



ASSAM ELECTRICITY GRID CORPORATION LIMITED

OFFICE OF THE MANAGING DIRECTOR

Regd. Office:(FIRST FLOOR), BIJULEE BHAWAN, PALTANBAZAR; GUWAHATI - 781001

CIN: U40101AS2003SGC007238 GSTIN: 18AAFCA4973J9Z3

PHONE: 0361-2739520 Web: www.aegcl.co.in Email: neap.cell@aegcl.co.in

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Azadi Ka
Amrit Mahotsav

CORRIGENDUM-I

Bid Identification No.: AEGCL/MD/Tech-1226/Deposit/33kV Ajanta Pharma Bay/2026/BID
IFB No.: AEGCL/MD/Tech-1226/Deposit/33kV Ajanta Pharma Bay/2026/IFB Dated: 13.05.2026
NIT No.: AEGCL/MD/Tech-1226/Deposit/33kV Ajanta Pharma Bay/2026/NIT, Dated 13.05.2022

Name of Work: "Turnkey Construction of 01 (one) no. of 33kV Feeder bay at 132 kV Ghoramari GSS, AEGCL for Solar Power Injection by Ajanta Pharma Ltd." under deposit scheme.

With reference to the official Bid Identification No., IFB, and NIT mentioned above, all prospective bidders are hereby informed that the necessary **reference drawings and technical documents required for quoting the prices of the ACDB (Alternating Current Distribution Board) and DCDB (Direct Current Distribution Board)** are enclosed herewith as part of this addendum.

All other terms, conditions, specifications, and deadlines of the original bidding document shall remain strictly **unchanged**.


Chief General Manager (PP&D)
Assam Electricity Grid Corporation Ltd
Bijulee Bhawan, Paltanbazar, Guwahati -1

Memo No. AEGCL/MD/Tech-1226/Deposit/33kV Ajanta Pharma Bay/2026/ 14 Dated: 19 .05.2026
Copy to:

1. The AGM -IT, O/o the MD, AEGCL, for publication of the notice in AEGCL's Website.


Chief General Manager (PP&D)
Assam Electricity Grid Corporation Ltd



GUARANTEED TECHNICAL PARTICULARS FOR 415V LT AC PANEL

Project- AEGCL/ROWTA

Our drg no- LTAC415V37

Sl.No.	Description	Clarification/compliance
1.0	Name & address of the Manufacturer	ELECTRO SERVICE INDIA Building no.2,Behala Industrial Estate,620,D.H.Road,Kolkata - 700034
2.0	Enclosure-	
	a) Material	MP
	b) Dimension in mm	2100 X 500 X 2000 (H)
	c) Paint	Powder coated- 692 of IS-5
	d) Degree of protection	IP-42 of IS-13947
3.0	Busbar-	
	a) Standard Applicable:	IS-11353
	b) Material and cross section	Aluminium, 600 sq.mm
	c) Current Density	< 1.0A/ sq.mm
	d) Current Rating	500A
	e) Type of insulator	Epoxy based busbar separator
4.0	Wiring-	
	a) Cross Section:	Please refer to sheet-2 of the drawing
	b) Voltage grade:	1.1KV
	c) Solid or stranded	Multi stranded
	d) Material	Copper
5.0	Indicating Instruments/Meters-	
	a) Standards Applicable:	IS-1248
	b) Manufacturer's name and type:	AE/RISHABH/L&T/CAB3, DIGITAL
	c) Range:	Voltmeter-500V, Ammeter-500A with CT
	d) Accuracy class	Class- 1.5
6.0	Four Pole 500A MCCB (MP based)-	
	a) Manufacturer's name:	L&T/SIEMENS
	b) Standard applicable	IS/IEC 60947-2
	c) Rated Voltage	415V AC
	d) Rated continuous current	500-630A
	e) Rated making/breaking current	36KA
7.0	4 Pole 630A MCCB (Thermal-magnetic)-	
	a) Manufacturer's name:	L&T/SIEMENS
	b) Standard applicable	IS/IEC 60947-2
	c) Rated Voltage	415V AC
	d) Rated continuous current	500-630A
	e) Rated making/breaking current	36KA

Approved

General Manager (P&D)
AEGCL

Checked

DGM, O/o the G.M.(P&D)

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AGM O/o the GM (P&D)

Checked by

Asstt. Manager
O/o the G.M. (P&D)
AEGCL, Narengi, Ghy-26

	4 Pole 200A MCCB (Thermal-magnetic)-	
	a) Manufacturer's name:	L&T/SIEMENS





GUARANTEED TECHNICAL PARTICULARS FOR 415V LT AC PANEL

Project- AEGCL/ROWTA

Our drg no- LTAC415V37

Sl.No.	Description	Clarification/compliance
8.0	b) Standard applicable	IS/IEC 60947-2
	c) Rated Voltage	415V AC
	d) Rated continuous current	160-200A
	e) Rated making/breaking current	25KA
	4 Pole 100A MCCB (Thermal-magnetic)-	
9.0	a) Manufacturer's name:	L&T/SIEMENS
	b) Standard applicable	IS/IEC 60947-2
	c) Rated Voltage	415V AC
	d) Rated continuous current	80-100A
	e) Rated making/breaking current	30KA
4 Pole 63A MCCB (Thermal-magnetic)-		
10.0	a) Manufacturer's name:	L&T/SIEMENS
	b) Standard applicable	IS/IEC 60947-2
	c) Rated Voltage	415V AC
	d) Rated continuous current	50-63A
	e) Rated making/breaking current	30KA
4 Pole 32A MCCB (Thermal-magnetic)-		
11.0	a) Manufacturer's name:	L&T/SIEMENS
	b) Standard applicable	IS/IEC 60947-2
	c) Rated Voltage	415V AC
	d) Rated continuous current	25-32A
	e) Rated making/breaking current	30KA
Two Pole 32A MCB		
12.0	a) Manufacturer's name:	L&T/SIEMENS
	b) Standard applicable	IS/IEC 60898-10KA
	c) Rated Voltage	415V AC
	d) Rated continuous current	32A
	e) Rated making/breaking current	10KA
13.0	Current Transformers	200/5, 5-10VA, Class- 1.5 800/5

