1	1800	1.80	A/C	0.9	1.62			
Y9 20	4	2.5	20A SP ISO. FOR CU-3	1	1800	1.80	A/C	0.9	1.62			
Y10 10			SPARE									
Y11 20			SPARE									
Y12 20			SPARE									
TOTAL CONNECTED LOAD=											8.90	KW
TOTAL DIVERSITYFIED LOAD=											6.81	KW

Project Name: ABUDHABI FUTURE SCHOOL PROGRAM (PH-08)  
Address / Location : AL DHAKER  
Distribution Board No./Ref. CU-6  
Fed from : SMD8-1

Ckt ref.	Mcb Rating	Phase & Neutral size	Earth size mm2	Circuit name / Point reference	No. of points	Watts Per Points	Circuit Load In (kw)	B	Diversity Type	Diversity Factor	Circuit Diversity Load(kw)	REMARKS
B1 10	2.5	1.5	L1-L3	3	300	0.30	LTG	0.75	0.23			
B2 10	2.5	1.5	L4+EX1	2	100	0.20	LTG	0.75	0.15			
B3 10	2.5	1.5	L5-L6	2	100	0.20	LTG	0.75	0.15			
B4 32	2.5	2.5	2X2.5 S1-S4(RING)	4	200	0.80	SSO	0.5	0.40	RCCBO(30mA)		
B5 20	4	2.5	S5-S7(RADIAL)	3	200	0.60	SSO	0.5	0.30	RCCBO(30mA)		
B6 20	4	2.5	WH1	1	1500	1.50	WH	0.5	0.75	RCCBO(30mA)		
B7 20	4	2.5	20A SP ISO. FOR CU-1	1	1800	1.80	A/C	0.9	1.62			
B8 20	4	2.5	20A SP ISO. FOR CU-2	1	1800	1.80	A/C	0.9	1.62			
B9 10			SPARE									
B10 10			SPARE									
B11 20			SPARE									
B12 20			SPARE									
TOTAL CONNECTED LOAD=											7.30	KW
TOTAL DIVERSITYFIED LOAD=											5.22	KW

Project Name: ABUDHABI FUTURE SCHOOL PROGRAM (PH-08)  
Address / Location : AL DHAKER  
Distribution Board No./Ref. CU-7  
Fed from : SMD8-1

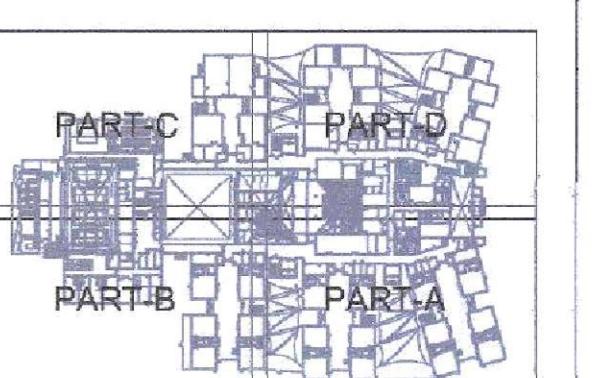
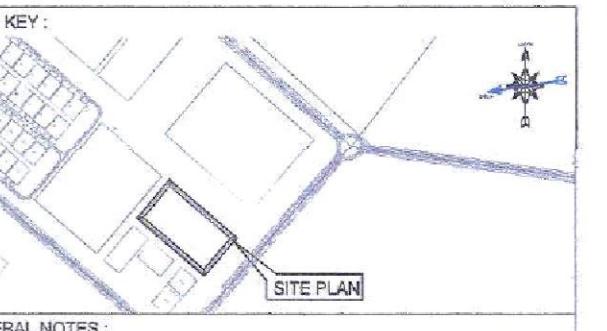
Ckt ref.	Mcb Rating	Phase & Neutral size	Earth size mm2	Circuit name / Point reference	No. of points	Watts Per Points	Circuit Load In (kw)	R	Diversity Type	Diversity Factor	Circuit Diversity Load(kw)	REMARKS
R1 10	2.5	1.5	L1-L2	2	100	0.20	LTG	0.75	0.15			
R2 10	2.5	1.5	L3-L6+EX1-EX2	6	100	0.60	LTG	0.75	0.45			
R3 10	2.5	1.5	L7-L10	4	100	0.40	LTG	0.75	0.30			
R4 10	2.5	1.5	L11-L21	10	100	1.00	LTG	0.75	0.75			
R5 20	4	2.5	S1-S2(RADIAL)	2	200	0.40	SSO	0.5	0.20	RCCBO(30mA)		
R6 20	4	2.5	S3-S5(RADIAL)	3	200	0.60	SSO	0.5	0.30	RCCBO(30mA)		
R7 20	4	2.5	WH1	1	1500	1.50	WH	0.5	0.75	RCCBO(30mA)		
R8 20	4	2.5	20A SP ISO. FOR CU-1	1	1800	1.80	A/C	0.9	1.62			
R9 20	4	2.5	20A SP ISO. FOR CU-2	1	1800	1.80	A/C	0.9	1.62			
R10 10			SPARE									
R11 10			SPARE									
R12 20			SPARE									
TOTAL CONNECTED LOAD=											8.30	KW
TOTAL DIVERSITYFIED LOAD=											6.14	KW

