ACPP PANEL SCHEDULE

CKT NO.	LOAD DESCRIPTION	VA	VOLT	AMP	CIRCUIT BREAKER AT	AF	P	SERVICE WIRE, THHN	GROUND WIRE, THHN	CONDUIT MM, DIA
1	LIGHTING AND CONTROLS	1000	230	4.35	20	50	2	2-3.5sq.mm		
2	5 HP ACU FAN	5800	230	25.22	30	50	2	2-3.5sq.mm		
3	5 HP ACU COMPRESSOR	5800	230	25.22	30	50	2	2-3.5sq.mm		
4	SPARE	1000	230	4.35	20	50	2	2-3.5sq.mm		
	TOTAL	13600	230	59.13						

LOCATION: -
ENCLOSUE: -
MOUNTING: -
AMPERES: - VOLTS: 230 V
BUS RATING: -
FED FROM: DCPP POWER PANEL 1

COMPUTATION:
It = (59.14) 100% DF + (25.22) 25% DF = 65.43 A
USE:
FEEDER SIZE: 2-22 sq.mm THHN
MAIN BREAKER: 70 AT, 100 AF, 10 KAIC, 230 V, 2P

MAIN KAIC: 10KAIC
BRANCH KAIC: 10KAIC
CONNECTED LOAD: 13600 VA
DEMAND FACTOR: 100 %
BRAND: --
FABRICATOR: -

DCPP PANEL SCHEDULE

CKT NO.	LOAD DESCRIPTION	VA	VOLT	AMP	CIRCUIT BREAKER AT	AF	P	SERVICE WIRE, THHN	GROUND WIRE, THHN	CONDUIT MM, DIA
1	10 KW INVETER	10000	650	15.38	30	60	2	2-3.5sq.mm		
2	SPARE FOR INVERTER	5000	650	7.69	20	60	2	2-3.5sq.mm		
3	40HP INDUCTION MOTOR WITH VFD CONTROL – FRONT BOGIE	45000	650	69.23	75	100	2	2-22.0sq.mm		
4	40HP INDUCTION MOTOR WITH VFD CONTROL – REAR BOGIE	45000	650	69.23	75	100	2	2-22.0sq.mm		
	TOTAL	13600	650	161.54						

LOCATION: -
ENCLOSUE: -
MOUNTING: -
AMPERES: - VOLTS: 650 VDC
BUS RATING: -
FED FROM: THREE PHASE RECTIFIER

COMPUTATION:
It = (161.53) 100% DF + (69.23) 25% DF = 178.85 A
USE:
FEEDER SIZE: 2-80 sq.mm THHN
IN 32mmØ RSC PER WIRE
MAIN BREAKER: 200 AT, 200 AF, 15 KAIC, 650 V, 2P
INDUSTRIAL DC TYPE (200 A, 700V)

MAIN KAIC: 15KAIC
BRANCH KAIC: 10KAIC
CONNECTED LOAD: 105000 VA
DEMAND FACTOR: 100 %
BRAND: --
FABRICATOR: -

SERVICE LOAD SCHEDULE

CKT NO.	LOAD DESCRIPTION	VA	VOLT	AMP	CIRCUIT BREAKER AT	AF	P	SERVICE WIRE, THHN	GROUND WIRE, THHN	CONDUIT MM, DIA
1	SPACE	-	460	-	-	-	-	-	-	-
2	300 KVA SPACE TRANSFORMER – RECTIFIER SETUP	287540	460	373.45	500	500	3	2X3-125sq.mm	2X1-30sq.mm	2x65
3	SPACE	-	460	-	-	-	-	-	-	-
4	10 KVA PP PANEL TRANSFORMER,T1	6732	460	14.63	30	40	2	2-8.0sq.mm	1-3.5sq.mm	20
	TOTAL	304272	460	388.06						

LOCATION: POWER ROOM
ENCLOSUE: NEMA 1
MOUNTING: FLUSHED MOUNTED
AMPERES: - VOLTS: 460 V
BUS RATING: -
FED FROM: SERVICE ENTRANCE

COMPUTATION:
It = (388.06) 100% DF = 388.06 A
USE:
FEEDER SIZE: 2X3-125 sq.mm THHN + 2X30 sq.mm THW
IN 2x65mmØ RMC
MAIN BREAKER: 500 AT, 500 AF, 460 V, 3P
INDUSTRIAL TYPE