For ELECTRO SERVICE INDIA



Papia Biswas
Customer Support Engineer

Place- Kolkata

Date- 06-04-23

Approved

General Manager (P&D)
AEGCL



GTPS-LTAC 415V37

Checked by

Asstt. Manager
O/o the G.M. (P&D)
AEGCL, Narengi, Ghy-26

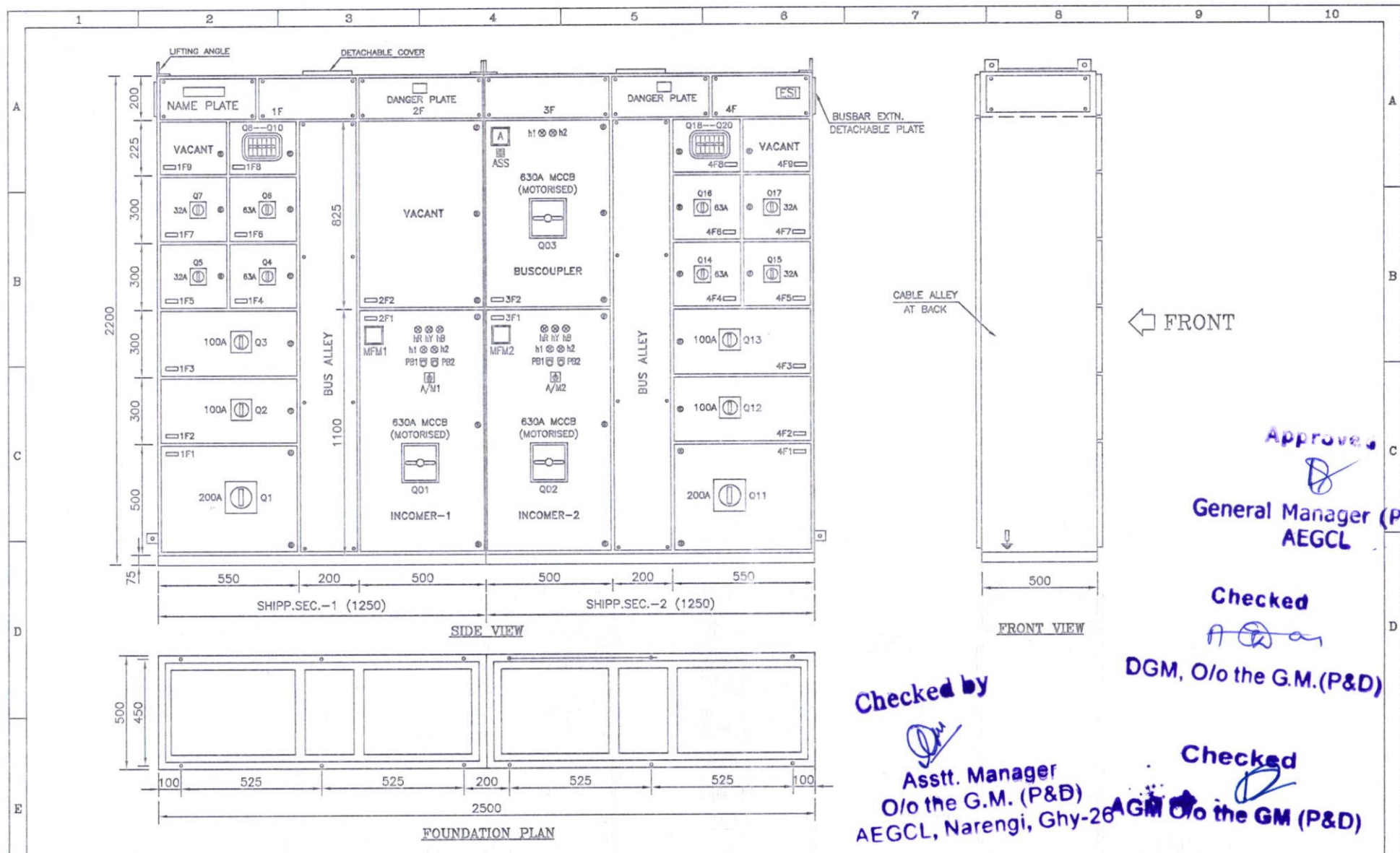
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AGM O/o the GM (P&D)

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DGM, O/o the G.M.(P&D)

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 General Manager (P&D)
 AEGCL

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Checked by

 Asstt. Manager
 O/o the G.M. (P&D)
 AEGCL, Narengi, Ghy-26

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 AGM, O/o the GM (P&D)

DRG NO	LTAC415V37		REV-DT	REVISION PARTICULARS	REV-NO	TITLE	GA OF LTAC PANEL	PROJECT	ROWTA & SONABIL
SHT NO	1 OF 7	DRN BY	P.BISWAS	16.03.2023	AS PER LETTER ISSUED BY AEGCL	01	PAGE TITLE		
DATE	10-03-23	CHKD BY					END USER	AEGCL	ELECTRO SERVICE (INDIA) 620 D.H. ROAD, KOLKATA-34 URL- www.esielectro.com
SCALE	NTS	APRVD BY					CLIENT	T&T PROJECTS LTD	



* Voltmeter with voltmeter selector switch shall be provided for each bus section.
 * One kWh meter with connected CT shall be provided for each bus section

1 2 3 4 5 6 7 8 9 10

BILL OF MATERIALS

SL.NO.	NOMEN	DESCRIPTION	RATING	MAKE	QTY.
1	Q01,Q02,Q03	4P MOTORISED MCCB (20KA) & 1C/O AUX. CONTACT	630A	C&S/HAVELLS	3
2	1CT1-1CT3,2CT1-2CT3,3CT1-3CT3	CURRENT TRANSFORMER, CL-1, 10VA	600/5A	AE/KAPPA/ESI/RISHABH	6
3	MFM1,MFM2	MULTI-FUNCTION METER MEASURING V,V,F (CTR-600/5A, CL-1.0, AUX. SUPPLY-230V AC)	3PH,4W	AE/MECO/RISHABH/L&T/SECURE	2
4	1CF1-1CF3,2CF1-2CF3	CONTROL FUSE LINK WITH BASE	2A	COOPER BUSSMANN/C&S	6
5	hR,hY,hB	PHASE INDICATING LAMP (RED/YELLOW/BLUE)	230V AC	ESSEN/TC(C&S)/ESBEE	4
6	Q1,Q11	4P MCCB (10KA) WITH ROTARY HANDLE & SPREADER LINK	200A	C&S/HAVELLS	2
7	Q2,Q3,Q12,Q13	4P MCCB (10KA) WITH ROTARY HANDLE & SPREADER LINK	100A	C&S/HAVELLS	4
8	Q4,Q5,Q14,Q16	4P MCCB (10KA) WITH ROTARY HANDLE	63A	C&S/HAVELLS	4
9	Q6,Q7,Q15,Q17	4P MCCB (10KA) WITH ROTARY HANDLE	32A	C&S/HAVELLS	4
10	Q8,Q9,Q10,Q18,Q19,Q20	2P SPN MCCB (10KA)	32A	C&S/HAVELLS	6
11	CF1-CF3	CONTROL FUSE LINK WITH BASE	10A	COOPER BUSSMANN/C&S	3
12	q1-q5	SPN MCCB (6KA)	10A	C&S/HAVELLS	5
13	Q1X-Q3X	AUXILIARY CONTACTOR (2NO+2NC) WITH 240V AC COIL	6A	C&S/HAVELLS	3
14	1h1,1h2,2h1,2h2,3h1,3h2	ON/OFF INDICATING LAMP (RED/GREEN)	230V AC	ESSEN/TC(C&S)/ESBEE	6
15	VMR1,VMR2	VOLTAGE MONITORING RELAY (3Ph,4W) WITH 1C/O CONTACT	415V	GIC(L&T)/C&S/MINILEC	2
16	VMR1X,VMR2X	2C/O PLUG IN RELAY	230V AC	PLA/OEN/KAYCEE	2
17	1PB1,1PB2,2PB1,2PB2	START/STOP (GREEN/RED) PUSH BUTTON	10A	ESSEN/TC(C&S)/ESBEE	4
18	A/M1,2,4	AUTO/MANUAL SELECTOR SWITCH	10A	KAYCEE/RECOM/SALZER	2
19	T1,T2	ON DELAY TIMER (WITH NO CONTACT)	0.5-60 SEC	GIC(L&T)/MINILEC/EAPL	2
20	A	AMMETER (CL-1.5, CTR-600/5A)	0-800A	AE/MECO/RISHABH/L&T/SECURE	1
21	ASS	AMMETER SELECTOR SWITCH	6A 10A	KAYCEE/RECOM/SALZER	1
22	TH1,TH2	THERMOSTAT	30-80°C	GIRISH/KS/SILSON/REPUTED	2
23	SH1,SH2	SPACE HEATER	60W	GIRISH/KS/SILSON/REPUTED	2
24	a1,a2	DOOR LIMIT SWITCH	10A	KAYCEE/RECOM/SALZER	2

Approved
 General Manager (P&D)
 AEGCL

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 DGM, O/o the G.M.(P&D)

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 AGM O/o the GM (P&D)

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 Asstt. Manager
 O/o the G.M. (P&D)
 AEGCL, Narengi, Ghy-26

