

	PROJECT	CITY GAS DISTRIBUTION NETWORK AMBALA & KURUKSHETRA
	CLIENT	HOGPL (HPCIL GAS PRIVATE LIMITED)
	CONTRACTOR	KULDEEP KUMAR CONTRACTOR KARNAL, HARYANA
	CONSULTANT	M/s. VCS QUALITY SERVICES PVT. LTD.
	MANUFACTURER	 Expert Engineers Electrical Control Panel Manufacturers

JOB No: EE/2021-22/DO225	REVISION No: 03	DATE: 16.02.2022	
SUBMITTED FOR  APPROVAL	INFORMATION	RECORD	CONSTRUCTION

S.No	TITLE	QTY	DRAWING No	ISSUING DATE	SHEET QTY
1	GENERAL NOTES	01	EE/2021-22/DO225	16.02.2022	01
2	SYMBOLS	01	EE/2021-22/DO225	16.02.2022	01
4	GA DRAWING	03	EE/2021-22/DO225	16.02.2022	03
4	SLD	16	EE/2021-22/DO225	16.02.2022	16
4	BILL OF MATERIAL	09	EE/2021-22/DO225	16.02.2022	09

GENERAL NOTES :

FABRICATION/PAINITING :

1. ALL DIMENSIONS ARE IN MM.
2. THE PANEL BOARD SHALL BE CURICAL DESIGN, UNIFORM DEPTH, COMPARTMENTALIZED, DUST AND VERMIN PROOF, TOTALLY ENCLOSED.
3. THE PANEL BOARD SHALL BE SUITABLE FOR FLOOR MOUNTING AS MENTIONED IN DRAWING.
4. CABLE SHALL BE TERMINATED WITH CABLE GLANDS FROM BOTTOM ENTRY AS MENTIONED IN DRAWING.
5. THE PANEL SHALL BE FABRICATED WITH:
 - (I) BOX/DOOR - AS MENTIONED IN DRAWING
 - (II) MOUNTING PLATE - AS MENTIONED IN DRAWING
6. THE DEGREE OF PROTECTION OF PANEL BOARD AS MENTIONED IN DRAWING.
7. THE BOARD SHALL BE OVEN DRIED PP POWDER COATED WITH TEXTURE SIEMENS/LIGHT GRAY SHADE RAL-7035 , MOUNTING PLATES & LOAD BEARING VIF BLUE COLOR. ✓
8. SHEET METAL SHALL BE PROCESSED WITH SEVEN TANK PROCESS BEFORE POWDER COATING I.e. DEGREASING, WATER RINSING, DERUSTING, WATER RINSING, SURFACE ACTIVATION, PHOSPHATING, WATER RINSING. ✓

WIRING :

1. ALL CONTROL WIRING SHALL BE DONE WITH FR PVC INSULATED CU FLEXIBLE WIRE (1100V GRADE) AS UNDER:-
 - (A) AC CURRENT CIRCUIT : 2.5 SQ MM CU WIRE (RED, YELLOW, BLUE & BLACK COLOUR)
 - (B) AC VOLTAGE CIRCUIT : 1.5 SQ MM CU WIRE (RED, YELLOW, BLUE & BLACK COLOUR)
 - (C) OTHER AUX. AC CIRCUIT : 1.5 SQ MM CU WIRE (GRAY COLOUR)
 - (D) EARTH WIRE CIRCUIT : 2.5 SQ MM CU WIRE (GREEN COLOUR)
 - (E) POTENTIAL FREE CIRCUIT : 1.5 SQ MM CU WIRE (GRAY COLOUR)
2. ALL DOOR SHALL BE EARTHED WITH MAIN FRAME THROUGH 2.5 SQ MM FLEXIBLE COPPER WIRE.
3. ALL FEEDERS UP TO 63A SHALL BE CONNECTED WITH PRLS COPPER FLEXIBLE CABLE & ABOVE WITH SUITABLE BUS BAR.
4. ALL POWER WIRING SHALL BE DONE THROUGH SUITABLE SIZE SINGLE CORE IN RESPECTIVE COLOURS FOR METERING.
5. ALL PANEL SHALL BE FINALLY COMPLETE AS PER APPROVED BOQ IF ANY DISCREPANCY WITH SLD.
6. FINALLY ALL DEVICE CONNECTIONS SHALL BE AS PER CIRCUIT DIAGRAM PROVIDED.

ASSEMBLY :

1. THE PANEL BOARD SHALL BE SUITABLE FOR 3PH, 4 WIRE 415V, 50HZ, AC SUPPLY SYSTEM.
2. BUS BAR SHALL BE ELECTROLYTIC GRADE ALUMINIUM AS MENTIONED IN GA/SLD AND SUPPORTED ON NON-HYGRSCOPIC, NON-CARBONIZING, CORROSION RESISTANCE SMC/DRC. INSULATORS, EARTH BUS STRIP SHALL BE PROVIDED THROUGHOUT THE PANEL.
3. THE BUS BAR SHALL BE INSULATED WITH RED, YELLOW, BLUE & BLACK COLOUR HEAT SHRINKABLE PVC SLEEVES FOR PHASE IDENTIFICATION.
4. EACH FEEDER SHALL BE PROVIDED WITH INDIVIDUAL INSCRIPTION PLATE MADE OUT OF BLUE ANODIZED ALUMINIUM SHEET WITH LASER MARKED LETTERS.
5. SHROUDING SHALL BE DONE WITH (FR-2) POLYCARBONATE/MAKELITE MATERIAL.
6. THE DOORS/COVERS SHALL BE PROVIDED WITH NEOPRENE/FOAM GASKET TO MAKE IT DUST PROOF.
7. THE MINIMUM CLEARANCE IN MAIN BUS BAR (HORIZONTAL/VERTICAL) SHALL BE AS FOLLOWS :
 - (A) BETWEEN PHASE TO PHASE : 25 MM
 - (B) BETWEEN PHASE TO NEUTRAL : 19 MM
 - (C) BETWEEN PHASE TO EARTH : 19 MM
 - (D) BETWEEN NEUTRAL TO EARTH : 19 MM

BUS BAR TEMPERATURE DETAILS :

- * Operating Temperature of Bus bar (θ)=65°C.
- * Final Temperature of Bus bar during Fault (θ_f)=165°C.
- * Temperature rise of Bus Bar Bar during Fault (θ_r)=100°C.
- * Ambient Temperature (θ_a)=45°C.
- * Maximum Bus Bar Temperature Rise=90°C.

TESTING :

1. FOLLOWING TEST SHALL BE CARRIED OUT ON COMPLETION OF PANEL AT WORKS :
 - (A) CHECKING OF BILL OF MATERIAL
 - (B) DIMENSIONAL CHECK
 - (C) MEGGAR (INSULATION RESISTANCE) TEST AS PER IS-9623
 - (D) HIGH VOLTAGE (DIELECTRIC STRENGTH) TEST AS PER IS-9623
 - (E) FUNCTIONAL TEST

MAKES OF COMPONENT

S.No.	COMPONENT	MAKE
1.	MCCB	C&S
2.	MCB	C&S
3.	METER (DIGITAL)	L&T
4.	C.T	A.E
5.	INDICATION LIGHT LED	L&T(ESBEE)
6.	PUSH BUTTON	L&T(ESBEE)
7.	SELECTOR SWITCH	L&T/SALZER

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Expert Engineers
Electrical Control Panel Manufacturers

WZ - 46, Gali No 1, Sath Nagar , Palam Colony,
New Delhi-110045, Mobile: 9971870008, 9711609607
Email : expert.enr@gmail.com



CRIL TESTED

PANEL SIZES		PROJECT	CITY GAS DISTRIBUTION NETWORK		TITLE: GENERAL NOTES COMMON			
HEIGHT			AMBALA & KURUKSHETRA		DATE:	16.02.2022	DWG NO.	EE/2021-22/DOJ25
WIDTH		CLIENT	HGRPL (HPOIL GAS PRIVATE LIMITED)		REV. NO.	R3	JOB NO.	
DEPTH		CONTRACTOR	KULDEEP KUMAR CONTRACTOR		DRAWN BY:	H.P.PANDEY	ENCL/BOY NO.	
RECOMMENDED ACCESSSES			KARNAL, HARYANA		CHECKED BY:	GAURAV GUPTA	CA. NO.	
FRONT		CONSULTANT	M/S. VCS QUALITY SERVICES		APPROVED BY:		SHEET NO.	01 OF 30
REAR			PVT. LTD.					

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S NO.	SYMBOL	DESCRIPTION	S NO.	SYMBOL	DESCRIPTION	S NO.	SYMBOL	DESCRIPTION
1.		MCB	14.		KWH METER (NA)	27.		INDICATING LIGHT
2.		ACRYLIC GLASS	15.		EARTHING	28.		CURRENT TRANSFORMER
3.		CHANGE OVER SWITCH(NA)	16.		OUT GOING TERMINAL	29.		ILLUMINATED PUSH BUTTON
4.		POWER CONTACTOR	17.		POWER FACTOR METER(NA)	30.		AMMETER SELECTOR SWT
5.		AUX. CONTACTOR	18.		N.C. CONTACT	31.		DIGITAL AMMETER (NA)
6.		STOP PUSH BUTTON	19.		N.O. CONTACT	32.		VOLTMETER SELECTOR SW
7.		START PUSH BUTTON	20.		FUSE	33.		DIGITAL VOLTMETER (NA)
8.		NEUTRAL LINK	21.		HOOTER (NA)	34.		AUTO/MANUAL SELECTOR
9.		OVERLOAD RELAY N.C. CONTACT	22.		PUSH BUTTON	35.		AIR CIRCUIT BREAKER (NA)
10.		OVER LOAD RELAY (NA)	23.		CAPACITOR (NA)	36.		LOUVERS
11.		TIMER (NA)	24.		GENERATOR (NA)	37.		FAN
12.		DIMMER (NA)	25.		LINE CHECK (NA)	38.		DOOR HANDLE (NA)
13.		MCCB	26.		EMG. STOP (NA)	39.		MPCB



Expert Engineers
Electrical & Control Panel Manufacturers
WZ - 46, Gal No 1, Sach Nagar, Pitam Colony,
New Delhi-110045, Mobile: 9971870008, 9711609607
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PANEL SIZES	
HEIGHT	
WIDTH	
DEPTH	
RECOMMENDED ACCESSSES	
FRONT	
REAR	

PROJECT	CITY GAS DISTRIBUTION NETWORK AMBALA & KURUKSHETRA
CLIENT	HOGPL (HPOIL GAS PRIVATE LIMITED)
CONTRACTOR	KULDEEP KUMAR CONTRACTOR KARNAL, HARYANA
CONSULTANT	M/S. VCS QUALITY SERVICES PVT. LTD.

TITLE: SYMBOLS COMMON	
DATE:	16-02-2022
DRAWN BY:	H.P.PANDEY
CHECKED BY:	GAURAV GUPTA
APPROVED BY:	
DWG NO.	EE/2021-22/00225
REV. NO.	R3
JOB NO.	
ENQUIRY NO.	
QA. NO.	
SHEET NO.	02 OF 30

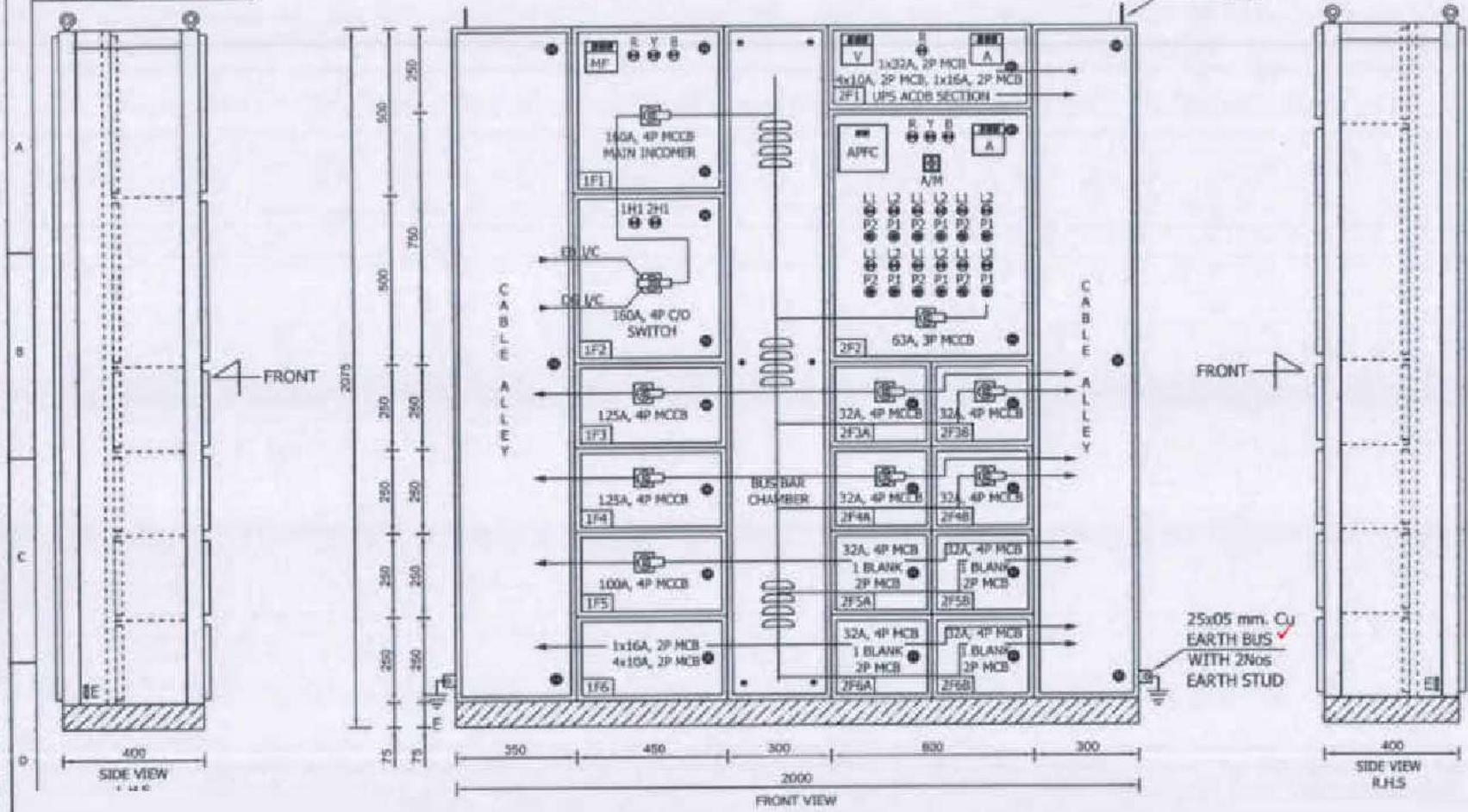
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ALL DIMENSIONS ARE IN MM

IF ANY DOUBT, PLEASE ASK

LIFTING HOOK

SCALE : N.T.S.