MAIN KAIC:
BRANCH KAIC:
CONNECTED LOAD: 304272 VA
DEMAND FACTOR: 100 %
BRAND: --
FABRICATOR: -

F-DCPP LOAD SCHEDULE

CKT NO.	LOAD DESCRIPTION	VA	VOLT	AMP	CIRCUIT BREAKER AT	AF	P	SERVICE WIRE, THHN	GROUND WIRE, THHN	CONDUIT MM, DIA
1	F-ACCP	1500	650	2.3	10	100	2	2x2.0sq.mm	-	20
2	60 HP THREE - PHASE INDUCTION MOTOR – BOGIE 1	67500	650	105	160	250	2	2x50.0sq.mm	-	32
3	60 HP THREE - PHASE INDUCTION MOTOR – BOGIE 2	67500	650	105	160	250	2	2x50.0sq.mm	-	32
4	10 HP THREE – PHASE INDUCTION MOTOR - ACU	6732	650	19	40	100	2	2-5.5sq.mm	-	20

LOCATION: FRONT COACH
ENCLOSUE: NEMA 1 CABINET ENCLOSURE
MOUNTING:
AMPERES: - VOLTS: 650 VDC
BUS RATING: -
FED FROM: COLLECTOR

COMPUTATION:
It = (231.3) 100% DF = 231.3 A
USE:
FEEDER SIZE: 2-125 sq.mm THWN
IN 50mmØ IMC
MAIN BREAKER: 400 AT, 400 AF,100 KAIC, 750 VDC

MAIN KAIC:
BRANCH KAIC:
CONNECTED LOAD: 148770 VA
DEMAND FACTOR: 100 %
BRAND: --
FABRICATOR: --

F-ACPP LOAD SCHEDULE

CKT NO.	LOAD DESCRIPTION	VA	VOLT	AMP	CIRCUIT BREAKER AT	AF	P	SERVICE WIRE, THHN	GROUND WIRE, THHN	CONDUIT MM, DIA
1	MAIN CONTROLLER POWER + LIGHTING	1500	230	6.6	20	50	2	2x2.0sq.mm	-	20
2	SPARE	-	230	-	20	50	2	-	-	-

LOCATION: FRONT COACH
ENCLOSUE: NEMA 1 CABINET ENCLOSURE
MOUNTING:
AMPERES: - VOLTS: 230 VAC
BUS RATING: -
FED FROM: F-DCPP

COMPUTATION:
It = (6.5) 100% DF = 6.5 A
USE:
FEEDER SIZE: 2-3.5 sq.mm THHN
IN 20mmØ IMC
MAIN BREAKER: 30 AT, 100 AF,25 KAIC, 230 V, 2P
INDUSTRIAL TYPE

MAIN KAIC:
BRANCH KAIC:
CONNECTED LOAD: 1500 VA
DEMAND FACTOR:
BRAND: --
FABRICATOR: --

R-ACPP LOAD SCHEDULE

CKT NO.	LOAD DESCRIPTION	VA	VOLT	AMP	CIRCUIT BREAKER AT	AF	P	SERVICE WIRE, THHN	GROUND WIRE, THHN	CONDUIT MM, DIA
1	MAIN CONTROLLER POWER + LIGHTING	1500	230	6.6	20	50	2	2x2.0sq.mm	-	20
2	SPARE	-	230	-	20	50	2	-	-	-

LOCATION: FRONT COACH
ENCLOSUE: NEMA 1 CABINET ENCLOSURE
MOUNTING:
AMPERES: - VOLTS: 230 VAC
BUS RATING: -
FED FROM: R-DCPP

COMPUTATION:
It = (6.5) 100% DF = 6.5 A
USE:
FEEDER SIZE: 2-3.5 sq.mm THHN
IN 20mmØ IMC
MAIN BREAKER: 30 AT, 100 AF,25 KAIC, 230 V, 2P
INDUSTRIAL TYPE

MAIN KAIC:
BRANCH KAIC:
CONNECTED LOAD: 1500 VA
DEMAND FACTOR:
BRAND: --
FABRICATOR: --

PP PANEL LOAD SCHEDULE

CKT NO.	LOAD DESCRIPTION	VA	VOLT	AMP	CIRCUIT BREAKER AT	AF	P	SERVICE WIRE, THHN	GROUND WIRE, THHN	CONDUIT MM, DIA
1	LIGHTIG	1512	230	6.57	15	50	2	2-3.5 sq.mm	1-3.5 sq.mm	20
2	SPLIT TYPE AIR CONDITIONER 1, 2HP (ACCU1)	2760	230	12	30	50	2	2-5.5 sq.mm	1-3.5 sq.mm	20
3	4 – CONVENIENCE OUTLET + 1 EXHAUST FAN (FCU2)	1620	230	7.04	20	50	2	2-3.5 sq.mm	1-3.5 sq.mm	20
4	SPARE	-	230	-	30	50	2			-
5	SPARE	-	230	-	20	50	2			-
6	SPARE	-	230	-	20	50	2			-
	TOTAL	5892	230	19.4						

