

West Bengal Renewable Energy Development Agency  
Bikalpa Shakti Bhavan, J1/10, EP&GP Block,  
Sector- V, Salt Lake, Kolkata- 700091

Memo No: WBREDA /NleT-24/23-24/1013

Date: 30/12/24

## Corrigendum

**Name of the work:** Design & Engineering, Manufacture / Procurement, Testing, Supply, Installation and Commissioning of Rooftop Grid Connected Solar PV Power system of cumulative capacity 570 kWp at DM Office Buildings of 19 Districts in West Bengal including five (5) years Comprehensive Maintenance on turnkey basis

**NleT Reference:** WBREDA /NleT- 24 /24-25

**Tender ID No :** 2024\_WBRED\_778395\_1

In continuation of the amendment notified and uploaded as part of the original tender, vide memo no. WBREDA /NleT-24/23-24/977 Date: 18-12-2024, the following clause is hereby amended:

After sub clause under clause 5.5 B) in Section V of the technical specification of the original tender, the following sub-clauses shall be inserted:

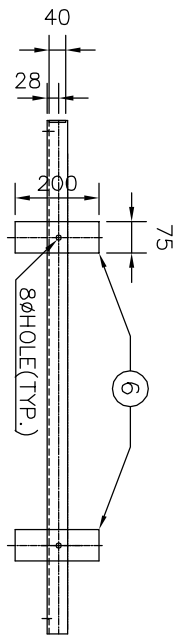
- xii) *Indicative Drawings of Module Mounting Structure [for 4 nos. Modules, 3 nos. Modules and 2 nos. Modules] are enclosed herewith.*
- xiii) *The PCC Block of the said structure shall be made with concrete mix 1:1.5:3 [cement: sand: aggregate]*
- xiv) *All fixtures for supporting conduits shall be of SS (Stainless Steel)/Aluminium.*
- xv) *The contractor who will submit the new drawing other than Indicative Drawing in such case the design and drawing of the PV Module Mounting Structure shall have to be submitted with a certificate from a bonafied structural engineer for approval of WBREDA. In the certificate it shall be clearly mentioned that the design of the structure is safe and secure on the basis of the criteria as stipulated in this clause.*

This corrigendum shall now be a part of the tender.

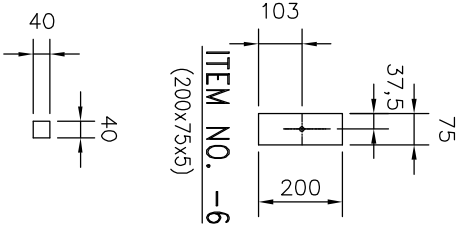
Enco: Indicative Drawings of Module Mounting Structure

  
Superintending Engineer  
WBREDA

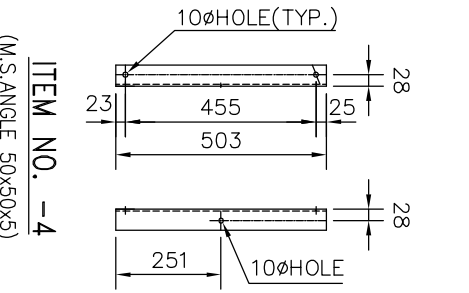




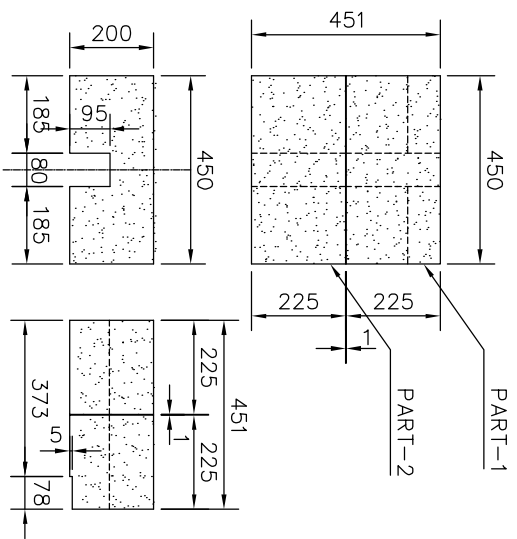
**ITEM NO. -2**  
(M.S.ANGLE 50x50x5)



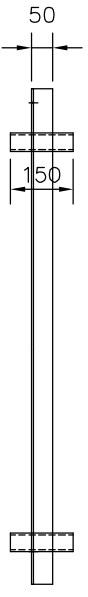
**ITEM NO. -6**  
(200x75x5)



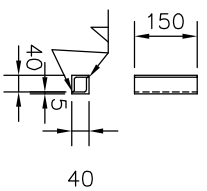
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(M.S.ANGLE 50x50x5)