LEGENDS	DESCRIPTION
MFM	MULTIFUNCTION METER
R	PHASE INDICATION RED
Y	PHASE INDICATION YELLOW
B	PHASE INDICATION BLUE
MCCB	MOULDED CASE CIRCUIT BREAKER
MCB	MINIATURE CIRCUIT BREAKER
APFC	AUTOMATIC POWER FACTOR CORRECTION RELAY
A/M	AUTO/MANUAL SELECTOR SWITCH
P1	STOP PUSH BUTTON 'RED'
P2	START PUSH BUTTON 'GREEN'
L1	ON INDICATING LAMP 'RED'
L2	OFF INDICATING LAMP 'GREEN'
A	AMMETER
V	VOLT METER

Quantity as per SOR
 1) Ambala 07
 2) Kolhapur 11
TOTAL 18

PANEL QTY:-22Nos
 ALL DIMENSIONS ARE IN MM
 ✓ DEGREE OF PROTECTION-IP42 (INDOOR)
 FLOOR MOUNTING TYPE

SHEET THICKNESS	
ENCLOSURE-2.0MM	✓
GLAND PLATES - 3MM	✓
BASE FRAME - 25x40x3MM	✓
CABLE ENTRY - BOTTOM & Bottom	

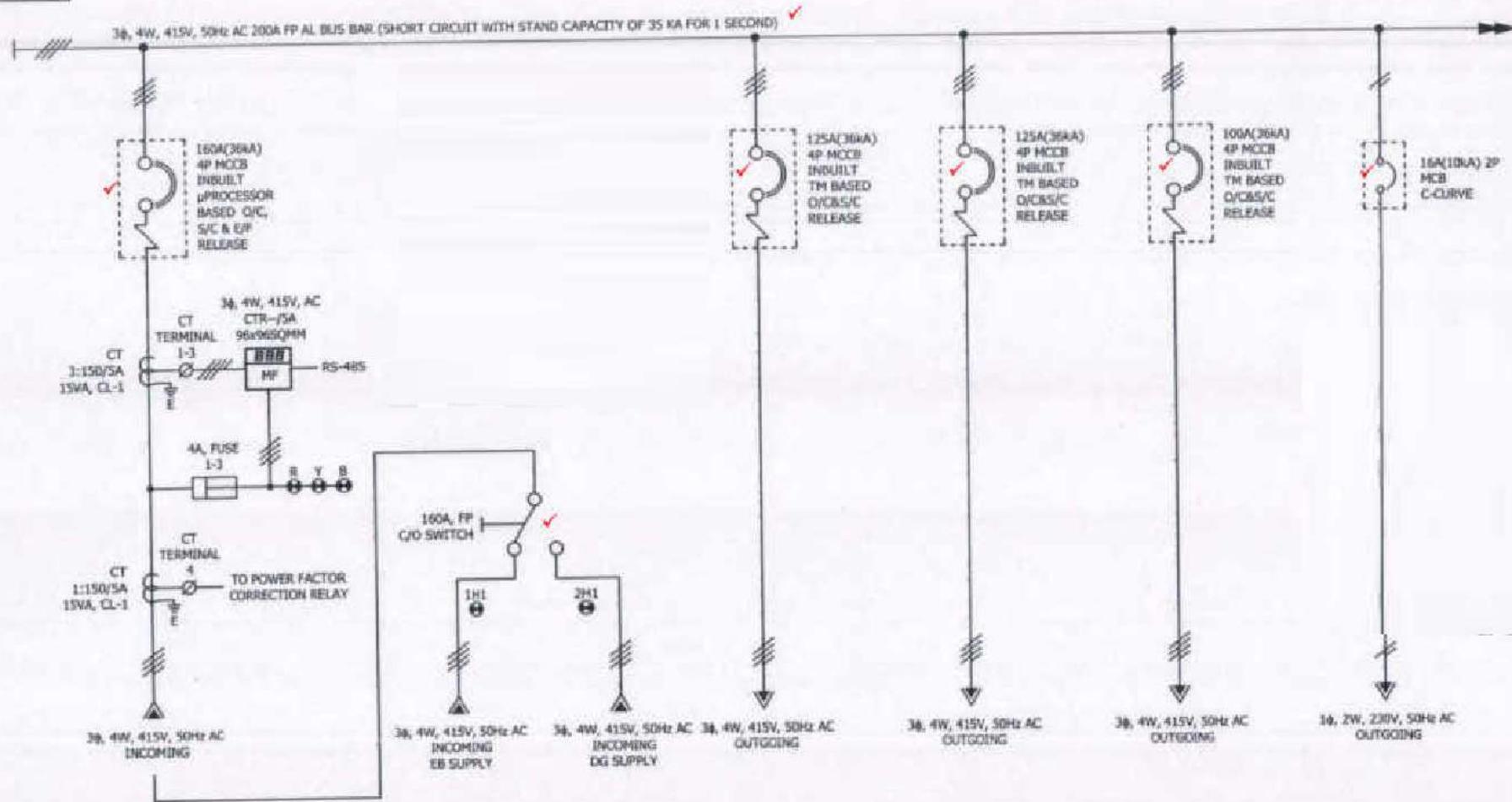
MAIN BUS BAR SIZE :-	
FOR PHASE	1.20x10 mm. AL
FOR NEUTRAL	1.20x10 mm. AL
FOR EARTH	1.25x05 mm. Cu
COLOUR OF ENCLOSURE	RAL 7035
COLOUR OF BASE FRAME	BLACK

Provide gland plate at the top also

CNG 400/250-50HP ELECTRIC MOTOR DRIVEN COMPRESSOR DBS

<p>Expert Engineers Electrical Control Panel Manufacturers WZ - 46, Gali No 1, Sach Nagar, Palm Colony, New Delhi-110045, Mobile: 9971870006, 9711609607 Email: expert.rshi@gmail.com</p>	<p>CPRI TESTED</p>	<table border="1"> <thead> <tr> <th colspan="2">PANEL SIZES</th> </tr> </thead> <tbody> <tr> <td>HEIGHT</td> <td>2075 MM</td> </tr> <tr> <td>WIDTH</td> <td>2000 MM</td> </tr> <tr> <td>DEPTH</td> <td>400 MM</td> </tr> <tr> <th colspan="2">RECOMMENDED ACCESSES</th> </tr> <tr> <td>FRONT</td> <td>---</td> </tr> <tr> <td>REAR</td> <td>---</td> </tr> </tbody> </table>	PANEL SIZES		HEIGHT	2075 MM	WIDTH	2000 MM	DEPTH	400 MM	RECOMMENDED ACCESSES		FRONT	---	REAR	---	<table border="1"> <tr> <td>PROJECT</td> <td>CITY GAS DISTRIBUTION NETWORK AMBALA & KURUKSHETRA</td> </tr> <tr> <td>CLIENT</td> <td>HOGPL (HPOIL GAS PRIVATE LIMITED)</td> </tr> <tr> <td>CONTRACTOR</td> <td>KULDEEP KUMAR CONTRACTOR KARNAL, HARYANA</td> </tr> <tr> <td>CONSULTANT</td> <td>M/S. VCS QUALITY SERVICES PVT. LTD.</td> </tr> </table>	PROJECT	CITY GAS DISTRIBUTION NETWORK AMBALA & KURUKSHETRA	CLIENT	HOGPL (HPOIL GAS PRIVATE LIMITED)	CONTRACTOR	KULDEEP KUMAR CONTRACTOR KARNAL, HARYANA	CONSULTANT	M/S. VCS QUALITY SERVICES PVT. LTD.	<table border="1"> <tr> <td>TITLE:</td> <td colspan="3">GENERAL ARRANGEMENT DRAWING MED (MAIN ELECTRICAL DISTRIBUTION) PANEL</td> </tr> <tr> <td>DATE:</td> <td>16.02.2022</td> <td>DWG NO.</td> <td>EE/2021-22/DO225</td> </tr> <tr> <td>DRAWN BY:</td> <td>H.P.PANDEY</td> <td>REV. NO.</td> <td>03</td> </tr> <tr> <td>CHECKED BY:</td> <td>GAURAV GUPTA</td> <td>JOB NO.</td> <td></td> </tr> <tr> <td>APPROVED BY:</td> <td></td> <td>INDUSTRY NO.</td> <td></td> </tr> <tr> <td></td> <td></td> <td>QA. NO.</td> <td></td> </tr> <tr> <td></td> <td></td> <td>SHEET NO.</td> <td>03 OF 30</td> </tr> </table>	TITLE:	GENERAL ARRANGEMENT DRAWING MED (MAIN ELECTRICAL DISTRIBUTION) PANEL			DATE:	16.02.2022	DWG NO.	EE/2021-22/DO225	DRAWN BY:	H.P.PANDEY	REV. NO.	03	CHECKED BY:	GAURAV GUPTA	JOB NO.		APPROVED BY:		INDUSTRY NO.				QA. NO.				SHEET NO.	03 OF 30
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IF ANY DOUBT, PLEASE ASK



FEEDER No.	IF1	IF2	IF3	IF4	IF5	IF6
FEEDER RATING	160A, MCCB	160A, C/O SWITCH	125A, MCCB	125A, MCCB	100A, MCCB	16A, MCB
FEEDER DESCRIPTION	MAIN INCOMER	INCOMER MAINS/DG	ELECTRIC COMPRESSOR MOTOR 22/32KW	COMPRESSOR SPARE	SPARE	SPARE
CABLE SIZE	---	---	---	---	---	---

ONG 400/250 SCMH ELECTRIC MOTOR DRIVEN COMPRESSOR DBS



Expert Engineers
 Electrical Contracting & Maintenance
 WZ - 46, Gali No 1, South Nagar, Palam Colony,
 New Delhi-110045, Mobile: 9971870008, 9711609607
 Email : expert_1984@gmail.com



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PANEL SIZES	
HEIGHT	
WIDTH	
DEPTH	
RECOMMENDED ACCESSSES	
FRONT	
REAR	

PROJECT	CITY GAS DISTRIBUTION NETWORK AMBALA & KURUKSHETRA
CLIENT	HDCPL (HFOIL GAS PRIVATE LIMITED)
CONTRACTOR	KULDEEP KUMAR CONTRACTOR KARNAL, HARYANA
CONSULTANT	M/s. VCS QUALITY SERVICES PVT. LTD.

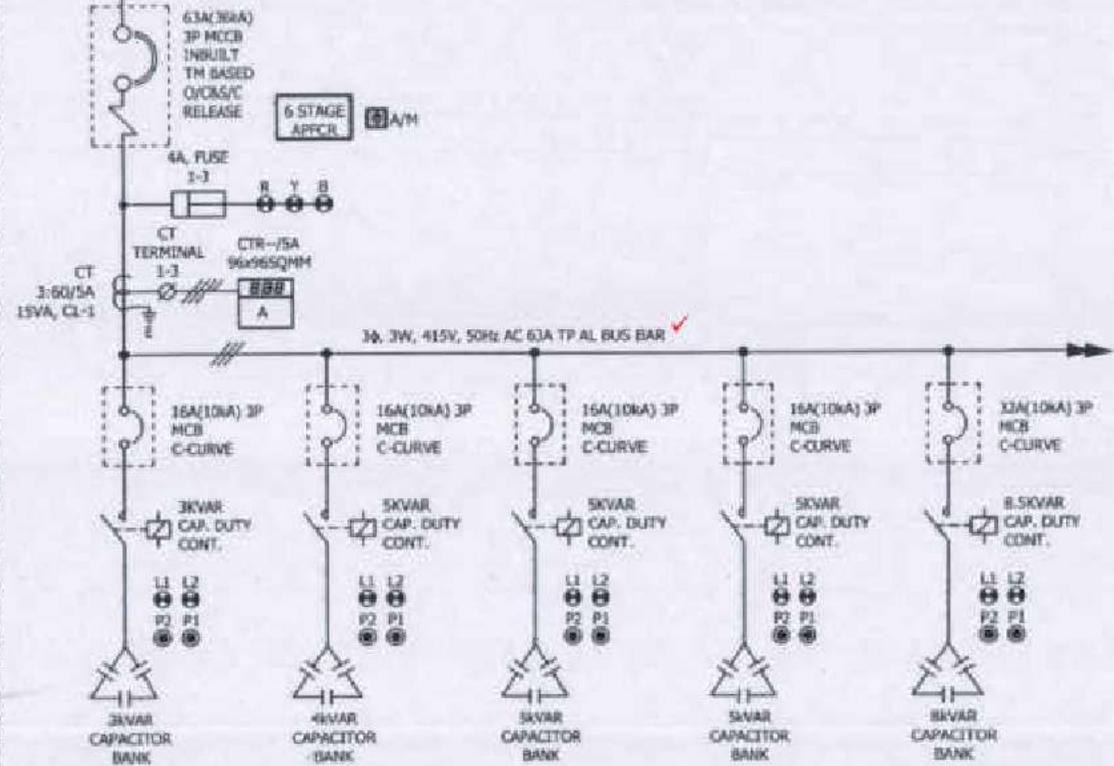
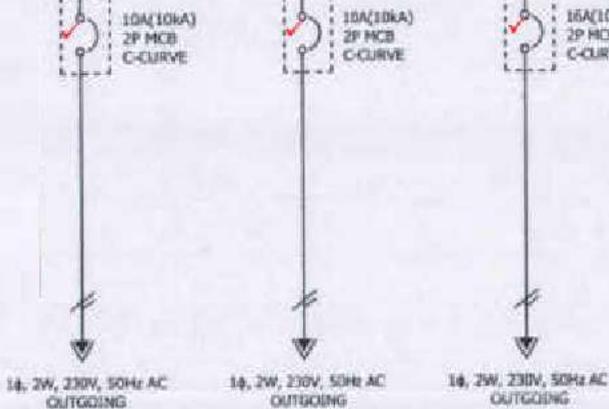
TITLE: SINGLE LINE DIAGRAM MED (MAIN ELECTRICAL DISTRIBUTION) PANEL			
DATE:	18.02.2022	DWG NO.	EE/2021-22/50225
DRAWN BY:	H.P.PANDEY	REV. NO.	03
CHECKED BY:	GAURAV GUPTA	JOB NO.	
APPROVED BY:		ENQUIRY NO.	
		ORA. NO.	
		SHEET NO.	04 OF 30

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3φ, 4W, 415V, 50Hz AC 200A TP AL BUS BAR (SHORT CIRCUIT WITH STAND CAPACITY OF 35 KA FOR 1 SECOND)

UPS ACDB SECTION

1φ, 2W, 230V, 50Hz AC (BUS WIRE)



FEEDER No.	2F1			2F2				
FEEDER RATING	10A, MCB	10A, MCB	15A, MCB	3KVAR	4KVAR	5KVAR	5KVAR	8KVAR
FEEDER DESCRIPTION	TO DISPENSER	SPARE	SPARE	CAP. BANK-1	CAP. BANK-2	CAP. BANK-3	CAP. BANK-4	CAP. BANK-5
CABLE SIZE	-----	-----	-----	-----	-----	-----	-----	-----

ENG 400/250 SCMH ELECTRIC MOTOR DRIVEN COMPRESSOR DRG



Expert Engineers
 Branch of Control Panel Manufacturers
 WZ - 46, Gali No-1, Sach Nagar, Palam Colony,
 New Delhi-110045, Mobile: 9971870008, 9711609607
 Email: expert.rishi@gmail.com



PANEL SIZES	
HEIGHT	
WIDTH	
DEPTH	
RECOMMENDED ACCESSSES	
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REAR	

PROJECT	CITY GAS DISTRIBUTION NETWORK ANBALA & KULRIKSHETRA
CLIENT	HOGLI (HPOIL GAS PRIVATE LIMITED)
CONTRACTOR	KULDEEP KUMAR CONTRACTOR KUNAL HARYANA
CONSULTANT	M/s. VES QUALITY SERVICES PVT. LTD.

