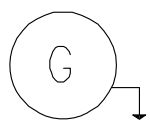


LEGENDS



GAS GENERATOR



AC MOTOR



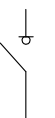
CB

CIRCUIT BREAKER



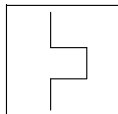
RCCB

RESIDUAL- CURRENT CIRCUIT BREAKER



DS

DISCONNECTOR SWITCH



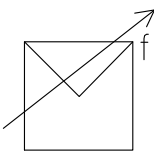
OL

OVERLOAD RELAY



MS

MAGNETIC CONTACTOR



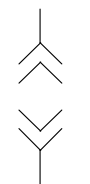
VARIABLE SPEED DRIVE



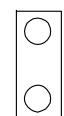
FUSE



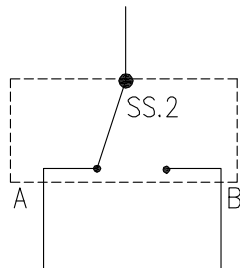
CURRENT TRANSFORMER



WITHDRAWABLE TYPE



LOCAL CONTROL STATION



SELECTOR SWITCH



LA

LIGHTNING ARRESTOR



PANEL



INDICATING LAMP/LIGHT
R-RED
G-GREEN
W-WHITE
A-AMBER
B-BLUE



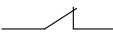
AMMETER



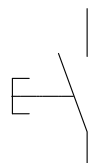
VOLTMETER



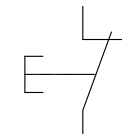
CONTACT, NORMALLY OPEN



CONTACT, NORMALLY CLOSE



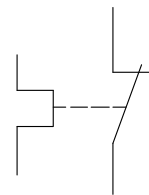
START BUTTON



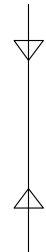
STOP BUTTON



LOCAL CONTROL STATION
WITH SELECTOR SWITCH



CONTACT, OVERLOAD RELAY



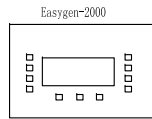
CABLE



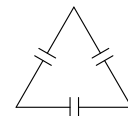
UNINTERRUPTABLE POWER SUPPLY



INTERMEDIATE RELAY



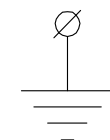
GENSET CONTROLLER



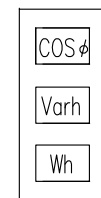