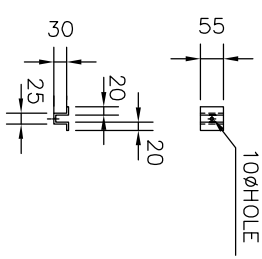
**ITEM NO. -11**



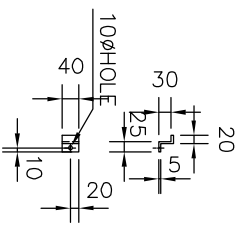
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(M.S.ANGLE 50x50x5)



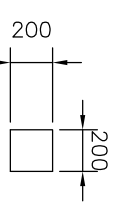
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(40x40x5)



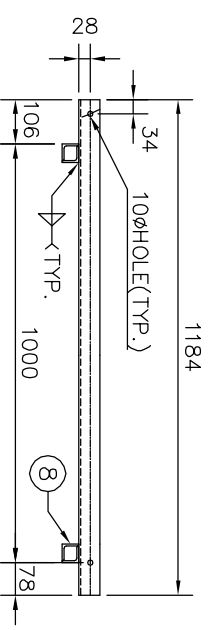
**ITEM NO. -5A**



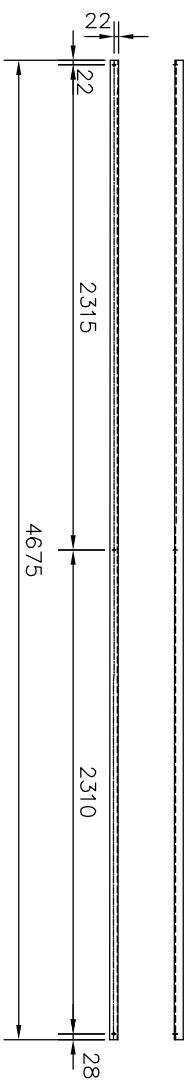
**ITEM NO. -5B**



**ITEM NO. -13**  
(200x200x5)



**ITEM NO. -12**  
(M.S.ANGLE 40x40x5)



NOTE :  
1. ALL DIMENSIONS ARE IN MM.  
2. THIS DRG. READ INCONJUNCTION WITH DRG. NO. WBREDA/JBES/MMS/05

**CLIENT:** West Bengal Renewable Energy Development Agency  
Bikalpa Shakti Bhawan, Plot No. J-1/10, Sector-V,  
EP & GP Block, Salt Lake Electronics Complex  
Kolkata, West Bengal -700081