TITLE: SINGLE LINE DIAGRAM MED (MAIN ELECTRICAL DISTRIBUTION) PANEL			
DATE:	16.07.2022	DWG. NO.	EE/2021-22/00225
REV. NO.		JOB NO.	R3
DRAWN BY:	H.P.PANDEY	ENQUIRY NO.	
CHECKED BY:	GAURAV GUPTA	DA. NO.	
APPROVED BY:		SHEET NO.	06 OF 30

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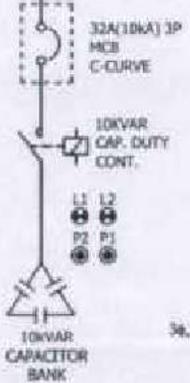
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SCALE : N.T.S.

3ø, 4W, 415V, 50Hz AC 200A FP AL BUS BAR (SHORT CIRCUIT WITH STAND CAPACITY OF 35 KA FOR 1 SECOND)



3ø, 3W, 415V, 50Hz AC 63A TP AL BUS BAR



3ø, 4W, 415V, 50Hz AC OUTGOING

FEEDER No.	2F2	2F3A	2F3B	2F4A	2F4B	2F5A	
FEEDER RATING	10KVAR	32A, MCCB	32A, MCCB	32A, MCCB	32A, MCCB	32A, MCB	SPACE FOR 2P, MCB
FEEDER DESCRIPTION	CAP. BANK-6	OUTDOOR LIGHTING	LIGHTING SPARE	SPARE (LIPS)	SPARE	AIR COMPRESSOR 1.5KW	BLANK PLATE
CABLE SIZE	---	---	---	---	---	---	---

ONG 400/250 50HP ELECTRIC MOTOR DRIVEN COMPRESSOR DRG



Expert Engineers
Electrical Control Panel Manufacturers
WZ - 46, Gali No 1, Sadh Nagar, Palam Colony,
New Delhi-110045, Mobile: 9971870008, 9711609607
Email : expert_ehi@gmail.com



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PANEL SIZES		PROJECT	CITY GAS DISTRIBUTION NETWORK AMBALA & KURUKSHETRA		TITLE: SINGLE LINE DIAGRAM MED (MAIN ELECTRICAL DISTRIBUTION) PANEL			
HEIGHT		CLIENT	HOGPL (HPOIL GAS PRIVATE LIMITED)		DATE:	16.02.2022	DWG NO.	EE/2021-22/DO225
WIDTH		CONTRACTOR	KULDEEP KUMAR CONTRACTOR KARNAL, HARYANA		DRAWN BY:	H.P.PANDEY	REV. NO.	00
DEPTH		CONSULTANT	M/S. VCS QUALITY SERVICES PVT. LTD.		CHECKED BY:	GAURAV GUPTA	JOB NO.	
RECOMMENDED ACCESSES					APPROVED BY:		ENQUIRY NO.	
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1	CNG-400/250 SCMH Electric Motor Driven Compressor DBS		
4	Ammeter with Inbuilt selector switch, 3Ph, Acc. Cl: 1, Aux Supply: 80-300V AC, Size: 96x96	L&T/C&S	1
5	6 Steps APFC Relay for Contactor Switching with 1 CT Input: 1A/5A, Size: 96x96, Voltage: 415V AC	L&T/C&S	1
6	6A 2P 2Way Local - Remote/ Auto-Manual Switch with Center OFF, 60 Deg. Operation	SALZER	1
7	5A 4P 240V AC Enclosed Miniature Plug in Relay with LED Indication, Type: MSP	SALZER	3
8	Closed Terminals Socket for MSP - 4 pole	SALZER	3
9	Red Gen Next Pro LED Indicator 22.5 mm, Voltage: 240V AC	ESBEE	1
10	Yellow Gen Next Pro LED Indicator 22.5 mm, Voltage: 240V AC	ESBEE	1
11	Blue Gen Next Pro LED Indicator 22.5 mm, Voltage: 240V AC	ESBEE	1
12	4 Sq. mm Fuse Terminal (Std. Color).Type: LIBDF 4	ELMEX	3
13	Fan 6"	Reputed	1
14	Filter	Reputed	2
J	O/G-10KVAR Cap Bank		
1	32A 3P 10KA, C-Curve MCB	L&T/C&S	1
2	10KVar 3Ph Heavy Duty PhiCap-Cylindrical 440V AC Capacitor	EPCOS	1
3	10KVar 3Ph Capacitor Duty Contactor, Auxiliary Contact: 1NO, Size: Fr 1, Voltage: 240V AC	L&T/C&S	1
4	1NO+1NC Add on Auxiliary Contact Block Side Mounting (First Left)	L&T/C&S	1
5	Red Flush Head Push Button 22.5 mm	ESBEE	1
6	Green Flush Head Push Button 22.5 mm	ESBEE	1
7	1NO Contact Block	ESBEE	1
8	1NC Contact Block	ESBEE	1
9	Red Gen Next Pro LED Indicator 22.5 mm, Voltage: 240V AC	ESBEE	1
10	Green Gen Next Pro LED Indicator 22.5 mm, Voltage: 240V AC	ESBEE	1
K	O/G-8KVAR Cap Bank		
1	32A 3P 10KA, C-Curve MCB	L&T/C&S	1
2	8kVar 3Ph Heavy Duty PhiCap-Cylindrical 440V AC Capacitor	EPCOS	1
3	8.5kVar 3Ph Capacitor Duty Contactor, Auxiliary Contact: 1NO, Size: Fr 1, Voltage: 240V AC	L&T/C&S	1
4	1NO+1NC Add on Auxiliary Contact Block Side Mounting (First Left)	L&T/C&S	1
5	Red Flush Head Push Button 22.5 mm	ESBEE	1
6	Green Flush Head Push Button 22.5 mm	ESBEE	1
7	1NO Contact Block	ESBEE	1
8	1NC Contact Block	ESBEE	1

CNG 400/250 SCMH ELECTRIC MOTOR DRIVEN COMPRESSOR DBS



Expert Engineers
Electrical Control Panel Manufacturers
WZ - 46, Gali No 1, Sadh Nagar, Palam Colony,
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Email : expert.rishi@gmail.com



CPRI TESTED

PANEL SIZES		PROJECT	CITY GAS DISTRIBUTION NETWORK AMBALA & KURUKSHETRA		TITLE: BILL OF MATERIAL MED (MAIN ELECTRICAL DISTRIBUTION) PANEL			
HEIGHT		CLIENT	HOGPL (HPOIL GAS PRIVATE LIMITED)		DATE:	16.02.2022	DWG NO.	EE/2021-22/00225
WIDTH		CONTRACTOR	KULDEEP KUMAR CONTRACTOR KARNAL HARYANA		DRAWN BY:	H.P.PANDEY	REV. NO.	03
DEPTH		CONSULTANT	MVL VCS QUALITY SERVICES PVT. LTD.		CHECKED BY:	GAURAV GUPTA	JOB NO.	
RECOMMENDED ACCESSSES					APPROVED BY:		ENQUIRY NO.	
FRONT							QA. NO.	
REAR							SHEET NO.	10 OF 30

IF ANY DOUBT, PLEASE ASK

SCALE : N.T.S.

1	CNG 400/250 SCMH Electric Motor Driven Compressor DBS		
9	Red Gen Next Pro LED Indicator 22.5 mm, Voltage: 240V AC	ESBEE	1
10	Green Gen Next Pro LED Indicator 22.5 mm, Voltage: 240V AC	ESBEE	1
0	UPS ACDB I/C		
1	32A 2P 10kA, C-Curve MCB	L&T/C&S	1
2	Ammeter, 1Ph, Acc. CL- 1, Aux Supply: 80-300V AC, Size: 96x96	L&T/C&S	1
3	Voltmeter, 1Ph, Acc. CL- 1, Aux Supply: 80-300V AC, Size: 96x96	L&T/C&S	1
4	50/5A 15VA Acc. CI: 1 Ring Type Current Transformer, ID: 30mm	AE	1
5	Red Gen Next Pro LED Indicator 22.5 mm, Voltage: 240V AC	ESBEE	1
6	4 Sq.mm Fuse Terminal (Std. Color), Type: UBDP 4	ELMER	1
P	O/G-MCB 10A 2P+Spere		
1	10A 2P 10kA, C-Curve MCB	L&T/C&S	4
Q	O/G-MCB 16A 2P Spare		
1	16A 2P 10kA, C-Curve MCB	L&T/C&S	1

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CNG 400/250 SCMH ELECTRIC MOTOR DRIVEN COMPRESSOR DBS



Expert Engineers
 Bank of Control Panel Manufacturers
 WZ - 46, Gali No 1, Sadh Nagar, Palam Colony,
 New Delhi-110045, Mobile: 9971870008, 9711609607
 Email : expert.rishi@gmail.com



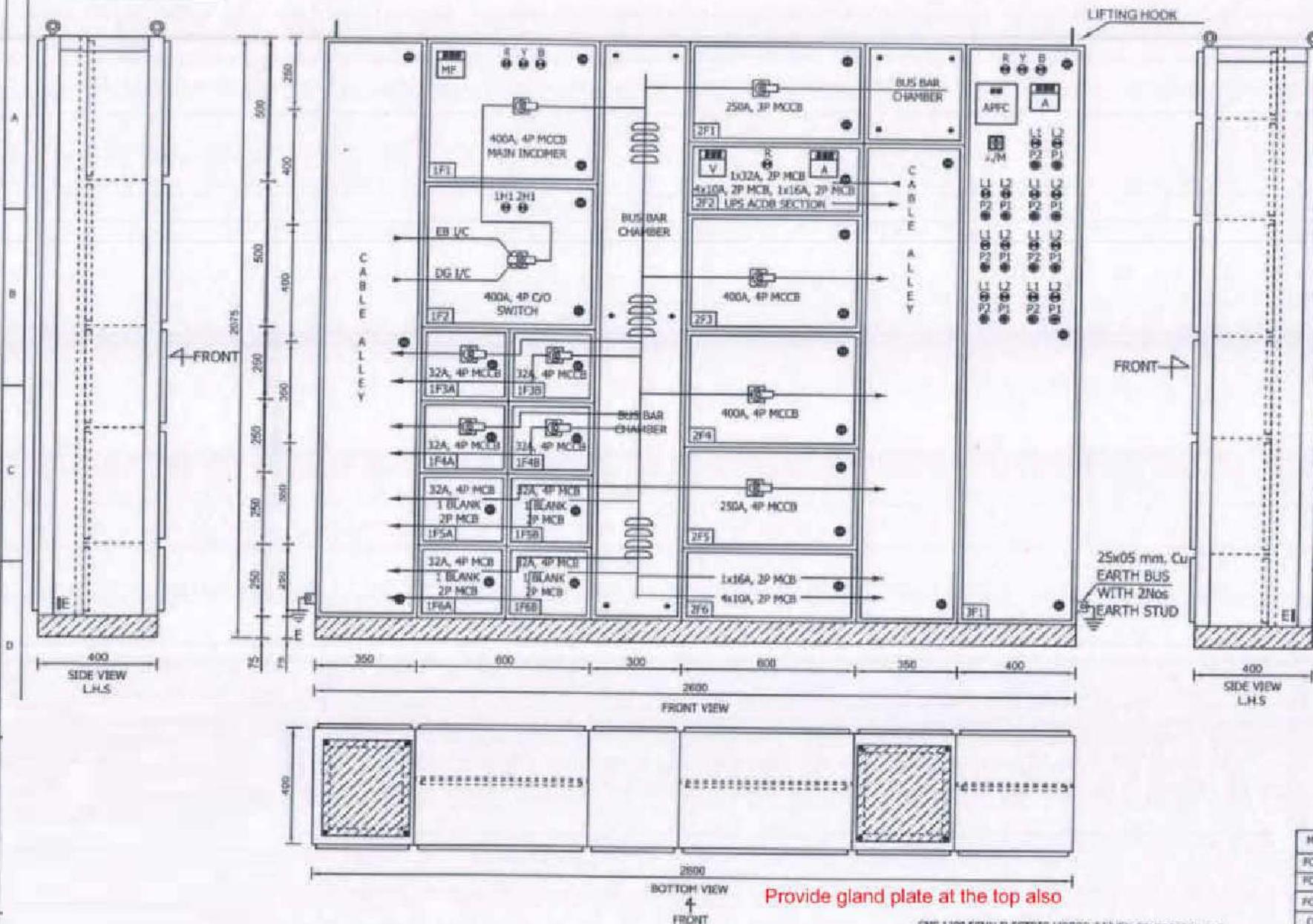
CPRI TESTED

PANEL SIZES		PROJECT	TITLE:	
HEIGHT		CITY GAS DISTRIBUTION NETWORK AMBALA & KURUKSHETRA	BILL OF MATERIAL MED (MAIN ELECTRICAL DISTRIBUTION) PANEL	
WIDTH		CLIENT	DATE:	16.02.2022
DEPTH		HOGPL (HPOIL GAS PRIVATE LIMITED)	DRAWN BY:	H.P.PANDEY
RECOMMENDED ACCESSSES		CONTRACTOR	CHECKED BY:	GAURAV GUPTA
FRONT		KULDEEP KUMAR CONTRACTOR KARNAL, HARYANA	APPROVED BY:	
REAR		CONSULTANT	M/s. VCS QUALITY SERVICES PVT. LTD.	
			DRWG NO.	EE/2021-22/0025
			REV. NO.	03
			JOB NO.	
			ENQUIRY NO.	
			QA. NO.	
			SHEET NO.	12 OF 30