CAPACITOR BANK





REACTOR



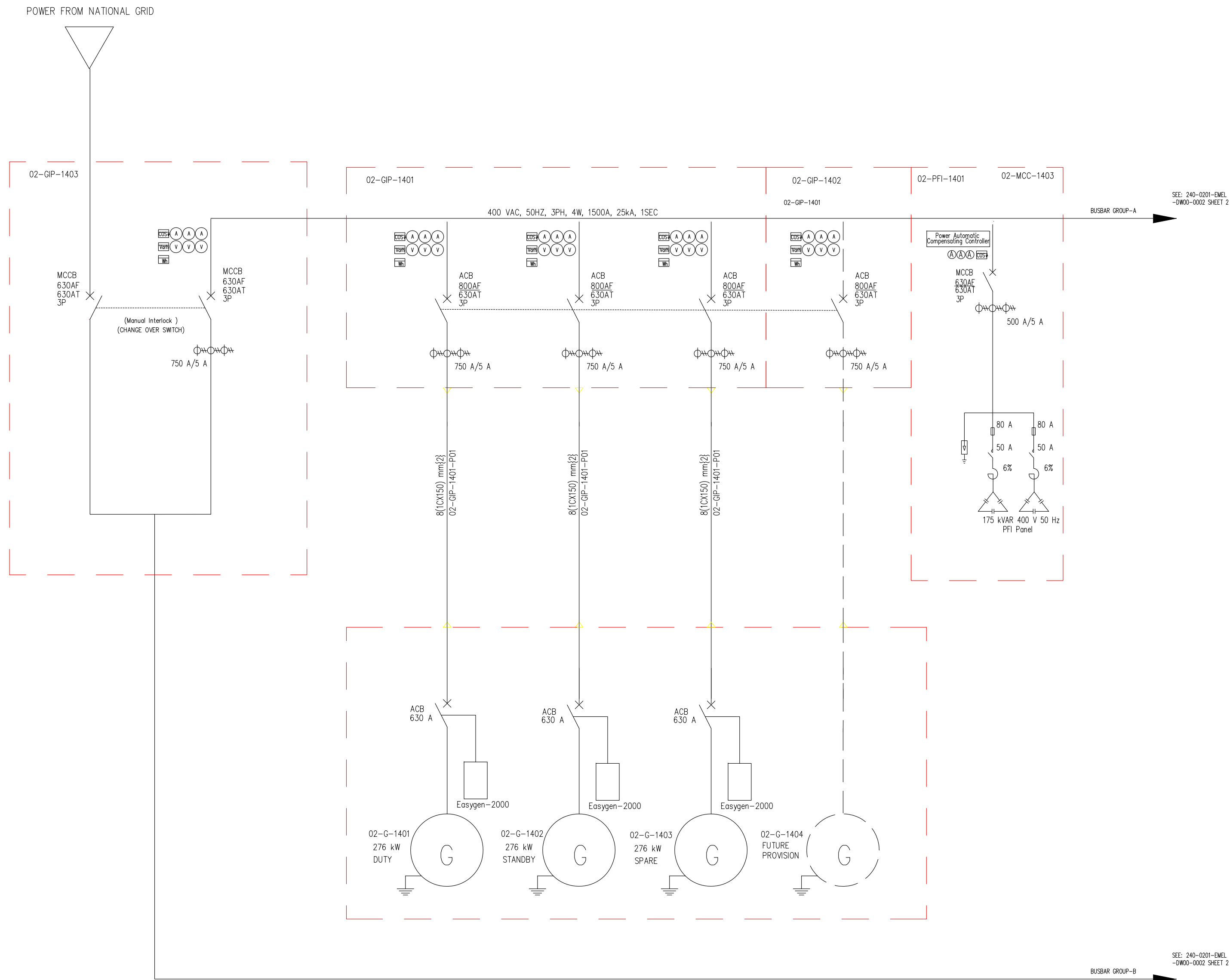
EARTH







ENERGY METER

REV	DATE	CLIENT APPROVAL	APPR'D		
A	ISSUED FOR APPROVAL	AS	MH	VG	2015.10.28
REV	DESCRIPTION	PREP'D	CHK'D	APP'D	DATE
REVISIONS					
FOR					
 BANGLADESH PETROLEUM EXPLORATION & PRODUCTION CO. LTD					
 CONSORTIUM OF ZICOM EQUIPMENT PTE. LTD. AND SINOPEC PETROLEUM ENGINEERING CORPORATION					
60 MMSCFD SILICAGEL DEHYDRATION TYPE NATURAL GAS PROCESS PLANT					
TITLE ELECTRICAL LEGEND, NOTES & SYMBOLS					
FORMAT A2					
DRAWING NO. 240-0214-EMEL-DW00-0001					
REVISION SCALE NTS SHEET 1 OF 1					
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POWER FEEDER (INCOMING PANEL)



REV	DATE	APPR'D			
CLIENT APPROVAL					
A	ISSUED FOR APPROVAL	AS	MH	VG	2015.10.28
REV	DESCRIPTION	PREP'D	CHK'D	APP'D	DATE
REVISIONS					
FOR	<div>BANGLADESH PETROLEUM EXPLORATION & PRODUCTION CO. LTD</div>				
<div>CONSORTIUM OF ZICOM EQUIPMENT PTE. LTD. AND SINOPEC PETROLEUM ENGINEERING CORPORATION</div>	<div></div>				
60 MMSCFD SILICAGEL DEHYDRATION TYPE NATURAL GAS PROCESS PLANT					
TITLE	SINGLE LINE DIAGRAM FOR MCC				
FORMAT	DRAWING NO.				REVISION
A2	240-0214-EMEL-DW00-0002				<div></div>
	SCALE	NTS	SHEET	1 OF 5	
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MOTOR CONTROL CENTER (MCC)