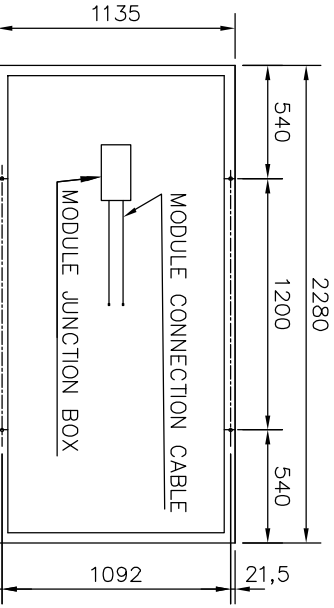
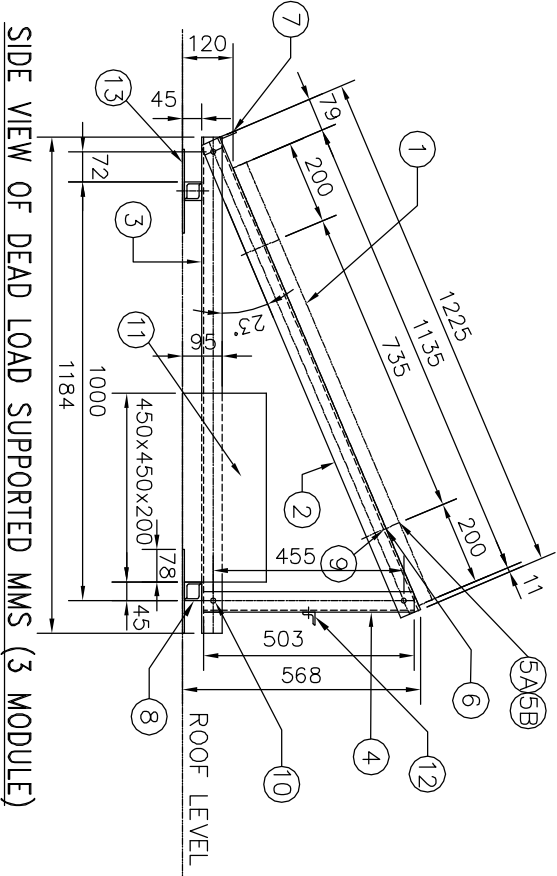
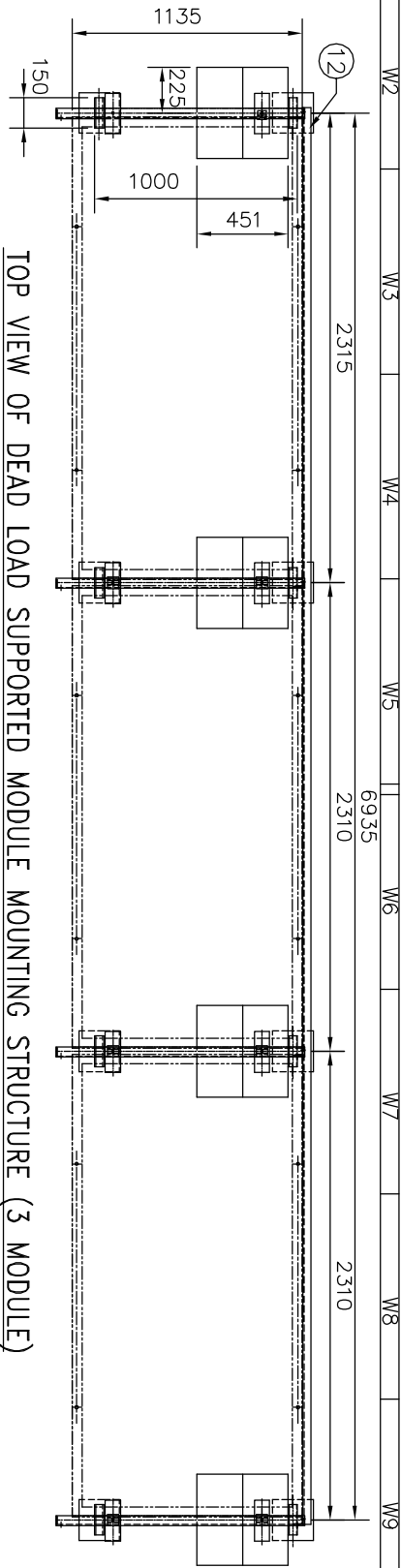
**Engineering Consultant**  
J.B. Engineering Services  
Address: 907 M. G. Road  
Thakurpukur, Kolkata-700063

**PROJECT**  
ROOF TOP SOLAR POWER PROJECT  
DRAWING TITLE: DRAWING NO. WBREDA/JBES/MMS/06  
G.A. & DETAIL OF MODULE MOUNTING STRUCTURE

**PROJECT NO.:** WBREDA/Tel/0.23/24-25  
**DESIGN BY:** J.BHOWMICK 19-12-2024  
**DRAWN BY:** J.BHOWMICK 19-12-2024  
**CHECKED BY:** J.BHOWMICK 19-12-2024  
**APPROVED BY:** WBREDA