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LEGENDS	DESCRIPTION
MFM	MULTIFUNCTION METER
R	PHASE INDICATION RED
Y	PHASE INDICATION YELLOW
B	PHASE INDICATION BLUE
MCCB	MOLDED CASE CIRCUIT BREAKER
MCB	MINIATURE CIRCUIT BREAKER
APFC	AUTOMATIC POWER FACTOR CORRECTION RELAY
AM	AUTO/MANUAL SELECTOR SWITCH
F1	STOP PUSH BUTTON 'RED'
F2	START PUSH BUTTON 'GREEN'
L1	ON INDICATING LAMP 'RED'
L2	OFF INDICATING LAMP 'GREEN'
A	AMMETER
V	VOLT METER

Quantity as per SOR
 1) Ambala 03
 2) Kolhapur 01
TOTAL 04

PANEL QTY: - 06Nos
 ALL DIMENSIONS ARE IN MM
 DEGREE OF PROTECTION-IP42 (INDOOR)
 FLOOR MOUNTING TYPE

SHEET THICKNESS	
ENCLOSURE-2.0MM	✓
GLAND PLATES - 3MM	✓
BASE FRAME - 75x40x3MM	✓
CABLE ENTRY - BOTTOM & Bpottom	

MAIN BUS BAR SIZE :-	
FOR PHASE	1:20x10 mm. AL
FOR NEUTRAL	1:20x10 mm. AL
FOR EARTH	1:25x05 mm. Cu
COLOUR OF ENCLOSURE	RAL 7035
COLOUR OF BASE FRAME	BLACK

Provide gland plate at the top also

ONG 1200 SCMH ELECTRIC MOTOR DRIVEN COMPRESSOR OLS

Expert Engineers
 (Specialized Custom Panel Manufacturers)
 WZ - 46, Gali No 1, Sadh Nagar, Palam Colony,
 New Delhi-110045, Mobile: 9971870008, 9731609507
 Email : expert.rajni@gmail.com

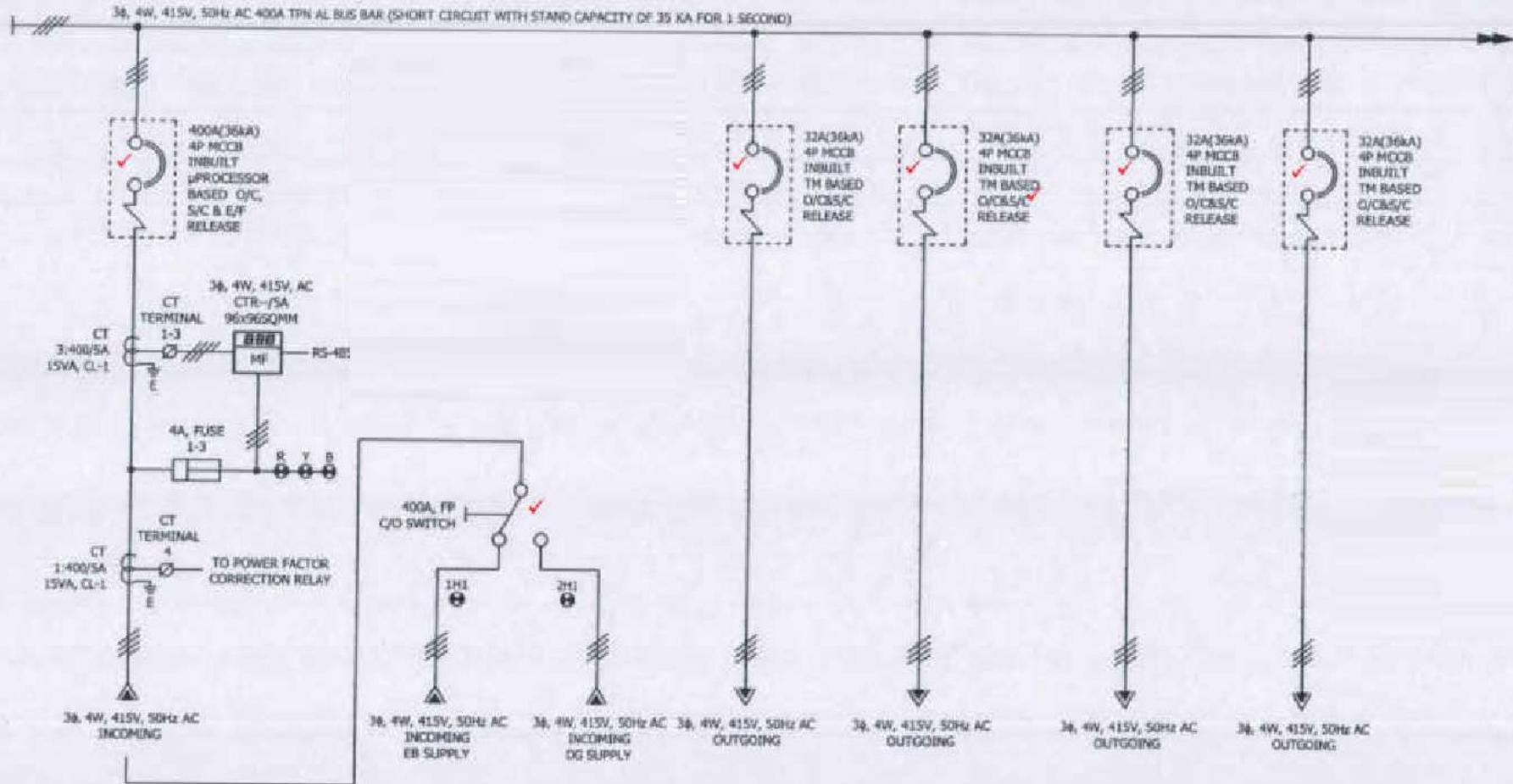


PANEL SIZES	
HEIGHT	2075 MM
WIDTH	2600 MM
DEPTH	400 MM
RECOMMENDED ACCESSES	
FRONT	---
REAR	---

PROJECT	CITY GAS DISTRIBUTION NETWORK AMBALA & KURUKSHETRA
CLIENT	NOGRL (HP OIL GAS PRIVATE LIMITED)
CONTRACTOR	KULDEEP KUMAR CONTRACTOR KARNAL, HARYANA
CONSULTANT	M/S. VCS QUALITY SERVICES PVT. LTD.

TITLE: GENERAL ARRANGEMENT DRAWING MED (MAIN ELECTRICAL DISTRIBUTION) PANEL			
DATE:	16.02.2022	DWG NO.	EE/2021-22/DO225
DRAWN BY:	H.P.PANDEY	REV. NO.	03
CHECKED BY:	GAURAV GUPTA	JOB NO.	
APPROVED BY:		ENQUIRY NO.	
		DA. NO.	
		SHEET NO.	13 OF 30

L. DIMENSIONS ARE IN MM



FEEDER No.	1F1	1F2	1F3A	1F3B	1F4A	1F4B
FEEDER RATING	400A, MCCB	400A, C/O SWITCH	32A, MCCB	32A, MCCB	32A, MCCB	32A, MCCB
FEEDER DESCRIPTION	MAIN INCOMER	INCOMER MAINS/DG	OUTDOOR LIGHTING	LIGHTING SPARE	SPARE (UPS)	SPARE
CABLE SIZE	---	---	---	---	---	---

ONG 1200 SCMH ELECTRIC MOTOR DRIVEN COMPRESSOR OLS



Expert Engineers
 Electrical & Control Panel Manufacturers
 WZ - 45, Gali No 1, Sach Nagar, Palam Colony,
 New Delhi-110045, Mobile: 9071870008, 9711609607
 Email: expert.rishi@gmail.com



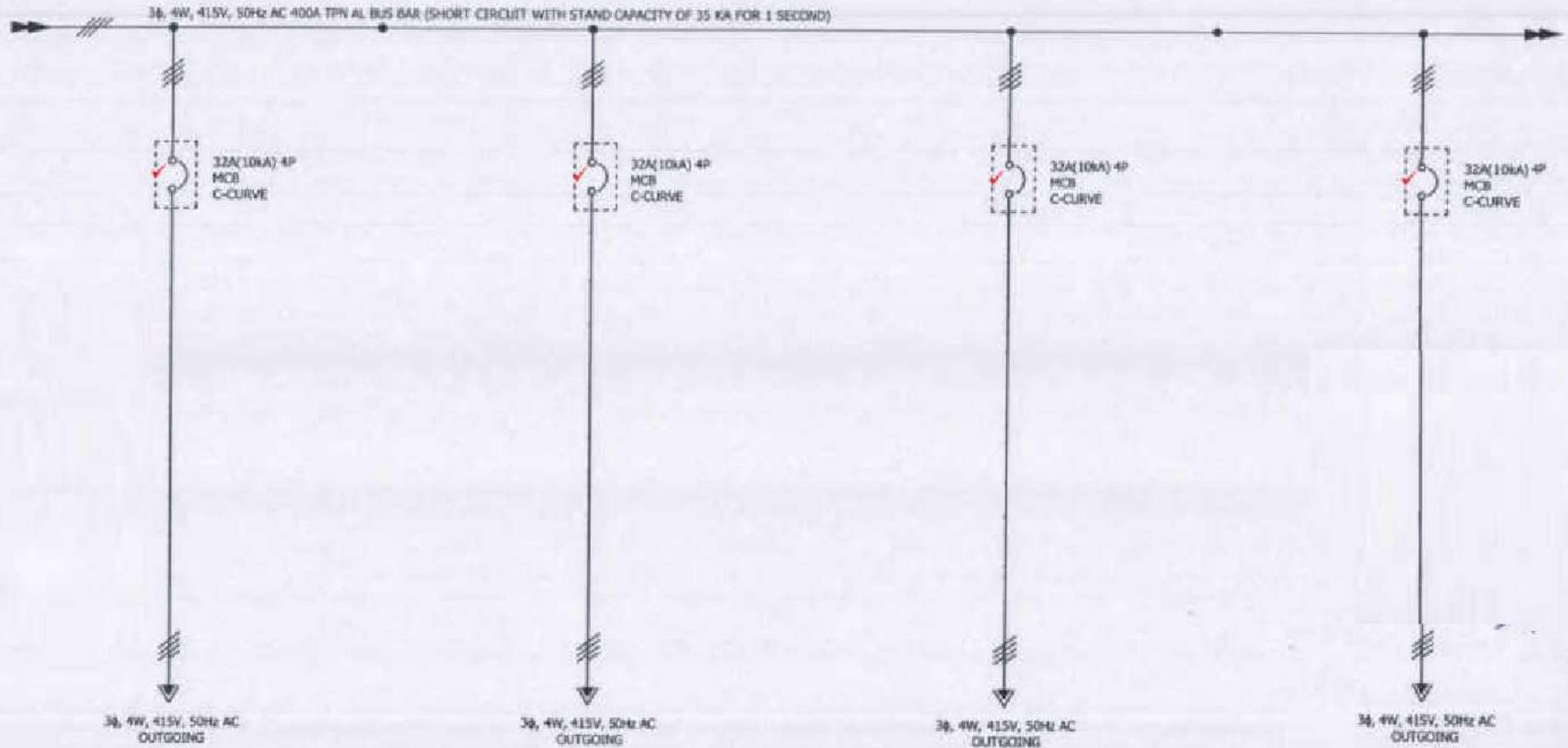
CPRI TESTED

PANEL SIZES		PROJECT	CITY GAS DISTRIBUTION NETWORK AMBALA & KURUKSHETRA		TITLE: SINGLE LINE DIAGRAM MED (MAIN ELECTRICAL DISTRIBUTION) PANEL	
HEIGHT		CLIENT	HOGLP (HPOIL GAS PRIVATE LIMITED)		DATE:	16.02.2022
WIDTH		CONTRACTOR	KULDEEP KUMAR CONTRACTOR KARNAL, HARYANA		DRAWN BY:	H.P.PANDEY
DEPTH		CONSULTANT	M/S. VCS QUALITY SERVICES PVT. LTD.		CHECKED BY:	GAURAV GUPTA
RECOMMENDED ACCESSES					APPROVED BY:	
FRONT						DWG NO. FE/2021-22/00225
REAR						REV. NO. 03
						JOB NO.
						ENQUIRY NO.
						DA. NO.
						SHEET NO. 14 OF 30

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SCALE: N.T.S.



