

PANEL BOARD 1: FEEDER BREAKER 3-POLE, 60AT, 100AF; FEEDER CONDUCTOR 3 - 14.0mm ² THHN & 8.0mm ² THHN in 32mmØ PVC													
CIRCUIT NUMBER	LOAD DESCRIPTION	VA LOAD	AB	CA	BC	CIRCUIT BREAKER			CONDUCTOR		CONDUIT		
						POLE	AF	AT	SIZE	TYPE	DIAMETER	TYPE	
1	1 set of 24W LED Panel Surface Type Ceiling Lamp, 6500k Daylight	24	0.91			2	100	15	2 - 2.0mm ²	THHN	20mm	PVC PIPE	
	9 sets of 15W LED Recessed Circular Downlight, 6500k Daylight	135											
	5 sets of 3W LED Recessed Slim Downlight, 6500k Daylight	15											
	9 sets of 4W LED Weatherproof Wall Lamp, 2700k Warm White	36											
2	10 sets of 3W LED Recessed Slim Downlight, 6500k Daylight	30	0.91			2	100	15	2 - 2.0mm ²	THHN	20mm	PVC PIPE	
	12 sets of 15W LED Recessed Circular Downlight, 6500k Daylight	180											
3	2 sets of 3W LED Recessed Slim Downlight, 6500k Daylight	6			1.46	2	100	15	2 - 2.0mm ²	THHN	20mm	PVC PIPE	
	22 sets of 15W LED Recessed Circular Downlight, 6500k Daylight	330											
4	16 sets of 3W LED Recessed Slim Downlight, 6500k Daylight	48	1.51			2	100	15	2 - 2.0mm ²	THHN	20mm	PVC PIPE	
	15 sets of 20W LED Panel Light, 6500k Daylight	300											
5	16 sets of 40W LED Panel Light, 6500k Daylight	640		2.78		2	100	15	2 - 2.0mm ²	THHN	20mm	PVC PIPE	
6	12 sets of 3W LED Recessed Slim Downlight, 6500k Daylight	36			2.94	2	100	15	2 - 2.0mm ²	THHN	20mm	PVC PIPE	
	16 sets of 40W LED Panel Light, 6500k Daylight	640											
7	6 sets of 180VA Convenience Outlet	1,080	4.70			2	100	20	2 - 3.5mm ² & 1 - 2.0mm ²	THHN	20mm	PVC PIPE	
8	8 sets of 180VA Convenience Outlet	1,440		6.26		2	100	20	2 - 3.5mm ² & 1 - 2.0mm ²	THHN	20mm	PVC PIPE	
9	8 sets of 180VA Convenience Outlet	1,440			6.26	2	100	20	2 - 3.5mm ² & 1 - 2.0mm ²	THHN	20mm	PVC PIPE	
10	7 sets of 180VA Convenience Outlet	1,260	5.48			2	100	20	2 - 3.5mm ² & 1 - 2.0mm ²	THHN	20mm	PVC PIPE	
11	7 sets of 180VA Convenience Outlet	1,260		5.48		2	100	20	2 - 3.5mm ² & 1 - 2.0mm ²	THHN	20mm	PVC PIPE	
12	2 sets of 50CFM Exhaust Fan	18			0.44	2	100	15	2 - 2.0mm ²	THHN	20mm	PVC PIPE	
	4 sets of 100CFM Exhaust Fan	72											
	7 sets of Emergency Lights	8											
	1 set of Exit Signage	3											
13	2 sets of 50CFM Exhaust Fan	18	0.41			2	100	15	2 - 2.0mm ²	THHN	20mm	PVC PIPE	
	2 sets of 150CFM Exhaust Fan	54											
	14 sets of Emergency Lights	18											
	1 set of Exit Signage	3											
14	Space with Busbar												
15	Spare	1,500			6.52	2	100	20	2 - 3.5mm ² & 1 - 2.0mm ²	THHN	20mm	PVC PIPE	
16	Spare	1,500	6.52			2	100	20	2 - 3.5mm ² & 1 - 2.0mm ²	THHN	20mm	PVC PIPE	
17	Spare	1,500		6.52		2	100	20	2 - 3.5mm ² & 1 - 2.0mm ²	THHN	20mm	PVC PIPE	
18	Spare	1,500			6.52	2	100	20	2 - 3.5mm ² & 1 - 2.0mm ²	THHN	20mm	PVC PIPE	
TOTAL		15,086	19.53	21.96	24.15								

