

Drawing approval subject to valid vendor registration

EPC works only

OUTDOOR JUNCTION BOX FOR LIGHTING WITHOUT TIMER

CLIENT : TRANSMISSION CORPORATION OF ANDHRA PRADESH
 CONTRACTOR : AS APPLICABLE
 PROJECT : AS APPLICABLE
 Manufacturer : M/s. SRINIVASA ENTRPRISES
 Quantity : AS APPLICABLE
 Drawing No. : SE / APTRANSCO / OUTDOOR JUNCTION BOX / 59 / 24-25

**Chief Engineer/Projects
 APTRANSCO/VS/Vijayawada.**

| SH.NO. | DESCRIPTION | SHEET NO. | REV. No. |
|--------|--------------------------------|-----------|----------|
| 01 | COVER SHEET & TABLE OF CONTENT | 01 OF 08 | R0 |
| 02 | GENERAL ARRANGEMENT | 02 OF 08 | R0 |
| 03 | GENERAL NOTES | 03 OF 08 | R0 |
| 04 | GENERAL NOTES | 04 OF 08 | R0 |
| 05 | SINGLE LINE DIAGRAM | 05 OF 08 | R0 |
| 06 | POWER CIRCUIT DIAGRAM | 06 OF 08 | R0 |
| 07 | TERMINAL BLOCK DETAILS | 07 OF 08 | R0 |
| 08 | BILL OF MATERIALS | 08 OF 08 | R0 |

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|------------|-----|-------------------------------|------------|----------------|
| 04. | - | DRAWN | BINDU | |
| 03. | - | CHKD. | NARASIMHAM | |
| 02. | - | APPD. | S.S.RAO | |
| 01. | - | ALL DIMENSIONS IN mm. SIGN. | | |
| 25-05-2024 | 00. | FIRST SUBMISSION FOR APPROVAL | | TOLERANCE 5% |
| DATE | No. | REVISIONS DESCRIPTION | | REVISIONS : 00 |

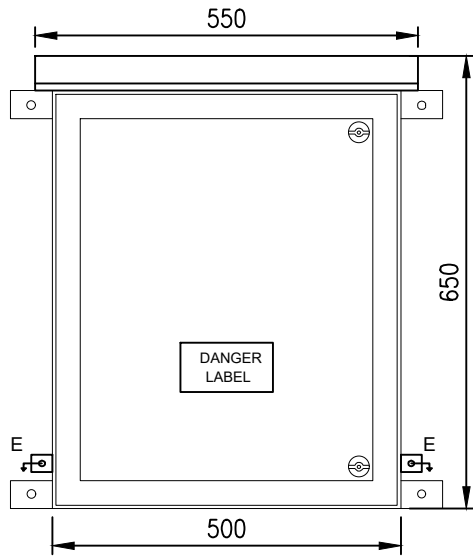
MANUFACTURER
SRINIVASA ENTERPRISES
 B-5, T.I.E - BALANAGAR,
 HYDERABAD - 500037,
 PH.No : 9246378045,
 EMAIL : somana123@yahoo.com



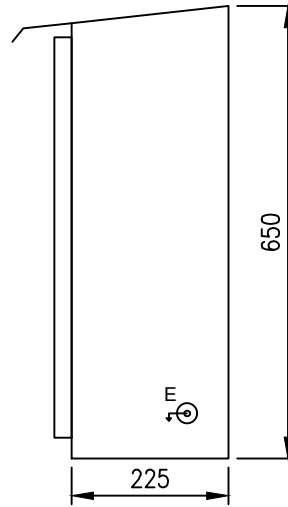
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| DRAWING | COVER SHEET & TABLE OF CONTENT |
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| | SH. No. 01 OF 08 |