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FEEDER No.	1F5A		1F5B		1F6A		1F6B
FEEDER RATING	32A, MCB	SPACE FOR 2P, MCB	32A, MCB	SPACE FOR 2P, MCB	32A, MCB	SPACE FOR 2P, MCB	32A, MCB
FEEDER DESCRIPTION	AIR COMPRESSOR 1.5KW	BLANK PLATE	UPS - 1	BLANK PLATE	UPS - 2	BLANK PLATE	UPS BYPASS
CABLE SIZE	---	---	---	---	---	---	---

ONG 1200 50HP ELECTRIC MOTOR DRIVEN COMPRESSOR OLS



Expert Engineers
Electrical Control Panel Manufacturers

WZ - 46, Call No 1, Seth Nagar, Palam Colony,
New Delhi-110045, Mobile: 9971870008, 9711609607
Email: expert.els@gmail.com

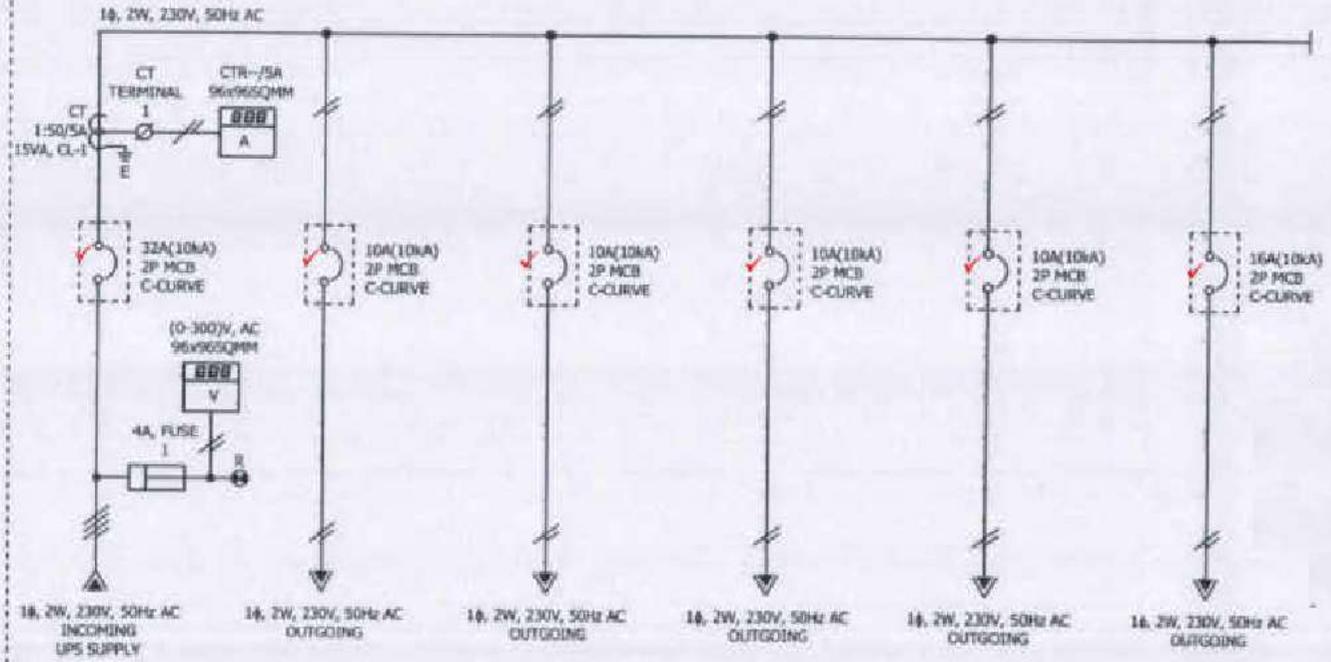


ISI TESTED

PANEL SIZES		PROJECT	TITLE:	
HEIGHT		CITY GAS DISTRIBUTION NETWORK AMBALA & KURUKSHETRA	SINGLE LINE DIAGRAM MED (MAIN ELECTRICAL DISTRIBUTION) PANEL	
WIDTH		CLIENT	DATE:	16.02.2022
DEPTH		HOGPL (HPOIL GAS PRIVATE LIMITED)	DRAWN BY:	H.P.PANDEY
RECOMMENDED ACCESSES		CONTRACTOR	CHECKED BY:	GAURAV GUPTA
FRONT		CONSULTANT	APPROVED BY:	
REAR		MAL VCS QUALITY SERVICES PVT. LTD.		
				DWG NO. EE/2021-22/0025
				REV. NO. R3
				JOB NO.
				ENQUIRY NO.
				OA. NO.
				SHEET NO. 15 OF 30

3φ, 4W, 415V, 50Hz AC 400A TPN AL BUS BAR (SHORT CIRCUIT WITH STAND CAPACITY OF 35 KA FOR 1 SECOND)

UPS ACDB SECTION



FEEDER No.	1F68	2F2					
FEEDER RATING	SPACE FOR 2P, MCB	32A, MCB	10A, MCB	10A, MCB	10A, MCB	10A, MCB	16A, MCB
FEEDER DESCRIPTION	BLANK PLATE	UPS INCOMER	TO COMPRESSOR PLC	TO EMERGENCY LIGHTING	TO DISPENSER	SPARE	SPARE
CABLE SIZE	---	---	---	---	---	---	---

ONG 1200 50Hz ELECTRIC MOTOR DRIVEN COMPRESSOR OLS



Expert Engineers
 Electrical Control Panel Manufacturers
 WZ - 46, Gall No 1, Sadh Nagar, Palam Colony,
 New Delhi-110045, Mobile: 9971870008, 9711609607
 Email: expert.rishi@gmail.com



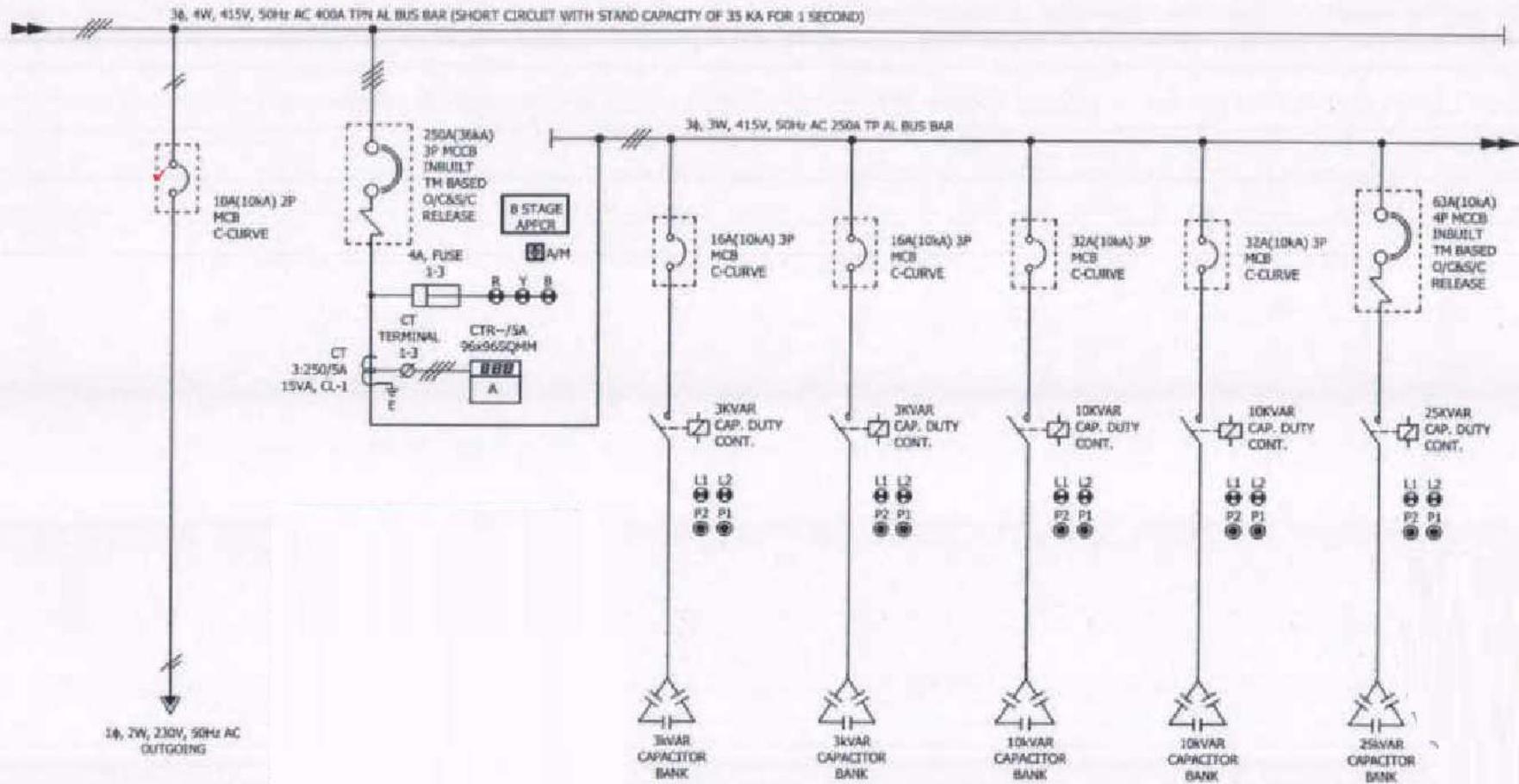
CPRI TESTED

PANEL SIZES	
HEIGHT	
WIDTH	
DEPTH	
RECOMMENDED ACCESSORIES	
FRONT	
REAR	

PROJECT	CITY GAS DISTRIBUTION NETWORK AMBALA & KURUKSHETRA
CLIENT	HOGPL (HPCIL GAS PRIVATE LIMITED)
CONTRACTOR	KULDEEP KUMAR CONTRACTOR KARNAL, HARYANA
CONSULTANT	M/S. VCS QUALITY SERVICES PVT. LTD.

TITLE:	SINGLE LINE DIAGRAM MED (MAIN ELECTRICAL DISTRIBUTION) PANEL		
DATE:	16.02.2022	DWG NO.	EE/2021-22/00215
DRAWN BY:	H.P.PANDEY	REV. NO.	R3
CHECKED BY:	GAURAV GUPTA	ENQUIRY NO.	
APPROVED BY:		QA. NO.	
		SHEET NO.	15 OF 30

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1ø, 2W, 230V, 50Hz AC OUTGOING

FEEDER No.	2F6	2F1	3F1				
FEEDER RATING	10A, MCB	250A, MCCB	3KVAR	3KVAR	10KVAR	10KVAR	25KVAR
FEEDER DESCRIPTION	SPARE	APFC PANEL INCOMER	CAP. BANK-1	CAP. BANK-2	CAP. BANK-3	CAP. BANK-4	CAP. BANK-5
CABLE SIZE	---						

CHG 1200 SCMH ELECTRIC MOTOR DRIVEN COMPRESSOR OLS



Expert Engineers
 Electrical Control Panel Manufacturers
 WZ - 46, Gali No 1, Sach Nagar, Palam Colony,
 New Delhi-110045, Mobile: 9971870008, 9711609607
 Email: expert.enhd@gmail.com



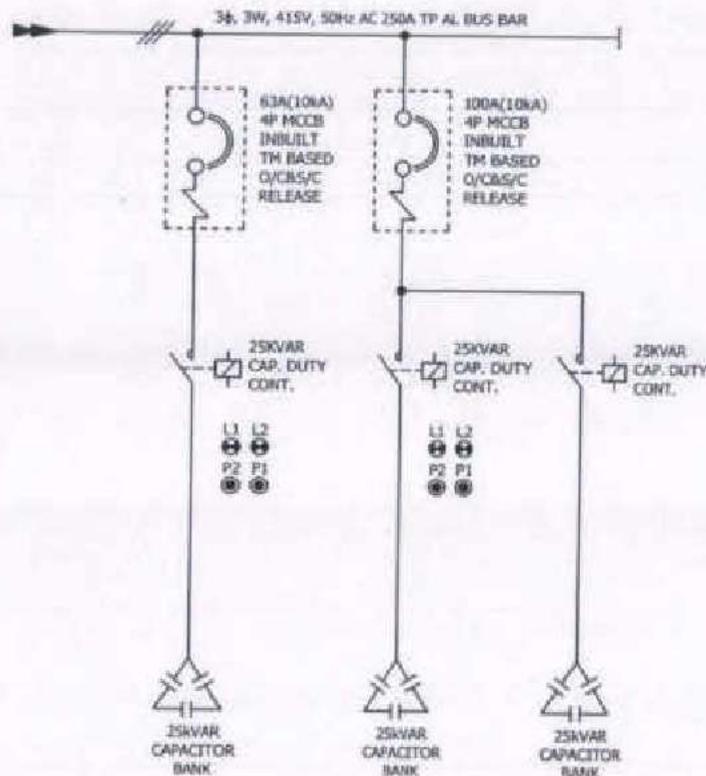
ISI TESTED

PANEL SIZES	
HEIGHT	
WIDTH	
DEPTH	
RECOMMENDED ACCESSES	
FRONT	
REAR	

PROJECT	CITY GAS DISTRIBUTION NETWORK AMBALA & KURUKSHETRA
CLIENT	HOGPL (HPCIL GAS PRIVATE LIMITED)
CONTRACTOR	MUDEEP MUNAR CONTRACTOR KARNAL, HARYANA
CONSULTANT	M/L VCS QUALITY SERVICES PVT. LTD.

TITLE: SINGLE LINE DIAGRAM MED (MAIN ELECTRICAL DISTRIBUTION) PANEL	
DATE:	16.02.2022
DRAWN BY:	H.P.PANDEY
CHECKED BY:	GAURAV GUPTA
APPROVED BY:	
OWG NO.	EE/2021-22/DO225
REV. NO.	03
JOB NO.	
ENQUIRY NO.	
QA. NO.	
SHEET NO.	16 OF 30

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FEEDER No.	3F1	
FEEDER RATING	25KVAR	50KVAR
FEEDER DESCRIPTION	CAP. BANK-6	CAP. BANK-7
CABLE SIZE		

ONG 1200 50HP ELECTRIC MOTOR DRIVEN COMPRESSOR OLS



Expert Engineers
 Electrical Control Panel Manufacturers
 W2 - 46, Gali No 1, South Nagar, Palam Colony,
 New Delhi-110045, Mobile: 9971870008, 9711609607
 Email: expert.rishi@gmail.com



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PANEL SIZES		PROJECT	CITY GAS DISTRIBUTION NETWORK AMBALA & KURLKSHETRA		TITLE: SINGLE LINE DIAGRAM MED (MAIN ELECTRICAL DISTRIBUTION) PANEL			
HEIGHT		CLIENT	HOGPL (HPOIL GAS PRIVATE LIMITED)		DATE:	16.02.2022	DWG NO.	EE/2021-22/00225
WIDTH		CONTRACTOR	KULDEEP KUMAR CONTRACTOR KARNAL, HARYANA		DRAWN BY:	H.P.PANDEY	REV. NO.	R3
DEPTH		CONSULTANT	M/s. WCS QUALITY SERVICES PVT. LTD.		CHECKED BY:	GAURAV GUPTA	JOB NO.	
RECOMMENDED ACCESSSES		APPROVED BY:			ENQUIRY NO.		QA. NO.	
FRONT					SHEET NO.	19 OF 30		
REAR								

