

NAME			Bosaso Police Station		FEED FROM	POWER GRID				LOCATION			MOQADISHO		
NO OF PHASES			3 PHASE		C.B SIZE: 125A 4POLE					CABLE SIZE			35MM2		
CT NO	CB	WIRE TYPE	WIRE CSA	DESCRIPTION		NUMBER OF POINTS	LIGHTING	POWER SOCKET	AIR CONDITIO	WATER HEATER	COOKER	OTHER LOADS	R	Y	B
A1	10A	INSULATED CO	1.5 mm² Cu	LIGHTING		7	80						560		
A2	10A	INSULATED CO	1.5 mm² Cu	LIGHTING		5	160								800
P1	16A	INSULATED CO	2.5 mm² Cu	SOCKETS		4		250						1000	
P2	16A	INSULATED CO	2.5 mm² Cu	SOCKETS		4		250					1000		
A3	10A	INSULATED CO	1.5 mm² Cu	LIGHTING		6	216						1296		
A4	10A	INSULATED CO	1.5 mm² Cu	LIGHTING		7	160							1120	
P3	16A	INSULATED CO	2.5 mm² Cu	SOCKETS		10		250							2500
P4	30A	INSULATED CO	4 mm² Cu	AC		1		250	1200				1450		
P5	30A	INSULATED CO	4 mm² Cu	AC		1		250	1200				1450		
P6	30A	INSULATED CO	4 mm² Cu	AC		1		250	1200						1450
P7	30A	INSULATED CO	4 mm² Cu	AC		1		250	1200					1450	
A5	10A	INSULATED CO	1.5 mm² Cu	LIGHTING		2	72							144	
A6	10A	INSULATED CO	1.5 mm² Cu	LIGHTING		6	300								1800
P8	16A	INSULATED CO	2.5 mm² Cu	SOCKETS		4		250					1000		
P9	30A	INSULATED CO	4 mm² Cu	AC		1			1200					1200	
P10	30A	INSULATED CO	4 mm² Cu	AC		1			1200					1200	
TOTAL CONNECTED LOAD							TOTAL LIGHTING	TOTAL POWER	TOTAL A/C	TOTAL WATER	TOTAL COOKER	TOTAL OTHER	TOTAL R	TOTAL Y	TOTAL B
19 KW							988	2000	7200	0	0	0	6196	6114	6550
DEMAND FACTOR							LIGHTING	POWER SOCKET	AIR CONDITIO	WATER HEATER	COOKER	OTHER LOADS	BALANCEMENT		
							0.7	0.9	1	0.3	0.3	0.5			
													PERCENTAGE %	6.66	
TOTAL DEMAND LOAD							DEMAND LIGHTING	DEMAND POWER	DEMAND A/C	DEMAND W/H	DEMAND COOKER	DEMAND OTHER	BALANCED		
10 KW							691.6	1800	7200	0	0	0			