


project <i>proposed dimeoyin college</i>	client <i>Al-hijrah college</i>	Electrical design		<small>Sheet no.</small>	<small>Engineers</small> dimeotech consulting engineers
		drawing title TITLE BLOCK			
		<small>design</small> Engr Ismail	<small>drawn</small> Abdulrahman	<small>scale</small> 1:100	<small>date</small> JULY, 2018
				<small>our services</small> we specialised on electrical and mechanical building services	

LEGEND – ELECTRICAL POWER.	
SYMBOL	DESCRIPTION
	13A TWIN SWITCH SOCKET OUTLET
	13A SINGLE SWITCH SOCKET FOR TV POINT WITH CABLE Ø 1800 AFFL.
	15A SWITCH SOCKET OUTLET
	20A SWITCH SOCKET OUTLET
	HOT WATER HEATER
	20A DP SWITCH & CABLE OUTLET FOR A/C
	TELEPHONE OUTLET POINT
	30A. COOKER CONTROL UNIT.
	CONSUMER CONTROL UNIT

ACCESSORIES & LIGHT FITTING MOUNTING HEIGHT	
A/C switch	1000mm AFFL.
Hot waterheater switch	1000mm AFFL.
13AMPs Socket outlet:	400MM AFFL.
Cooler unit contrl @13amps socket outlet in the kitchen	1400mm AFFL.

② ELECTRICAL POWER LEGEND

LEGEND – ELECTRICAL LIGHTING.	
SYMBOL	DESCRIPTION
	1X36W. MIRROR LIGHT 2011 GLASHUTE LIMBURG 7146
	MAX 60W INCANDESCENT SURFACE MOUNTED SPLASH PROOF DOWNLIGHT, E27 LAMP HOLDER IN THE TOILETS AND STORES
	50W/12V LOW VOLTAGE DOWN LIGHT/LED ROUND PRISMA.
	1X36W FLUORESCENT BATTEN FITTING, SITECO.
	1X36W FLUORESCENT WATERPROOF FITTING, SITECO.
	2X28W LOW ENERGY WALL BRACKET IN THE FAMILY LIVINGROOM WITH E27 LAMP HOLDER.
	1X40W LOW VOLTAGE SPOT LIGHT FITTING IN THE BEDROOMS, WITH E27 LAMP HOLDER.
	3X60W PENDANT LIGHTING FITTINGS COMPLETE WITH E27 LAMP HOLDER FOR DINING.
	FAN REGULATOR
	CEILING FAN
	EXTERNAL WALL LIGHT (INCANDESCENT LIGHT, MAX 40W) WITH E27 LAMP HOLDER 400MM DIAMETER
	MAX 60W INCANDESCENT WALL BRACKET FOR BEDROOMS COMPLETE WITH E27 LAMP HOLDERS.
	1GANG 1-WAY SWITCH
	1GANG 2-WAY SWITCH
	2GANG 2-WAY SWITCH
	500W DIMMER SWITCH

ACCESSORIES & LIGHT FITTING MOUNTING HEIGHT	
Lighting switch	1000mm AFFL.
Wall brackets	300mm from the ceiling level
Bedswitch	1400mm AFFL.

