

**Bid Specifications for
Supply of Module Mounting Superstructure (GI) for
400 KWp Carpot Solar Power Plant at New High Court
Building, Dhurwa, Ranchi**

(JREDA)

Government of Jharkhand

Tender reference no.: 30/JREDA/HIGHCOURT/MMS/22-23



Jharkhand Renewable Energy Development Agency (JREDA)

3rd Floor, S.L.D.C. Building, Kusai Colony, Doranda, Ranchi-834002.

Ph.: 0651-2491161, Fax: 0651-2491165,

E-mail: info@jreda.com; Website: www.jreda.com

CONTENT

GENERAL TERMS AND CONDITIONS	6
I TECHNICAL	6
II EXPERIENCE:	6
III TURNOVER:	7
IV. NET WORTH:.....	7
OTHER CONDITIONS:.....	7
Cable (3.5Cx300Sqmm):	8
CHECK LIST	13
FORMAT FOR FINANCIAL REQUIREMENT - ANNUAL TURNOVER	14
DETAILS OF ORDERS RECEIVED AND EXECUTED IN LAST 3 YEARS	15
FINANCIAL BID	16
FORMAT FOR SUBMITTING BANK GUARANTEE FOR EARNEST MONEY DEPOSIT	17
CERTIFICATE OF DELIVERY.....	19
BY THE SUPPLIER	19
CERTIFICATE OF SUCCESSFUL SUPPLY OF MATERIALS.....	20

Govt. of Jharkhand
Energy Department
Jharkhand Renewable Energy Development Agency (JREDA)
3rd Floor, S.L.D.C. Building, Kusai Colony, Doranda, Ranchi-834002.
Ph.: 0651-2491161, Fax: 0651-2491165,
E-mail: info@jreda.com; Website: www.jreda.com

e-Procurement Notice (Urgent)

Tender reference no.: 30/JREDA/HIGHCOURT/MMS/22-23

Dated: 07.11.2022

1	Name of the work	Supply of Module Mounting Superstructure (GI) for 400 KWp Carpot Solar Power Plant at New High Court Building, Dhurwa, Ranchi
2	Tentative estimate cost (Rs.)	Rs. 28.00 Lakh
3	Completion of work	15 (Fifteen) days
4	Date of publication of Tender on website: http://jharkhandtenders.gov.in	09.11.2022 (Wednesday)
5	Last date & time for receipt of online bids	23.11.2022 (Wednesday) upto 05:00 PM
6	Submission of original copies of Tender fee & Earnest Money Deposit (EMD)	23.11.2022 and 24.11.2022 up to 5.00 P.M.
7	Tender Opening Date	25.11.2022 (Friday) at 3.00 P.M.
8	Name & address of office inviting tender	Director, Jharkhand Renewable Energy Development Agency(JREDA) 3 rd Floor, SLDC Building, Kusai, Doranda, Ranchi- 834002 (Jharkhand)
9	Contact no. of procurement officer	0651-2491163/67/61/9570086777
10	Helpline no. of e-procurement	0651-2491163/67/61

Any corrigendum/addendum can be seen on website: <http://jharkhandtenders.gov.in> & www.jreda.com. Further details can be seen on website: <http://jharkhandtenders.gov.in> & www.jreda.com

Sd/-
Director,
JREDA, Ranchi

Section -1: List of Important dates & details of Bids

NIB No: 30/JREDA/HIGHCOURT/MMS/22-23

1.	Name of work	Supply of Module Mounting Superstructure (GI) for 400 KWp Carpot Solar Power Plant at New High Court Building, Dhurwa, Ranchi	
2.	Tender reference no.	30/JREDA/HIGHCOURT/MMS/22-23	
3.	Completion period	15 (Fifteen) days	
4.	Mode of submission of tender	Online through www.jharkhandtenders.gov.in	
5.	Tender fee	❖ For General Bidder: Rs. 5,000/- (Five Thousand) only. ❖ For MSEs of Jharkhand: Nil.	
6.	Earnest Money Deposit	❖ For General Bidder: Rs. 56000.00(Fifty-Six Thousand Five Hundred) only ❖ For MSEs of Jharkhand: Nil.	
7.	Publishing on website	09.11.2022 (Wednesday)	
8.	Period of downloading of bidding documents	Start date: 09.11.2022	Time: 10.00 AM
		End date: 23.11.2022	Time: 05.00 PM
9.	Bid online submission	Start date: 13.11.2022	Time: 10.00 AM
		End date: 23.11.2022	Time: 05.00 PM
10.	Technical bid opening date	25.11.2022 (Friday)	Time: 03.00 PM
11.	Authority inviting bids	Director, Jharkhand Renewable Energy Development Agency(JREDA)	
12.	Address	Jharkhand Renewable Energy Development Agency(JREDA) 3 rd Floor, SLDC Building, Kusai, Doranda, Ranchi- 834002. Ph. No: 2491161, Fax No: 0651-2491165 Web site: www.jreda.com E-mail: info@jreda.com	

