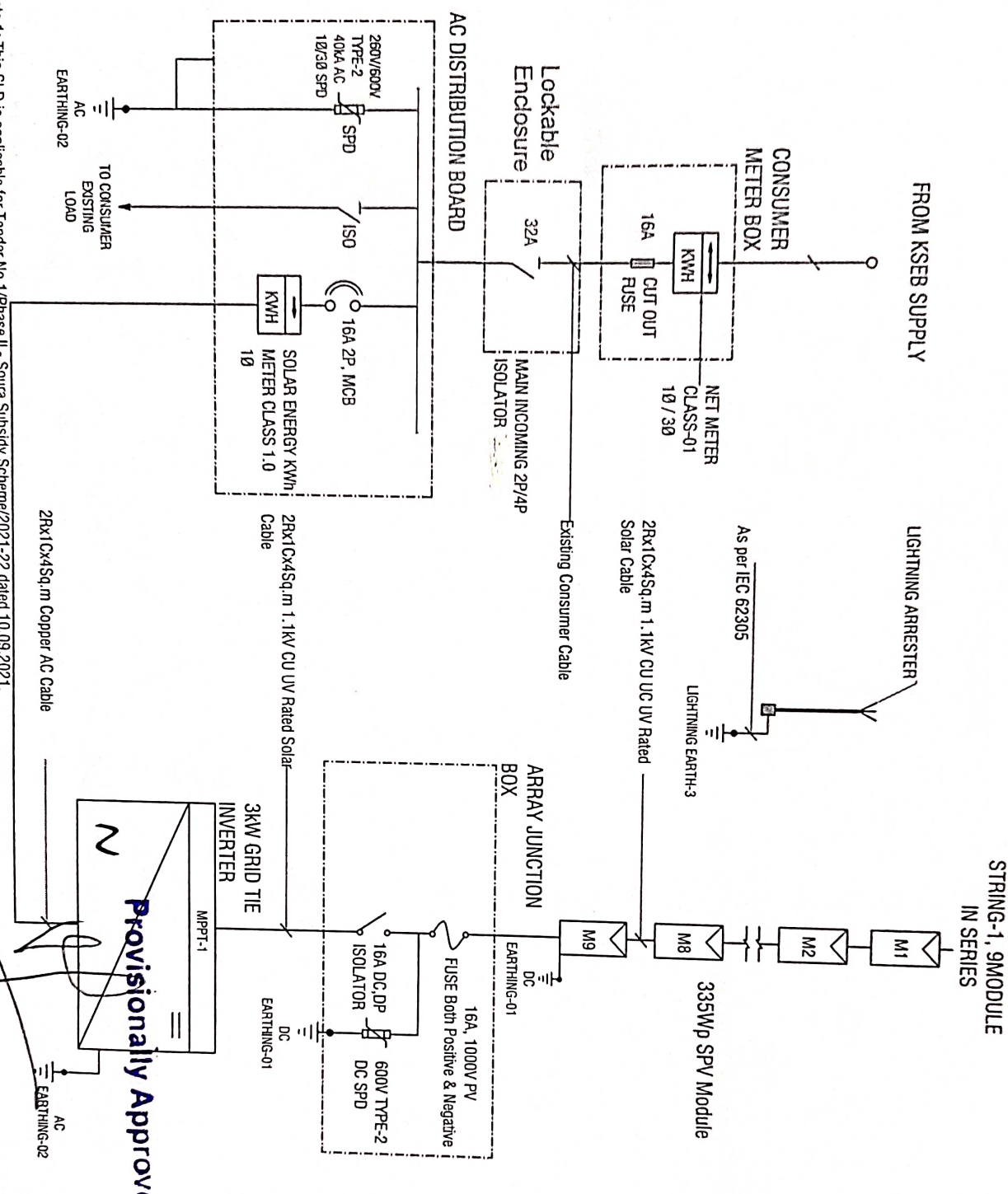


SINGLE LINE DIAGRAM-3KW



Note 1: This SLD is applicable for Tender No.1/Phase II - Soura Subsidy Scheme/2021-22 dated 10.09.2021.
 Note 2: Minimum capacity and efficiency of SPV module shall be 300Wp and 16% respectively.