Project Name: ABUDHABI FUTURE SCHOOL PROGRAM (PH-08)  
Address / Location : AL DHAKER  
Distribution Board No./Ref. CU-8  
Fed from : SMD8-1

Ckt ref.	Mcb Rating	Phase & Neutral size	Earth size mm2	Circuit name / Point reference	No. of points	Watts Per Points	Circuit Load In (kw)	B	Diversity Type	Diversity Factor	Circuit Diversity Load(kw)	REMARKS
Y1 10	2.5	1.5	L1-L2+L1	3	100/50	0.25	LTG	0.75	0.19			
Y2 20	4	2.5	S1-S2(RADIAL)	2	200	0.40	SSO	0.5	0.20	RCCBO(30mA)		

Project Name: ABUDHABI FUTURE SCHOOL PROGRAM (PH-08) Address / Location : AL DHAHER Distribution Board No./Ref. CU-4 Fed from : SMDB-1						Consultant : ALSUWEIDI Main Contractor : OHDC Cable size / type : ... 2c 16 sq.mm XLPE/SWAPVC + 1c 10 sq.mm Y/G ECC... Main Breaker Type & Rating : ... 40A 2P RCD(100mA) 8 WAY	Date : .....						
	Ckt ref.	MCB Rating No.	Phase & Neutral Size mm²	Earth size mm²	Circuit name / Point reference	No. of points	Watts Per Points	Circuit Load in (kw)	R	Diversity Type	Diversity Factor	Circuit Diversity Load(kw)	REMARKS
	R1	10	2.5	1.5	L1-L2	2	1	0.20	LTG	0.75	0.15		
	R2	20	4	2.5	S1-S2(RADIAL)	2	200	0.40	SSO	0.5	0.20	RCCBO(30mA)	
	R3	20	4	2.5	20A SP ISO. FOR CU-1	1	1800	1.80	A/C	0.9	1.62		
	R4	10			SPARE								
	R5	20			SPARE								
	R6	20			SPARE								
	R7	20			SPARE								
	R8	20			SPARE								
TOTAL CONNECTED LOAD=								2.4	KW				
TOTAL DIVERSITYFIED LOAD								1.97	KW				

Project Name: ABUDHABI FUTURE SCHOOL PROGRAM (PH-08) Address / Location : AL DHAHER Distribution Board No./Ref. CU-TL1 Sourced from : SMDB-2						Consultant : ALSUWEIDI Main Contractor OHDC Cable size / type : ... 2c 16 sq.mm XLPE/SWA/PVC + 1c 10 sq.mm Y/G ECC...			Date : ..... LOCATION: LABOR REST AREA-5 Main Breaker Type & Rating : ... 40A 2P RCD(100mA) (4 WAY)		
CkT ref. No.	MCB Rating (A)	Phase & Neutral size mm2	Earth size mm2	Circuit name / Point reference	No. of points	Watts Per Points	Circuit Load in (kw)		Diversity Factor	Circuit Diversity	RMARKS
							Y	Diversity Type			
	Y1	10	2.5	1.5	L1-L6+EX1-EX4	6+4	100/50	0.80	LTG/ FAN	0.75	0.60
	Y2	20	4	2.5	WH-1(RADIAL)	1	1500	1.50	WH	0.5	0.75
	Y3	20			SPARE						
	Y4	20			SPARE						
	TOTAL CONNECTED LOAD=						2.30	KW			
TOTAL DIVERSITYFIED LOAD							1.35	KW			



  
AL AIN DISTRIBUTION CO (AADC)  
CUSTOMERS SERVICE DIRECTORATE  
POWER SERVICES SECTION /ESU  
**APPROVED**  
**As Noted**

