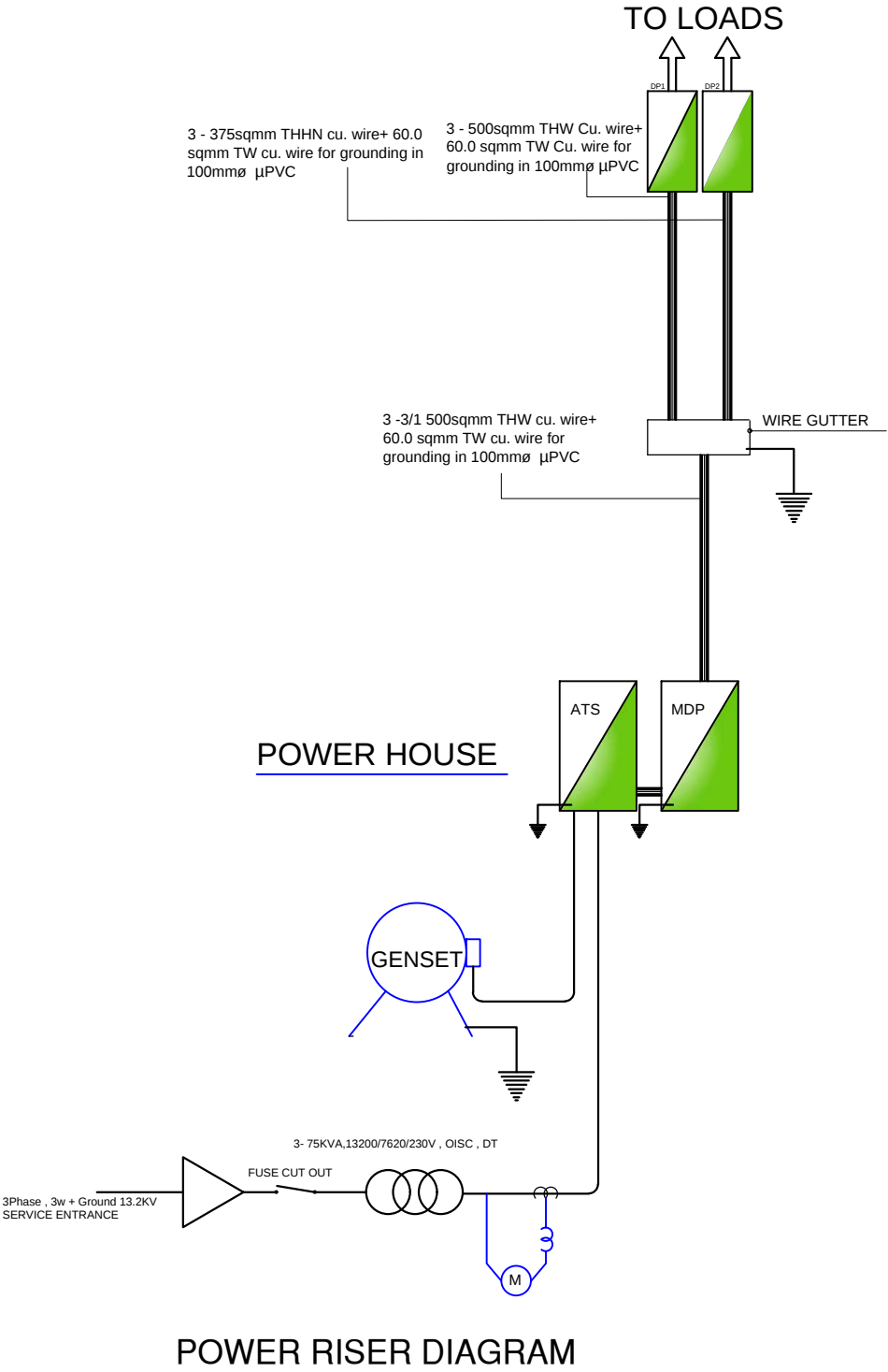


PANELBOARD:DP2				MAIN:				800AF/500AT3P 250VAC MCCB 15KAIC Bolt-On Type								
PEO				PROJECT:		Upgrading of Power Distribution System				PROJECT No.:		PREPARED BY:		DATE		
				LOCATION:		ILOILO PROVINCIAL HOSPITAL				CHECKED BY:		DATE				
						Pototan, Iloilo				APPROVED BY:		DATE				
CKT No.	LOAD DESCRIPTIONS			VOLT (V)	POLE (P)	FRAME (F)	TRIP (T)	VOLT - AMPERE	AMPERE LOAD RATINGS				NUMBER and SIZES OF			
									ØAB	ØBC	ØCA	3Ø	CONDUCTOR		CONDUIT µPVC	
1	LP/PP- Quarters			230	3			10338		3.15			2/1-	22.0 sq mm THHN + 3.5sq mm THHN	70	
3	LP/PP-Cadaver			230	3			1810			7.87		2/1-	8.0 sq mm THHN + 3.5sq mm THHN	25	
4	LP/PP-Laboratory			230	3			44784	61.78	66.43	66.51		3/1-	14.0 sq mm THHN + 8.0sq mm THHN	40	
5	LP/PP-OPD			230	3			23277	32.49	35.01	33.70		3/1-	14.0 sq mm THHN + 8.0sq mm THHN	40	
6	ACU-OPD			230	3			45290	62.52	65.39	69.00		3/1-	14.0 sq mm THHN + 8.0sq mm THHN	40	
7	LP/PP-Dialysis Center			230	3			13135	57.10				3/1-	30.0 sq mm THHN + 8.0sq mm THHN	32	
8	SPARE															
TOTAL								138634	213.89	169.98	177.08	0.00				
ENCLOSURE:		NEMA 1	I-total = 1.732(213.89+ (.25 x 17)) = 377.82A													
MOUNTING:		WALL-SURFACE	CONNECTED LOAD: KVA = {(377.82 x 230)/1000} = 86.90 Say 87 KVA													
AMPERES:		225 AMPERE	I-line = [87000]/230 x 1.25 = 472.83 Amperes													
VOLTAGE:		250 VAC	USE = 3/1- 375.0mm ² THHN/THWN Cu. wire + 60.0mm ² TW Cu. wire FOR GROUNDING													
BUS BRACING:		30 KA	in 100mmØ PVC Conduit													
FED FROM:			INTERRUPTING CAPACITIES		MAIN:		15KAIC	CONNECTED LOAD:		87KVA	BRAND:					
					BRANCH:		12KAIC	DEMAND FACTOR:		80%	FABRICATOR					

PANELBOARD:MDP						MAIN: 200AF/100AT3P 250VAC MCCB 12KAIC Bolt-On Type								
PEO			PROJECT:		PHU				PROJECT No.:					