**ISSUED**  
 FOR TENDER  FOR PRELIMINARY  FOR APPROVAL  FOR REVISION  
 FOR FABRICATION  GOOD FOR CONSTRUCTION

W1 W2 W3 W4 W5 W6 W7 W8 W9 W10  
S R Q P O N M L K



NOTE :  
 1. ALL DIMENSIONS ARE IN MM.  
 2. THIS DRG. READ INCONJUNCTION WITH DRG. NO. WBREDA/JBES/MMS/04

**BILL OF MATERIALS (FOR 3 MODULES STRUCTURE)**

| ITEM NO.                        | DESCRIPTION   | DIMENSION   | QTY. | UNIT WT. IN KG. | TOTAL WT. IN KG. |
|---------------------------------|---|---|------|-----------------|------------------|
| 1                               | SPV MODULE (530WP OR MORE)  | 1135x2280x35mm  | 3    | 29              | 87.00            |
| 2                               | MODULE MOUNTING MEMBER  | M.S.ANGLE 50x50x5x1225 LG.  | 4    | 4.66            | 18.64            |
| 3                               | BASE MEMBER   | M.S.ANGLE 50x50x5x1184 LG.  | 4    | 4.50            | 18.00            |
| 4                               | TILT MEMBER   | M.S.ANGLE 50x50x5x503 LG.   | 4    | 1.91            | 7.64             |
| 5A                              | CLAMP (FULL)  | ALUMINIUM U-SECTION 55x5  | 4    | 0.21            | 0.84             |
| 5B                              | CLAMP (HALF)  | ALUMINIUM Z-SECTION 40x5  | 4    | 0.12            | 0.48             |
| 6                               | CLEAT   | M.S. PLATE. THICK-5MM 200x75  | 8    | 0.59            | 4.72             |
| 7                               | CLEAT   | M.S. PLATE. THICK-5MM 40x40   | 4    | 0.06            | 0.24             |
| 8                               | CLEAT   | M.S. ANGLE-2NOS 40x40x5 L-150 LG. (FACE TO FACE WELDING)                | 16   | 0.45            | 7.20             |
| 9                               | NUT BOLT & WASHER FOR MODULE MOUNTING MEMBER & CLAMP FIXING                       | G.I. M6x30  | 8    |                 |                  |
| 10                              | NUT BOLT & WASHER FOR MODULE MOUNTING MEMBER, BASE MEMBER, & BACK SUPPORT MEMBER. | G.I. M8x30  | 16   |                 |                  |
| 11                              | FOUNDATION  | P.C.C. 450x225x200 (PART-1) PRECAST P.C.C. 450x225x200 (PART-2) PRECAST | 4    |                 |                  |
| 12                              | BACK SUPPORT MEMBER   | M.S.ANGLE 40x40x5x6985LG.(S)  | 1    | 20.96           | 20.96            |
| 13                              | BASE PLATE  | M.S. 200x200x5MM THK.   | 8    | 1.57            | 12.56            |
| TOTAL                           |   |   |      |                 | 178.28           |
| <b>GRAND TOTAL = 178.28 KG.</b> |   |   |      |                 |                  |

**CLIENT:** West Bengal Renewable Energy Development Agency  
 Bikalpa Shakti Bhawan, Plot No. J-1/10, Sector-V,  
 EP & GP Block, Salt Lake Electronics Complex  
 Kolkata, West Bengal -700081

Engineering Consultant  
 J.B. Engineering Services  
 Address: 907 M. G. Road  
 Thakurpukur, Kolkata-700063

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**PROJECT:** ROOF TOP SOLAR POWER PROJECT  
**DRAWING TITLE:** DRAWING NO. WBREDA/JBES/MMS/03  
 G.A. & DETAIL OF MODULE MOUNTING STRUCTURE

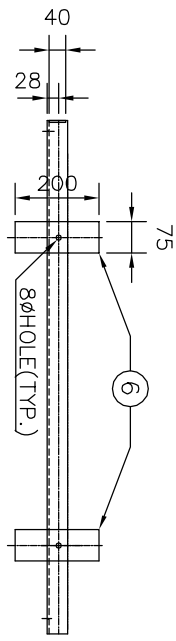
**PROJECT NO.:** WBREDA/Tech/O.23/2A-25  
**DESIGN BY:** J.BHOWMICK 19-12-2024  
**DRAWN BY:** J.BHOWMICK 19-12-2024  
**CHECKED BY:** J.BHOWMICK 19-12-2024  
**APPROVED BY:** WBREDA

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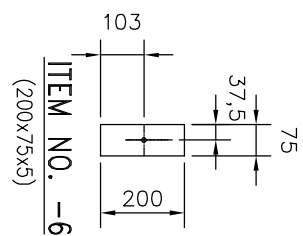
**ISSUED**  
 FOR TENDER     FOR PRELIMINARY     FOR APPROVAL     FOR REVISION  
 FOR FABRICATION     GOOD FOR CONSTRUCTION

**REVISION**  
 0

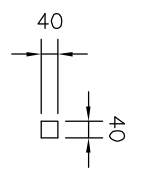
W1 W2 W3 W4 W5 W6 W7 W8 W9 W10



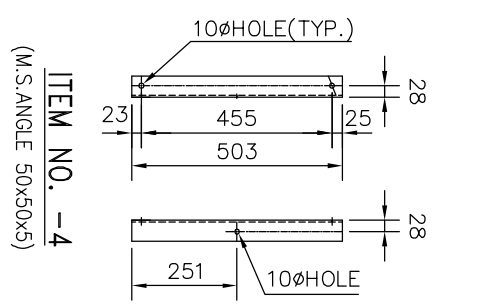
**ITEM NO. -2**  
(M.S. ANGLE 50x50x5)



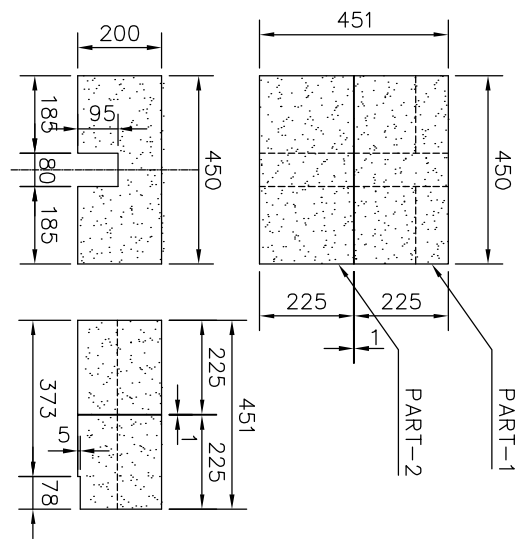
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(200x75x5)