O2-MCC-1401

BUSBAR GROUP-A 400 VAC, 50HZ, 3PH, N, 4W 1500A, 25kA, 1SEC

FROM: 240-0214-EMEL
-DW00-0002 SHEET 1

SEE: 240-0201-EMEL
-DW00-0002 SHEET 2

MCCB 100AF 40AT 3P

MCCB 100AF 40AT 3P

MCCB 100AF 40AT 3P

MCCB 100AF 32AT 3P

MCCB+RCD /30mA 100AF 63AT 4P

MCCB+RCD /30mA 100AF 63AT 4P

MCCB+RCD /30mA 100AF 63AT 4P

MCCB+RCD /30mA 100AF 63AT 4P

MCCB+RCD /30mA 100AF 63AT 4P

MCCB 125AF 16AT 3P

4CX10 mm[2] C-501-P01

4CX10 mm[2] C-502-P01

4CX10 mm[2] C-503-P01

4CX10 mm[2] SPARE-1-P01

4CX16 mm[2] SPARE-2-P01

4CX16 mm[2] SPARE-3-P01

4CX16 mm[2] SPARE-4-P01

4CX16 mm[2] SPARE-5-P01

UTILITY AIR COMPRESSOR LOCAL CONTROL PANEL C-501 15kW

UTILITY AIR COMPRESSOR LOCAL CONTROL PANEL C-502 15kW

UTILITY AIR COMPRESSOR LOCAL CONTROL PANEL C-503 15kW

SPARE-1 25A

SPARE-2 50A

SPARE-3 50A

SPARE-4 50A

SPARE-5 50A

Socket outlets will remain at plant area with require cable. All other necessary socket and plug in respect to requirement.

Socket outlets will remain at plant area with require cable. All other necessary socket and plug in respect to requirement.

Socket outlets will remain at plant area with require cable. All other necessary socket and plug in respect to requirement.

Socket outlets will remain at plant area with require cable. All other necessary socket and plug in respect to requirement.

3pin 4 pin outlet with supply of 100 meter exposure proof appropriate size of cable & cable management in respect to capacity of outlet each.

SPARE FOR FUTURE SIMILAR PLANT

O2-MCC-1402

BUSBAR GROUP-B 400 VAC, 50HZ, 3PH, N, 4W 500A, 25kA, 1SEC

FROM: 240-0214-EMEL
-DW00-0002 SHEET 1

MCCB 100AF 40AT 3P

MCCB 100AF 40AT 3P

MCCB 100AF 25AT 3P

MCCB 100AF 16AT 3P

4CX35 mm[2] DOMESTIC-P01

4CX10 mm[2] MCC ROOM-P01

DOMESTIC & OFFICE USES 50kW

GENERATOR & MCC ROOM DISTRIBUTION PANEL 10kW

SPARE

SPARE

REV	DATE	APPR'D			
CLIENT APPROVAL					
A	ISSUED FOR APPROVAL	AS MH YG 2015.10.28			
REV	DESCRIPTION	PREP'D	CHK'D	APP'D	DATE
REVISIONS					

FOR

BAPEX BANGLADESH PETROLEUM EXPLORATION & PRODUCTION CO. LTD

ZICOM CONSORTIUM OF ZICOM EQUIPMENT PTE. LTD. AND SINOPEC PETROLEUM ENGINEERING CORPORATION

TITLE SINGLE LINE DIAGRAM FOR MCC

FORMAT A2 DRAWING NO. 240-0214-EMEL-DW00-0002 REVISION A

SCALE NTS SHEET 2 OF 5

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MOTOR CONTROL CENTER (MCC)