STRING-1, 9MODULE
IN SERIES

Provisionally Approved



State Nodal Officer

Soura Project

Kerala State Electricity Board Limited
 Vyduthi Bhavanam, Pattom
 Thiruvananthapuram - 695 004

LEGEND:-

| SLNO | SYMBOL | DESCRIPTION | QTY |
|------|--------|-------------------------------------|-------|
| 1 | | FUSE | 9 Nos |
| 2 | | AC MCB | 1 No |
| 3 | | SURGE PROTECTION DEVICE | 1 No |
| 4 | | DC ISOLATOR | 1 No |
| 5 | | AC ISOLATOR | 1 No |
| 6 | | AC & DC EARTHING | 3 Nos |
| 7 | | PROTECTIVE ENERGY METER Class-1 | 1 No |
| 8 | | UNIDIRECTIONAL ENERGY METER Class-1 | 1 No |
| 9 | | SPV-MODULE | 9 Nos |
| 10 | | GRID TIE INVERTER-3KW | 1 No |
| 11 | | SOLAR PHOTOVOLTAIC PANEL | 9 Nos |

COMPONENT LIST:-

| SLNO | COMPONENTS | TECHNICAL SPECIFICATION | QTY |
|------|----------------------------|------------------------------------|-------|
| 1 | SPV Module | 335Wp | 9 Nos |
| 2 | Grid Tie Inverter | 3KW 10 String Inverter | 1 No |
| 3 | AJB | 1 IN / 1 OUT | 1 No |
| 4 | PV FUSE | 1000V, 15A | 2 No |
| 5 | DC SPD | 500V, 40KA, Type-2 | 1 No |
| 6 | DC ISOLATOR | 1000V, 15A DP | 1 No |
| 7 | AC MCB | 600V, 15A, DP | 1 No |
| 8 | AC SPD | 650V/600V TYPE-2/40KA AC 10/30 SPD | 1 No |
| 9 | ENERGY METER (SOLAR METER) | 10, 10A Class-1.0 | 1 No |
| 10 | Manual Isolator | 2 P/4 P for complete Load | 1 No |
| 11 | DP Isolator | For Load | 1 No |
| 12 | BI-DIRECTIONAL METER | 10 / 30, Class-1.0 | 1 No |
| 13 | EARTH CABLE | Copper CABLE/GI strip | 3 SET |
| 14 | LA CONDUCTOR | Copper CABLE/GI strip | 1SET |
| 15 | NUMBER OF EARTHING | DC -01, AC -01, LA -01 | 3Nos |

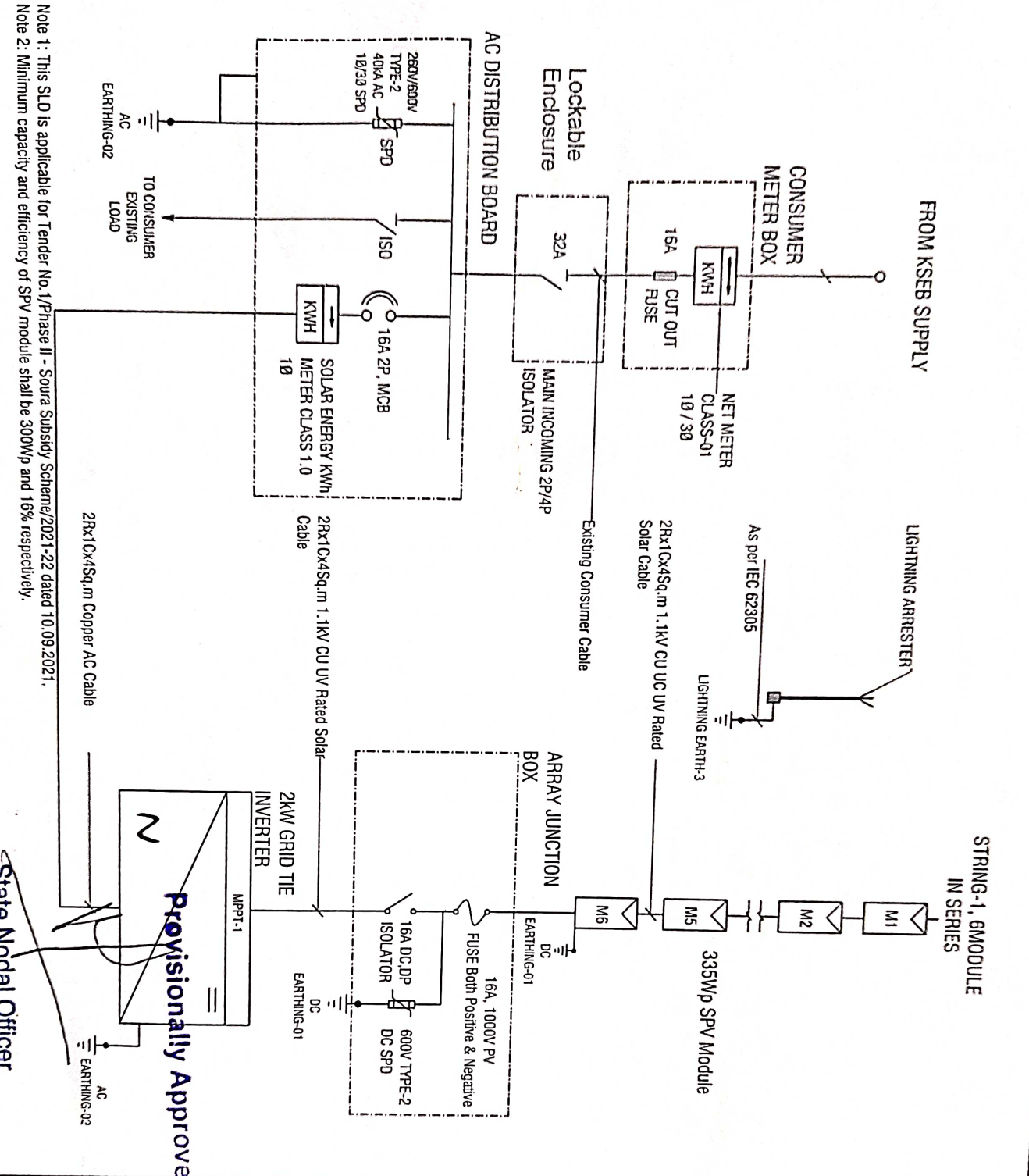
Kerala State Electricity Board Ltd
 Vyduthi Bhavanam, Pattom, Thiruvananthapuram-695004