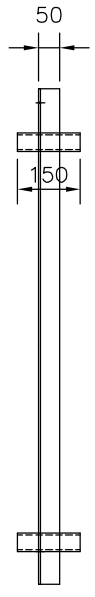
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(40x40x5)



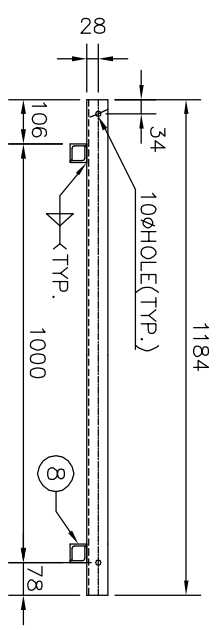
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(M.S. ANGLE 50x50x5)



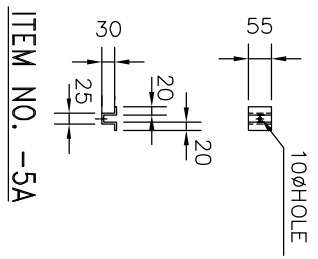
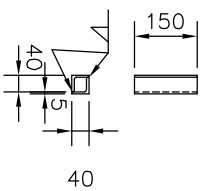
**ITEM NO. -11**



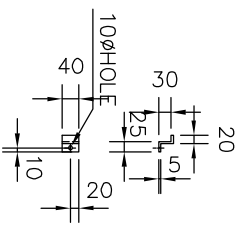
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(M.S. ANGLE 50x50x5)



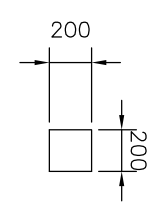
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(40x40x5)



**ITEM NO. -5A**

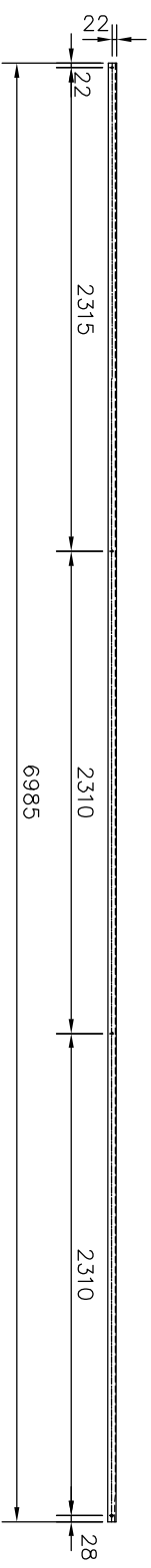


**ITEM NO. -5B**



**ITEM NO. -13**  
(200x200x5)

NOTE :  
1. ALL DIMENSIONS ARE IN MM.  
2. THIS DRG. READ INCONJUNCTION WITH DRG. NO. WBREDA/JBES/MMS/03



**ITEM NO. -12**  
(M.S. ANGLE 40x40x5)

**CLIENT:** West Bengal Renewable Energy Development Agency  
Bikalpa Shakti Bhawan, Plot No. J-1/10, Sector-V,  
EP & GP Block, Salt Lake Electronics Complex  
Kolkata, West Bengal -700081

**Engineering Consultant**  
J.B. Engineering Services  
Address: 907 M. G. Road  
Thakurpukur, Kolkata-700063

**PROJECT**  
ROOF TOP SOLAR POWER PROJECT  
DRAWING TITLE: DRAWING NO. WBREDA/JBES/MMS/04  
G.A. & DETAIL OF MODULE MOUNTING STRUCTURE