Note:

- The Tender Fee & EMD in original must be submitted on **23.11.2022** and **24.11.2022** up to 5.00 P.M. If tender fee and EMD are not received before mentioned date and time, tender shall be considered invalid. MSE seeking exemption from Bid fee & EMD, shall submit documentary evidence supporting the exemption.
- This Bank Guarantee must include SFMS (Structural Financial Management System) as per JREDA Bank Details Which is as:
Name of Bank: State Bank of India
IFSC Code: SBIN0009010
Branch Details: Ashok Nagar Branch, Ranchi

Place for receiving Tender fee & EMD:

Jharkhand Renewable Energy Development Agency (JREDA), 3rd Floor, SLDC Building, Kusai, Doranda, Ranchi- 834002.

JHARKHAND RENEWABLE ENERGY DEVELOPMENT AGENCY (JREDA)

3rd Floor, SLDC Building, Kusai, Doranda, Ranchi- 834002.

Ph.No: 2491161, Fax No: 0651-2491165

www.ireda.com, E-mail: info@ireda.com

NIB No: 30/JREDA/HIGHCOURT/MMS/22-23

Jharkhand Renewable Development Agency incorporated as a society under the Society Act, 1860 under the administrative control of the Department of Energy, Govt. of Jharkhand for promoting use of renewable energy sources and having its registered office at Kusai Colony, Doranda, Ranchi, Jharkhand-834002.

JREDA invites tender for Supply of Module Mounting Superstructure (GI) for 400 KWp Carport Solar Power Plant at New High Court Building, Dhurwa, Ranchi.

Sealed bids are invited from financially sound firms having experience of similar nature of work for the following:

Name of the work	Item Details	UOM	Quantity
Supply of Module Mounting Superstructure (GI) for 400 KWp Carport Solar Power Plant at New High Court Building, Dhurwa, Ranchi.	Carport Module Mounting Superstructure (GI)	kWp	400

Terms & conditions:

1. Tender documents can be purchased from the office of the undersigned during office hours on any working day till the day before submission of the tender after depositing the cost of Tender document (Non-refundable) in the shape of Bank Draft in favor of Director, JREDA payable at Ranchi. Tender document can also be downloaded from JREDA Website (www.ireda.com). In that case, the cost of the document in the form of DD is to be enclosed with the technical part of the bid.
2. No postal request for issue of Tender document will be entertained.
3. The tender must be accompanied with the Earnest Money Deposit (refundable) in shape of Bank Guarantee or Demand Draft issued from any Indian nationalized/scheduled bank in favor of Director, JREDA payable at Ranchi. Proof of EMD must be attached with tender documents otherwise the tender will be rejected without assigning any reason thereof.
4. The undersigned reserves the right to issue the tender document /extend the date of sale/submission of tender/opening of tender and cancellation of tender without assigning any reason thereof.

Sd/-
Director,
JREDA, Ranchi

JHARKHAND RENEWABLE ENERGY DEVELOPMENT AGENCY (JREDA)
3rd Floor, SLDC Building, Kusai, Doranda, Ranchi- 834002.
Ph.No: 2491161, Fax No: 0651-2491165
Web site: www.jreda.com, E-mail: info@jreda.com

NIB No: 30/JREDA/HIGHCOURT/MMS/22-23

GENERAL TERMS AND CONDITIONS

Introduction:

Solar Power Plant at elevated structure (Carport) at Parking area of Capacity 400 kWp need to be installed the parking area at New High Court Building, Dhurwa, Ranchi, Jharkhand. The location of car parking area in New High Court Premises. The supplier has to supply Carport Module Mounting Superstructure and work in coordination with Assigned Agency for Installation & Commissioning work. The supplier has also Provide Engineering & Commissioning Support to the Assigned Agency for a successful Installation of the Carport Module Mounting Superstructure. Module Mounting Superstructure Required as mention Site: -

Site details:

Site Name : New Jharkhand High Court
Location : Dhurwa, Ranchi, Jharkhand
Longitude : 85.272073
Latitude : 23.316328
Nearest railway station: 6 KM from Hatia railway station, Jharkhand

Location of Supply:

Delivery of the material shall be at New Jharkhand High Court, Dhurwa, Ranchi, Jharkhand Premises.

Technical description

JREDA has requirement of Solar Carport Module Mounting Superstructure (GI) for 400 kWp Solar Power Plant at New Jharkhand High Court Premises. This NIB has been invited for the procurement of Carport Module Mounting Superstructure (GI) for the above site.
The prerequisite condition has been detailed below:

ELIGIBILITY CRITERIA:

i Technical

- a) The bidder should be a registered company/Firm/ Corporation in India (including MSMEs of Jharkhand).

Or

Bidders should be empaneled contractor in energy department, Government of Jharkhand (GOJ) in appropriate class.

- b) Company/ Firm should be registered with GSTIN (Copy of supporting document)
c) Consortium/ Joint venture shall not be considered.

ii Experience:

For General Bidders: - The bidder should have experience of supply of materials for Solar Power Plant or Carport Project with one order not less than 80% of bid value or two order of minimum value 50% of bid value or three order of minimum value 40% of bid value, during the past 7 years for any government PSU /SNA.

And

The bidder should have experience of supply of MMS Structure for Solar Power Plant or Carport Project Minimum or Equal to 100 kWp

For MSME of Jharkhand: One similar completed work costing not less than the amount equal to 10% of Bid Value from PSU/Govt. Organization/ SNA in last 7 years.

And

The MSME of Jharkhand should have experience of supply of MMS Structure for Solar Power Plant or Carport Project Minimum or Equal to 100 kWp

ii. Turnover:

- a) For General Bidders Average Annual Financial Turnover in the last 3 years, ending 31st March 2021 should not be less than 8.4 Lakhs.
- b) For MSME Bidders of Jharkhand Average Annual Financial Turnover in the last 3 years, ending 31st March 2021 should not be less than 2.8 Lakhs.

iv. Net worth: Bidder Should have positive net worth.

Other Conditions:

1. Bidder shall bear all costs associated with the preparation and submission of the bid, journeys undertaken by them and subsequent bidding process till the award of the order to successful bidder and the JREDA shall in no case, shall be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

2. Performance Guarantee:

- a. Successful General bidder shall submit a performance guarantee @5% of the allotted work order value in the form of Bank Guarantee valid for five years on or before release of any payment against supply.
- b. Successful MSME of Jharkhand bidder shall submit a performance guarantee @0.5% of the allotted work order value in the form of Bank Guarantee valid for five years on or before release of any payment against supply.
- c. The Performance Guarantee will have to be maintained by the bidder with JREDA till the completion of warranty period.
- d. The Performance Guarantee shall be submitted in the form of bank guarantee in favor of "Director, JREDA" payable at Ranchi from any Indian Nationalized bank/Scheduled bank.
- e. Non submission of Performance Guarantee within the time frame, shall lead to forfeiture of EMD and cancellation of work order.
- f. If Bidder unit fails to carry out the work allotted to him as per the provisions of the tender documents, then such Bidder may be blacklisted for future awards of work.
- g. The performance guarantee shall be refunded / released to the bidder after expiry of 60 days after the date of completion of warranty obligations.

3. Timeline/ Completion Period:

The time of completion shall be adhered as per the timeline defined in the table below:

Name of the work	Item Details	UOM	Quantity	Completion Period/Start time
Supply of Module Mounting Superstructure (GI) for 400 KWp Carpot Solar Power Plant at New High Court Building, Dhurwa, Ranchi.	Carpot Module Mounting Superstructure (GI)	kWp	400	15 Days

4. Scope of work:

Supply of Supply of Module Mounting Superstructure (GI) for 400 KWp Carpot Solar Power Plant at New High Court Building, Dhurwa, Ranchi.