① ELECTRICAL LIGHTING LEGEND

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Electrical legend

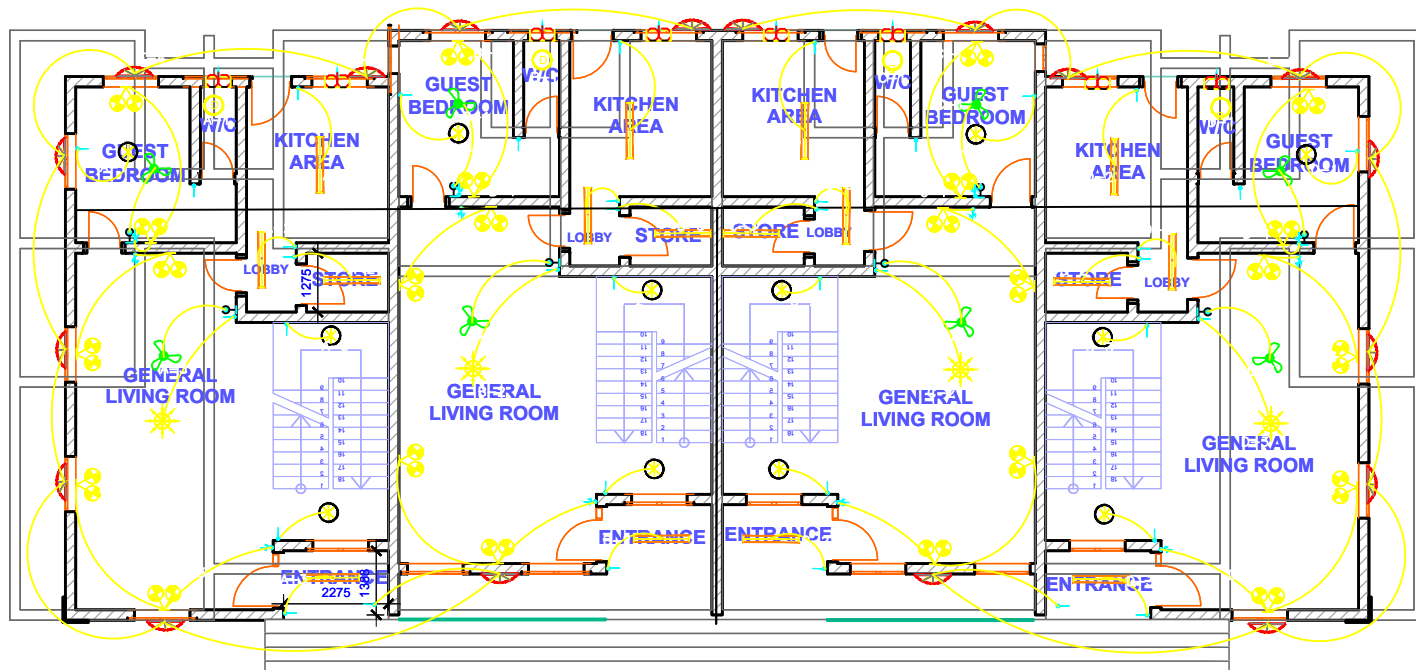
design: Engr. small
drawn: Abdulrahman
date: 1:100

Sheet no.

006 JULY 2016

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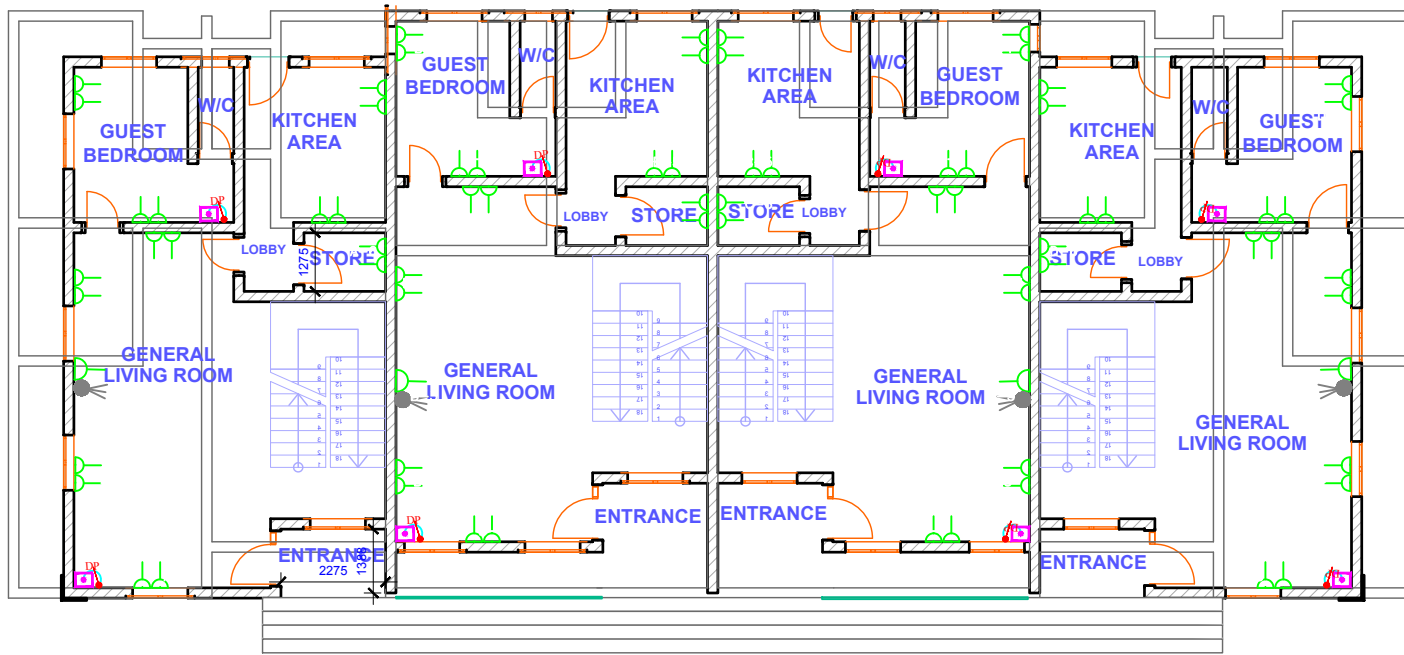