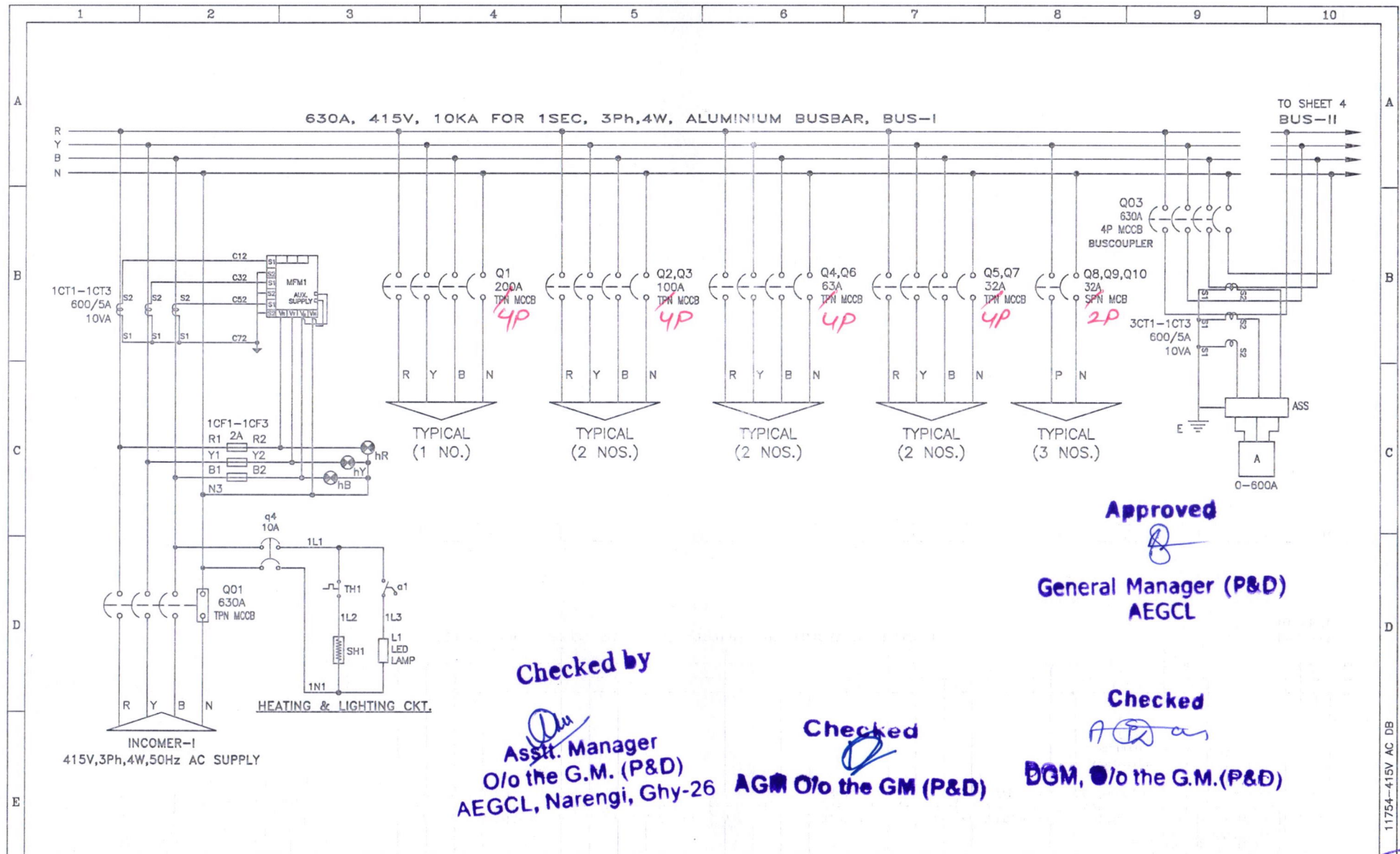
NOTES

- ALL DIMENSIONS ARE IN mm.(TOLERANCE ± 10 m.m.)
- SYSTEM VOLTAGE - 415V 3Ph,4W, 50Hz.
- RATED CURRENT :
 CONTINUOUS - 630A
 SHORT TIME - 10KA FOR 1 SEC. *CRCA*
- PANEL CONSTRUCTION : M.S SHEET OF FOLLOWING SIZE-
 FRAMES - NOT LESS THAN 1.6mm. *2mm*
 DOORS & COVERS - NOT LESS THAN 1.6mm. *2mm*
 GLAND PLATE - 2.5mm. *3mm*
- CABLE ENTRY FROM BOTTOM.
 BUSBAR : ELECTROLYTIC ALUMINIUM
 MAIN BUSBAR SIZE - 50x12 mm (R,Y,B)
 25x12 mm (N)
- BUSBAR WILL BE PVC SHEATHED & COLOUR CODED AS PER IS : 11353.
- DEGREE OF PROTECTION - IP 42.
- GASKETTING WILL BE DONE WITH EPDM RUBBER.
- EARTH BUS : 25x3mm G.S.
- PAINTING SHADE : POWDER COATED 692 OF IS-5
- CONTROL WIRING - 1.5Sq.mm GREY COPPER FLEXIBLE OF 1100V GRADE.
 C.T. WIRING WILL BE WITH 2.5Sq.mm. OF 1100V GRADE.
- POWER WIRING - 6Sq.mm(Ph) & 4Sqmm.(N) GREY COPPER FLEXIBLE OF 1100V GRADE (FOR 32A)
 16Sq.mm(Ph) & 10Sqmm.(N) GREY COPPER FLEXIBLE OF 1100V GRADE (FOR 63A)

DRG NO	LTAC415V37		REV-DT	REVISION PARTICULARS	REV-ND	TITLE	BOM & NOTES OF LTAC PANEL	PROJECT	ROWTA & SONABIL
SHT NO	2 OF 7	DRN BY	P.BISWAS	16.03.2023	AS PER LETTER ISSUED BY AEGCL	01	PAGE TITLE	LTAC PANEL	
DATE	10-03-23	CHKD BY					END USER	AEGCL	
SCALE	NTS	APRVD BY					CLIENT	T&T PROJECTS LTD	



11754-415V AC DB



Approved

General Manager (P&D)
AEGCL

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DGM, O/o the G.M. (P&D)

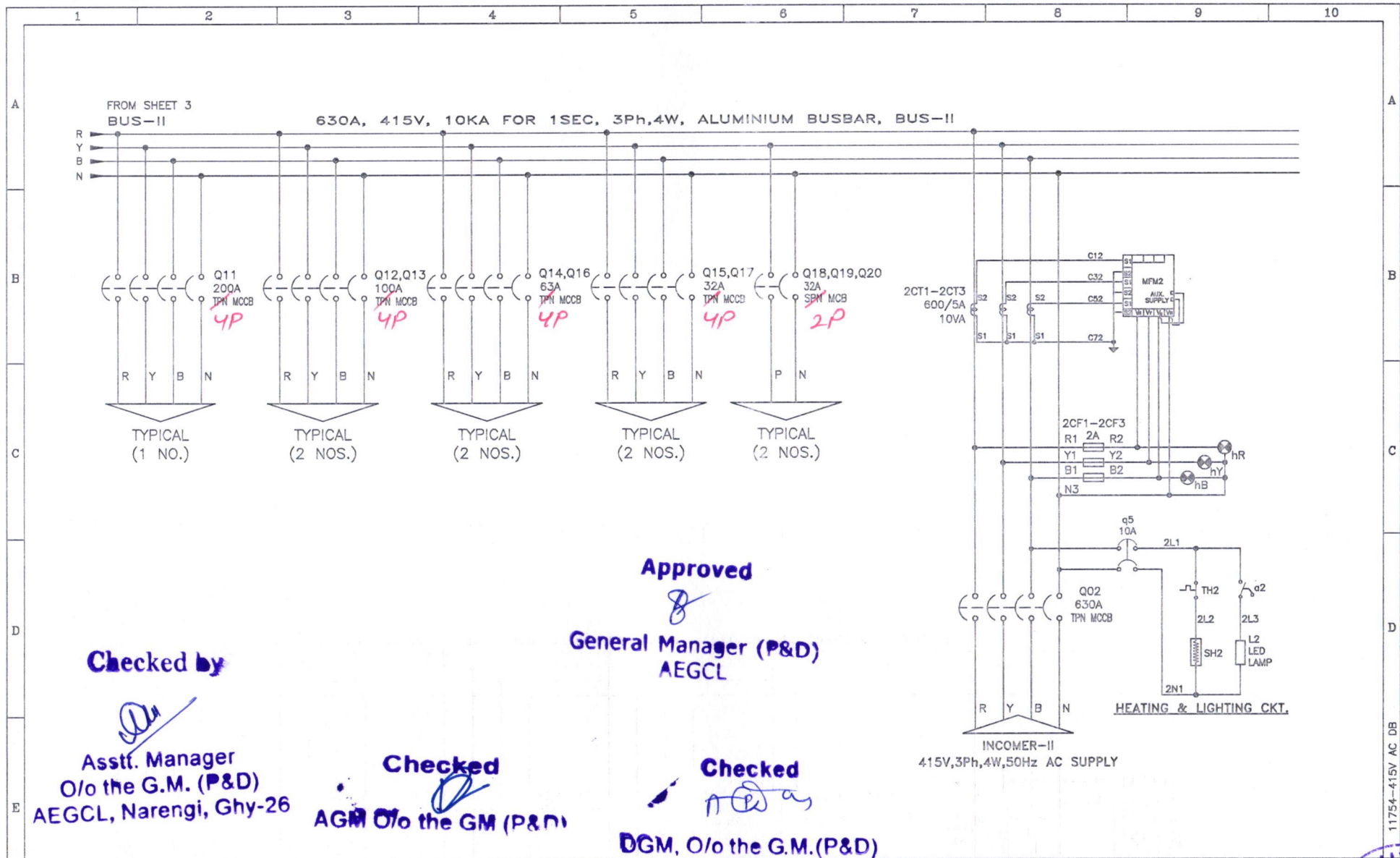
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Asst. Manager
O/o the G.M. (P&D)
AEGCL, Narengi, Ghy-26

