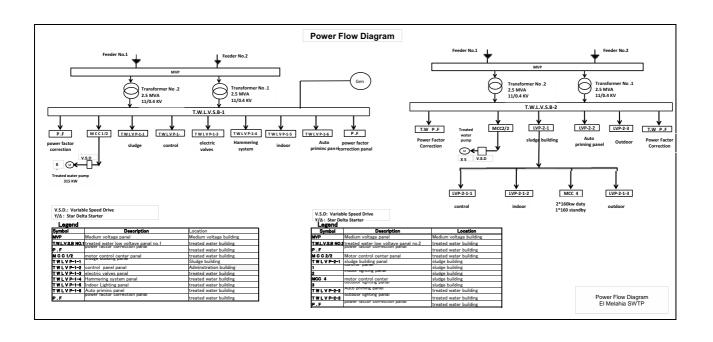
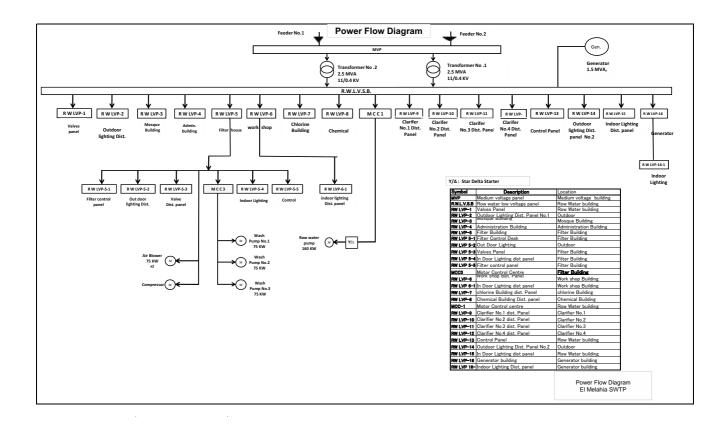
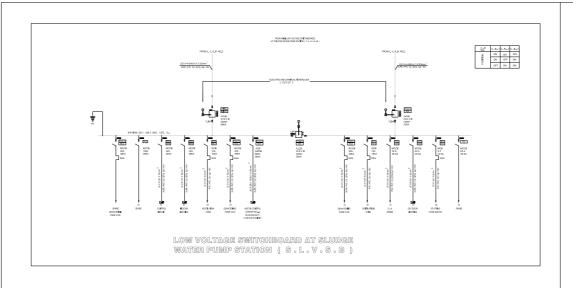
S2.5 単線接続図 GHAPWASCO







ADMIT CONTROL METERS AND ADMIT TO ADMIT CONTROL METERS AND ADMIT CONTRO SATH LEBROIS PROTECTION

SECRET PROTECTION

OVER DIRECT PROTECTION

FIRST STATE STATE STATE STATE

OVER A VERY WALK STATE STATE

OVER A VERY WALK STAT

A-NOTES FOR THE LOW VOLTAGE SWITCHBOARD:

1-All main G. B with earth leakage protection shall be monitored through toroid.

2-All L. V. C. B greater than 10-A must have electronic trip unit.

3-The selection of all G. B and bus bare should be carried out in accordance to the S. C breaking capacity at that point.

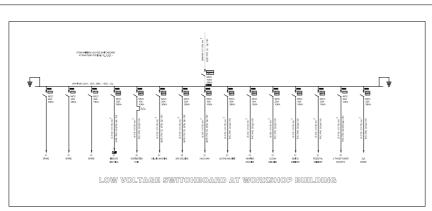
3-The selection of all G. B and bus bare should be carried out in accordance to the S. C breaking capacity at that point.