**PROJECT NO.:** WBREDA/Tel/VO/23/24-25

**DESIGN BY:** J.BHOWMICK 19-12-2024

**DRAWN BY:** J.BHOWMICK 19-12-2024

**CHECKED BY:** J.BHOWMICK 19-12-2024

**APPROVED BY:** WBREDA

**REVISION:** 0

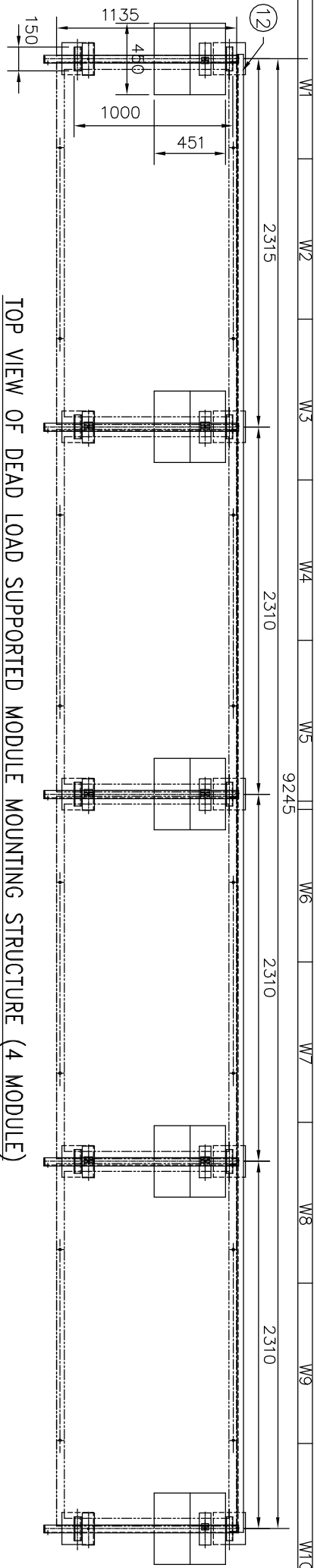
**ISSUED**

FOR TENDER  FOR PRELIMINARY  FOR APPROVAL  FOR REVISION

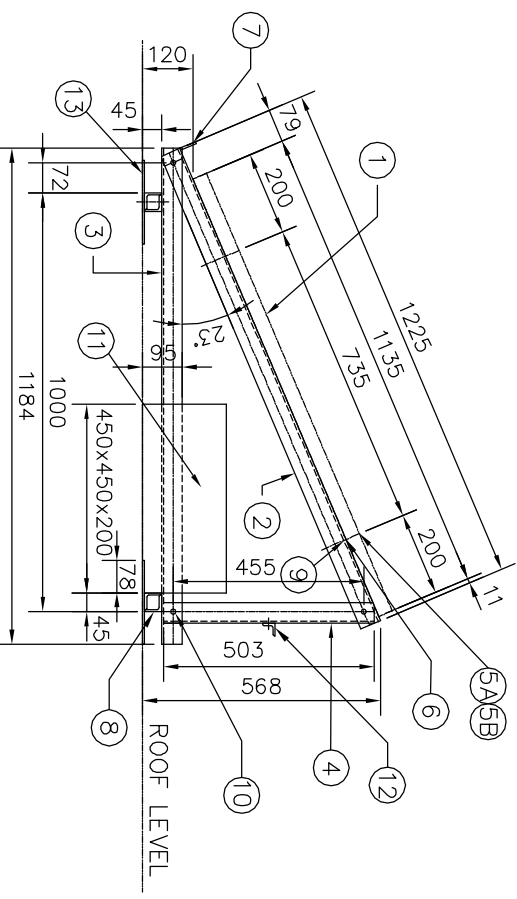
FOR FABRICATION  GOOD FOR CONSTRUCTION

W1 W2 W3 W4 W5 W6 W7 W8 W9 W10

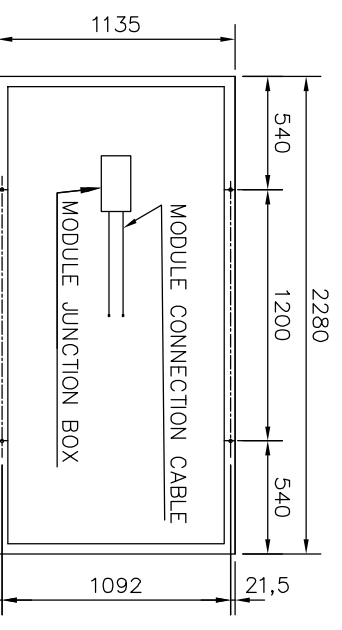
S R Q P O N M L K



TOP VIEW OF DEAD LOAD SUPPORTED MODULE MOUNTING STRUCTURE (4 MODULE)



SIDE VIEW OF DEAD LOAD SUPPORTED MMS (4 MODULE)



MODULE(530-535 WP, 28-30kg)

ITEM NO. -1

NOTE :