Project Name: ABUDHABI FUTURE SCHOOL PROGRAM (PH-08)					Consultant : ALSUWEIDI		Date : .....						
Address / Location : AL DHAHER					Main Contractor : OHDC		LOCATION: LABOR REST AREA-1						
Distribution Board No./Ref. LB1					Cable size / type :.. 2c 16 sq.mm XLPE/SWA/PVC + 1c 10 sq.mm Y/G ECC...								
Fed from : SMDB-2					Main Breaker Type & Rating :... 40A 2P RCD(100mA) (6 WAY)								
	Ckt ref.	MCB No.	Phase & Neutral Size (A)	Earth size mm2	Circuit name / Point reference	No. of points	Watts Per Points	Circuit Load in (kw)	R	Diversity Type	Diversity Factor	Circuit Diversity Load(kw)	REMARKS
	R1	10	2.5	1.5	L1-L2+EL1	3	100/50	0.25	LTG	0.75	0.19		
	R2	20	4	2.5	S1-S2(RADIAL)	2	200	0.40	SSO	0.5	0.20	RCCBO(30mA)	
	R3	20	4	2.5	20A SP ISO. FOR CU-1	1	1800	1.80	A/C	0.9	1.62		
	R4	20	4	2.5	20A SP ISO. FOR CU-1	1	1800	1.80	A/C	0.9	1.62		
	R5	20			SPARE								
	R6	20			SPARE								
TOTAL CONNECTED LOAD=								4.25	KW				
TOTAL DIVERSITYFIED LOAD								3.63	KW				
LABOR REST AREA 1,2 TYPICAL													

Project Name: ABUDHABI FUTURE SCHOOL PROGRAM (PH-08) Address / Location : AL DHAHER Distribution Board No./Ref. CU-G2 Served from : SMDB-4					Consultant : ALSUWEIDI Main Contractor : OHDC Cable size / type : ... 2c 16 sq.mm XLPE/SWA/PVC + 1c 10 sq.mm Y/G ECC... Main Breaker Type & Rating : ... 40A 2P RCD(100mA) (6 WAY)	Date : ..... LOCATION: SECURITY ROOM-2						
CkT ref. No.	MCB Rating (A)	Phase & Neutral Size mm <sup>2</sup>	Earth size mm <sup>2</sup>	Circuit name / Point reference	No. of points	Watts Per Points	Circuit Load in (kw)	R	Diversity Type	Diversity Factor	Circuit Diversity Load(kw)	REMARKS
R1	10	2.5	1.5	L1-L2+EL1	3	100/50	0.25	LTG	0.75	0.19		
R2	20	4	2.5	S1-S2(RADIAL)	2	200	0.40	SSO	0.5	0.20	RCCBO(10mA)	
R3	20	4	2.5	20A SP ISO. FOR CU-1	1	1800	1.80	A/C	0.9	1.62		
R4	10			SPARE								
R5	20			SPARE								
R6	20			SPARE								
TOTAL CONNECTED LOAD=							2.45	KW				
TOTAL DIVERSITYFIED LOAD							2.01	KW				