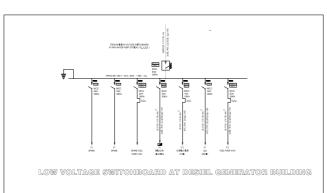
3-The selection of all G. B and bus bare should be carried out in accordance to the develope in selection of the selection of the should be carried to the selection of the selectio

B - CAPACITOR:

1-The steps selection of the power factor correction units should be done according to the specification to reach to the best power factor values; the specification to reach to the the specification to reach step the specification of the specifi

Drawn:		
Checked:	Plant Name	
Checked:		
Approved:	EL MELAHIA	
GHAPWASCO	D W G .NO	Page
311711 1171000	EL MELAHIA /IM /SLD	1/7



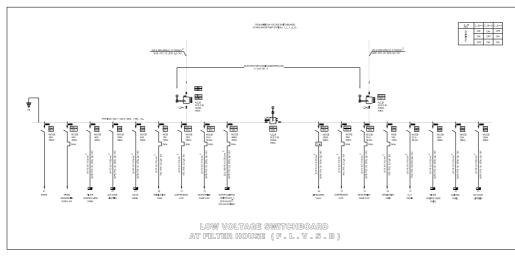


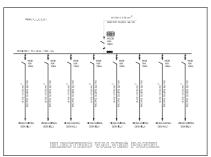


A-NOTES FOR THE LOW VOLTAGE SWITCHBOARD:
1-4II main C, B with earth leakage protection shall be monitored through torriol.
2-4II L, V. C, B graster than 100 kmust have electronic trip unit.
3-The selection of all C, B and bus bare should be carried out in accordance to the S. C breating capacity at that point.
4-The rating valve of all component each the S. C breating capacity mentioned in the drawing is minimum valve...) shall be selected according to the selection of the S. C breating capacity mentioned in the drawing is minimum valve...) shall be selected according to the specified duties and design temperature the motor starter should cannot be specified duties and design temperature the motor starter should cannot circuit breaker.
6-The degree of protection for the switchboard not less than IP42.
7-The steel thickness of switchboard not less than IP42.
6-All box but cross section area are calculated with current density not excord = 1.5 A / mm2.
6-All low vallage valids board are developed from 2 feeders according to twent regulates.

S2.5-2

Drawn:	Plant Name EL MELAHIA	
Checked:		
Checked:		
Approved:		
GHAPWASCO	D W G .NO	Page
OHAI WAGGO	EL MELAHIA /IM /SLD	1/7





ANOTES FOR THE LOW VOLTAGE SMTCHBOARD:
1-All main C. B. with earth leakage potention shall be monitored through toroid.
2-All I. v. C. B. greater than 100A must have electronic trip unit.
3-The selection of all C. B. and bus bare should be carried out in accordance to the S. C breaking capacity at that point.
3-The rating valve of all component and the S. C breaking capacity mentioned in the drawing is minimum valve.
5-All components in the motor starter (such as C. B. contractorm, overload, motor protection relay and starter....) shall be according to the specified fuller and design temperature the motor starter about do contain circuit breaker.
6-The degree of protection for the switchboard not less than IP42.
7-The steel thickness of switchboard not less than IP42.
8-All bus bar cross section area are calculated with current density not exceed = 1.5 A / mms.
8-All bus bar cross section area are calculated with current density on owner requires.
10-All bus bar cross section area are calculated with current density on owner requires.
10-All bus bar cross section area are calculated with current density on owner requires.

B - CAPACITOR:

1-The steps selection of the power factor correction units should be done according to the specification to reach to the best power factor valves.

2-The capacitor bank should contain discharge resistor, inside or out side, to make the voltage or according to the contained or according to protect the capacitor bank from the harmonic produced by the soft starter during starting and stopping period.