Checked
AGM O/o the GM (P&D)

11754-415V AC DB

DRG NO	LTAC415V37			REV-DT	REVISION PARTICULARS	REV-NO	TITLE	SCHMATICS OF LTAC PANEL	PROJECT	ROWTA & SONABIL
SHT NO	3 OF 7	DRN BY	P.BISWAS	16.03.2023	AS PER LETTER ISSUED BY AEGCL	01	PAGE TITLE	LTAC PANEL		
DATE	10-03-23	CHKD BY					END USER	AEGCL	ESI	ELECTRO SERVICE (INDIA)
SCALE	NTS	APRVD BY					CLIENT	T&T PROJECTS LTD		620 D.H. ROAD, KOLKATA-34 URL- www.esielectro.com





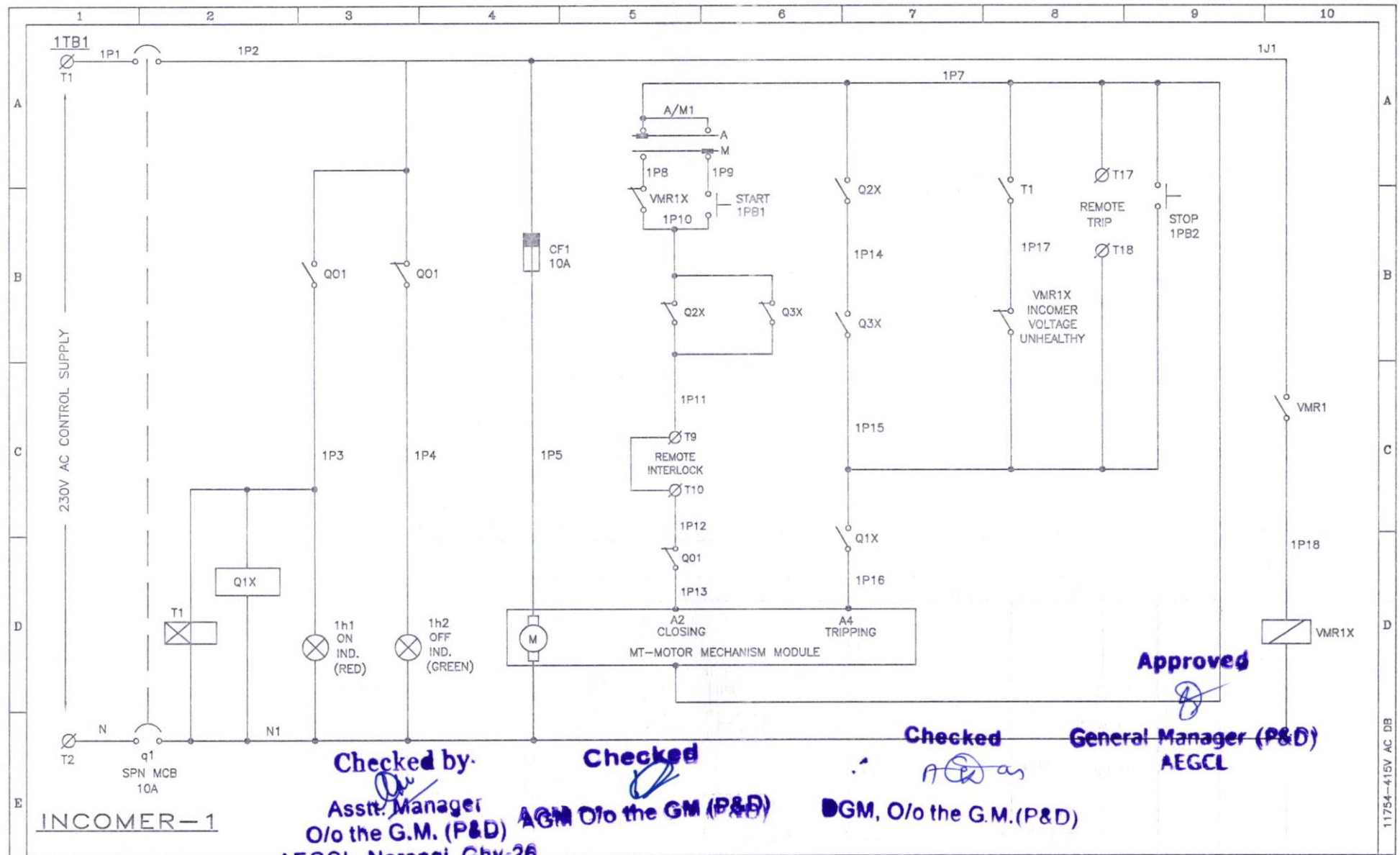
DRG NO	LTAC415V37		REV-DT	REVISION PARTICULARS	REV-NO	TITLE	SCHEMATICS OF LTAC PANEL	PROJECT	ROWTA & SONABIL
SHT NO	4 OF 7	DRN BY	P.BISWAS	16.03.2023	AS PER LETTER ISSUED BY AEGCL	01	PAGE TITLE	LTAC PANEL	
DATE	10-03-23	CHKD BY					END USER	AEGCL	
SCALE	NTS	APRVD BY					CLIENT	T&T PROJECTS LTD	

