

CLIENT	 BIHAR STATE POWER TRANSMISSION CO. LTD.(BSPTCL)			
CONTRACTOR	 LIVINDIA INFRA PRIVATE LIMITED			
PROJECT :	CONSTRUCTION OF 2x50 MVA,132/33KV GRID SUB-STATION, DAUDNAGAR & 3x50MVA, 132/33KV GRID SUB-STATION, NABINAGAR ,DIST-AURANGABAD			
NIT No.	13/PR/BSPTCL/2021			
/AGREEMENT NO:	13 & 14 dated 24.09.2021			
INDEX				
SL.NO.	DESCRIPTION	DRAWING / DOCUMENTS NUMBER	QTY.	REMARKS
1	415V MAIN SWITCH BOARD	ASPL/LIPL/22076A	2Nos.	FOR APPROVAL
2	415V AC DISTRIBUTION BOARD	ASPL/LIPL/22076B	2Nos.	FOR APPROVAL
3	415V MLDB	ASPL/LIPL/22076C	2Nos.	FOR APPROVAL
4	415V ELDB	ASPL/LIPL/22076D	2Nos.	FOR APPROVAL
5	250V DCDB	ASPL/LIPL/22076E	2Nos.	FOR APPROVAL
6	48V DCDB	ASPL/LIPL/22076F	2Nos.	FOR APPROVAL
7	132kV BMK	ASPL/LIPL/22076G	11Nos.	FOR APPROVAL
8	33kV BMK	ASPL/LIPL/22076H	11Nos.	FOR APPROVAL
9	LIGHTING PANEL(INDOOR) TYPE ACP-1	ASPL/LIPL/22076I	8Nos.	FOR APPROVAL
10	LIGHTING PANEL (OUTDOOR) TYPE ACP-2	ASPL/LIPL/22076J	16Nos.	FOR APPROVAL
11	LIGHTING PANEL (OUTDOOR) TYPE ACP-3	ASPL/LIPL/22076K	6Nos.	FOR APPROVAL
12	LIGHTING PANEL(INDOOR) TYPE DCP	ASPL/LIPL/22076L	2Nos.	FOR APPROVAL

APPROVED

Subject to the condition that you are not absolved of the responsibility for the work of the materials supplied as per

[Signature]

Electrical Engineer
(Planning and Designing)
Bihar State Power Transmission Co. Ltd. Limited

Vidya Vinayak, Patna-800021

[Signature]
28.07.2022

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V - CON ELECTRONICS

(Manufacturing and Repairing of Distribution Transformer 16 KVA - To - 1000 KVA,
Power Transformer 3 MVA - To - 5 MVA also Manufacturer of Distribution LT
Panel, Line Voltage Control Stabilizer up to 2 MVA.)

एन एस आई सी
NSIC
ISO 9001 : 2015



Ref.No.:

Date 19.05.2022

GUARANTEED TECHNICAL PARTICULARS OF 25 KVA LIGHTING TRANSFORMER

CUSTOMER : M/s ASIAN SWITCHGEAR PVT. LTD.

B-17, Rooma Industrial Estate.

Kanpur,

S.No.	PARTICULARS	AS PER SPECIFICATION
1	Transformer Rating	25 KVA Air Cooled Cu Wounded
2	Phase	Three Phase
3	Frequency	50 Hz
4	Vector Group	DYN 1
5	Primary	415V 3 Ph Delta
6	Secondary	415V 3 Ph. Star
7	Impedance	4.25% Volts
8	Input Current	34.78 Amp.
9	Output Current	34.78 Amp.
10	Temp. Rise Max.	45° C
11	Insulation	F Class
12	Weight of Transformer	182 Kg.