	CHE ARMETER AFTH CURRENT TRANSFORMER
E	THREE MANIETER WITH CURRENT TRANSPORMER
22	TWEE SENSITER OF HOURSEST FRANKFORMER VOLTAMETER WITH NOUTAGE SELECTOR
e e	THE MINISTER WITH COMEST TRANSPORMENT VOCAMINETER WITH COMEST TRANSPORMENT VOCAMINETER WITH COMESTIC PROPERTY OF THE PROPERTY
F7251	TIMES MINISTER WENDINGS TRANSPORMEN VOLTAMETER WENNISTAGE SELECTOR PREDIANCEY METER POWER RACTOR METER ACTILE FOODER METER
e page	COLD TRANSPORTURE FOR MODIO THAT HE SEARCH PROTECTED SEARCH CHARLES FOR MODIO THE SEARCH SEA
280	OVER CORRECT PROTECTEN SERVICE DISCUST PROTECTEN PHASE TABLES PRIVATE SOMMOZES UMBERS OVER VOCAME PROTECTEN EAST LOWAGE PROTECTEN EXCEPTED POWER PRIVAT ROSERSE POWER PRIVAT
F10.8	SHORT CIRCLE PROTECTION CHER CORRECT PROTECTION SHORT IN LINE A PRIVICE SOLARCES SHORT OF A CONTRACT PROTECTION LAKEN LINESSEE PROTECTION
-223	SUBJECT CROUT PROTECTION OVER CORRECT PROTECTION OVER CORRECT PROTECTION OVER A LABOR VOLTING
	SHORT CIRCL PROTECTOR OLER CURRENT PROTECTION PHOSE FOLUME & PRANS SOLUTION
Pβ	OVER CORREST PROTECTES BHOST OPENING PROTECTES TO SHORT OPENING PROTECTES
MCCD	MOLLOGO CASE CHROME BEGANER WITH THERMIN, IL. MAGNETTE DIER LOAD PROTECTION
MCS	MATURE ORE CHOLE SHOWER
ACB	AR CHICAT RESIDER
ACCO	VP-GNAMELE CROLESSORES
-0	HOTOFESE CIPOLITORGINER
5	SOFT - STARTER WITH ALL MOTOR PROTECTION FRUM
14	START - SELT STARTER WE'N THERMAL OVER LOAD
ζ	CRECT ON-LINE STARTER WHITHERBAL OVER LOAD
₩	PROTECTEMENTH

O O OFFICE KINETIONS

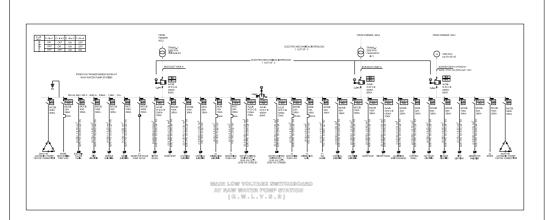
BEEN TO THE PROPERTY OF THE TOTAL TO

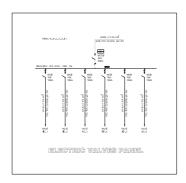
Drawn:		
Checked:	Plant Name	
Checked:		
Approved:	EL MELAHIA	
GHAPWASCO	D W G .NO	Pa
	EL MELAHIA /IM /SLD	17

SHORT CHICK PROTECTED

SHORT CHICK PROTECTED

PHICE PALLINE S PHASE SOURI
CHICAL SHOEN IN TAKE PROTEIN
SHORTER CHICK PROTEIN
SHORT CHICA PROTEIN
SHORT CHICA
SHORT CHICA
SHORT CHICA
SHORT CHICA
SHORT CHICA
SHORT
S





A-NOTES FOR THE LOW VOLTAGE SWITCHBOARD:

1-All main C , B with earth leakage protection shall be monitored through bornid.

2-All L , V. C , B greater than 100A must have electricit for junit.

3-The selection of all C , B and bus bare should be carried out in accordance to the S . C breaking capacity at that point .

4-The rating valve of all component and the S . C breaking capacity mentioned in the drawing is minimum valve .

5-41 components in the motor starter (such as C , B, contactorm, overfold, motor protection relay and starter....) shall be selected according to type (10 contained as per the 16 C 847 - 4 - 14 for 16 341 be properly sized selected according to type (20 contained as per the 16 C 847 - 4 - 14 for 16 341 be properly sized of the starter should contain critical breaker.