State Nodal Officer
 SOURASOURA/3KW/02

| | | | |
|----------------|------------|------------|-----|
| Original Scale | Drawn | Checked | Rev |
| KTS | 03.01.2022 | 03.01.2022 | A3 |

Sheet No: 1

SINGLE LINE DIAGRAM-2KW



Note 1: This SLD is applicable for Tender No. 1/Phase II - Soura Subsidy Scheme/2021-22 dated 10.09.2021.
 Note 2: Minimum capacity and efficiency of SPV module shall be 300Wp and 16% respectively.

STRING-1, 6MODULE
IN SERIES

LEGEND:-

| SL.NO | SYMBOL | DESCRIPTION |
|-------|----------|-------------------------------------|
| 1 | [Symbol] | FUSE |
| 2 | [Symbol] | AC MCB |
| 3 | [Symbol] | SURGE PROTECTION DEVICE |
| 4 | [Symbol] | DC ISOLATOR |
| 5 | [Symbol] | AC ISOLATOR |
| 6 | [Symbol] | AC & DC EARTHING |
| 7 | [Symbol] | BIDIRECTIONAL ENERGY METER Class-1 |
| 8 | [Symbol] | UNIDIRECTIONAL ENERGY METER Class-1 |
| 9 | [Symbol] | SPV/MODULE |
| 10 | [Symbol] | GROUND TIE INVERTER-2KW |
| 11 | [Symbol] | SOLAR PHOTOVOLTAIC PANEL |

COMPONENT LIST:-

| SL.NO | COMPONENTS | TECHNICAL SPECIFICATION | QTY |
|-------|----------------------------|-------------------------------------|-------|
| 1 | SPV Module | 335Wp | 6 Nos |
| 2 | Grid Tie Inverter | 2 kW 10 String Inverter | 1 No |
| 3 | AJB | 1 IN / 1 OUT | 1 No |
| 4 | PV FUSE | 1000V, 15A | 2 No |
| 5 | DC SPD | 600V, 400A, Type-2 | 1 No |
| 6 | DC ISOLATOR | 1000V, 15A DP | 1 No |
| 7 | AC MCB | 600V, 15A, DP | 1 No |
| 8 | AC SPD | 350V, 600V TYPE-2/30A AC (0/30 SPD) | 1 No |
| 9 | ENERGY METER (SOLAR METER) | 10, 10A, CLASS-1.0 | 1 No |
| 10 | Main/Off Isolator | 2 P/4 P for complete Load | 1 No |
| 11 | OP Isolator | For Load | 1 No |
| 12 | BIDIRECTIONAL METERS | 10 / 30, CLASS-1.0 | 1 No |
| 13 | EARTH CABLE | Copper Cable 60 simp | 3 SET |
| 14 | LA CONDUCTOR | Copper Cable 60 SPD | 1SET |
| 15 | NUMBER OF EARTHING | DC-01, AC-01, LA-01 | 3NOS |

Provisionally Approved

Kerala State Electricity Board Ltd
 Hyderabad Bhavanam, Pattom, Thiruvananthapuram- 695004

State Nodal Officer
 Soura Project
 Kerala State Electricity Board Limited
 Vyduthi Bhavanam, Pattom
 Thiruvananthapuram - 695 004

TITLE: SINGLE LINE DIAGRAM - 2KW

| Original Scale | Project | Checked | Date |
|----------------|---------|---------------|------------|
| K13 | Project | Lead Designer | 06.01.2022 |
| | Date | Lead Designer | |

Drawn By: KSEB/SOURA/2KW/102