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1	CNG 1200 SCMH Electric Motor Driven Compressor DBS		
4	250/5A 15VA Acc. CT: 1 Ring Type Current Transformer, ID: 50mm	AE	3
5	Ammeter with Inbuilt selector switch, 3Ph, Acc. CT: 1, Aux Supply: 80-300V AC, Size: 96x96	L&T/C&S	1
6	8 Steps APFC Relay for Contactor Switching with 1 CT Input 1A/5A, Size: 96X96, Voltage: 415V AC.	L&T/C&S	1
7	6A 2P 2Way Local - Remote/ Auto-Manual Switch with Center OFF, 60 Deg. Operation.	SALZER	1
8	5A 4P 240V AC Enclosed Miniature Plug In Relay with LED Indication, Type: MSP	SALZER	3
9	Closed Terminals Socket for MSP - 4 pole	SALZER	3
10	Red Gen Next Pro LED Indicator 22.5 mm, Voltage: 240V AC	ESBEE	1
11	Yellow Gen Next Pro LED Indicator 22.5 mm, Voltage: 240V AC	ESBEE	1
12	Blue Gen Next Pro LED Indicator 22.5 mm, Voltage: 240V AC	ESBEE	1
13	4 Sq.mm Fuse Terminal (Std. Color), Type: UBDF 4	ELMEX	3
14	Fan 6"	Reputed	1
15	Filter	Reputed	2
I	O/G-50 KVAR Cap Bank		
1	100A 4P 10kA MCCB TM Release	L&T/C&S	1
2	25kVar 3Ph Heavy Duty PhiCap-Cylindrical 440V AC Capacitor	EPCOS	2
3	25kVar 3Ph Capacitor Duty Contactor, Auxiliary Contact: 1NO, Size: Fr 1, Voltage: 240V AC	L&T/C&S	2
4	1NO+1NC Add on Auxiliary Contact Block Side Mounting (First Left)	L&T/C&S	1
5	Red Flush Head Push Button 22.5 mm	ESBEE	1
6	Green Flush Head Push Button 22.5 mm	ESBEE	1
7	1NO Contact Block	ESBEE	1
8	1NC Contact Block	ESBEE	1
9	Red Gen Next Pro LED Indicator 22.5 mm, Voltage: 240V AC	ESBEE	1
10	Green Gen Next Pro LED Indicator 22.5 mm, Voltage: 240V AC	ESBEE	1
J	O/G-25KVAR Cap Bank		
1	63A 4P 10kA MCCB TM Release	L&T/C&S	2
2	25kVar 3Ph Heavy Duty PhiCap-Cylindrical 440V AC Capacitor	EPCOS	2
3	25kVar 3Ph Capacitor Duty Contactor, Auxiliary Contact: 1NO, Size: Fr 1, Voltage: 240V AC	L&T/C&S	2
4	1NO+1NC Add on Auxiliary Contact Block Side Mounting (First Left)	L&T/C&S	2
5	Red Flush Head Push Button 22.5 mm	ESBEE	2
6	Green Flush Head Push Button 22.5 mm	ESBEE	2
7	1NO Contact Block	ESBEE	2
8	1NC Contact Block	ESBEE	2
9	Red Gen Next Pro LED Indicator 22.5 mm, Voltage: 240V AC	ESBEE	2

CNG 1200 SCMH ELECTRIC MOTOR DRIVEN COMPRESSOR OLS



Expert Engineers
Electrical Control Panel Manufacturers

WZ - 46, Gali No 1, Sach Nagar, Palam Colony,
New Delhi-110045, Mobile: 9971870008, 9711609607
Email : expert.rajni@gmail.com



CPRI TESTED

PANEL SIZES		PROJECT	TITLE	
HEIGHT		CITY GAS DISTRIBUTION NETWORK AMBALA & KURUKSHETRA	BILL OF MATERIAL MED (MAIN ELECTRICAL DISTRIBUTION) PANEL	
WIDTH		CLIENT	DATE:	16.02.2022
DEPTH		HOGPL (HIPOIL GAS PRIVATE LIMITED)	DWG NO.	EE/2021-22/DO225
RECOMMENDED ACCESSSES		CONTRACTOR	DRAWN BY:	H.P.PANDEY
FRONT		KULDEEP KUMAR CONTRACTOR KARNAL, HARYANA	CHECKED BY:	GAURAV GUPTA
REAR		CONSULTANT	APPROVED BY:	
		M/S. VCS QUALITY SERVICES PVT. LTD.		
				REV. NO. 03
				JOB NO.
				ENQUIRY NO.
				QA. NO.
				SHEET NO. 21 OF 30

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1	CNG 1200 SCMH Electric Motor Driven Compressor DBS		
10	Green Gen Next Pro LED Indicator 22.5 mm, Voltage: 240V AC	ESBEE	2
K	O/G-10KVAR Cap Bank		
1	32A 3P 10kA, C-Curve MCB	L&T/C&S	2
2	10KVAR 3Ph Heavy Duty PhiCap-Cylindrical 440V AC Capacitor	EPCOS	2
3	10KVAR 3Ph Capacitor Duty Contactor, Auxiliary Contact: 1NO, Size: Fr 1, Voltage: 240V AC	L&T/C&S	2
4	1NO+1NC Add on Auxiliary Contact Block Side Mounting (First Left)	L&T/C&S	2
5	Red Flush Head Push Button 22.5 mm	ESBEE	2
6	Green Flush Head Push Button 22.5 mm	ESBEE	2
7	1NO Contact Block	ESBEE	2
8	1NC Contact Block	ESBEE	2
9	Red Gen Next Pro LED Indicator 22.5 mm, Voltage: 240V AC	ESBEE	2
10	Green Gen Next Pro LED Indicator 22.5 mm, Voltage: 240V AC	ESBEE	2
L	O/G-3KVAR Cap Bank		
1	16A 3P 10kA, C-Curve MCB	L&T/C&S	2
2	3KVAR 3Ph Heavy Duty PhiCap-Cylindrical 440V AC Capacitor	EPCOS	2
3	3kVAR 3Ph Capacitor Duty Contactor, Auxiliary Contact: 1NO, Size: Fr 1, Voltage: 240V AC	L&T/C&S	2
4	1NO+1NC Add on Auxiliary Contact Block Side Mounting (First Left)	L&T/C&S	2
5	Red Flush Head Push Button 22.5 mm	ESBEE	2
6	Green Flush Head Push Button 22.5 mm	ESBEE	2
7	1NO Contact Block	ESBEE	2
8	1NC Contact Block	ESBEE	2
9	Red Gen Next Pro LED Indicator 22.5 mm, Voltage: 240V AC	ESBEE	2
10	Green Gen Next Pro LED Indicator 22.5 mm, Voltage: 240V AC	ESBEE	2
M	UPS ACDB /C		
1	32A 2P 10kA, C-Curve MCB	L&T/C&S	1
2	Ammeter, 1Ph, Acc. Cl: 1, Aux Supply: 80-300V AC, Size: 96x96	L&T/C&S	1
3	Voltmeter, 1Ph, Acc. Cl: 1, Aux Supply: 80-300V AC, Size: 96x96	L&T/C&S	1
4	50/5A 15VA Acc. Cl: 1 Ring Type Current Transformer, ID: 30mm	AE	1
5	Red Gen Next Pro LED Indicator 22.5 mm, Voltage: 240V AC	ESBEE	1
6	4 Sq. mm Fuse Terminal (Std. Color), Type: UBDF 4	ELMEX	1
N	O/G-MCB 10A 2P+Spere		
1	10A 2P 10kA, C-Curve MCB	L&T/C&S	4
F	O/G-MCB 16A 2P Spere		
1	16A 2P 10kA, C-Curve MCB	L&T/C&S	1

CNG 1200 SCMH ELECTRIC MOTOR DRIVEN COMPRESSOR DBS



Expert Engineers
Electrical Control Panel Manufacturers

WZ - 46, Gali No 1, Sadh Nagar, Palm Colony,
New Delhi-110045, Mobile: 9171870008, 9711609602
Email : expert.ish@gmail.com



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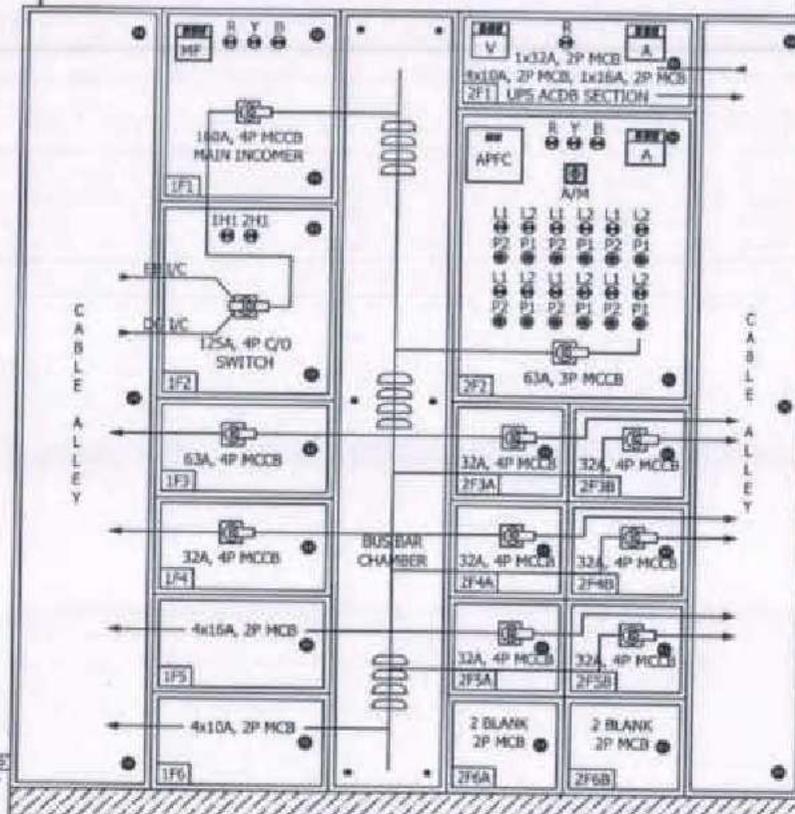
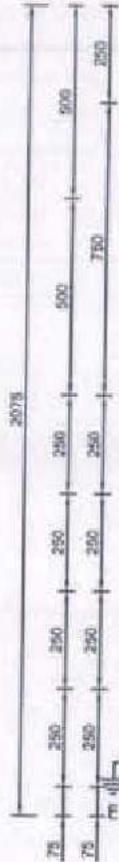
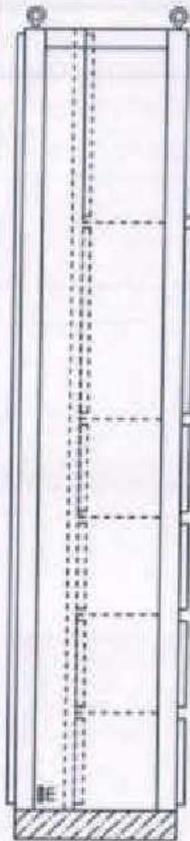
PANEL SIZES		PROJECT	CITY GAS DISTRIBUTION NETWORK AMBALA & KURUKSHETRA		TITLE: BILL OF MATERIAL MED (MAIN ELECTRICAL DISTRIBUTION) PANEL			
HEIGHT		CLIENT	HOGPL (HFOIL GAS PRIVATE LIMITED)		DATE:	16.02.2022	DWG. NO.	EE/2021-22/DO225
WIDTH		CONTRACTOR	KULDEEP KUMAR CONTRACTOR KARNAL, HARYANA		DRAWN BY:	H.P. PANDEY	REV. NO.	03
DEPTH		CONSULTANT	M/E VCS QUALITY SERVICES PVT. LTD.		CHECKED BY:	GAURAV GUPTA	JOB NO.	
RECOMMENDED ACCESSSES					APPROVED BY:		ENQUIRY NO.	
FRONT							QA. NO.	
REAR							SHEET NO.	22 OF 30

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IF ANY DOUBT, PLEASE ASK.

LIFTING HOOK

SCALE: N.T.S.



FRONT

25x05 mm. Cu EARTH BUS WITH 2Nos EARTH STUD

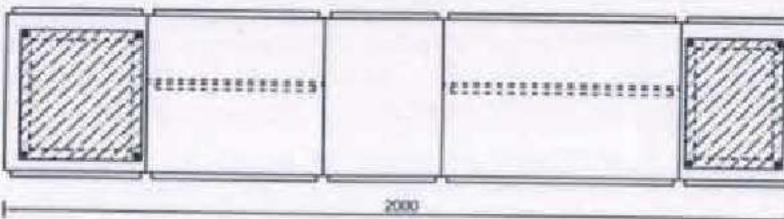
LEGENDS	DESCRIPTION
MM	MULTIFUNCTION METER
R	PHASE INDICATION RED
Y	PHASE INDICATION YELLOW
B	PHASE INDICATION BLUE
MCCB	MOLDED CASE CIRCUIT BREAKER
MCB	MINIATURE CIRCUIT BREAKER
AFFC	AUTOMATIC POWER FACTOR CORRECTION RELAY
A/M	AUTO/MANUAL SELECTOR SWITCH
P1	STOP PUSH BUTTON 'RED'
P2	START PUSH BUTTON 'GREEN'
L1	ON INDICATING LAMP 'RED'
L2	OFF INDICATING LAMP 'GREEN'
A	AMMETER
V	VOLT METRE

Quantity as per SOR
 1) Ambala 04
 2) Koltapur 11
TOTAL 15

PANEL QTY:-08Nos.
 ALL DIMENSIONS ARE IN MM
 DEGREE OF PROTECTION-IP42 (INDOOR)
 FLOOR MOUNTING TYPE

SHEET THICKNESS	
ENCLOSURE	2.0MM
GLAND PLATES	3MM
BASE FRAME	75x40x3MM
CABLE ENTRY	BOTTOM

MAIN BUS BAR SIZE :-	
FOR PHASE	1:20x10 mm. AL
FOR NEUTRAL	1:20x10 mm. AL
FOR EARTH	1:25x05 mm. Cu
COLOUR OF ENCLOSURE	RAL 7035
COLOUR OF BASE FRAME	BLACK



BOTTOM VIEW
FRONT

CNG 1200 SOBH GAS DRIVEN COMPRESSOR



Expert Engineers
 Electrical Control Panel Manufacturers
 WZ - 46, Gali No 1, Sadh Nagar, Palam Colony,
 New Delhi-110045, Mobile: 9971870008, 9711609607
 Email: expert.nhd@gmail.com