5-The despree of protection for the switchboard not less than 1P42.

7-The steel thickness of switchboard not less than 2 m.

8-All bus ber cross section area are calculated with current density not exceed = 1.5 A / mm2.

9-All bus bar cross section area are calculated with current density not exceed = 1.5 A / mm2.

9-All bus bar cross section area are calculated with current density not exceed = 1.5 A / mm2.

- CAPACITO	OR:	
The steer of	T	

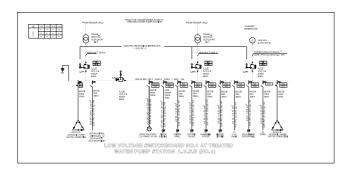
B_CAPACITOR: Of the gover factor correction units should be done according to
The steps selected to reach be the step power factor environment.

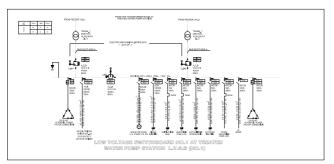
2-The capacitor bank should contain discharge resistor, Inside or out stell, to make the voltage on
the terminal reach 50 v Within one second or according to IEC.

3-The supplier of switchgear should provide a solution to protect the capacitor bank from the
harmonic produced by the soft starter ouring starting and stopping period.

Drawn:		
Checked:	Plant Name EL MELAHIA	
Checked:		
Approved:		
GHAPWASCO	D W G .NO	Page
OHAI WAGOO	EL MELAHIA /IM /SLD	/7

S2.5-3





SHORT CIRCUIT PROTECTEM
SHORT CIRCUIT PROTECTEM
PRASE FOR LIFE A PRHSE SOUNDESS
UNDER A CHER HOLTHGE PROTECTED IN SANT HOUSE OF THE COLOR OF THE

ð

B - CAPACITOR:

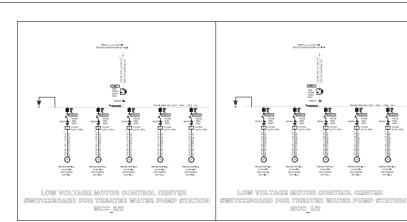
1-This steps selection of the power factor correction units should be done according to the specification to reach to the best power factor valves.

1-This steps selection for exact to the best power factor valves.

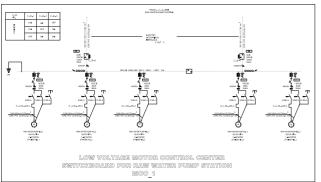
1-This selection of the power factor correction of the condition to the condition of the condition to produce the voltage should produce a solution to profer the capacitor brank from the harmonic produced by the soft starter during starting and stopping period.

pictis+16) +(1.X 16) mm² ILPE/PRIC GUISTRI, GUI 96V PICTIS

Drawn: Checked:	Plant Name	
Checked: Approved:	EL MELAHIA	
GHAPWASCO	D W G .NO	Page
0.0.0	EL MELAHIA /IM /SLD	/7



Low voltage motor control center switchboard for treated water pump station



A-NOTES FOR THE LOW VOLTAGE SWITCHBOARD.

1-All main C. B. with earth leakage protection shall be monitored through torroid.

2-All L. V. C. B. gives after than 100 Amen the electronic big unit.

2-The selection of a C. B. and bus been should be careful out in accordance to the S. C. breaking capacity at that point.

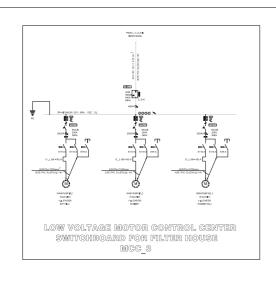
2-The selection of a C. B. and bus been should be careful out in accordance to the S. C. breaking capacity at that point.