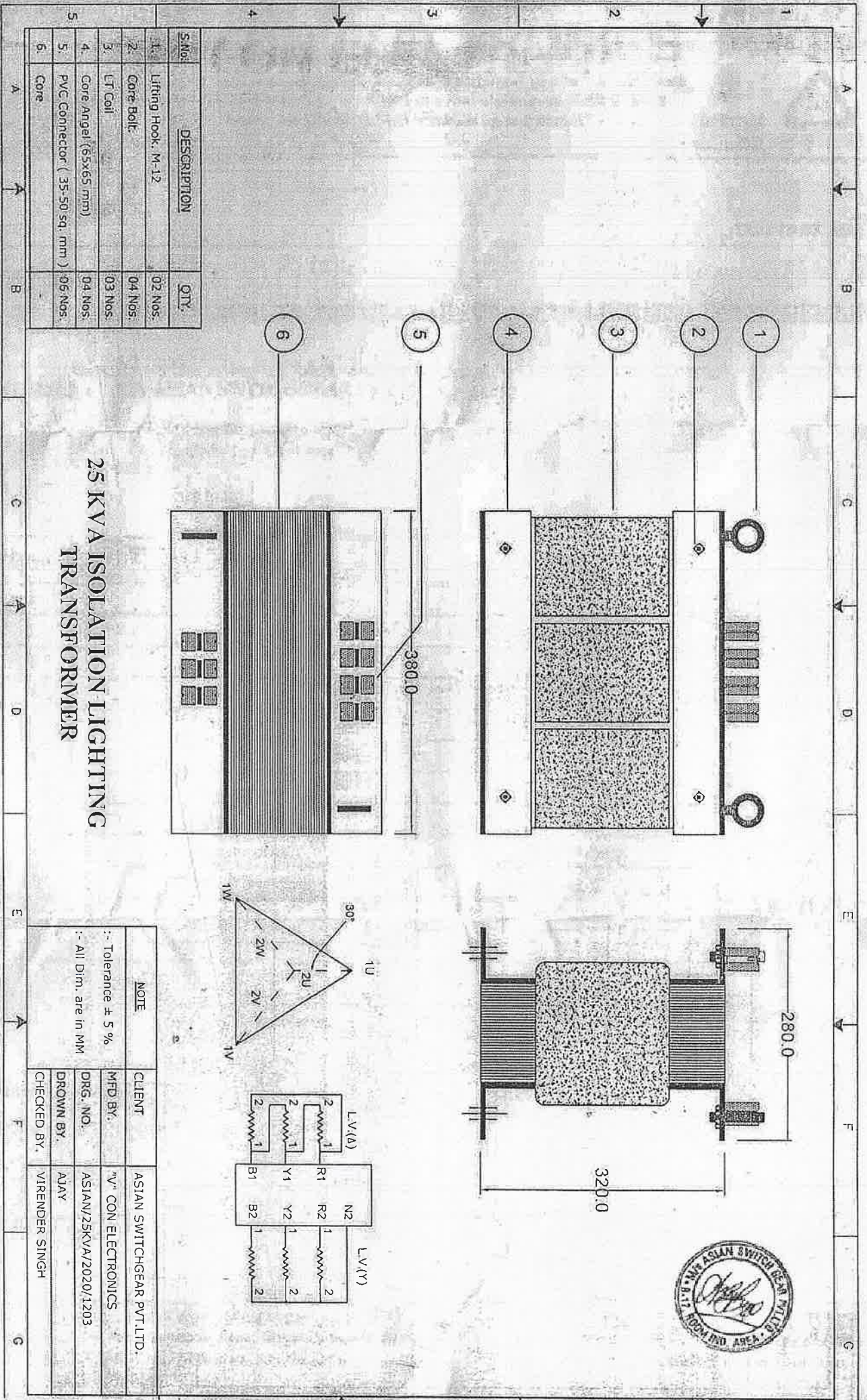
Authorized Signature

V - CON ELECTRONICS .