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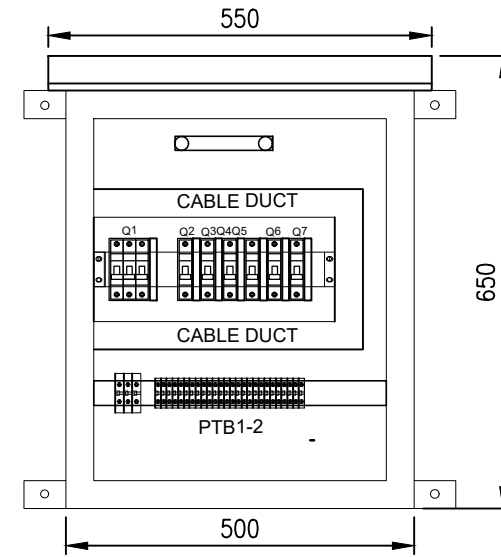
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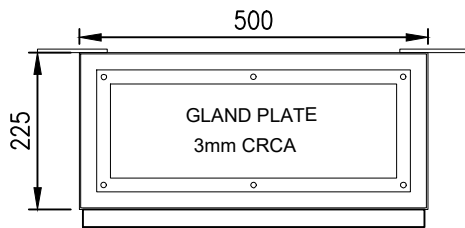
FRONT VIEW



SIDE VIEW



FRONT INTERNAL VIEW



BOTTOM VIEW

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| DRAWING | GENERAL ARRANGEMENT |
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| | SH. No. 02 OF 08 |



GENERAL TECHNICAL PARTICULARS

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- 1. (a) Type Of Panel :Non-Drawout Type
:Non-Compartmentlised Structure
:Construction Single Front
- (b) Type Of Mounting :Wall Mounting
- 2. Cable Entry :Bottom
- 3. Thickness Of Sheet Steel :Bottom
- (a) Base Channel :NA
- (b) Frame & Board :2mm (CRCA)
- (c) Canopy :1.6mm (CRCA)
- (d) Gland Plate :3mm (CRCA)
- 4. Busbars :NA
- 5. Busbar Size :NA
- 6. Earth Busbar Size :Stud Type
- 7. Busbar Supports :SMC/DMC Moulded Support
- 8. Control Wiring With Flexible Copper Conductor PVC Insulated Wires, 1.1kV Grade.
 - (a) Voltage Circuit :2.5Sq. mm (Black)
 - (b) Current Circuit :2.5Sq. mm (Red, Yellow, Blue)
 - (c) Earthing :2.5Sq. mm (Green) For All Conponents.
 - (d) DC Circuit :2.5Sq. mm (Grey)
- 9. Minimum Size Of Power Wiring, Flexible Copper Conductor PVC Insulated Wires, 1.1kV Grade.
 - (a) Upto 10A:2.5Sq mm, Copper
 - (b) Upto 24A:4Sq mm, Copper
 - (c) Upto 32A:6Sq mm, Copper
 - (d) Upto 40A:10Sq mm, Copper
 - (e) Upto 63A:35Sq mm, Copper
 - (f) Upto 100A:70Sq mm, Copper
- 10. PVC Tag Ferrules :2.5Sq mm PVC With NOS

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| DRAWING | GENERAL NOTES |
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- 11. Ensure Protection :IP-55
- 12. Painting :IP-55
 - (a)Treatment :Seven Tank Process
 - (b)Type :Powder Coated
 - (c)Shade :631 Of IS:5 (Interior & Exterior)
- 13. Test Voltage (IS:8623 Part-1)
 - (a)Insulation Test :500V Megger Power & Control
 - (b)High Voltage Test :2.5kV For 60 Sec
- 14. Gasket Type :Neoprene or EPDM Rubber Gasket
- 15. Type Of Name Plate :Engraved
With White Letter Son Black Surface
- 16. All Hinge Doors Shall Be Earth Through 6Sq mm Flexible Earthing Braid
- 17. The Covers On Rear Shall Be Of Bolted Type
- 18. The Panel Shall Generally Confirm To IS:8623
- 19. Name Plate, Caution Plate And Labels Will Be Provided
- 20. Temperatur Rice Over Design Ambient Temperature Of 50deg C Shall Not Exceed 40deg C.
- 21. Power Terminal Blocks Are Of Stud Type With Bolted Type
- 22. Bus Bar Clearance Between Phases, Shall Be 25mm & Phase & Neutral/Earth 25mm, Wherever It Is Not Feasible To Maintain These Clearance Sin Such Places Phase Barriers Shall Will Be Provided.
- 23. All Bus Bar With Colour Coated Heat Shrinkable PVC Sleeves As Per IS:11353 RYB For Phases, Black For Neutraln And Green For Earth Terminal