1. ALL DIMENSIONS ARE IN MM.
2. THIS DRG. READ INCONJUNCTION WITH DRG. NO. WBREDA/JBES/MMS/02

BILL OF MATERIALS (FOR 4 MODULES STRUCTURE)

| ITEM NO.      | DESCRIPTION   | DIMENSION   | QTY. | UNIT WT. IN KG. | TOTAL WT. IN KG. |
|---------------|---|---|------|-----------------|------------------|
| 1             | SPV MODULE (530wp OR MORE)  | 1135x2280x35mm  | 4    | 29              | 116.00           |
| 2             | MODULE MOUNTING MEMBER  | M.S.ANGLE 50x50x5x1225 LG.  | 5    | 4.66            | 23.28            |
| 3             | BASE MEMBER   | M.S.ANGLE 50x50x5x1184 LG.  | 5    | 4.50            | 22.50            |
| 4             | TILT MEMBER   | M.S.ANGLE 50x50x5x503 LG.   | 5    | 1.91            | 9.55             |
| 5A            | CLAMP (FULL)  | ALUMINIUM U-SECTION 55x5  | 6    | 0.21            | 1.26             |
| 5B            | CLAMP (HALF)  | ALUMINIUM Z-SECTION 40x5  | 4    | 0.12            | 0.48             |
| 6             | CLEAT   | M.S. PLATE. THICK-5MM 200x75  | 10   | 0.59            | 5.90             |
| 7             | CLEAT   | M.S. PLATE. THICK-5MM 40x40   | 5    | 0.06            | 0.30             |
| 8             | CLEAT   | M.S. ANGLE-2NOS 40x40x5 L-150 LG. (FACE TO FACE WELDING)                | 20   | 0.45            | 9.00             |
| 9             | NUT BOLT & WASHER FOR MODULE MOUNTING MEMBER & CLAMP FIXING                       | G.I. M6x30  | 10   |                 |                  |
| 10            | NUT BOLT & WASHER FOR MODULE MOUNTING MEMBER, BASE MEMBER, & BACK SUPPORT MEMBER. | G.I. M8x30  | 20   |                 |                  |
| 11            | FOUNDATION  | P.C.C. 450x225x200 (PART-1) PRECAST P.C.C. 450x225x200 (PART-2) PRECAST | 5    |                 |                  |
| 12            | BACK SUPPORT MEMBER   | M.S.ANGLE 40x40x5x929.5LG.(S)   | 1    | 27.89           | 27.89            |
| 13            | BASE PLATE  | M.S. 200x200x5MM THK.   | 10   | 1.57            | 15.70            |
| TOTAL         |   |   |      |                 | 231.86           |
| GRAND TOTAL = |   |   |      |                 | 231.86 KG.       |

**CLIENT:** West Bengal Renewable Energy Development Agency  
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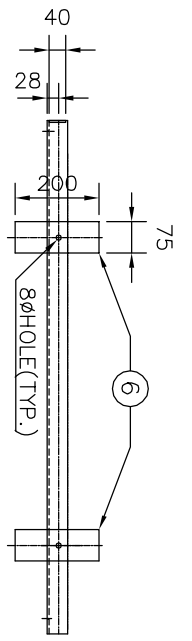
**Engineering Consultant**  
J.B. Engineering Services  
Address: 907 M. G. Road  
Thakurpukur, Kolkata-700063

**PROJECT:** ROOF TOP SOLAR POWER PROJECT  
**DRAWING TITLE:** DRAWING NO. WBREDA/JBES/MMS/01  
G.A. & DETAIL OF MODULE MOUNTING STRUCTURE

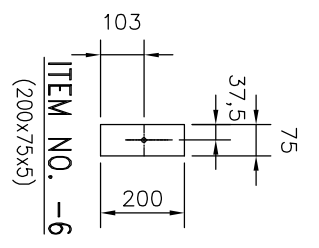
**PROJECT NO.:** WBREDA/Tech/Q.23/2A-25  
**DESIGN BY:** J.BHOWMICK 19-12-2024  
**DRAWN BY:** J.BHOWMICK 19-12-2024  
**CHECKED BY:** J.BHOWMICK 19-12-2024  
**APPROVED BY:** WBREDA

**ISSUED**  
 FOR TENDER  FOR PRELIMINARY  FOR APPROVAL  FOR REVISION  
 FOR FABRICATION  GOOD FOR CONSTRUCTION

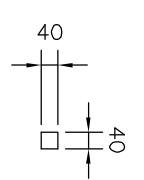
W1 W2 W3 W4 W5 W6 W7 W8 W9 W10  
W1 W2 W3 W4 W5 W6 W7 W8 W9 W10  
W1 W2 W3 W4 W5 W6 W7 W8 W9 W10  
W1 W2 W3 W4 W5 W6 W7 W8 W9 W10



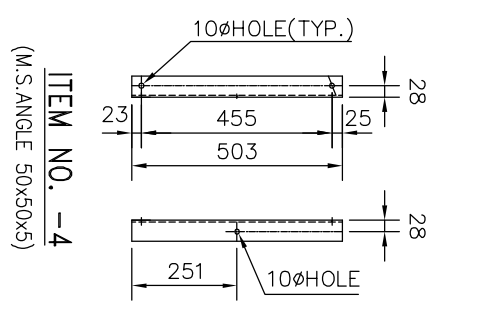
**ITEM NO. -2**  
(M.S.ANGLE 50x50x5)