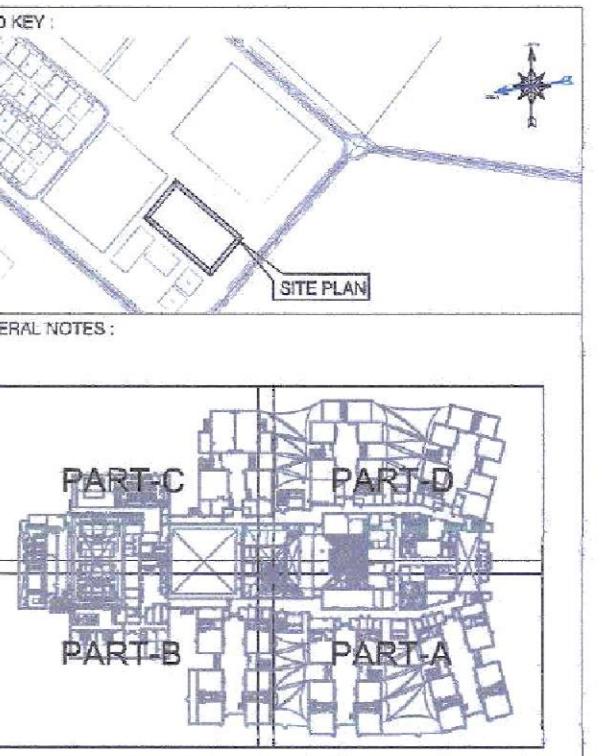
Project/Building Name: ABUDHABI FUTURE SCHOOL PROGRAM (PH-08) Address / Location : AL DHAHER Distribution Board No./Ref. DB-M ed from : SMDB-2					Consultant : ALSUWEIDI Main Contractor : OHDC Cable size / type : ... 4c 10 sq.mm XLPE/SWA/PVC + 1c 10 sq.mm Y/G ECC... Main Breaker Type & Rating : ... 40A TP ISOLATOR + 2 Nos RCD (4 WAY)					Date : ..... LOCATION: PRAYER ROOM Date : .....							
40A TP&N Isolator, 3Ph	Section 1 40A, 4P, 100mA RCD	Busbar Section/RC D	CCT ref.No.	MCB Rating (A)	CABLE SIZE		Circuit Name / Point reference	(Double/Single)		Watts Per Points	Connected Load per points (kW)		Diversity Type	Diversity Factor	Circuit Diversity Load(kw)		
					CCT WIRE sq.mm	ECC WIRE sq.mm		Number	Type		Circuit Type						
		R1	20	4.0	2.5		20A SP ISO. FOR CU-1	1	AC	1.80	AC	1.80			AC	0.9	1.62
		Y1	10	2.5	1.5		L1-L5	4	LTG	0.10	LTG		0.40		LTG	0.75	0.30
		B1	20	4.0	2.5		20A SP ISO. FOR CU-1	1	AC	1.80	AC			1.80	AC	0.9	1.62
		R2	10				SPARE										
		Y2	10				SPARE										
		B2	10				SPARE										
		SECTION 1 TOTAL CONNECTED LOAD=							4.00	KW		1.80	0.40	1.80			3.5
40A TP&N Isolator, 3Ph	Section 2 40A, 4P, 30mA RCD	R3	10														
		Y3	32	4.0	2.5		S1-S3(RADIAL)	3	SSO	0.2	RAD		0.60		SSO	0.5	0.30
		B3	10														
		R4	10														
		Y4	10														
		B4	32														
		SECTION 2 TOTAL CONNECTED LOAD=							0.60	KW		0.00	0.60	0.00			0.3
		TOTAL CONNECTED LOAD=							4.60	KW		1.80	1.00	1.80			
		TOTAL DIVERSITYFIED LOAD =							3.84	KW							



Project Name: ABUDHABI FUTURE SCHOOL PROGRAM (PH-06) Address / Location : AL DHAHER Distribution Board No./Ref. LB5 Fed from : SMDB-2						Consultant : ALSUWEIDI Main Contractor OHDC Cable size / type :.. 2c 16 sq.mm XLPE/SWA/PVC + 1c 10 sq.mm Y/G ECC... Main Breaker Type & Rating :... 40A 2P RCD(100mA) (6 WAY)	Date : .....					
Ckt ref. No.	MCB Rating (A)	Phase & Neutral Size mm2	Earth size mm2	Circuit name / Point reference	No. of points	Watts Per Points	Circuit Load in (kw)					
B1	10	2.5	1.5	L1-L2+EL1	3	100/50	0.25	B	Diversity Type	Diversity Factor	Circuit Diversity	REMARKS
B2	20	4	2.5	S1-S2(RADIAL)	2	200	0.40	SSO	0.5	0.20	RCCBO(30mA)	
B3	20	4	2.5	20A SP ISO. FOR CU-1	1	1800	1.80	A/C	0.9	1.62		
B4	20	4	2.5	20A SP ISO. FOR CU-1	1	1800	1.80	A/C	0.9	1.62		
B5	20			SPARE								
B6	20			SPARE								
						TOTAL CONNECTED LOAD=	4.25	KW				
						TOTAL DIVERSITYFIED LOAD	3.63	KW				
						LABOR REST AREA 5.6 TYPICAL						