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**STANDARD GUARANTEED TECHNICAL PARTICULARS FOR
 415V MSB, 415V ACDB, MLDB, ELDB, LIGHTING PANELS & BMK**

Drawing/GTP :-		
CLIENT		BIHAR STATE POWER TRANSMISSION CO. LTD.(BSPTCL)
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GENERAL

- | | |
|---------------------------------------|-------------------------------------|
| 1. Manufacturer's Name | : Asian Switchgear Pvt. Ltd. Kanpur |
| 2. Rated Voltage & Frequency | : 415V± 10% AC & 50 Hz ± 5% |
| 3. Enclosure sheet metal details | : 2.0/1.6 mm. (14/16SWG CRCA) |
| 4. Painting shade | |
| (a) External surfaces | : RAL-7032 |
| (b) Internal surfaces | : RAL-7032 |
| 5. Ambient Temperature | : 50 °C |
| 6. Material of the support insulators | : SMC/DMC |
| 7. Degree Of protection | : IP:52 (IP:42 FOR BUSBAR CHAMBER) |
| 8. Panel Construction Type | : Indoor Type , Fixed Type |

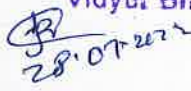
AIR CIRCUIT BREAKER (ACB)

- | | |
|--|---|
| 1. Make | : C&S/HPL |
| 2. Type | : Air Break ,Thermal Release, Manual/Electrical Operated Type |
| 3. Nos. of Pole | : 3 (As Per Drawing) |
| 4. Operating Voltage and frequency | : 415V , 50Hz |
| 5. Rated operating duty | : As Per IS |
| 6. Rated current | : 630A |
| 7. Rated short-circuits Breaking capacity (Ics) | : 20KA (RMS) |
| 8. Rated short-circuits Making capacity | : 42KA (RMS) |
| 9. Short time withstands current for 1 sec. duration | : 20KA (RMS) For 1Sec. |
| 10. No. of Auxiliary contacts | : 4NO+4NC |
| 11. Operating Position | : Service-Test-Isolation |

APPROVED

Subject to the condition that you are not absolved of the responsibility for correctness of the materials supplied as per specification


 Electrical Superintendent Engineer
 (Planning and Designing)
 Bihar State Power Transmission Company Limited
 Vidyut Bhawan, Patna-800021





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12. Rated Voltage and pickup burden of

- a. Trip coil : 250V DC/200W
- b. Closing coil : 250V DC/200W

13. Voltage & Power consumption of Spring charging motor

: 200 W, 220V DC

14. Indication of service / Test /Isolated Position

: Yes

15. ACB Have trip free and Anti-pumping features

: Provided

MOULDED CASE CIRCUIT BREAKER (MCCB Motorized Type)

- 1. Make : C&S
- 2. Type : Thermal Release, Manual/Electrical Operated Type
- 3. Nos. of Pole : 4
- 4. Operating Voltage and frequency : 415V , 50Hz
- 5. Rated operating duty : As Per IS
- 6. Rated current : 250A/100A
- 7. Rated short-circuits Breaking capacity (Ics) : 20KA (RMS)
- 8. Rated short-circuits Making capacity : 42KA (RMS)
- 9. No. of Auxiliary contacts : 1NO+1NC
- 9. Rated Voltage and pickup burden of
 - a. Trip coil : 250V DC/50VA
 - b. Closing coil : 250V DC/50VA
- 10. Voltage & Power consumption of Spring charging motor : 200 W , 220V DC

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**Electrical Superintending Engineer
 (Planning and Engineering)
 Bihar State Power Transmission Company Limited
 Vidyut Bhawan, Patna-800021**

28.07.2022

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MOULDED CASE CIRCUIT BREAKER (MCCB)

- | | |
|---|---|
| 1. Make | : C&S/HPL |
| 2. Type | : Thermal Release, Manual Operated Type |
| 3. Nos. of Pole | : 4 |
| 4. Operating Voltage and frequency | : 415V , 50Hz |
| 5. Rated operating duty | : As Per IS |
| 6. Rated current | : As Per Drawing |
| 7. Rated short-circuits Breaking capacity (Ics) | : 20KA (RMS) |
| 8. Rated short-circuits Making capacity | : 42KA (RMS) |