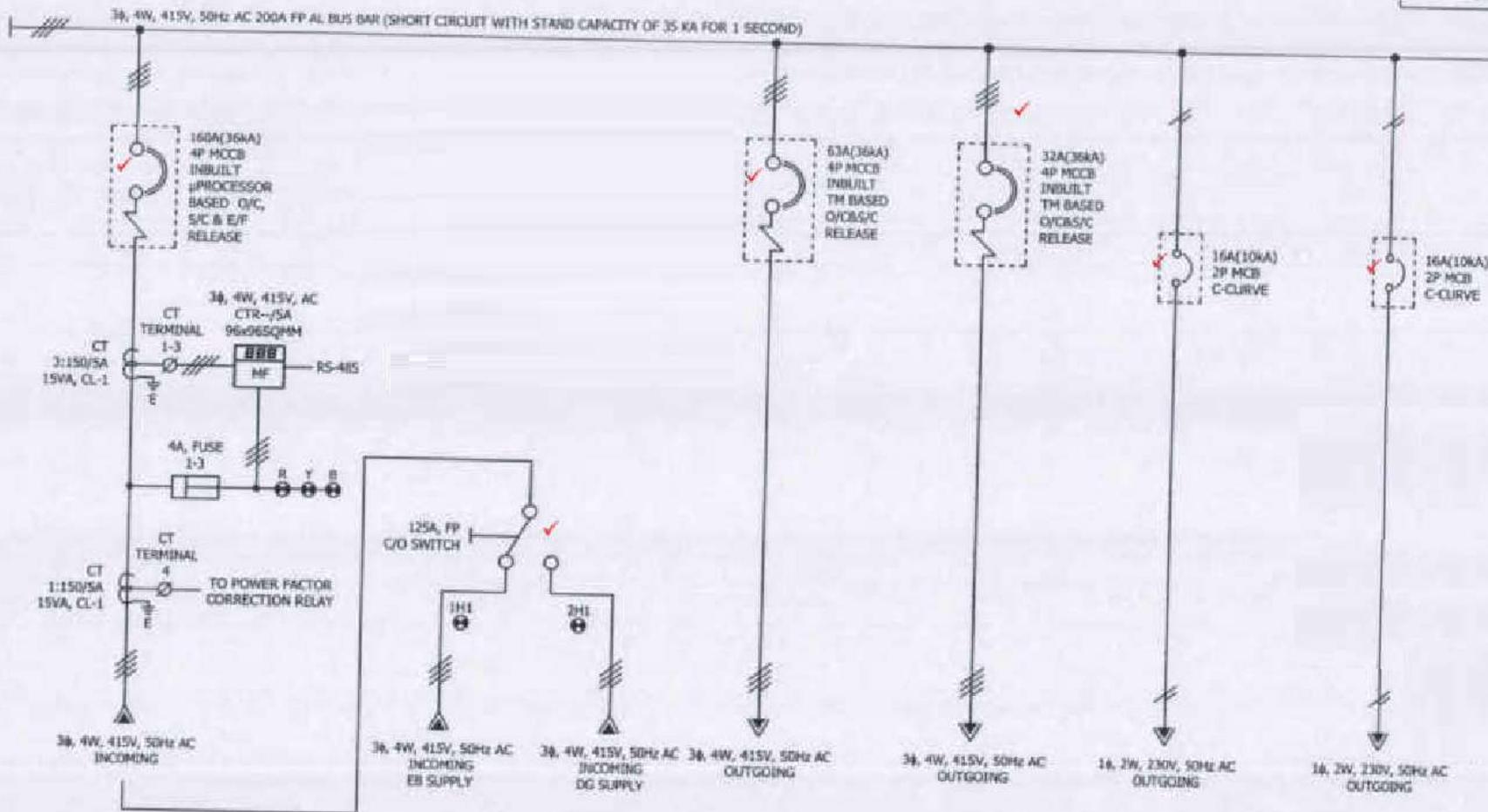
CPRI TESTED

PANEL SIZES		PROJECT	CITY GAS DISTRIBUTION NETWORK AMBALA & KURUKSHETRA	TITLE: GENERAL ARRANGEMENT DRAWING MED (MAIN ELECTRICAL DISTRIBUTION) PANEL
HEIGHT	2075 MM			
WIDTH	2000 MM	CONTRACTOR	KULDEEP KUMAR CONTRACTOR KARNAL, HARYANA	DRAWN BY: H.P.PANDEY
DEPTH	400 MM	CONSULTANT	M/S. VCS QUALITY SERVICES PVT. LTD.	CHECKED BY: GAURAV GUPTA
RECOMMENDED ACCESSES				APPROVED BY:
FRONT	--			DWG NO. EE/2023-22/DO225
REAR	--			REV. NO. R3
				JOB NO.
				ENQUIRY NO.
				QA. NO.
				SHEET NO. 23 OF 30

ALL DIMENSIONS ARE IN MM

IF ANY DOUBT, PLEASE ASK.

SCALE: N.T.S.



FEEDER No.	1F1	1F2	1F3	1F4	1F5	
FEEDER RATING	160A, MCCB	125A, C/O SWITCH	63A, MCCB	32A, MCCB	16A, MCB	16A, MCB
FEEDER DESCRIPTION	MAIN INCOMER	INCOMER MAINS/DG	ELECTRIC COMPRESSOR MOTOR 11/18KW	AIR COMPRESSOR 1.5KW	SPARE	SPARE
CABLE SIZE	---	---	---	---	---	---

ONG 1200 SONH GAS DRIVEN COMPRESSOR)



Expert Engineers
Electrical Control Panel Manufacturers
WZ - 46, Gali No 1, Sachy Nagar - Palam Colony,
New Delhi-110045, Mobile: 9971870008, 9711609607
Email: expert.rishi@gmail.com



CEI TESTED

PANEL SIZES		PROJECT	CITY GAS DISTRIBUTION NETWORK AMBALA & KURUKSHETRA		TITLE:	SINGLE LINE DIAGRAM MED (MAIN ELECTRICAL DISTRIBUTION) PANEL	
HEIGHT		CLIENT	HOGPL (HPOOL GAS PRIVATE LIMITED)		DATE:	16.02.2022	DWG NO. EE/2021-22/DO215
WIDTH		CONTRACTOR	KULDEEP KUMAR CONTRACTOR KARNAL HARYANA		DRAWN BY:	H.P.PANDEY	REV. NO. 03
DEPTH		CONSULTANT	M/S. VCS QUALITY SERVICES PVT. LTD.		CHECKED BY:	GAURAV GUPTA	JOB NO.
RECOMMENDED ACCESSES					APPROVED BY:		ENQUIRY NO.
FRONT							QA. NO.
REAR							SHEET NO. 24 OF 30

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IF ANY DOUBT, PLEASE ASK

SCALE : N.T.S.

3ø, 4W, 415V, 50Hz AC 200A PP AL BUS BAR (SHORT CIRCUIT WITH STAND CAPACITY OF 35 KA FOR 1 SECOND)

16A(10KA)
2P MCB
C-CURVE

16A(10KA)
2P MCB
C-CURVE

10A(10KA)
2P MCB
C-CURVE

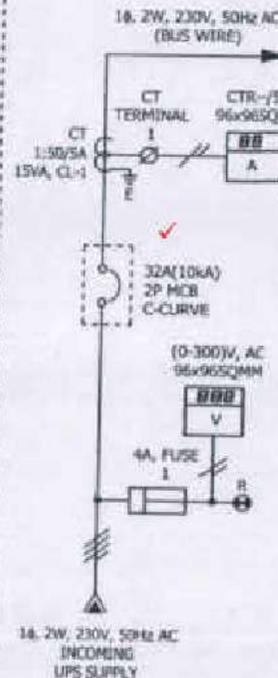
10A(10KA)
2P MCB
C-CURVE

10A(10KA)
2P MCB
C-CURVE

10A(10KA)
2P MCB
C-CURVE

1ø, 2W, 230V, 50Hz AC
OUTGOING

UPS ACDB SECTION



FEEDER NO.	1F5		1F6				
FEEDER RATING	16A, MCB	16A, MCB	10A, MCB	10A, MCB	10A, MCB	10A, MCB	32A, MCB
FEEDER DESCRIPTION	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	UPS INCOMER
CABLE SIZE	---	---	---	---	---	---	---

ONG 1200 SCMH GAS DRIVEN COMPRESSOR



Expert Engineers
Division of General Panel Manufacturers

WZ - 46, Gali No 1, Sethi Nagar, Palam Colony,
New Delhi-110045, Mobile: 9971870008, 9711609607
Email : expert.rishi@gmail.com



CPRI TESTED

PANEL SIZES		PROJECT	CITY GAS DISTRIBUTION NETWORK AMBALA & KURUKSHETRA		TITLE: SINGLE LINE DIAGRAM MED (MAIN ELECTRICAL DISTRIBUTION) PANEL			
HEIGHT		CLIENT	HOGPL (HPOIL GAS PRIVATE LIMITED)		DATE:	16.02.2022	DWG NO.	EE/2021-22/DK225
WIDTH		CONTRACTOR	KULDEEP KUMAR CONTRACTOR KARNAL, HARYANA		DRAWN BY:	H.P.PANDEY	REV. NO.	R3
DEPTH		CONSULTANT	M/S. VCS QUALITY SERVICES PVT. LTD.		CHECKED BY:	GAURAV GUPTA	JOB NO.	
RECOMMENDED ACCESSES					APPROVED BY:		ENQUIRY NO.	
FRONT:							DA. NO.	
REAR:							SHEET NO.	25 OF 30

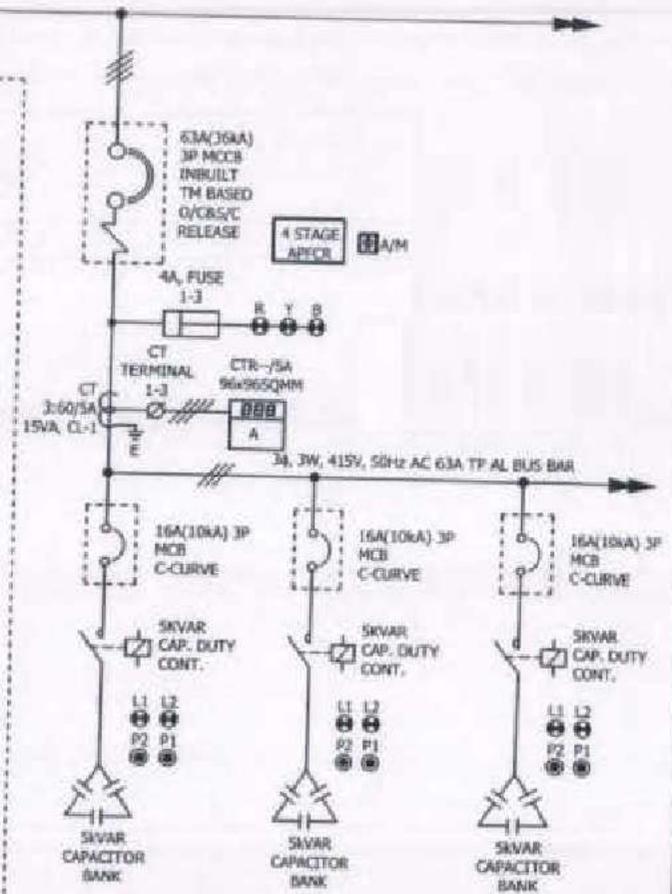
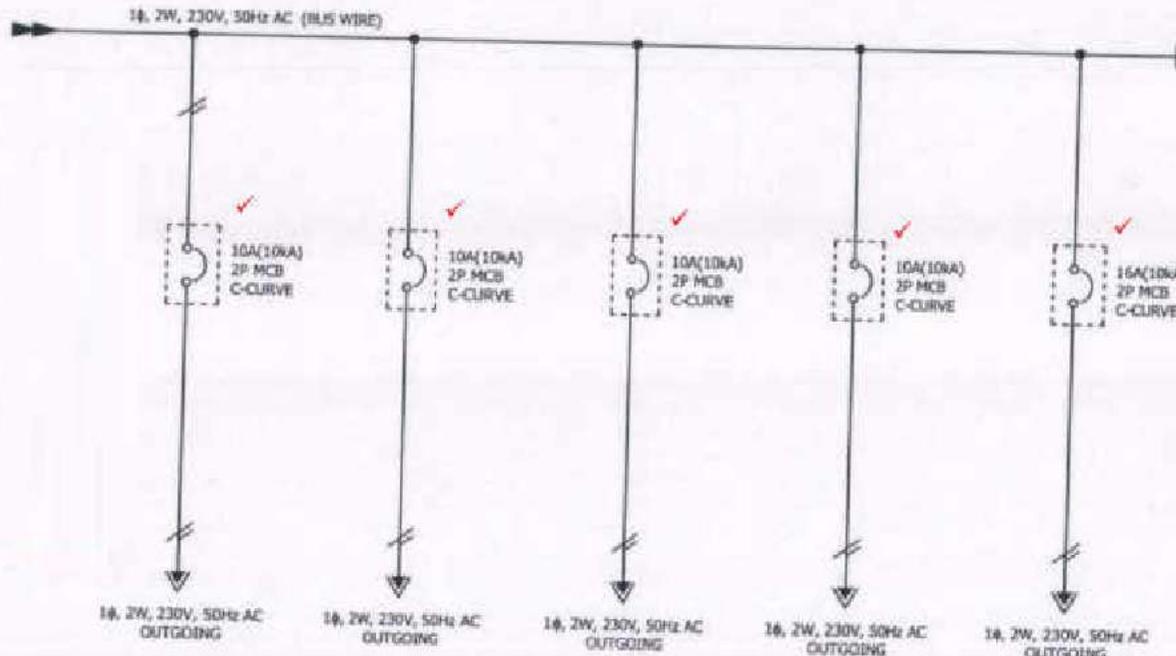
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SCALE : N.T.S.