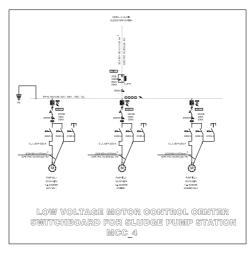
2-The selection of a C. B. and bus been should be careful out in accordance to the S. C. B. contaction, overlead, making prediction relay and starter is—__should be selected according to the specified disease and design the impressions the mode starter (value) according to the specified disease and design the impressions the mode starter should contain circuit breaker.

7-The seld tildrives of selectionary of the specified disease and designed with careful designed of selection and selection of the selection of

00	DELOTFORESTOR
999	MICHIELUMES (ONOT FAILT)
٥	Princip Cultural Principalities
٥	VALTAMETRY
æ	10,3408 85,80708
1	HOW NOTES BOA'S
CIO	COL OVER CHIEFLY PRETECT US SECULT DESCRIPTION COLD I PRESENT LIFE IS PAUL SOURCES DESCRIPTION CONTRACTOR COLD I EXCELLENT CONTRACTOR CONTRACTOR COLD II EXCELLENT CONTRACTOR CON
E	SOUTH ORGANISM PROTECTION ONLY THE PROTECTION ONLY THE PROTECTION ONLY THE PROTECTION THE
	DOMESTICATION PROSECULAR SPACE SOUNCES
POL	S SOUTHWATERED
NCO8	MONORE CHE COCK PROTECTOR MONETE CHER COG PROTECTOR
MOS	MUNICIPAL CHARLES
ACB	at disar proven
V000	WHO MAKE CHO, PROBLEM
-0	HOTERED CHOIL BREACH
	SBITE-STHEETER HYTH HEL HOT DREPROTEST/GHARELAN
7.4	STATE SOLTSTHETCH AND THERMAL CHERLOAD
⊞	REVENUE CHECK DATABLE AND THE REVENUE
-	CONTRACTOR NATIONAL DISHOLT
0	THE PARTSOLPHIC CARROTTE
ሩ	DRICT DILAKSTMENVENTHERAL OVER LINC
₩	PROTECTOR GARDA

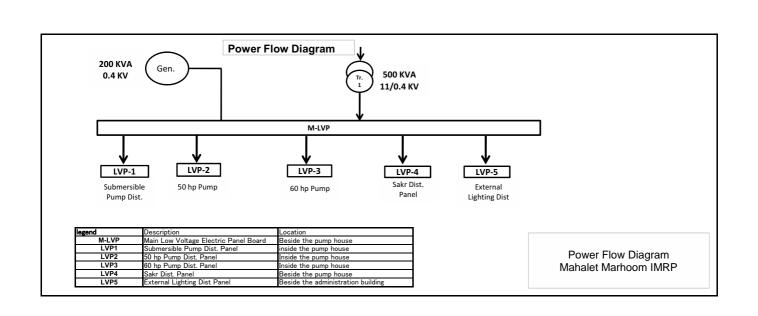
Drawn:		
Checked:	Plant Name EL MELAHIA	
Checked:		
Approved:		
GHAPWASCO	D W G .NO	Page
	EL MELAHIA /M /SLD	/7