ESI

ELECTRO SERVICE INDIA
620 D.H. ROAD, KOLKATA-34
URL- www.esielectro.com



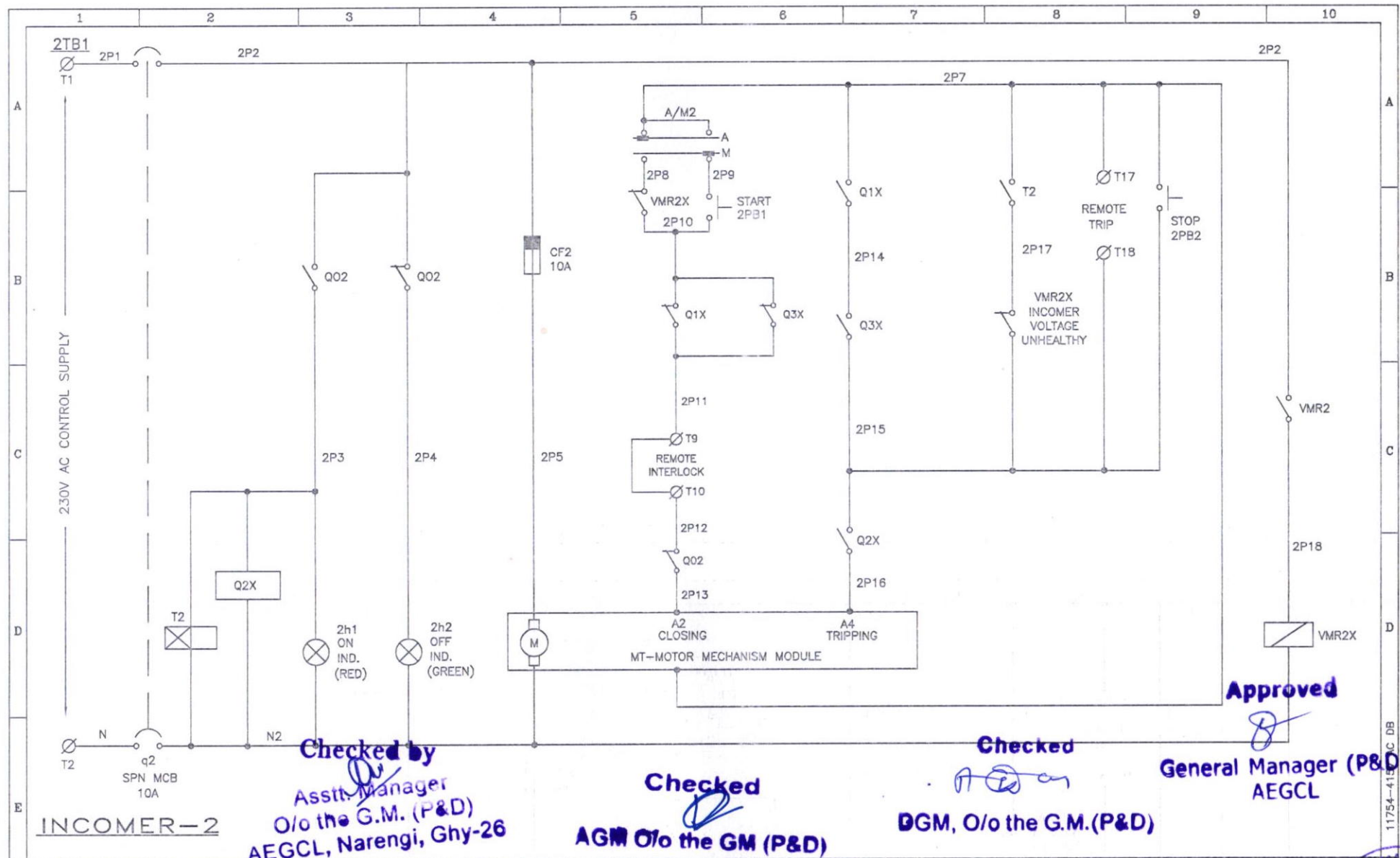
11754-415V AC DB



11754-415V AC DB

DRG NO	LTAC415V37		REV-DT	REVISION PARTICULARS		REV-NO	TITLE	CONTROL CKT. OF LTAC PANEL	PROJECT	ROWTA & SONABIL
SHT NO	5 OF 7	DRN BY	P.BISWAS	16.03.2023	AS PER LETTER ISSUED BY AEGCL	01	PAGE TITLE	LTAC PANEL		
DATE	10-03-23	CHKD BY					END USER	AEGCL	ESI	ELECTRO SERVICE (INDIA) 620 D.H. ROAD, KOLKATA-34 URL- www.esselectro.com
SCALE	NTS	APRVD BY				CLIENT	T&T PROJECTS LTD			





DRG NO	LTAC415V37		REV-DT	REVISION PARTICULARS	REV-NO	TITLE	CONTROL CKT. OF LTAC PANEL	PROJECT	ROWTA & SONABIL
SHT NO	6 OF 7	DRN BY	P.BISWAS	16.03.2023	AS PER LETTER ISSUED BY AEGCL	01	PAGE TITLE	LTAC PANEL	
DATE	10-03-23	CHKD BY					END USER	AEGCL	
SCALE	NTS	APRVD BY					CLIENT	T&T PROJECTS LTD	

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620 D.H. ROAD, KOLKATA-3A
URL- www.esielectro.com



11754-415V37-01-01



ELECTRO SERVICE INDIA
QUALITY ASSURANCE PLAN FOR LT AC PANEL

QAP_03

Sl.no	Item	Parameters to check	% checking	value/criteria	Remarks
A	Incoming Inspection				
1	Fuse Carrier	Insulation resistance at 500VDC	ALL	> 5 MEG Ohm	
2	Fuse link	i) Continuity.	ALL	must have continuity	
3	Contactora	Visual	ALL	Approved make & rating	
4	Switch	Visual	ALL	Approved make & rating	
5	MCB & MCCB	Visual	ALL	Approved make&rating	
6	Voltmeter/Ammeter	i) Calibration of scale	ALL	Approved make&rating	
7	Enclosure	i) Visual & Operational Check ii) Dimension & thickness	ALL	i) Operation of lock, Operation of hinge, Alignment of doors ii) As per drawing	
8	Printed Circuit Board	Functional tests in the Jig [manufactured in-house]	ALL	As per design & specification	Manufacturer's routine TC maintained
11	Transformer	As per transformer routine tests certificate format [manufactured in-house]	ALL	As per design & specification	Manufacturer's routine TC maintained

Approved

[Signature]

General Manager (P&D)
AEGCL



Checked by

[Signature]

Asstt. Manager
O/o the G.M. (P&D)
AEGCL, Narengi, Ghy-26

Checked

[Signature]

AGM O/o the GM (P&D) **DGM, O/o the G.M.(P&D)**

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ELECTRO SERVICE INDIA
QUALITY ASSURANCE PLAN FOR LT AC PANEL

QAP_03

B	Final inspection/ routine test				
1	LT AC PANEL Routine Test	i) Visual check ii) Dimension check iii) Insulation resistance iv) Functional Check v) Voltage & current measurement vi) Annunciation circuits	ALL	As per Data Sheet/ Drg	

** All routine/acceptance test shall be as per relevant IS/IEC standard & shall be witnessed by concerned AEGCL official.*



Checked by

[Signature]
Asstt. Manager
O/o the G.M. (P&D)
AEGCL, Narengi, Ghy-26

Checked
[Signature]
AGM O/o the GM (P&D)

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[Signature]
GM, O/o the G.M.(P&D)

Approved
[Signature]
General Manager (P&D)
AEGCL

GUAREENTED TECHNICAL PARTICULARS of 110V DCDB
Project- AEGCL/ ROWTA. Our drawing No- DCDB110V25

Sl no.	Description	Manufacturer's clarification/compliance
1.0	Name & Address of the Manufacturer	ELECTRO SERVICE INDIA, Building No-2, 620 D.H. Road, Kolkata- 700034
2.0	Enclosure-	
	a) Material	CRCA MS sheet- 2mm
	b) Dimension in mm	700 X 400 X 1300 (H)
	c) Paint	Powder coated - 692 of IS5
	d) Degree of protection	IP-42 of IS-13947
3.0	Bus bar-	
	a. Standard applicable	IS-11353
	b. Material and cross section	Copper- 25X10 mm
	c. Current rating	400A
	e.Type of insulator	Epoxy busbar separator
4.0	Wiring-	
	a. Cross-section	4-5A per sq.mm
	b. Voltage grade	660/1100V
	c. Solid or stranded	Stranded
	d.Material	Copper
5.0	Instruments-	
	a. Standards Applicable	IS- 1248
	b. Manufacturer's name and type	AE/ Rishabh/ Cosmo
	c.Range	Refer to drawing & BOM
	d.Accuracy class:	1.5
6.0	Switches and fuses-	Make- Kaycee & Eaton Standard-IS-13947
7.0	DC Air Circuit Breakers-	
	a. Manufacturer's name	L&T/ Siemens
	b. Type	MCCB & MCB
	c. Standard Applicable	IS-13947
	d. Rated Voltage	110V DC
	e.Rated continuous current	Refer to drawing & BOM
	f.Rated making/breaking current	10KA minimum
	g.Over load /short circuit current release	Thermal & magnetic
8.0	Relays-	OEN/PLA- Refer to our BOM