			LOCATION:		ALEOSAN DISTRICT HOSPITAL				PREPARED BY:		DATE:			
					Alimodian, Iloilo				CHECKED BY:		DATE:			
									APPROVED BY:		DATE:			
CKT No.	LOAD DESCRIPTIONS		VOLT (V)	POLE (P)	FRAME (F)	TRIP (T)	VOLT - AMPERE	AMPERE LOAD RATINGS			NUMBER and SIZES OF			
								ØAB	ØBC	ØCA	3Ø	CONDUCTOR	CONDUIT IN µPVC	
1	DP1		230	3	1000	600	243751	373.31	378.76	377.74	0.00	3/1	500.0mm ² THHN/THWN Cu. wire + 60.0mm ² TW Cu. wire FOR GROUNDING	100
2	DP2		230	3	800	500	138634	213.89	169.98	177.08		3/1	375.0mm ² THHN/THWN Cu. wire + 60.0mm ² TW Cu. wire FOR GROUNDING	100
3	SPARE													
4	SPARE													
	TOTAL						382385	587.20	548.74	554.82	0.00			
ENCLOSURE		NEMA 1	COMPUTATION:											
MOUNTING:		WALL-SURFACE	I-total = 1.732([(587.2 x 0.8)+ (15* 0.25)]= 820.99											
AMPERES:		225 AMPERE	CONNECTED LOAD: KVA = {(820.99x 230)/1000} = 188.83 Say 189 KVA											
VOLTAGE:		250 VAC	I-line = [(189000)/230] x 1.25 = 1027.17 Amperes											
BUS BRACING:		30 KA	USE = 3x 3/1- 500.0mm ² THHN/THWN Cu. wire + 60.0mm ² TW Cu. wire FOR GROUNDING											
FED FROM:			in 100mmØ PVC Conduit											
			INTERRUPTING CAPACITIES		MAIN:		18KAIC	CONNECTED LOAD:		189KVA	BRAND:			
					BRANCH:		15 KAIC	DEMAND FACTOR:		80%	FABRICATOR:			
transformer setting:														
KVA@80%= 189x 0.8=151.2KVA														
KVA/3= 151.2/3 = 50.4 KVA														
use: 3-75KVA														



OFFICE:	PROJECT TITLE & LOCATION :	PREPARED BY:	CHECKED BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED:	
PEO	UPGRADING OF ELECTRICAL SYSTEM	QUENNIE LYN JOY P. LAGARTO PROJECT ENGINEER-PEO	MA. NOEMI P. BALDEVIESO ENGINEER II-PEO	JEB A. ESCARILLA ENGINEER IV-PEO	GRACIANITO L. LUCERO, MM, CESE PGDH-PEO	RAUL N. BANIAS, MD, MPA PROVINCIAL ADMINISTRATOR	
ILOILO CITY	POTOTAN, ILOILO						