O2-MCC-1401

BUSBAR GROUP-A 400 VAC, 50HZ, 3PH, N, 4W 1500A, 25kA, 1SEC

FROM: 240-0214-EMEL
-DW00-0002 SHEET 1

SEE: 240-0201-EMEL
-DW00-0002 SHEET 2

MCCB 100AF 40AT 3P

MCCB 100AF 40AT 3P

MCCB 100AF 40AT 3P

MCCB 100AF 52AT 3P

MCCB+RCD /30mA 100AF 63AT 4P

MCCB+RCD /30mA 100AF 63AT 4P

MCCB+RCD /30mA 100AF 63AT 4P

MCCB+RCD /30mA 100AF 63AT 4P

MCCB+RCD /30mA 100AF 63AT 4P

MCCB 125AF 125AT 3P

4CX10 mm[2] C-501-P01

4CX10 mm[2] C-502-P01

4CX10 mm[2] C-503-P01

4CX10 mm[2] SPARE-1-P01

4CX16 mm[2] SPARE-2-P01

4CX16 mm[2] SPARE-3-P01

4CX16 mm[2] SPARE-4-P01

4CX16 mm[2] SPARE-5-P01

SPARE FOR FUTURE SIMILAR PLANT

UTILITY AIR COMPRESSOR LOCAL CONTROL PANEL C-501 15kW

UTILITY AIR COMPRESSOR LOCAL CONTROL PANEL C-502 15kW

UTILITY AIR COMPRESSOR LOCAL CONTROL PANEL C-503 15kW

Socket outlets will remain at plant area with require cable. All other necessary socket and plug in respect to requirement.

Socket outlets will remain at plant area with require cable. All other necessary socket and plug in respect to requirement.

Socket outlets will remain at plant area with require cable. All other necessary socket and plug in respect to requirement.

Socket outlets will remain at plant area with require cable. All other necessary socket and plug in respect to requirement.

3pin 4 pin outlet with supply of 100 meter exposure proof appropriate size of cable & cable management in respect to capacity of outlet each.

O2-MCC-1402

BUSBAR GROUP-B 400 VAC, 50HZ, 3PH, N, 4W 500A, 25kA, 1SEC

FROM: 240-0214-EMEL
-DW00-0002 SHEET 1

MCCB 100AF 40AT 3P

MCCB 100AF 40AT 3P

MCCB 100AF 25AT 3P

MCCB 100AF 16AT 3P

4CX35 mm[2] DOMESTIC-P01

4CX10 mm[2] MCC ROOM-P01

DOMESTIC & OFFICE USES 50kW

GENERATOR & MCC ROOM DISTRIBUTION PANEL 10kW

SPARE

SPARE

REV	DATE	APPR'D			
CLIENT APPROVAL					
A	ISSUED FOR APPROVAL	AS MH YG 2015.10.28			
REV	DESCRIPTION	PREP'D	CHK'D	APP'D	DATE
REVISIONS					
FOR					
BANGLADESH PETROLEUM EXPLORATION & PRODUCTION CO. LTD					
CONSORTIUM OF ZICOM EQUIPMENT PTE. LTD. AND SINOPEC PETROLEUM ENGINEERING CORPORATION					
60 MMSCFD SILICAGEL DEHYDRATION TYPE NATURAL GAS PROCESS PLANT					
TITLE SINGLE LINE DIAGRAM FOR MCC					
FORMAT	DRAWING NO. 240-0214-EMEL-DW00-0002				REVISION
A2	SCALE NTS SHEET 2 OF 5				A
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02-MCC-1403