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Electrical design
drawing title
Electrical lighting layout
date
JULY 2016

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Electrical design
drawing title
Electrical power layout

Eng: Ismail
Abdul-rohman
1:100

Sheet no.
Date
JULY 2018

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CCU REFERENCE CODE: CCU-A PANEL REFERENCE CODE: P-A SWITC
 DB LOCATION: UNKNOWN PANEL LOCATION: UNKNOWN
 DB INCOMING DEVICE RATING: 90 (AMPS)
 DB BUSBAR RATING:

NUMBER	CCT CODE	MCB RATING (AMPS)	CABLE RATING	LOAD PER POINT (W)	DIVER SITY FACT OR	LOAD PER PHASE			DESCRIPTION
						YELLOW	BLUE	RED	
1	A-1	10	1.5	100	1	900			LIGHTING CCT
2	A-2	10	1.5	100	1	900			LIGHTING CCT
3	A-3	10	1.5	100	1	800			LIGHTING CCT
4	A-4	30	2.5	300	0.9	3000			13A SOCKET
5	A-5	20	4	2000	1	2000			A/C
6	A-6	20	4	2000	1	2000			A/C
7	A-7	20	4	2000	1	2000			A/C
8	A-8	20	4	2000	1	2000			HWH
9	A-9	20	4	2000	1	2000			WATER PUMP
10	A-10	30	2.5	2000	1	2000			SPARE
11	A-11	30	2.5	2000	1	2000			SPARE
12	A-12	30	2.5	2000	1	2000			SPARE
					ALL LOAD	21600			
					L LOAD	21.6			
					CURRE	37.56254763			

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 DB-A,B,C&D
 design: Eng Ismail drawn: Abdu-rahman date: 1/10/2018

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MAIN PANEL: SUM DB-S									
POWER FACTOR :	0.8			CABLE RATING OF THE MAIN: 4 × 1 C 35 mm PVC/ PVC COPPER CABLE					
VOLTAGE SYSTEM: 415-3 PHASE				EARTH CABLE RATING OF THE MAIN: 1 × C35 mm ² PVC/ PVC COPPER CABLE					
; ; ; ; ; Mccb, TP & N ELCB MAIN ELECTRICAL PANEL									
LOCATION: UNKNOWN									
NUMBER	CCU CODE	MCB RATINGS (A)	CABLE RATING (mm ²)	AD/POINT (K)	NUMBER OF POINTS	LOAD/PHASE (W)			DESCRIPTION
						YELLOW	BLUE	RED	
1	CCU-A	40	6	21.6	1	21600			
2	CCU-B	40	6	21.1	1		21100		
3	CCU-C	40	6	21.6	1			21600	
TOATAL LOAD PER PHASE (W)						21600	21100	21600	
TOTAL CONNECTED LOAD (W)						64300			
TOTAL CONNECTED LOAD (KW)						64.3			
TOTAL CURRENT (AMP)						111.8181			

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SUM-DB(MAIN PANEL)
Eng: Ismail Drawn: Abdu-rahman Date: 1-1-2019

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