For ELECTRO SERVICE INDIA



Papia Biswas
Customer Support Engineer

Approved
General Manager (P&D)
AEGCL

Place- Kolkata
D t 06-04-2023

Checked by

Asstt. Manager
O/o the G.M. (P&D)
AEGCL, Narengi, Ghy-26

GTPS-DCDB110V25

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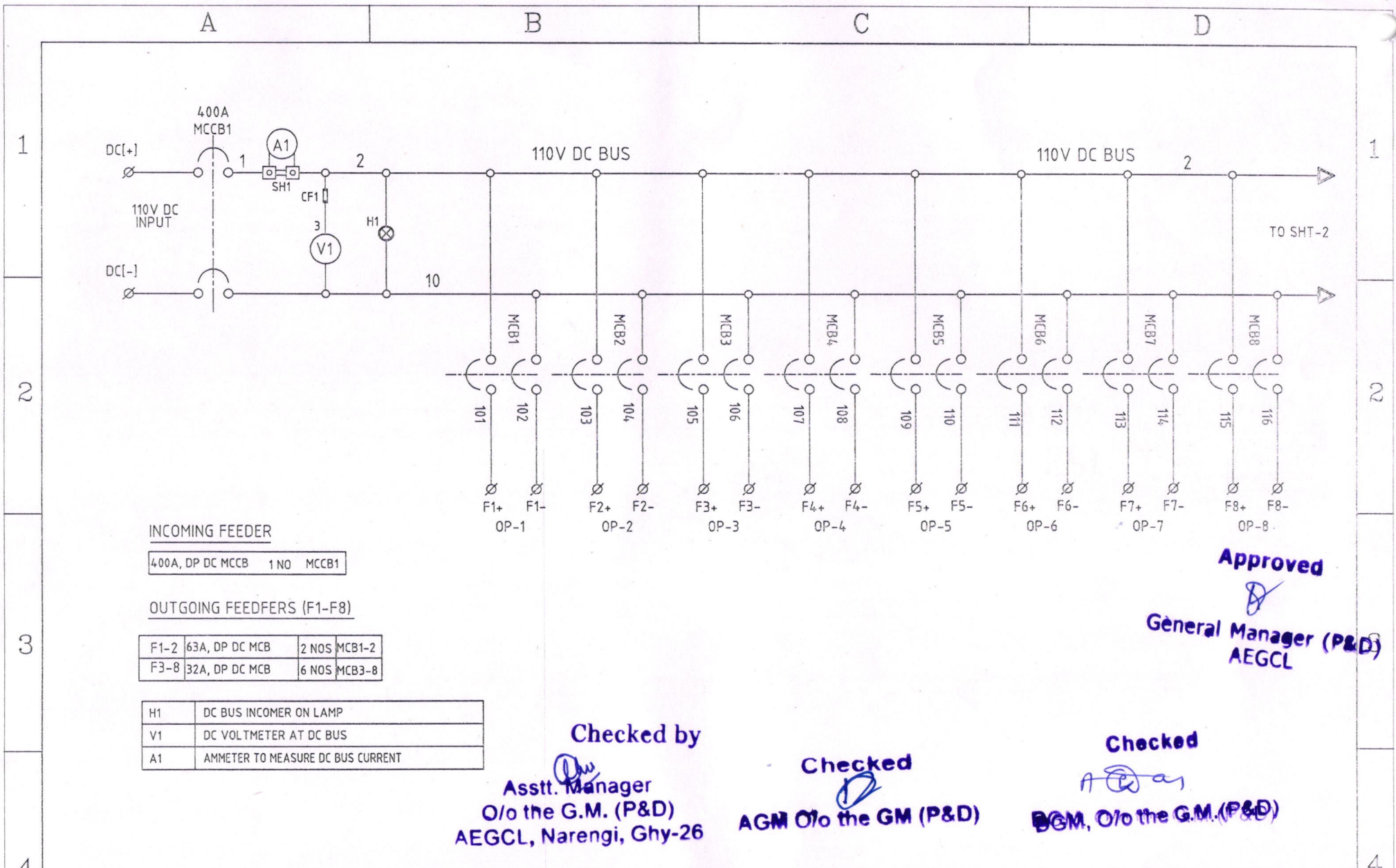
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DGM, O/o the G.M.(P&D)

1 of 1



INCOMING FEEDER

400A, DP DC MCCB	1 NO	MCCB1
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OUTGOING FEEDERS (F1-F8)

F1-2	63A, DP DC MCB	2 NOS	MCB1-2
F3-8	32A, DP DC MCB	6 NOS	MCB3-8

H1	DC BUS INCOMER ON LAMP
V1	DC VOLTMETER AT DC BUS
A1	AMMETER TO MEASURE DC BUS CURRENT

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 Asstt. Manager
 O/o the G.M. (P&D)
 AEGCL, Narengi, Ghy-26

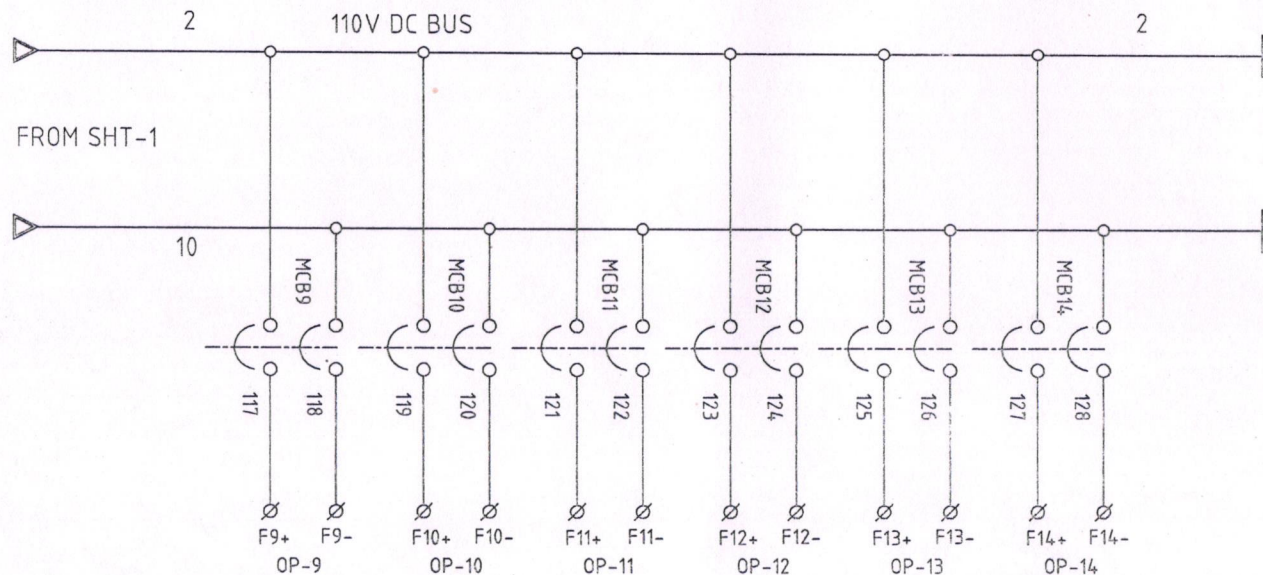
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 BGM, O/o the G.M. (P&D)

Approved
[Signature]
 General Manager (P&D)
 AEGCL

DRG NO	DCDB110V25			REV-DT	REVISION PARTICULARS	REV-NO	TITLE	CIRCUIT DIAGRAM OF 110V DCDB	PROJECT	AEGCL/ROWTA
SHT NO	1 OF 4	DRN BY	SN GHOSH				PAGE TITLE	INCOMER & DCDB FEEDERS 1ST SHEET		
DATE	04-04-23	CHKD BY					END USER			
SCALE	NTS	APRVD BY					CLIENT	T&T PROJECTS LTD	ESI	ELECTRO SERVICE (INDIA) 620 D.H. ROAD, KOLKATA-34 URL- www.esielectro.com





OUTGOING FEEDERS(F9-14)

F9-14	16A, DP DC MCB	6 NOS	MCB9-14
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Approved

 General Manager (P&D)

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 Asstt. Manager
 O/o the G.M. (P&D)
 AEGCL, Narengi, Ghy-26