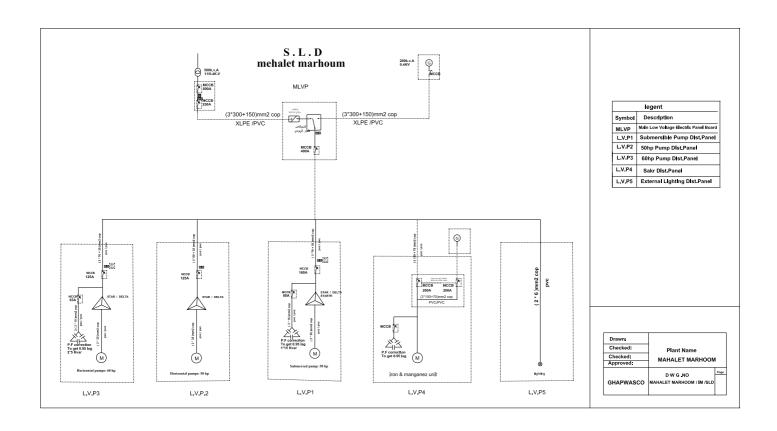


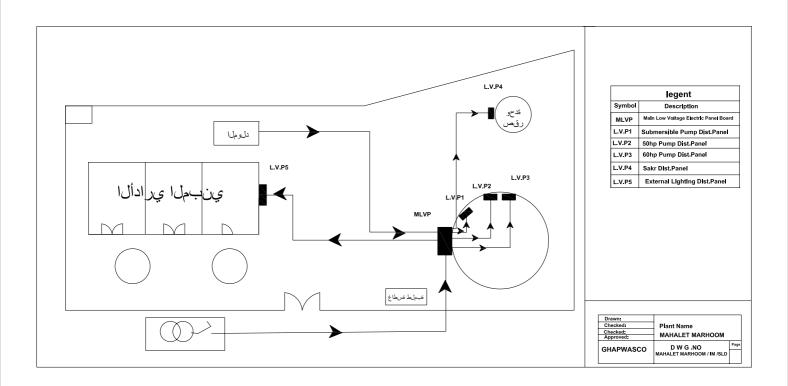


00	D# A DFF Pase BUTTONS
666	MUCLUBETWEE (DPOLESMICL)
0	PHISE CURPORT ANNETER
0	VOLTAMBETER
ş	VOLTAGE BELECTOR
FW	HOLESTROOMS
PH)	SCI DIES CURRENT PROTECTION SC
	EX. SHORT CHOLF PROTECTIVE OUT ONE CLASSES FRANCISCOM OVER TABLES A PRACE SOMACES OVER TABLES A PRACE TO MODISM OUT THE PROTECTIVE OUT THE PROTECTIVE ON MODISM WHERE IS REALLY SO REALLY SOME OUT THE PROTECTIVE OUT THE
	ESC SHORT CHORT THORSE COM-
PRO	DE DIEROUSETPROTECTON DE SKORT CHOUT PROTECTON
1008	HOULDED CASE CITICAL BREAKER WITH THERMAL & MADRETTO CHER LONG PROTECTED!
MCB	MATURE CASE CROOF BREWER
A08	AR OPCUT SHEARIN
VDCS	WITH DESCRIPTION OF CHICAL PROPERTY.
-0	HOTOPLES CHOLF SHEAREN
1	SOFT - STAFFER NETHALL MOTOR PROTECTION RELAY
Υie	START - DOLT STARTER WITH THERMAL EVER LONG
8	REVERSE OF SCHOOL ALTHOUGH CO. T. O. H. STAFFER
-	CONTRICTOR WEN COLUMN OUT
0	THREE PHYSIC SOL B RIEL CAGE MOTOR
ጘ	CIFECT CIA. LIVE STARTER WENTHERSIAL OVER LOAD
#	PROTECTEMENTH

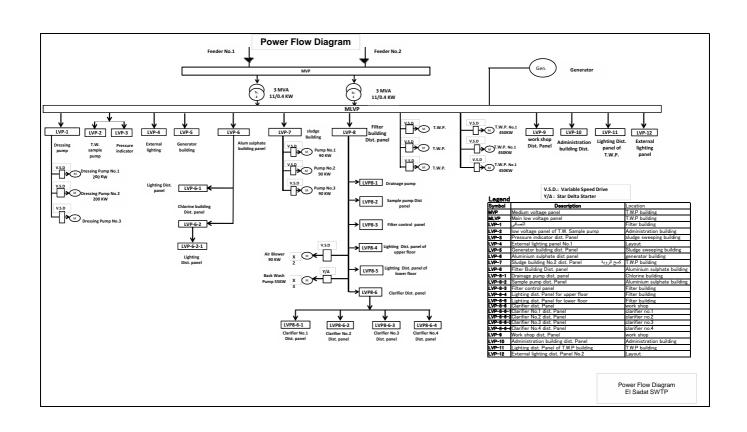
Drawn: Checked:	Plant Name EL MELAHIA	
Checked:		
Approved:		
GHAPWASCO	D W G .NO	Page
011741 1174000	FIMELAHIA /IM /SID	17