3ø, 4W, 415V, 50Hz AC 200A FP AL BUS BAR (SHORT CIRCUIT WITH STAND CAPACITY OF 35 KA FOR 1 SECOND)

UPS ACDB SECTION



FEEDER No.	2F1					2F2		
FEEDER RATING	10A, MCB	10A, MCB	10A, MCB	10A, MCB	16A, MCB	SKVAR	SKVAR	SKVAR
FEEDER DESCRIPTION	TO COMPRESSOR PLC	TO EMERGENCY LIGHTING	TO DISPENSER	SPARE	SPARE	CAP. BANK-1	CAP. BANK-2	CAP. BANK-3
CABLE SIZE	-----	-----	-----	-----	-----			

ONG 1200 SCMH GAS DRIVEN COMPRESSOR)

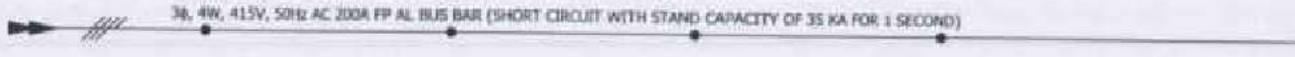
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Expert Engineers
 Experts in Control Panel Manufacturing
 W2 - 46, Gall No 1, Seth Nagar, Palam Colony,
 New Delhi-110045, Mobile: 9971870008, 9711609607
 Email : expert_rshi@gmail.com



PANEL SIZES		PROJECT	CITY GAS DISTRIBUTION NETWORK AMBALA & KURLUKSHETRA		TITLE: SINGLE LINE DIAGRAM MED (MAIN ELECTRICAL DISTRIBUTION) PANEL			
HEIGHT		CLIENT	HOGPL (HPOIL GAS PRIVATE LIMITED)		DATE:	16.02.2022	DWG NO.	EE/2021-22/0025
WIDTH		CONTRACTOR	KULDEEP KUMAR CONTRACTOR, KARNAL, HARYANA		DRAWN BY:	H.P.PANDEY	REV. NO.	R3
DEPTH		CONSULTANT	M/L VCS QUALITY SERVICES PVT. LTD.		CHECKED BY:	GAURAV GUPTA	JOB NO.	
RECOMMENDED ACCESSSES					APPROVED BY:		ENQUIRY NO.	
FRONT							QA. NO.	
REAR							SHEET NO.	26 OF 30



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FEEDER No.	2FSA		2FSA	
	SPACE FOR 2P, MCB			
FEEDER RATING				
FEEDER DESCRIPTION	BLANK PLATE	BLANK PLATE	BLANK PLATE	BLANK PLATE
CABLE SIZE				

CNG 1200 SCMH GAS DRIVEN COMPRESSOR)



Expert Engineers
 Electrical & Control Panel Manufacturers
 WZ - 46, Gali No 1, Sach Nagar, Palam Colony,
 New Delhi-110045, Mobile: 9971870008, 9711609607
 Email : expert.esh@gmail.com



CPW TESTED

PANEL SIZES		PROJECT	TITLE:	
HEIGHT		CITY GAS DISTRIBUTION NETWORK AMBALA & KJURUKSHETRA	SINGLE LINE DIAGRAM MED (MAIN ELECTRICAL DISTRIBUTION) PANEL	
WIDTH		CLIENT	DATE:	16.02.2022
DEPTH		HOGPL (H-POIL GAS PRIVATE LIMITED)	DWG NO.	EE/2021-22/DO225
RECOMMENDED ACCESSES		CONTRACTOR	REV. NO.	83
FRONT		KULDEEP KUMAR CONTRACTOR KARNAL, HARYANA	JOB NO.	
REAR		CONSULTANT	ENQUIRY NO.	
		M/S. VCS QUALITY SERVICES PVT. LTD.	QA. NO.	
			APPROVED BY:	
				SHEET NO. 28 OF 30

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Sr. NO.	BOQ DESCRIPTION	MAKE	QTY
1 CNG 1200 SCMH GAS Driven Compressor			
A Intomer			
1	160A 4P 36kA MCCB Microprocessor Release	L&T/C&S	2
2	Extended Rotary Handle	L&T/C&S	2
3	Spreader Terminals - 4 Pole (Set of 8)	L&T/C&S	2
4	150/5A 15VA Acc. Cl: 1 Ring Type Current Transformer, ID: 30mm	AE	3
5	Multifunction Meter (LED display), 3Ph, CL: 1, Aux Supp: 90-300V AC/DC, Size: 96x96 with RS-485 Communication Port	L&T/C&S	1
6	Red Gen Next Pro LED Indicator 22.5 mm, Voltage: 240V AC	ESBEE	1
7	Yellow Gen Next Pro LED Indicator 22.5 mm, Voltage: 240V AC	ESBEE	1
8	Blue Gen Next Pro LED Indicator 22.5 mm, Voltage: 240V AC	ESBEE	1
9	4 Sq.mm Fuse Terminal (Std. Color), Type: UBDF 4	ELMEX	3
B CHANGEVER SWITCH			
1	125A 4P On Load Manual Changeover Switch - Disconnecter with Direct Handle & 2 C/O, Frame-1	L&T/C&S	1
2	Red Gen Next Pro LED Indicator 22.5 mm, Voltage: 240V AC	ESBEE	2
3	6A 1P 10kA, C-Curve MCB	L&T/C&S	1
C O/G-MCCB 63A 4P			
1	63A 4P 36kA MCCB TM Release	L&T/C&S	1
2	Extended Rotary Handle	L&T/C&S	1
D O/G-MCCB 32A 4P			
1	32A 4P 36kA MCCB TM Release	L&T/C&S	7
2	Extended Rotary Handle	L&T/C&S	7
E O/G-MCB 16A 2P spare			
1	16A 2P 10kA, C-Curve MCB	L&T/C&S	4
F O/G-MCB 10A 2P spare			
1	10A 2P 10kA, C-Curve MCB	L&T/C&S	4
G O/G-MCCB 63A 4P			
1	63A 3P 36kA MCCB TM Release	L&T/C&S	1
2	60/5A 15VA Acc. Cl: 1 Ring Type Current Transformer, ID: 30mm	AE	3
3	Ammeter with Inbuilt selector switch, 3Ph, Acc. CL: 1, Aux Supply: 80-300V AC, Size: 96x96	L&T/C&S	1
4	4 Steps APFC Relay for Contactor Switching with 1 CT Input: 1A/5A, Size: 96X96, Voltage: 415V AC	L&T/C&S	1
5	6A 2P 2Way Local - Remote/ Auto-Manual Switch with Center Off, 60 Deg. Operation	SALZER	1

CNG 1200 SCMH GAS DRIVEN COMPRESSOR



Expert Engineers
 Electrical Contract Project Manufacturers
 WZ - 46, Gali No 1, Sadh Nagar, Palam Colony,
 New Delhi-110045, Mobile: 9971870008, 9711609607
 Email : expert.enrshi@gmail.com



CPRI TESTED

PANEL SIZES		PROJECT	CITY GAS DISTRIBUTION NETWORK AMBALA & KURUKSHETRA	TITLE: BILL OF MATERIAL MED (MAIN ELECTRICAL DISTRIBUTION) PANEL		
HEIGHT		CLIENT	HQPL (HPOIL GAS PRIVATE LIMITED)	DATE:	16.02.2022	DWG NO. EE/2021-22/DO225
WIDTH		CONTRACTOR	KULDEEP KUMAR CONTRACTOR KARNAL, HARYANA	DRAWN BY:	H.P.PANDOCY	REV. NO. R3
DEPTH		CONSULTANT	M/S. VCS QUALITY SERVICES PVT. LTD.	CHECKED BY:	GAURAV GUPTA	JOB NO.
RECOMMENDED ACCESSES				APPROVED BY:		ENQUIRY NO.
FRONT						DR. NO.
REAR						SHEET NO. 29 OF 30

1	CNG 1200 SCMH GAS Driven Compressor		
6	SA 4P 240V AC Enclosed Miniature Plug In Relay with LED Indication, Type: MSP	SALZER	3
7	Closed Terminals Socket for MSP - 4 pole	SALZER	3
8	Red Gen Next Pro LED Indicator 22.5 mm, Voltage: 240V AC	ESBEE	1
9	Yellow Gen Next Pro LED Indicator 22.5 mm, Voltage: 240V AC	ESBEE	1
10	Blue Gen Next Pro LED Indicator 22.5 mm, Voltage: 240V AC	ESBEE	1
11	4 Sq. mm Fuse Terminal (Std. Color), Type: UBDF 4	ELMEX	3
12	Fan 6"	Reputed	1
13	Filter	Reputed	2
H	O/G-5KVAR Cap Bank		
1	16A 3P 10kA, C-Curve MCB	L&T/C&S	4
2	5KVA/ 3Ph Heavy Duty PhiCap-Cylindrical 440V AC Capacitor	EPCOS	4
3	5kVar 3Ph Capacitor Duty Contactor, Auxiliary Contact: 1NO, Size: Fr-1, Voltage: 240V AC	L&T/C&S	4
4	1NO+1NC Add on Auxiliary Contact Block Side Mounting (First Left)	L&T/C&S	4
5	Red Flush Head Push Button 22.5 mm	ESBEE	4
6	Green Flush Head Push Button 22.5 mm	ESBEE	4
7	1NO Contact Block	ESBEE	4
8	1NC Contact Block	ESBEE	4
9	Red Gen Next Pro LED Indicator 22.5 mm, Voltage: 240V AC	ESBEE	4
10	Green Gen Next Pro LED Indicator 22.5 mm, Voltage: 240V AC	ESBEE	4
I	UPS ACDB I/C		
1	32A 2P 10kA, C-Curve MCB	L&T/C&S	2
2	Ammeter, 1Ph, Acc. CL: 1, Aux Supply: 80-300V AC, Size: 96x96	L&T/C&S	1
3	Voltmeter, 1Ph, Acc. CL: 1, Aux Supply: 80-300V AC, Size: 96x96	L&T/C&S	1
4	50/5A 15VA Acc. CL: 1 Ring Type Current Transformer, ID: 30mm	AE	1
5	Red Gen Next Pro LED Indicator 22.5 mm, Voltage: 240V AC	ESBEE	1
6	4 Sq. mm Fuse Terminal (Std. Color), Type: UBDF 4	ELMEX	1
J	O/G-MCB 10A 2P+Spare		
1	10A 2P 10kA, C-Curve MCB	L&T/C&S	4
K	O/G-MCB 16A 2P Spare		
1	16A 2P 10kA, C-Curve MCB	L&T/C&S	1

CNG 1200 SCMH GAS DRIVEN COMPRESSOR



Expert Engineers
Electrical Control Panel Manufacturers

WZ - 46, Gali No 1, Sach Nagar, Palam Colony,
New Delhi-110045, Mobile: 9971870008, 9711609607
Email : expert.ish@gmail.com



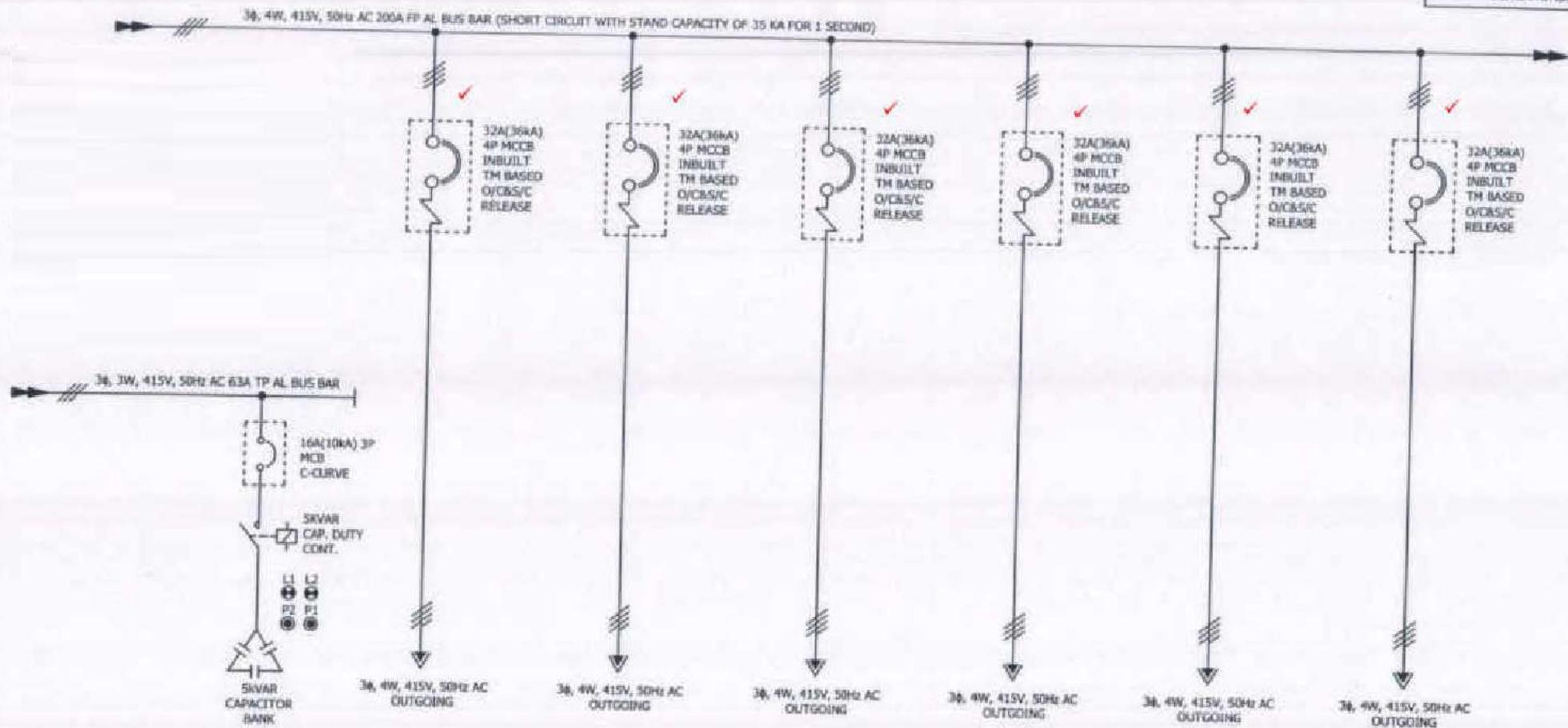
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PANEL SIZES		PROJECT	TITLE: BILL OF MATERIAL	
HEIGHT		QTY GAS DISTRIBUTION NETWORK	MED (MAIN ELECTRICAL DISTRIBUTION) PANEL	
WIDTH		AMBALA & KURUKSHETRA	DATE:	16.02.2022
DEPTH		CLIENT	REV. NO.	03
RECOMMENDED ACCESSORIES		HOGPL (HPOIL GAS PRIVATE LIMITED)	DRAWN BY:	H.P.PANDEY
FRONT		CONTRACTOR	CHECKED BY:	GAURAV GUPTA
REAR		KULDEEP KUMAR CONTRACTOR	APPROVED BY:	
		KARNAL, HARYANA	QA. NO.	
		CONSULTANT	SHEET NO.	30 OF 30
		M/S. VCS QUALITY SERVICES		
		PVT. LTD.		

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SCALE : N.T.S.

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FEEDER No.	2F2	2F3A	2F3B	2F4A	2F4B	2F5A	2F5B
FEEDER RATING	SKVAR	32A, MCCB					
FEEDER DESCRIPTION	CAP. BANK-4						
CABLE SIZE							

ONG 1200 SCMH GAS DRIVEN COMPRESSOR)



Expert Engineers
 Division of Control Panel Manufacturing
 WZ - 46, Gall No 1, Sethi Nagar, Palam Colony,
 New Delhi-110045, Mobile: 9971870000, 9711609607
 Email : expert.rshi@gmail.com



CPU TESTED

PANEL SIZES		PROJECT	CITY GAS DISTRIBUTION NETWORK		TITLE: SINGLE LINE DIAGRAM			
HEIGHT			AMBALA & KURLUKSHETRA		MED (MAIN ELECTRICAL DISTRIBUTION) PANEL			
WIDTH			CLIENT		DATE:	16.02.2022	DWG NO.	EE/2021-22/0025
DEPTH		HOGPL (HPCOIL GAS PRIVATE LIMITED)		DRAWN BY:	H.P.PANDEY	REV. NO.	R3	
RECOMMENDED ACCESSSES		CONTRACTOR	KULDEEP KUMHAR CONTRACTOR		CHECKED BY:	GAURAV GUPTA	ENQUIRY NO.	
FRONT		CORGLTANT		M/S. VCS QUALITY SERVICES		QA. NO.		
REAR		PVT. LTD.		APPROVED BY:		SHEET NO.	27 OF 30	