PANEL BOARD 2: FEEDER BREAKER 3-POLE, 60AT, 100AF; FEEDER CONDUCTOR 3 - 14.0mm ² THHN & 8.0mm ² THHN in 32mmØ PVC													
CIRCUIT NUMBER	LOAD DESCRIPTION	VA LOAD	AB	CA	BC	CIRCUIT BREAKER			CONDUCTOR		CONDUIT		
						POLE	AF	AT	SIZE	TYPE	DIAMETER	TYPE	
1	6 sets of 3W LED Recessed Slim Downlight, 6500k Daylight	18	1.12			2	100	15	2 - 2.0mm ²	THHN	20mm	PVC PIPE	
	16 sets of 15W LED Recessed Circular Downlight, 6500k Daylight	240											
2	24 sets of 15W LED Recessed Circular Downlight, 6500k Daylight	360		1.57		2	100	15	2 - 2.0mm ²	THHN	20mm	PVC PIPE	
3	19 sets of 15W LED Recessed Circular Downlight, 6500k Daylight	285			1.24	2	100	15	2 - 2.0mm ²	THHN	20mm	PVC PIPE	
4	18 sets of 3W LED Recessed Slim Downlight, 6500k Daylight	54	1.34			2	100	15	2 - 2.0mm ²	THHN	20mm	PVC PIPE	
	17 sets of 15W LED Recessed Circular Downlight, 6500k Daylight	255											
5	16 sets of 3W LED Recessed Slim Downlight, 6500k Daylight	48				2	100	15	2 - 2.0mm ²	THHN	20mm	PVC PIPE	
	6 sets of 24W/meter of 2x1m LED Linear Light, 6500k Daylight	720											
6	16 sets of 40W LED Panel Light, 6500k Daylight	640			2.78	2	100	15	2 - 2.0mm ²	THHN	20mm	PVC PIPE	
7	17 sets of 40W LED Panel Light, 6500k Daylight	680	2.96			2	100	15	2 - 2.0mm ²	THHN	20mm	PVC PIPE	
8	7 sets of 40W LED Panel Light, 6500k Daylight	288				2	100	15	2 - 2.0mm ²	THHN	20mm	PVC PIPE	
	22 sets of 3W LED Recessed Slim Downlight, 6500k Daylight	66											
9	5 sets of 180VA Convenience Outlet	900			3.91	2	100	20	2 - 3.5mm ² & 1 - 2.0mm ²	THHN	20mm	PVC PIPE	
10	8 sets of 180VA Convenience Outlet	1,440	6.26			2	100	20	2 - 3.5mm ² & 1 - 2.0mm ²	THHN	20mm	PVC PIPE	
11	8 sets of 180VA Convenience Outlet	1,440		6.26		2	100	20	2 - 3.5mm ² & 1 - 2.0mm ²	THHN	20mm	PVC PIPE	
12	7 sets of 180VA Convenience Outlet	1,260			5.48	2	100	20	2 - 3.5mm ² & 1 - 2.0mm ²	THHN	20mm	PVC PIPE	
13	7 sets of 180VA Convenience Outlet	1,260	5.48			2	100	20	2 - 3.5mm ² & 1 - 2.0mm ²	THHN	20mm	PVC PIPE	
14	4 sets of 100CFM Exhaust Fan	72				2	100	15	2 - 2.0mm ²	THHN	20mm	PVC PIPE	
	1 set of 200CFM Exhaust Fan	32											
	9 sets of Emergency Lights	13											
	3 set of Exit Signage	9											
15	4 sets of 50CFM Exhaust Fan	18	0.68			2	100	15	2 - 2.0mm ²	THHN	20mm	PVC PIPE	
	2 sets of 150CFM Exhaust Fan	54											
	2 sets of 175CFM Exhaust Fan	64											
	13 sets of Emergency Lights	18											
	1 set of Exit Signage	3											
16	Spare	1,500	6.52			2	100	20	2 - 3.5mm ² & 1 - 2.0mm ²	THHN	20mm	PVC PIPE	
17	Spare	1,500		6.52		2	100	20	2 - 3.5mm ² & 1 - 2.0mm ²	THHN	20mm	PVC PIPE	
18	Spare	1,500			6.52	2	100	20	2 - 3.5mm ² & 1 - 2.0mm ²	THHN	20mm	PVC PIPE	
TOTAL		14,736	23.68	19.77	20.62								

FEEDER CONDUCTOR:

IFL = $\sqrt{3}$ (23.68)
= 41.02 AMP

USE: 3 - 14.0mm² THHN & 8.0mm² THHN in 32mmØ PVC

FEEDER PROTECTION:

USE: 3P 60AT, 240V, 100AF, 60Hz MCB

FEEDER CONDUCTOR:

IFL = $\sqrt{3}$ (24.15)
= 41.82 AMP

USE: 3 - 14.0mm² THHN & 8.0mm² THHN in 32mmØ PVC

FEEDER PROTECTION:

USE: 3P 60AT, 240V, 100AF, 60Hz MCB

1 SCHEDULE OF LOADS

	<p>FROM THE OFFICE:</p> <p>PHYSICAL PLANNING AND DEVELOPMENT OFFICE</p> <p>2/F 202 ADMINISTRATION BLDG. MARIANO MARCOS STATE UNIVERSITY CITY OF BATAK, 2906 ILOCOS NORTE TELEFAX: +63 (77)792-3191</p>	<p>DRAWN BY:</p> <p>BJAYA A. DAYANG DRAFTSMAN I</p>	<p>SIGNED & SEALED BY:</p> <p>PROFESSIONAL ELECTRICAL ENGINEER</p>	<p>PROJECT TITLE:</p> <p>CONSTRUCTION OF RDE BUILDING PHASE III</p>	<p>CONFORME:</p> <p>BJORN S. SANTOS DIRECTOR, RESEARCH</p>	<p>APPROVED BY:</p> <p>SHIRLEY C. AGRUPIS UNIVERSITY PRESIDENT</p>	<p>SHEET CONTENTS:</p> <p>SCHEDULE OF LOADS</p>	<p>SHEET NO:</p> <p>E-10 10 14</p>
	<p>PREPARED BY:</p> <p>LEMUEL JOSHUA P. BAGAYAS ENGINEER I</p>	<p>PRC NO.:</p> <p>PTR.:</p> <p>PLACE ISSUED:</p> <p>DATE:</p> <p>TIN:</p>	<p>LOCATION: MMSU CRL-CITY OF BATAK, ILOCOS NORTE</p>	<p>RECOMMENDING APPROVAL:</p> <p>ROMEO R. DULDUALO DIRECTOR, PPOD</p>	<p>Drawings and specifications and other contract documents duly signed, stamped or sealed, as instruments of service, are the intellectual property and documents of the architect, whether the object for which they are made is executed or not. It shall be unlawful for any person to duplicate or to make copies of said documents for use in the repetition of and for other project or building, whether executed partly or in whole, without the written consent of architect or author of said document. Art. IV-Sec. 338A9266</p>			