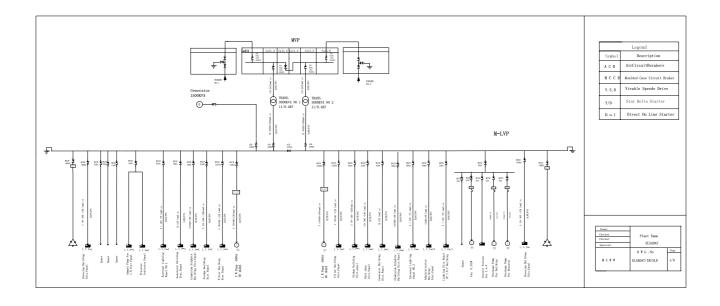


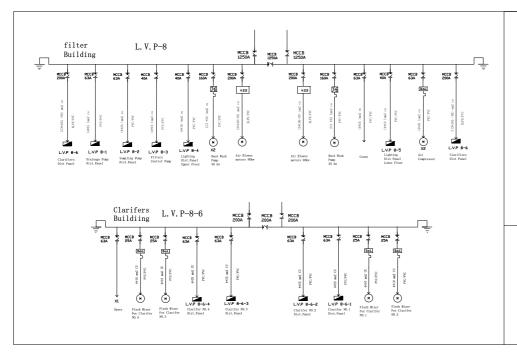






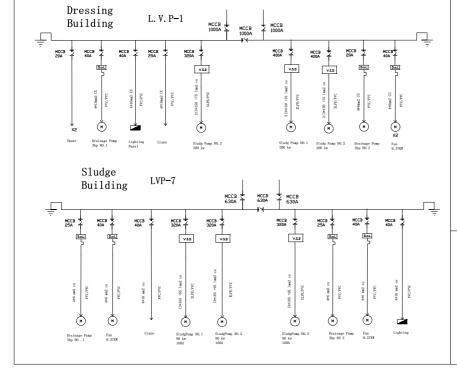






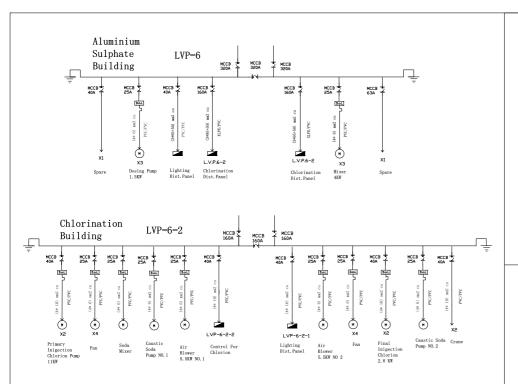
Legend		
Symbol	Description	
АСВ	AirCircuitBerakers	
мссв	Moulded Case Circuit Braker	
V. S. D	Virable Speede Drive	
Y/D	Star Delta Starter	
D. o. 1	Direct On Line Starter	

Drawn:		
Checked:	Plant Name	
Checked:		
Approved:	ELSADAT	
	D W G . No	Page
M C W W	ELSADAT/IM/SLD	2/4