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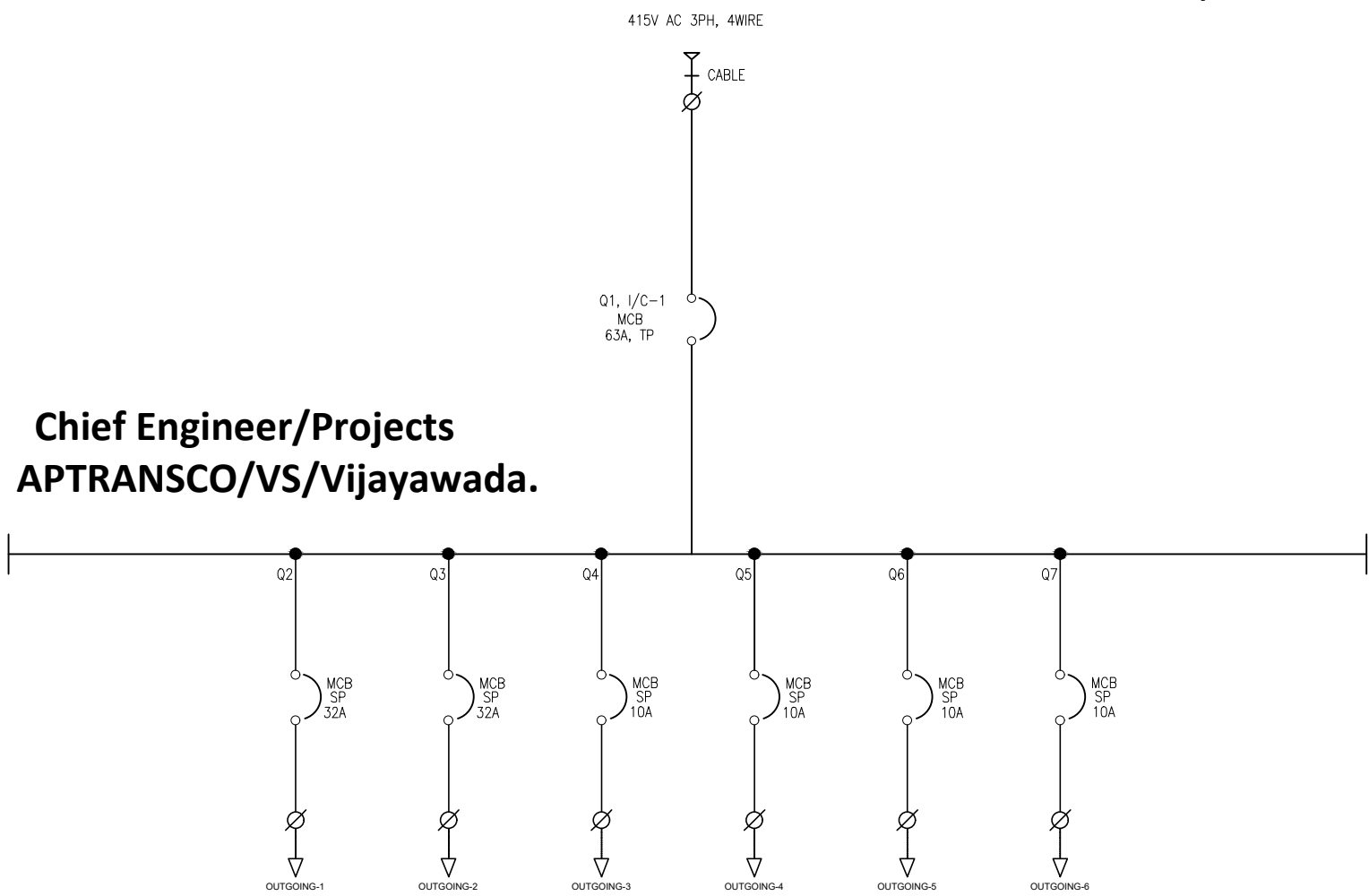
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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