BUSBAR GROUP-A

400 VAC, 50HZ, 3PH, N, 4W 1500A, 25kA, 1SEC

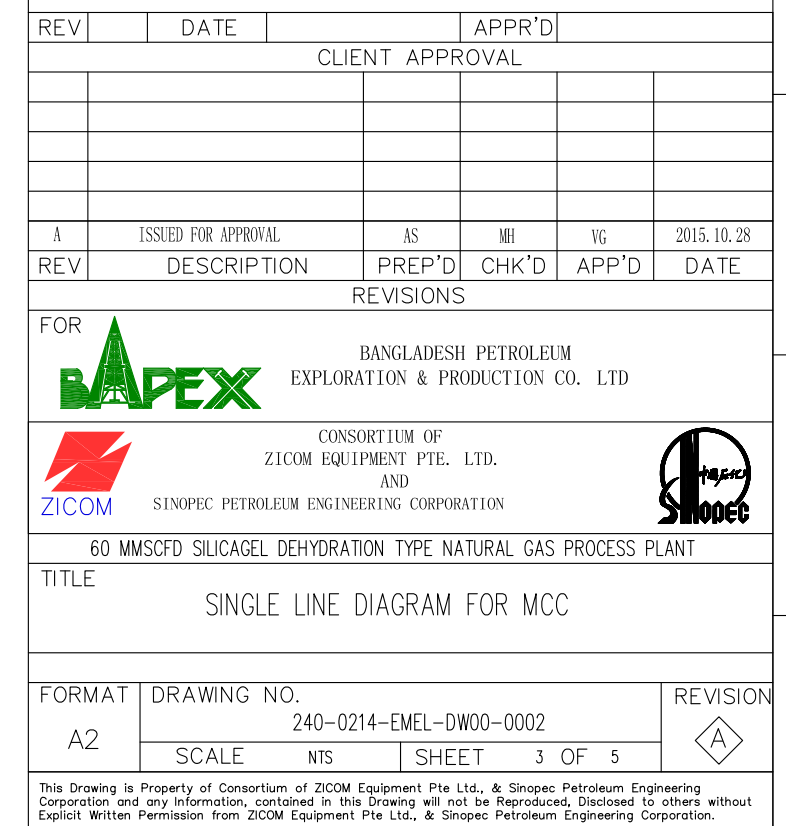
FROM: 240-0201-EMEL
DW00-0002 SHEET 2

The diagram illustrates the electrical connections from Busbar Group A to various loads. The busbar is a horizontal line at the top. Each load is connected via a vertical line that includes a circuit breaker (MCCB) and an isolator (MC). The loads are as follows:

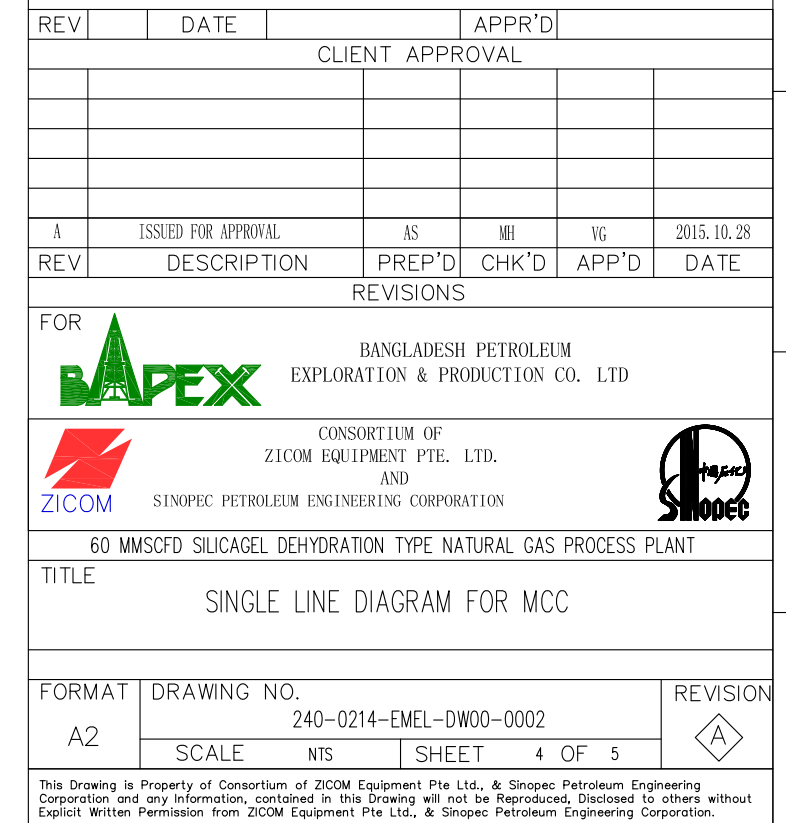
- UPS-1 6kVA:** Connected via MCCB 100A 32A 2P and MC 12AMP AC-3 5.5kW. Cable: 3CX4 mm[2].
- UPS-2 6kVA:** Connected via MCCB 100A 32A 2P and MC 12AMP AC-3 5.5kW. Cable: 3CX4 mm[2].
- UPS-3 1kVA:** Connected via MCCB 100A 32A 2P and MC 12AMP AC-3 5.5kW. Cable: 3CX4 mm[2].
- CONDENSATE TRANSFER PUMP P-100A 5.5kW:** Connected via MCCB 3P 100AF 20AT and MC 12AMP AC-3 5.5kW. Cable: 12CX1.5 mm[2].
- CONDENSATE TRANSFER PUMP P-100B 5.5kW:** Connected via MCCB 3P 100AF 20AT and MC 12AMP AC-3 5.5kW. Cable: 12CX1.5 mm[2].
- COOLING WATER PUMP P-200A 5.5kW:** Connected via MCCB 3P 100AF 20AT and MC 12AMP AC-3 5.5kW. Cable: 12CX1.5 mm[2].
- COOLING WATER PUMP P-200B 5.5kW:** Connected via MCCB 3P 100AF 20AT and MC 12AMP AC-3 5.5kW. Cable: 12CX1.5 mm[2].
- DRY AIR COOLER E-100(1) 22kW:** Connected via MCCB 3P 100AF 63AT and MC 12AMP AC-3 5.5kW. Cable: 4CX16 mm[2].
- DRY AIR COOLER E-100(2) 22kW:** Connected via MCCB 3P 100AF 63AT and MC 12AMP AC-3 5.5kW. Cable: 4CX16 mm[2].
- DRY AIR COOLER E-100(3) 15kW:** Connected via MCCB 3P 100AF 40AT and MC 32AMP AC-3 15kW. Cable: 4CX10 mm[2].
- SPARE:** Two spare connections are shown at the end of the busbar.

Legend:

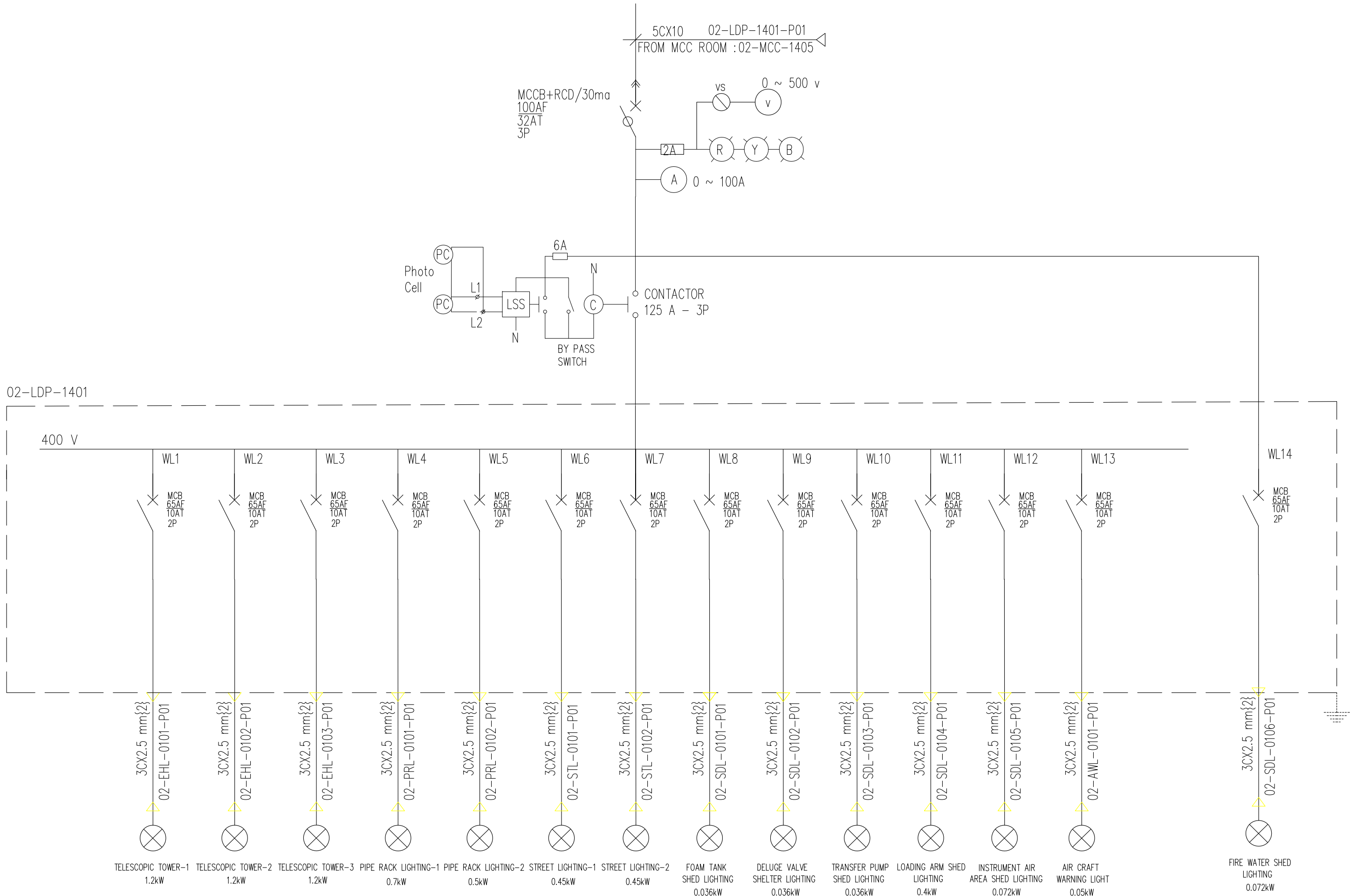
- UPS: UPS
- CONDENSATE TRANSFER PUMP: M
- COOLING WATER PUMP: M
- DRY AIR COOLER: M
- SPARE: SPARE







BUSBAR GROUP-A 400 VAC, 50HZ, 3PH, N, 4W 1500A, 25kA, 1SEC



LIGHT PANEL



REV	DATE	CLIENT APPROVAL			APPR'D
A	ISSUED FOR APPROVAL	AS	MH	VG	2015.10.28
REV	DESCRIPTION	PREP'D	CHK'D	APP'D	DATE
REVISIONS					
FOR					
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ZICOM					
60 MMSCFD SILICAGEL DEHYDRATION TYPE NATURAL GAS PROCESS PLANT					
TITLE					
SINGLE LINE DIAGRAM FOR MCC					
FORMAT					
A2	DRAWING NO. 240-0214-EMEL-DW00-0002				REVISION 
	SCALE	NTS	SHEET	5 OF 5	
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