Project Name: ABUDHABI FUTURE SCHOOL PROGRAM (PH-08) Address / Location : AL DHAHER Distribution Board No./Ref. CU-E Fed from : MDB						Consultant : ALSUWEIDI Main Contractor OHDC Cable size / type :.. 2c 16 sq.mm XLPE/SWA/PVC + 1c 10 sq.mm Y/G ECC... Main Breaker Type & Rating :....40A 2P RCD(100mA) (6 WAY)	Date : .....					
	CkT ref.	MCB Rating No.	Phase & Neutral Size mm²	Earth size mm²	Circuit name / Point reference	No. of points	Watts Per Points	Circuit Load in (kw)		Diversity Factor	Circuit Diversity Load(kw)	REMARKS
									Y			
	Y1	10	2.5	1.5	L1-EL1	2	100/50	0.15	LTG	0.75	0.11	
	Y2	20	4	2.5	S1(RADIAL)	1	200	0.20	SSO	0.5	0.10	RCCBO(30mA)
	Y3	20	4	2.5	20A SP ISO. FOR CU-1	1	1800	1.80	A/C	0.9	1.62	
	Y4	10			SPARE							
	Y5	20			SPARE							
	Y6	20			SPARE							
TOTAL CONNECTED LOAD=								2.15	KW			
TOTAL DIVERSITYFIED LOAD								1.83	KW			

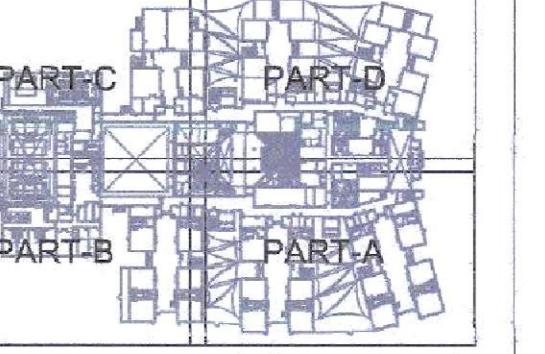
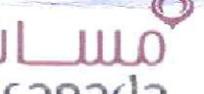
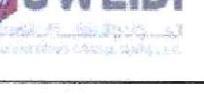
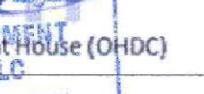
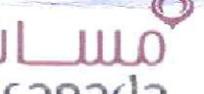
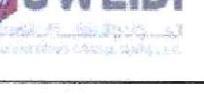
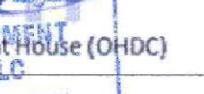
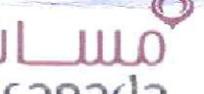
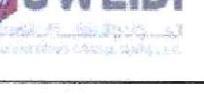
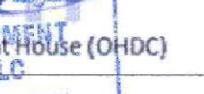

  
 AL AIN DISTRIBUTION CO. M&SC  
 CUSTOMERS SERVICE DIRECTORATE  
 POWER SERVICES SECTION/ESU  
**APPROVED**  
**As Noted**



DB REF :SMDB-1		FED FROM: MDB	LOC. :NEAR OFFICE AREA							
DB RATING:6 WAY 200A TP MCCB MAIN		CABLE SIZE: 4c 150sq.mm XLPE/SWA/PVC + 1c 95 sq.mm Y/G ECC...								
CKT NO	MCCB RATING	DESCRIPTION	CABLE SIZE	PHASE LOAD / KW			TOTAL LOAD (KW)	Diversity Factor	Diversity	REMARKS
R1 63A SP	CU-9	2c 16 sq.mm XLPE/SWA/PVC + 1c 10 sq.mm Y/G ECC...	7.20	R	Y	B	7.20	5.32		
Y1 63A SP	CU-5	2c 16 sq.mm XLPE/SWA/PVC + 1c 10 sq.mm Y/G ECC...	8.90				8.90	6.81		
B1 63A SP	CU-6	2c 16 sq.mm XLPE/SWA/PVC + 1c 10 sq.mm Y/G ECC...					7.20	5.22		
R2 63A SP	CU-7	2c 16 sq.mm XLPE/SWA/PVC + 1c 10 sq.mm Y/G ECC...	8.30				8.30	6.14		
Y2 40A SP	CU-G1	2c 16 sq.mm XLPE/SWA/PVC + 1c 10 sq.mm Y/G ECC...	2.45				2.45	2.01		
B2 63A SP	CU-8	2c 16 sq.mm XLPE/SWA/PVC + 1c 10 sq.mm Y/G ECC...					7.20	5.32		
R3 40A SP	SPARE									
Y3 40A SP	CU-E	2c 16 sq.mm XLPE/SWA/PVC + 1c 10 sq.mm Y/G ECC...	2.15				2.15	1.83		
B3 40A	SPARE									
RYB4 100A	DB-OFFICE	4c 25 sq.mm XLPE/SWA/PVC + 1c 16 sq.mm Y/G ECC...	13.20	13.10	13.80	40.10			28.57	
RYB5 100A	SPARE									
RYB6 100A	SPARE									
TOTAL CONNECTED LOAD :			28.70	26.60	28.20	83.50	KW	61.20		