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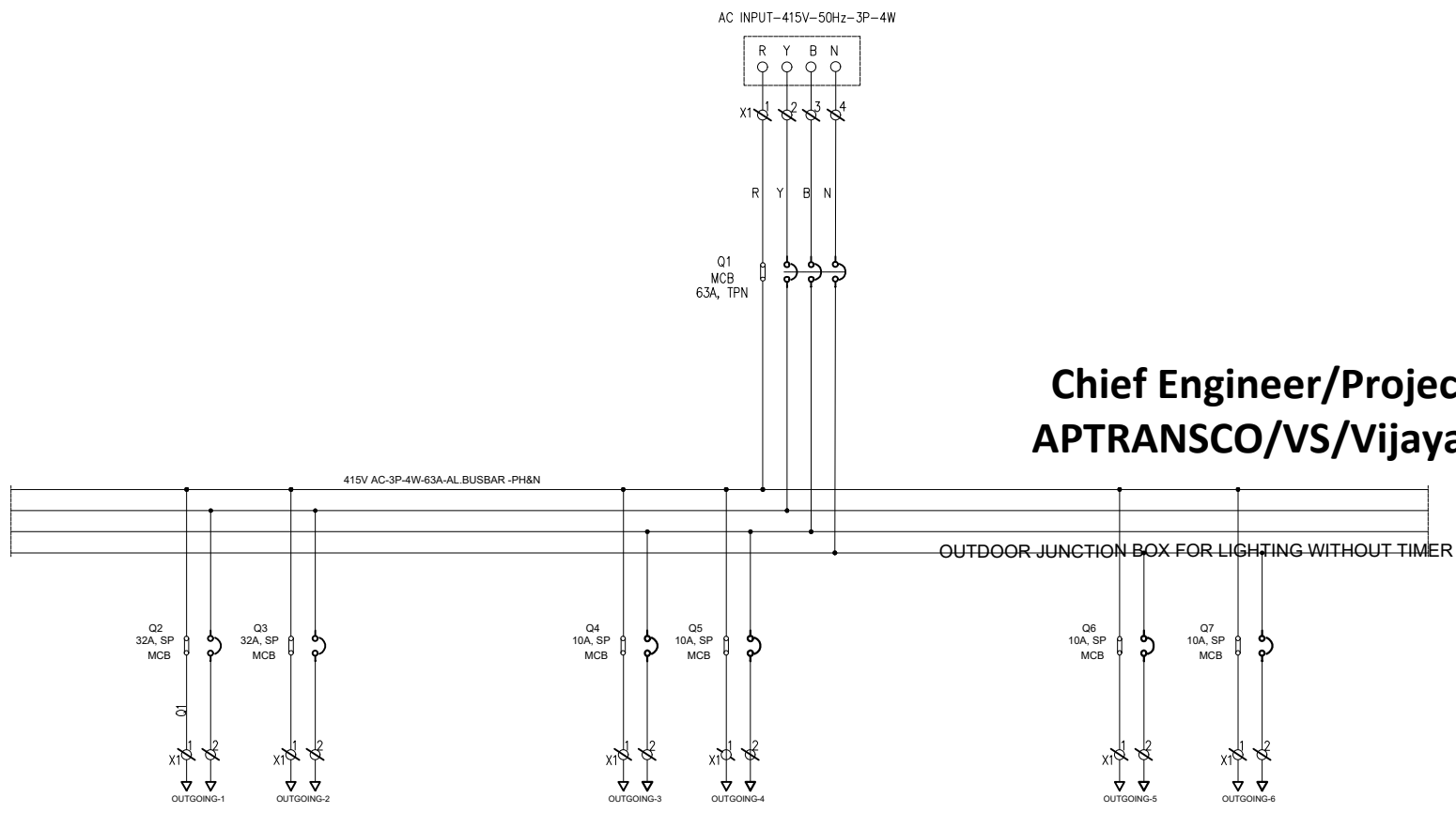


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| DRAWING | SINGLE LINE DIAGRAM CIRCUIT DIAGRAM |
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F