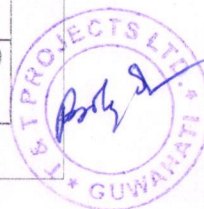
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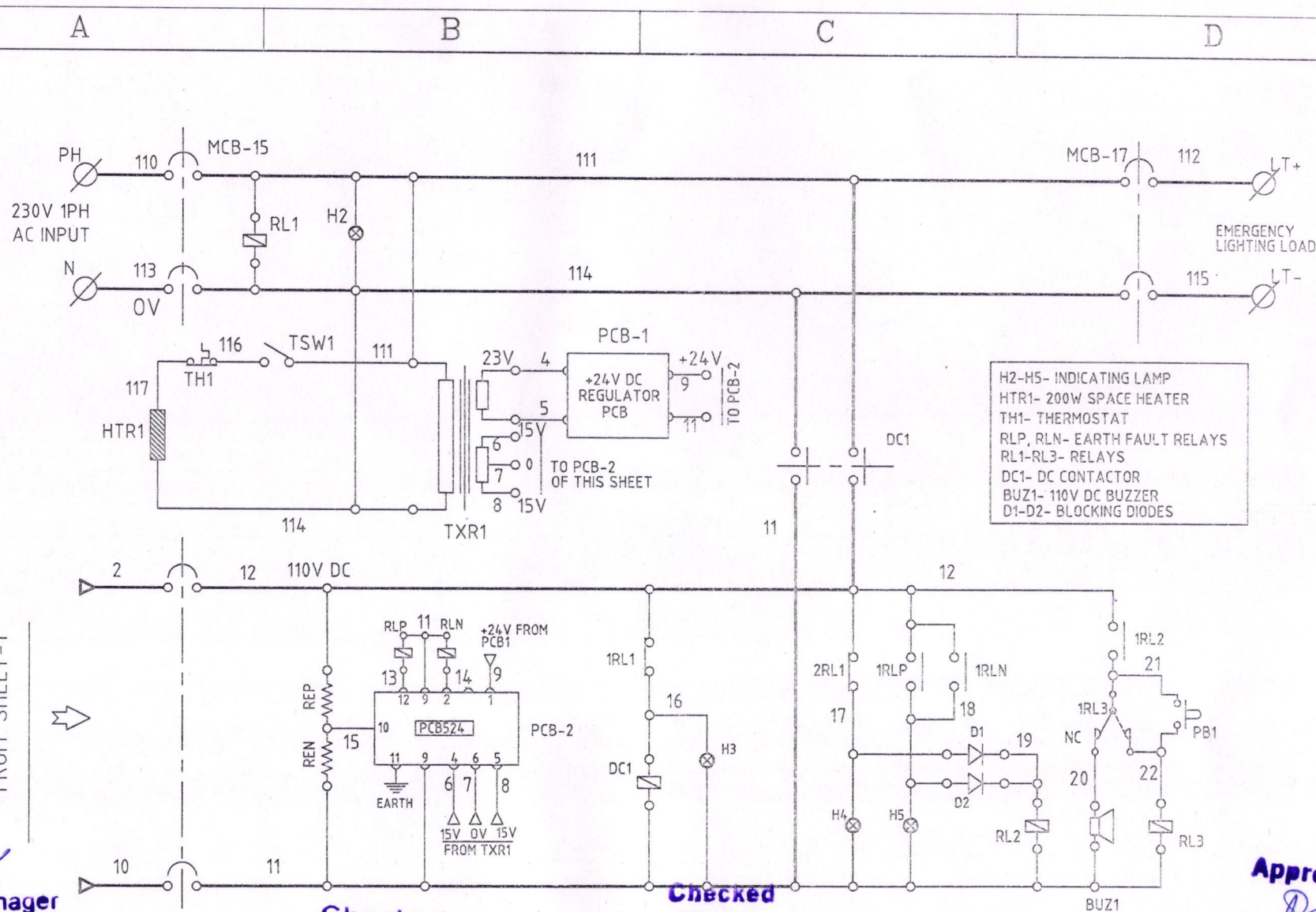
 AGM O/o the GM (P&D)

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 DGM, O/o the G.M. (P&D)

DRG NO	DCDB110V25			REV-DT	REVISION PARTICULARS	REV-NO	TITLE	CIRCUIT DIAGRAM OF 110V DCDB	PROJECT	AEGCL/ROWTA
SHT NO	2 OF 4	DRN BY	SN GHOSH				PAGE TITLE	DCDB FEEDERS 2ND SHEET		
DATE	04-04-23	CHKD BY					END USER			
SCALE	NTS	APRVD BY					CLIENT	T&T PROJECTS LTD	ESI	ELECTRO SERVICE (INDIA) 620 D.H. ROAD, KOLKATA-34 URL- www.esielectro.com





H2-H5- INDICATING LAMP
 HTR1- 200W SPACE HEATER
 TH1- THERMOSTAT
 RLP, RLN- EARTH FAULT RELAYS
 RL1-RL3- RELAYS
 DC1- DC CONTACTOR
 BUZ1- 110V DC BUZZER
 D1-D2- BLOCKING DIODES

FROM SHEET-1

[Signature]
 Assit. Manager
 O/o the G.M. (P&D)
 AEGCL, Narengi, Ghy-26

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[Signature]
 AGM O/o the GM (P&D)

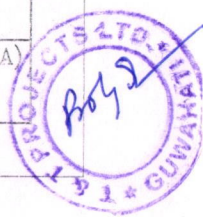
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 DGM, O/o the G.M.(P&D)

Approved
[Signature]
 General Manager (P&D)
 AEGCL

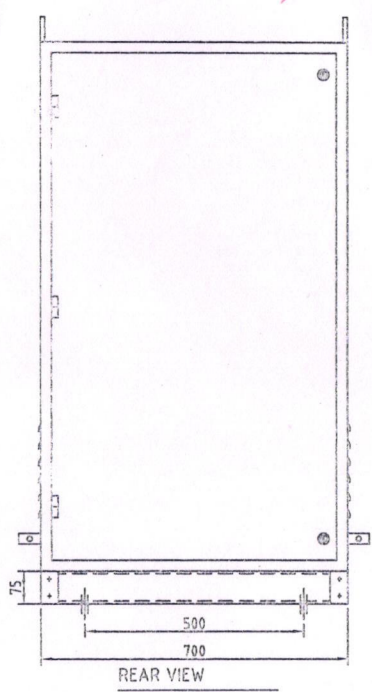
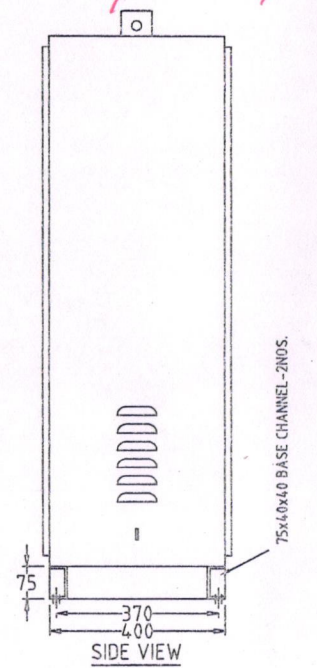
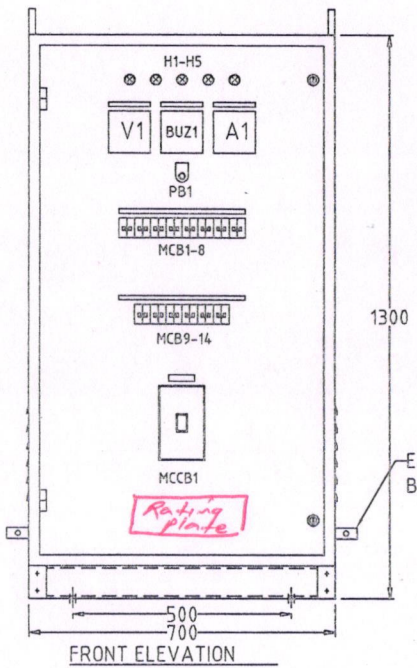
DRG NO	DCDB110V25		REV-DT	REVISION PARTICULARS	REV-NO	TITLE	110V DC DISTRIBUTION BOARD	PROJECT	AEGCL/ROWTA
SHT NO	04-04-23	DRN BY	S N GHOSH			PAGE TITLE	EMERGENCY LIGHTING AND EARTH FAULT CIRCUIT		
DATE	03-04-23	CHKD BY				CONTRACTOR			
SCALE	NTS	APRVD BY				CLIENT	T & T PROJECTS LTD		

ESI

ELECTRO SERVICE (INDIA)
 620 D.H. ROAD, KOLKATA-34
 URL- www.esielectro.com



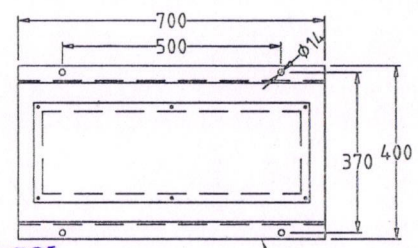
**Double leaf hinged door shall be provided at the back.*



LEGENDS.
Indicating LEDs:
 H1 - DC INCOMER ON
 H2 - AC MAINS ON
 H3 - DC EMERGENCY ON
 H4 - AC MAINS FAIL
 H5 - DC BUS EARTH FAULT