DB REF :SMDB-2		FED FROM: MDB	LOCATION: SECURITY ROOM-2							
DB RATING:6 WAY 100A TP MCCB MAIN		CABLE SIZE: 4c 70 sq.mm XLPE/SWA/PVC + 1c 35 sq.mm Y/G ECC...								
CKT NO	MCCB RATING	DESCRIPTION	CABLE SIZE	PHASE LOAD / KW			TOTAL LOAD (KW)	Diversity Factor	Diversity	REMARKS
R1 40A SP	CU-LB1	2c 16 sq.mm XLPE/SWA/PVC + 1c 10 sq.mm Y/G ECC...	4.25	R	Y	B	4.25	3.63		
Y1 40A SP	CU-LB3	2c 16 sq.mm XLPE/SWA/PVC + 1c 10 sq.mm Y/G ECC...		4.25			4.25	3.63		
B1 40A SP	CU-LB5	2c 16 sq.mm XLPE/SWA/PVC + 1c 10 sq.mm Y/G ECC...			4.25		4.25	3.63		
R2 40A SP	CU-LB2	2c 16 sq.mm XLPE/SWA/PVC + 1c 10 sq.mm Y/G ECC...	4.25				4.25	3.63		
Y2 40A SP	CU-LB4	2c 16 sq.mm XLPE/SWA/PVC + 1c 10 sq.mm Y/G ECC...			4.25		4.25	3.63		
B2 40A SP	CU-LB6	2c 16 sq.mm XLPE/SWA/PVC + 1c 10 sq.mm Y/G ECC...				4.25	4.25	3.63		
R3 40A SP	SPARE									
Y3 40A SP	CU-TL1	2c 16 sq.mm XLPE/SWA/PVC + 1c 10 sq.mm Y/G ECC...			2.30		2.30	1.35		
B3 40A	SPARE									
RYB4 40A	DB-M	4c 10 sq.mm XLPE/SWA/PVC + 1c 10 sq.mm Y/G ECC...	1.80	1.00	1.80	4.60		3.84		
R5 40A	CU-1	2c 16 sq.mm XLPE/SWA/PVC + 1c 10 sq.mm Y/G ECC...	2.40				2.40	1.97		
Y5 40A	CU-2	2c 16 sq.mm XLPE/SWA/PVC + 1c 10 sq.mm Y/G ECC...		2.40			2.40	1.97		
B5 40A	CU-3	2c 16 sq.mm XLPE/SWA/PVC + 1c 10 sq.mm Y/G ECC...			2.40		2.40	1.97		
R6 40A	CU-4	2c 16 sq.mm XLPE/SWA/PVC + 1c 10 sq.mm Y/G ECC...	2.40				2.40	1.97		
Y6 40A	SPARE									
B6 40A	SPARE									
TOTAL CONNECTED LOAD :			15.10	14.20	12.70	42.00	KW	34.84		

DB REF :SMDB-3		FED FROM: MDB	LOC. :RIGHT SIDE MAIN BUILDING AREA							
DB RATING:6 WAY 200A TP MCCB MAIN		CABLE SIZE: 4c 300 sq.mm XLPE/SWA/PVC + 1c 150 sq.mm Y/G ECC...								
CKT NO	MCCB RATING	DESCRIPTION	CABLE SIZE	PHASE LOAD / KW			TOTAL LOAD (KW)	Diversity Factor	Diversity	REMARKS
RYB1 100A TP	DB-MB4	4c 50 sq.mm XLPE/SWA/PVC + 1c 25 sq.mm Y/G ECC...	10	10	10	30.00	0.75	22.5		SITE FACILITY DB
RYB2 100A TP	DB-MB5	4c 50 sq.mm XLPE/SWA/PVC + 1c 25 sq.mm Y/G ECC...	10	10	10	30.00	0.75	22.5		SITE FACILITY DB
RYB3 100A TP	DB-MB3	4c 50 sq.mm XLPE/SWA/PVC + 1c 25 sq.mm Y/G ECC...	10	10	10	30.00	0.75	22.5		SITE FACILITY DB
RYB4 40A TP	ISO FORSTEEL YARD AREA	4c 10sq.mm XLPE/SWA/PVC + 1c 5 sq.mm Y/G ECC...	1.50	1.5	1.5	4.50	0.5	2.25		ISO+RCD(30mA)
RYB5 100A TP	SPARE									
RYB6 40A TP	SPARE									
TOTAL CONNECTED LOAD :			94.50	31.50	31.50	31.50	94.50		69.75	

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