LOCATION: POWER ROOM
ENCLOSUE: NEMA 1
MOUNTING: FLUSHED MOUNTED
AMPERES: - VOLTS: 230 V
BUS RATING: -
FED FROM: AUXILIARY TRANSFORMER

COMPUTATION:
It = (19.4) 100% DF = 19.4
USE:
FEEDER SIZE: 2-8.0 sq.mm THWN + 1-3.5 sq.mm THWN
IN 20mmØ RMC
MAIN BREAKER: 40 AT, 100 AF, 230 V, 2P
INDUSTRIAL TYPE

MAIN KAIC:
BRANCH KAIC:
CONNECTED LOAD: 5892 VA
DEMAND FACTOR: 100 %
BRAND: --
FABRICATOR: -

R-DCPP LOAD SCHEDULE

CKT NO.	LOAD DESCRIPTION	VA	VOLT	AMP	CIRCUIT BREAKER AT	AF	P	SERVICE WIRE, THHN	GROUND WIRE, THHN	CONDUIT MM, DIA
1	R-ACCP	1500	650	2.3	10	100	2	2x2.0sq.mm	-	20
2	60 HP THREE - PHASE INDUCTION MOTOR – BOGIE 1	67500	650	105	160	250	2	2x50.0sq.mm	-	32
3	60 HP THREE - PHASE INDUCTION MOTOR – BOGIE 2	67500	650	105	160	250	2	2x50.0sq.mm	-	32
4	10 HP THREE – PHASE INDUCTION MOTOR - ACU	6732	650	19	40	100	2	2-5.5sq.mm	-	20

LOCATION: FRONT COACH
ENCLOSUE: NEMA 1 CABINET ENCLOSURE
MOUNTING:
AMPERES: - VOLTS: 650 VDC
BUS RATING: -
FED FROM: COLLECTOR

COMPUTATION:
It = (231.3) 100% DF = 231.3 A
USE:
FEEDER SIZE: 2-125 sq.mm THWN
IN 50mmØ IMC
MAIN BREAKER: 400 AT, 400 AF,100 KAIC, 750 VDC

MAIN KAIC:
BRANCH KAIC:
CONNECTED LOAD: 148770 VA
DEMAND FACTOR: 100 %
BRAND: --
FABRICATOR: --

NOTE : WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB. THE DESIGNER MUST BE NOTIFIED IMMEDIATELY OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.

NOTE : DISCREPANCY ON ALL DRAWINGS & SPECIFICATIONS (ARCHITECTURAL, STRUCTURAL, SANITARY, ELECTRICAL, MECHANICAL, ETC.) SHALL BE SUBJECT FOR VERIFICATION

NOTE : DO NOT SCALE, ASK!

BATAAN PENINSULA STATE UNIVERSITY
TECHNICAL WORKING GROUP FOR INFRASTRUCTURE
CAPITOL COMPOUND, BRGY. TENEJERO, CITY OF BALANGA, BATAAN,
E-MAIL: bpsu.twginfra2016@gmail.com/ bpsuppes2017@gmail.com
TELEPHONE NO. : (047) 237-15-98

LOAD SCHEDULE

SCALE NTS

PROJECT TITLE:
INSTALLATION OF AUTOMATIC GUIDE-WAY TRANSIT (AGT) IN BPSU MAIN CAMPUS

LOCATION:
BATAAN PENINSULA STATE UNIVERSITY (MAIN CAMPUS), BALANGA CITY, BATAAN

STRUCTURAL ENGINEER
REG. NO :
PTR. NO :
PLACE :
TIN NO :

MASTER PLUMBER/SANITARY ENGINEER
REG. NO :
PTR. NO :
PLACE :
TIN NO :

PROFESSIONAL ELECTRICAL ENGINEER
REG. NO :
PTR. NO :
PLACE :
TIN NO :

PROFESSIONAL MECHANICAL ENGINEER
REG. NO :
PTR. NO :
PLACE :
TIN NO :

REVISION

NO.	DESCRIPTION	DATE
1		
2		

PREPARED BY:

AR. ROXETTE S. UMEREZ
ARCHITECT 1, BPSU TWG
REG. NO :
PTR. NO :
PLACE :
TIN NO :

REVIEWED BY:

JASON ANTHONY BANZON
CAMPUS DIRECTOR

NOTED BY:

ENGR. ALFREDO D. VALENTOS
DIRECTOR OF PPES

RECOMMENDED BY:

DR. EDMUNDO C. TUNGOL
VICE PRESIDENT ADMIN. & FINANCE

APPROVED BY:

DR. GREGORIO J. RODIS
UNIVERSITY PRESIDENT

REPUBLIC ACT 9266.

SHEET CONTENT:

SHEET NUMBER: E1