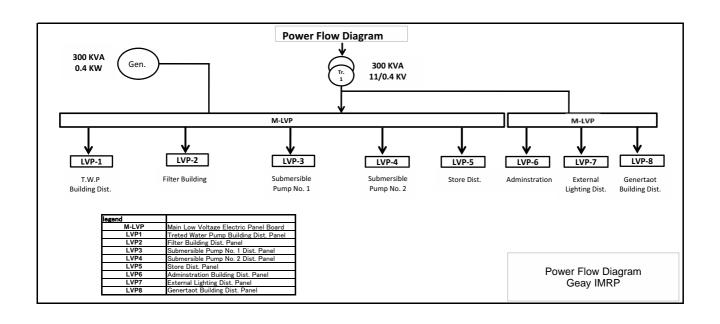
Legend		
Symbol	Description	
АСВ	AirCircuitBerakers	
мссв	Moulded Case Circuit Braker	
V. S. D	Virable Speede Drive	
Y/D	Star Delta Starter	
D. o. 1	Direct On Line Starter	

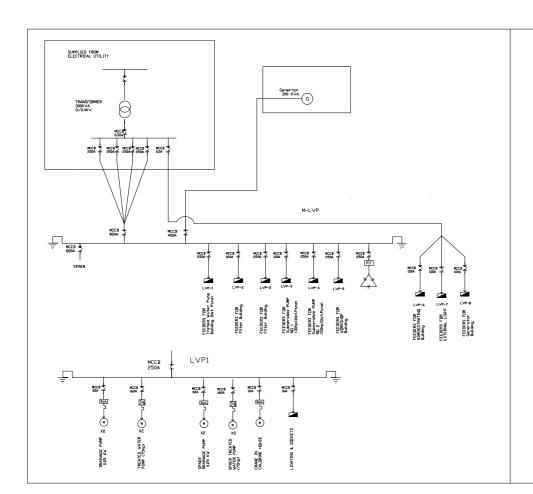
Drawn:		
Checked:	Plant Name	
Checked:		
Approved:	ELSADAT	
	D W G . No	Page
MCWW	ELSADAT/IM/SLD	3/4



Legend		
Symbol	Description	
АСВ	AirCircuitBerakers	
мссв	Moulded Case Circuit Braker	
V. S. D	Virable Speede Drive	
Y/D	Star Delta Starter	
D. o. 1	Direct On Line Starter	

Drawn: Checked: Checked:	Plant Name	
Approved:	ELOADAT	
	D W G . No	Page
MCWW	ELSADAT/IM/SLD	4/4

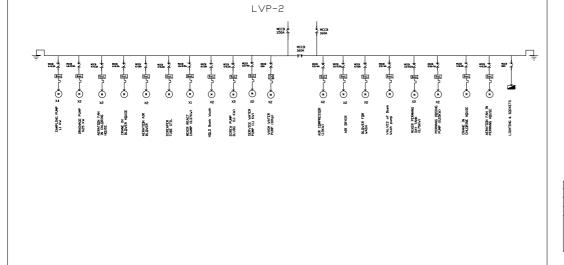




	Legend
Symbol	Description
мссв	Moulded Case Circuit Breaker
Y/D	Star Delta Starter
D.o.l	Direct On Line Starter

	Legend
Symbol	Description
M-L∨P	Main low voltage Electric Panel Board
LVP1	Treted Water Pump Building Dist.Panel
LVP2	Filter Building Dist.Panel
LVP3	Submersible pump 1Dist.Panel
LVP4	Submersible pump 2Dist.Panel
LVP5	Store Dist.Panel
LVP6	Adminstration Building Dist.Panel
LVP7	External Lighting Dist.Panel
LVP8	Genertaot Building Dist.Panel

Drawn:		
Checked:	Plant Name	
Approved	Gezay	
	D W G .No	Page
M C W W	Gezay/IM/SLD	1/2



	Legend
Symbol	
Symbol	Description
мссв	Moulded Case Circuit Breaker
Y/D	Star Delta Starter
D.o.l	Direct On Line Starter

Plant Name	
Gezay	
D W G .No	Page
Gezay/IM/SLD	2/2
	Gezay D W G .No