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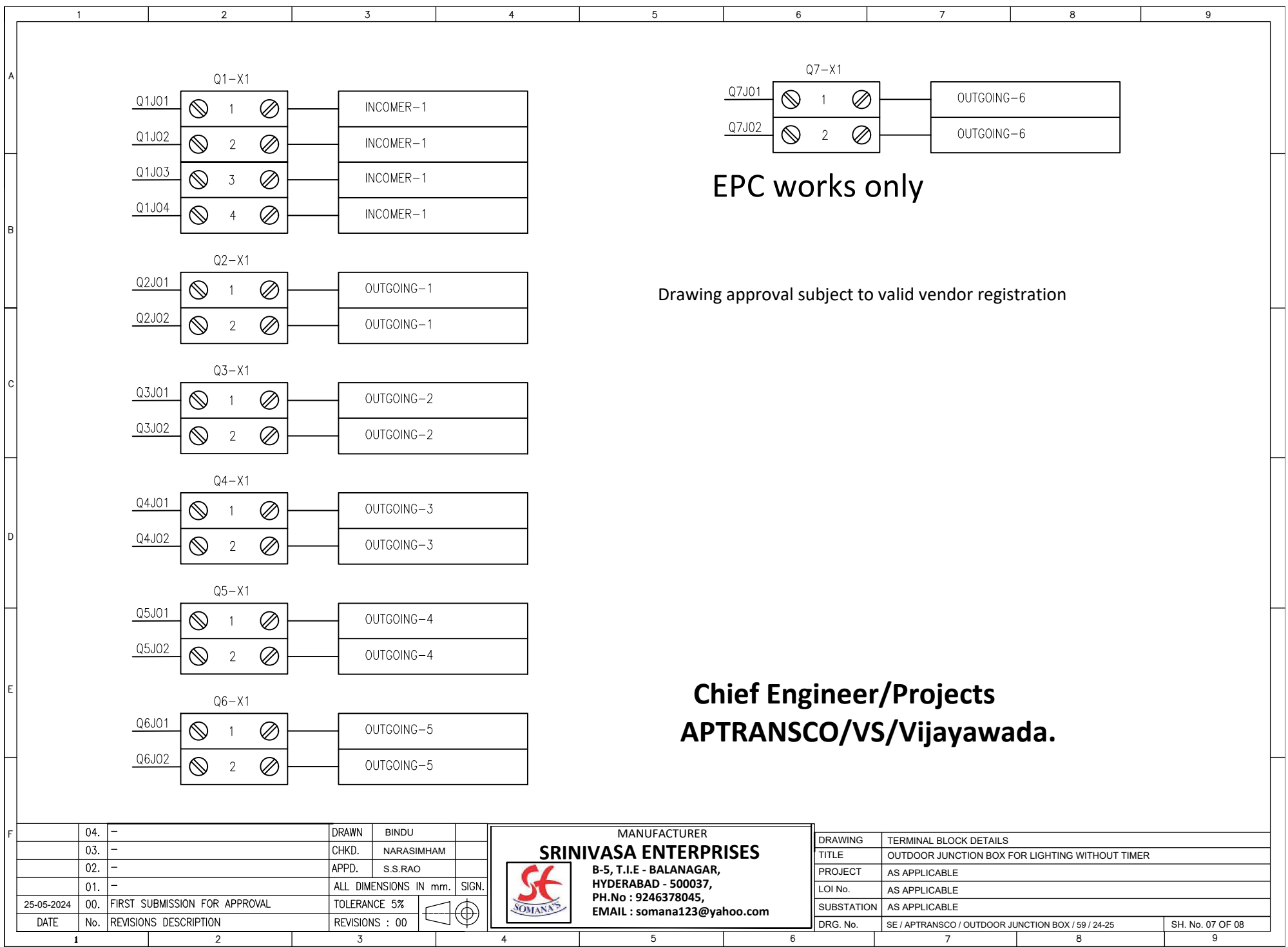


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| DRAWING | POWER CIRCUIT DIAGRAM BLOCK DETAILS |
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|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
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| DRAWING | TERMINAL BLOCK DETAILS |
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BILL OF MATERIAL

| SI.NO | UOM | DISCRIPTION | MAKE | Nos | QTY |
|-------|-------|---|--------------------|-----|-----|
| 1 | Q1 | Miniature circuit breaker 63A, TPN, 10KA, 415V AC | L&T/ABB/C&S | Nos | 1 |
| 2 | Q2-Q3 | Miniature circuit breaker 32A, 1P, 10KA, 415V AC | L&T/ABB/C&S | Nos | 2 |
| 3 | Q4-Q7 | Miniature circuit breaker 10A, 1P, 10KA, 415V AC | L&T/ABB/C&S | Nos | 4 |
| 4 | PTB-1 | Terminal blocks 76A | L&T/ABB/C&S | Nos | 4 |
| 5 | PTB-2 | Terminal blocks 57A | Connect well/Elmex | Nos | 20 |

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