POWER CONTACTOR

- | | |
|----------------------|----------------------------------|
| 1. Make | : C&S/HPL |
| 2. Type | : AC-1/AC-3 |
| 3. Nos. of Pole | : 3 |
| 4. Operating Voltage | : 415V AC , Coil Voltage-230V AC |
| 5. Rated current | : As Per Drawing |

MINIATURE CIRCUIT BREAKER (MCB)

- | | |
|----------------------|----------------------------------|
| 1. Make | : C&S /HPL |
| 2. Type | : C-CURVE , Manual Operated Type |
| 3. Nos. of Pole | : 3/2/1 |
| 4. Operating Voltage | : 415V/230V AC , 10kA |
| 5. Rated current | : As Per Drawing |

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Electrical Superintendent Engineer
 (Planning and Engineering)
 Bihar State Power Transmission Company Limited
 Vidyal Bhawan, Patna-800021

20.10.22

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POWER BUSBAR AND INSULATORS

- | | |
|---|--|
| 1. Material of Bus Bar | : Copper |
| 2. Bare/Painted epoxy Insulated / sleeved | : Heat Shrink Sleeved |
| 3. Size | : As per Drawing |
| 4. Current Rating | : As Per Requirement |
| 5. Temp Rise above Ambient temp. (50 °C) | : 55 °C |
| 6. Bus Bar Clearance in Air | |
| (a) Between phases | : 20mm (Minimum) |
| (b) Between phases and earth | : 20mm (Minimum) |
| | (Note:-Clearance between Terminals at Components shall be as per Applicable Individual Standard for Components Manufacturer) |
| 7. Bus bar Support & Insulator | : SMC/DMC |
| 8. Voltage | : 415V AC |
| 9. 1Minut H.V. Withstand Test | : 2.5KV AC |

CURRENT TRANSFORMER

- | | |
|--------------------------------|---------------------------------|
| 1. Make | : AE/Reputed |
| 2. Type | : Cast Resin, Bar primary (BPL) |
| 3. Rating | : As Per Requirement |
| 4. Accuracy Class/Voltage | : CI-1/5P15/PS/415V AC |
| 5. Class of Insulation | : E or Better |
| 6. CT Secondary Current Rating | : 1A |

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Am
 Electrical Supervising Engineer
 (Planning and Designing)
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21.07.2022

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VOLTAGE TRANSFORMER

- | | |
|---|---------------------|
| 1. Make | : V-CON/Reputed |
| 2. Type | : Dry Type |
| 3. Rating | : 415/√3 V/110/√3 V |
| 4. Accuracy Class/Voltage | : CI-0.5 ,50VA |
| 5. Method of connection Primary/Secondary | : Star/Star |

METERING

- | | |
|---------------------------|--------------------|
| 1. Make | : AE/RISHABH |
| 2. Ammeter/Voltmeter Type | : Analog 96Sq.mm. |
| 3. Energy Meter Type | : Digital 96Sq.mm. |
| 4. Rating | : 1A /415V AC |
| 5. Accuracy Class | : CI-1/1.5 |

INDICATION

- | | |
|-----------|--------------------------|
| 1. Make | : Vaishno/C&S |
| 2. Type | : Led Type |
| 3. Size | : 22.5 Sq.mm. |
| 4. Rating | : 64V AC/230V AC/220V DC |
| 5. Colour | : As Per Drawing |

RELAYS

- | | |
|------------------|--|
| 1. Make | : CSPC(C&S)/JVS/REPUTED |
| 2. Application | : Over current ,Earth fault , Under & Over Voltage |
| 3. Coil Burden | : 7.5 to 30VA |
| 4. Setting Range | : As per requirement |

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[Signature]
 Electrical Supervising Engineer
 (Planning and Designing)
 Bihar State Power Transmission Company Limited
 Vidyut Bhawan, Patna-800021
[Signature] 28.07.2022 *[Signature]*