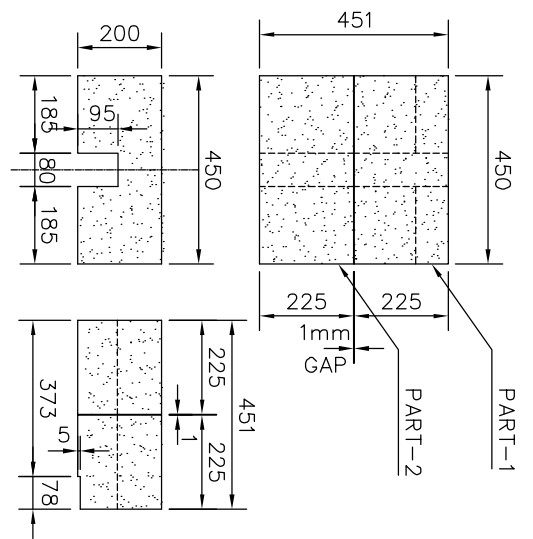
**ITEM NO. -6**  
(200x75x5)



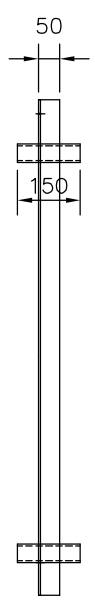
**ITEM NO. -7**  
(40x40x5)



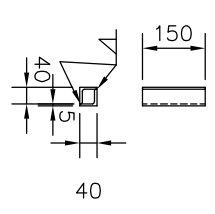
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(M.S.ANGLE 50x50x5)



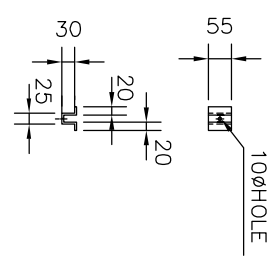
**ITEM NO. -11**



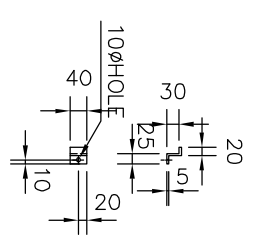
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(M.S.ANGLE 50x50x5)



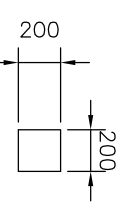
**ITEM NO. -8**  
(40x40x5)



**ITEM NO. -5A**

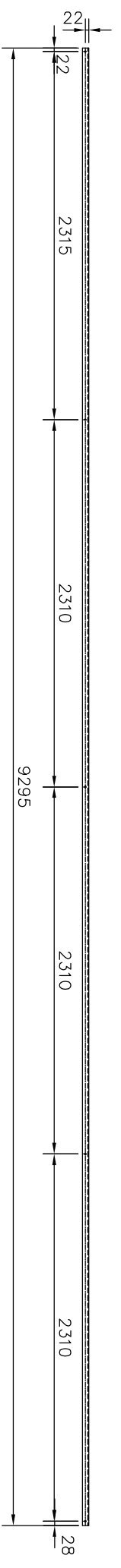


**ITEM NO. -5B**



**ITEM NO. -13**  
(200x200x5)

NOTE :  
1. ALL DIMENSIONS ARE IN MM.  
2. THIS DRG. READ INCONJUNCTION WITH DRG. NO. WBREDA/JBES/MMS/01



**ITEM NO. -12**  
(M.S.ANGLE 40x40x5)

**CLIENT:** West Bengal Renewable Energy Development Agency  
Bikalpa Shakti Bhawan, Plot No. J-1/10, Sector-V,  
EP & GP Block, Salt Lake Electronics Complex  
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**Engineering Consultant**  
J.B. Engineering Services  
Address: 907 M. G. Road  
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**PROJECT**  
ROOF TOP SOLAR POWER PROJECT  
DRAWING TITLE DRAWING NO. WBREDA/JBES/MMS/02  
G.A. & DETAIL OF MODULE MOUNTING STRUCTURE

**PROJECT NO.:** WBREDA/Tech/O-23/24-25

**DESIGN BY:** J.BHOWMICK 19-12-2024

**DRAWN BY:** J.BHOWMICK 19-12-2024

**CHECKED BY:** J.BHOWMICK 19-12-2024

**APPROVED BY:** WBREDA

**REVISION:** 0

**ISSUED**

FOR TENDER  FOR PRELIMINARY  FOR APPROVAL  FOR REVISION

FOR FABRICATION  GOOD FOR CONSTRUCTION

W1 W2 W3 W4 W5 W6 W7 W8 W9 W10 W11 W12 W13 W14 W15 W16 W17 W18 W19 W20