Meters:
 V1 - DC BUS VOLTAGE
 A1 - DC BUS CURRENT

MCCB/MCB
 MCCB-1- 400A DP DC
 MCB1-2 = 63A DC DP MCB
 MCB3-8 = 32A DC DP MCB
 MCB9-14 = 16A DC DP MCB



NOTES

- ALL DIMENSIONS ARE IN mm. (TOLERANCE ± 10 m.m.)
- PANEL CONSTRUCTION : M.S SHEET - 2MM
- PAINTING SHADE : POWDER COATED, 692 OF IS-5
- DEGREE OF PROTECTION - IP 42.
- GASKETTING WILL BE DONE WITH EPDM RUBBER.
- MAIN BUSBAR : ELECTROLYTIC COPPER- 25X10 MM
- EARTH BUS : 25x6mm ALUMINIUM
- BUSBAR WILL BE PVC SHEATHED & COLOUR CODED.
- ELECTRONIC CONTROL WIRING - 0.75 SQ.MM
- ELECTRICAL CONTROL WIRING - 2.5 SQ.MM, 660/1100V GRADE
- POWER WIRING - GREY COPPER FLEXIBLE WIRE-660/1100V GRADE
 - 63A FEEDERS-- 16 SQ.MM
 - 32A FEEDERS-- 6 SQ.MM
 - 16A FEEDERS-- 4 SQ.MM
- SYSTEM VOLTAGE- 110V DC

Checked by
Dw
 Asstt. Manager
 O/o the G.M. (P&D)
 AEGCL, Narengi, Ghy-26

Checked
D
 AGM O/o the GM (P&D)

Checked
ACD
 DGM, O/o the G.M.(P&D)

Approved
[Signature]
 General Manager (P&D)
 AEGCL

DRG NO	DCDB110V25		REV-DT	REVISION PARTICULARS	REV-NO	TITLE	110V DC DISTRIBUTION BOARD	PROJECT	AEGCL/ROWTA
SHT NO	4 OF 4	DRN BY	P BISWAS			PAGE TITLE	ENCLOSURE DRAWING	ESI	ELECTRO SERVICE (INDIA) 620 D.H. ROAD, KOLKATA-34 URL- www.esielectro.com
DATE	04-04-23	CHKD BY				END USER			
SCALE	NTS	APRVD BY				CLIENT	T&T PROJECTS LTD		



A	B	C	D	E	F	G
1	COMPONENTS	RATING	LEGEND	QTY.	DEVICE	MAKE
2	ALARM FOR FAULTS	110V DC BUZZER, 96 SQMM	BUZ1	1	BUZZER	VAISHNO/REPUTED
3	DC CONTACTOR	12A, 110V DC	DC1	1	CONTACTOR	SIEMENS/L&T
4	DIODE (PLASTIC)	3A, 800V	D1-2	2	DIODE	REPUTED
5	HRC FUSE BASE & TOP	415V, 32A	CF1	1	FUSE CARRIER	EATON
6	HRC FUSE LINK	415V, 10A	CF1	1	FUSE LINK	EATON
7	SPACE HEATER	200W, 230V AC	HTR1	1	HEATER	REPUTED
8	CLUSTERED LED LAMP	230V, AC	H1-H2	2	LAMP	SIEMENS/ESBEE
9	CLUSTERED LED LAMP	110V, DC	H3-5	3	LAMP	SIEMENS/ESBEE
10	OUTGOING FEEDERS	63A, DP DC MCB	MCB1-2	2	MCB	SIEMENS/L&T
11	AC INPUT MCB	16A, 220V AC 2P	MCB15	1	MCB	SIEMENS/L&T
12	DC INPUT MCB TO LIGHTING LOAD	16A, 220V AC/DC 2P	MCB16	1	MCB	SIEMENS/L&T
13	EMERGENCY LIGHTING OP MCB	16A, 220V AC/DC 2P	MCB17	1	MCB	SIEMENS/L&T
14	OUTGOING FEEDERS	32A, DP DC MCB	MCB3-8	6	MCB	SIEMENS/L&T
15	OUTGOING FEEDERS	16A, DP DC MCB	MCB9-14	6	MCB	SIEMENS/L&T
16	INCOMER BREAKER	400A 2P/3P DC	MCCB1	1	MCCB	SIEMENS/L&T
17	AMMETER	100A, DC	A1	1	METER	AE/COSMO
18	VOLTMETER	200V, DC	V1	1	METER	AE/COSMO
19	POWER SUPPLY PCB	24V REGULATOR PCB	PCB-1	1	PCB	ESI
20	EARTH FAULT PCB	PCB-524	PCB-2	1	PCB	ESI
21	MAINS FAIL RELAY	230V AC, 6A, 2C/O	RL1	1	RELAY	PLA/OEN
22	ANNUNCIATION RELAY	110V DC, 3A, 2C/O	RL2, RL3	2	RELAY	PLA/OEN
23	ESRTH FAULT RELAY	24V DC, 2C/O	RLP & RLN	2	RELAY	PLA/OEN
24	PUSH BUTTON SWITCH	110V DC, 3A, 22.5mm	PB1	1	SWITCH	SIEMENS/L&T/ ESSEN
25	HEATER CONTROL THERMOSTAT	50-80 DEG C, NC	TH1	1	SWITCH	REPUTED
26	HEATER ON/OFF SWITCH	10A, SPST TOGGLE	TSW1	1	SWITCH	KAYCEE/REPUTED
27	CONTROL TRANSFORMER	230V/ MULTI SEC, 20VA	TXR1	1	TRANSFORMER	ESI

(for earth fault alarm relay)

** DC Bell shall be provided for mains failure alarm relay and DC buzzer for earth fault alarm relay.*

Approved

[Signature]
General Manager (P&D)
AEGCL



Checked

AGM O/o the GM (P&D)

DCDB110V25-PT

Checked

BGM, O/o the G.M. (P&D)

Checked by

[Signature]
Asstt. Manager
O/o the G.M. (P&D)
AEGCL, Narengi, Ghy-26

JOB NO.



**ELECTRO SERVICE (INDIA)
QUALITY ASSURANCE PLAN FOR DCDB**

QAP_02

Sl.no	Item	Parameters to check	% checking	value/criteria	Remarks
A	Incoming Inspection				
1	Fuse Carrier	Insulation resistance at 500VDC.	ALL	> 5 MEG Ohm	
2	Fuse link	i) Continuity.	ALL	must have continuity	
3	Contactors	Visual	ALL	Approved make & rating	
4	Switch	Visual	ALL	Approved make & rating	
5	Diodes & Thyristors	Visual	ALL	Approved make & rating	
6	MCB & MCCB	Visual	ALL	Approved make&rating	
7	Voltmeter/Ammeter	i) Calibration of scale	ALL	Approved make&rating	
8	Enclosure	i) Visual & Operational Check ii) Dimension & thickness	ALL	i) Operation of lock, Operation of hinge, Allignment of doors ii) As per drawing	
9	Printed Circuit Board	Functional tests in the Jig [manufactured in-house]	ALL	As per design & specification	Manufacturer's routine TC maintained

Approved

**General Manager (P&D)
AEGCL**

Checked by

[Signature]
**Asstt. Manager
O/o the G.M. (P&D)
AEGCL, Narengi, Ghy-26**

Checked
[Signature]
AGM O/o the GM (P&D)

Checked
[Signature]
DGM, O/o the G.M.(P&D)






**ELECTRO SERVICE (INDIA)
QUALITY ASSURANCE PLAN FOR DCDB**


QAP_02


B	Final inspection/ routine test				
1	DCDB Routine Test	i) Visual check ii) Dimension check iii) Insulation resistance iv) Functional Check v) Voltage & current measurement vi) Annunciation circuits	ALL	As per Data Sheet/ Drg	

**All the acceptance test shall be as per relevant IS/IEC standard & shall be witnessed by concerned AEGCL official.*



Checked by

 Asst. Manager
 O/o the G.M. (P&D)
 AEGCL, Narangi, Ghy-26

Checked

 AGM O/o the GM (P&D)

Checked

 DGM, O/o the G.M.(P&D)

Approved

 General Manager (P&D)
 AEGCL