Site Visit:

The Bidder, at his own cost, responsibility and risk, is encouraged to visit, examine and familiarize himself with the Site of Works and its surroundings and obtain all information that may be necessary for preparing the Bid and entering into a contract for supply of Carport Solar Module Mounting Structure & in Coordinate with assigned agency for the installation Works. The costs of visiting the Site shall be at the Bidder's own expense. He may contact the person whose contact details are given in the Notice Inviting Bid.

Technical Specification:

Module Mounting Superstructure:

- All design and drawing are to be submitted for approval in Editable, AutoCAD, STAAD file, PDF format to Company or its designated agency before starting the work. The submitted drawing and design shall be certified and stamped by licensed structure designer.
- The MMS should be safe and designed to allow easy replacement of any module and easy access to the O&M staff. It should be designed for simple mechanical and electrical installation, should support Solar PV modules at a given orientation, absorb and transfer the mechanical loads to the ground properly and there should be no requirement of welding or complex machinery at site.
- Irrespective of design, Vertical leg/post shall not be less than 6 mm and other components shall be less than 2.5 mm in thickness.
- The array structure shall be so designed that it will occupy minimum space without sacrificing the output from Solar PV panels at the same time it will withstand design wind speed as per wind zone of the plant location.
- It shall support Solar PV modules at a given orientation, absorb and transfer the mechanical loads to the ground properly. There shall be no requirement of welding or complex machinery at site and is strictly not allowed.
- The Superstructure i.e., Vertical Post and other frame assembly like purlin, rafter, bracing etc. shall be either of HDG, or AZ 150 grade Galvalume.
- All design and drawing are required to be submitted in Editable, AutoCAD, STAAD file & PDF format for approval to Company or its designated agency before starting of work. The

submitted drawing and design shall be certified and stamped by licensed structure designer.

- The Stiffener Channel to be Riveted to Walkway.
- Design of the super structure (Mounting steel structure) shall be done for 25 years life such that structure strength shall not reduce for designed life.
- In case of hot dip galvanization of structures, specific requirement for thickness of galvanization should be at least minimum 80 microns at any point of the galvanized structure. No averaging is allowed for measuring the thickness of galvanization. Inner side galvanization with same specification of any hollow components of module mounting structure is mandatory Galvanized structure is required to be sent to third party laboratory test for confirmation of the mass of zinc applied on structure.
- All nuts and bolts (fasteners) shall be made up of very good quality stainless steel of grade SS 304 required for module fixing. Other fasteners shall be of HDG of 8.8 grade.
- Factor of safety shall not be taken less than 1.5 for all design calculation.
- For multiple modules mounting structures located in a single row, the alignment of all modules shall be within an error limit of 10 mm in vertical / horizontal line.
- The Module Mounting Structure design shall be certified by a structural engineer, and it is mandatory.
- Minimum clearance between finished ground level and lowest edge of structure shall be 3300 mm. Minimum distance between two legs (i.e., Bay for car parking) shall be 3300mm. Gap between modules is to be filled by Rubber gasket (or any other material) of appropriate size so leakage of water from the top can be avoided.
- Gutter at lowest edge of the structure (i.e., parallel to longest length) shall be provided.
- Arrangement of Walkway shall be provided for cleaning purpose.
- consideration shall be given to weight of module assembly, maximum wind speed of 150 km/h and seismic factors for the site.
- Design of the Structure Should be as per **Annexure 8**.

Quality of materials and workmanship: All the materials, components, accessories etc. used shall be brand new and readily available. All items offered shall be as per approved quality and standards. They shall be of such design, size and material as to function satisfactorily under the rated conditions of operation and to withstand the environmental conditions at site. The supplier shall supply the equipment/material according to the true intent and meaning of the specifications of the contract and complete the same to the entire satisfaction of the JREDA.

Indemnify against Accident and Damage: The Supplier shall be held liable and responsible for all accidents or damages to the equipment/material during supply from whatsoever cause arising, and chargeable for anything that may be lost, stolen, damaged, removed or destroyed at any time till the equipment/material is accepted by the JREDA. The Supplier shall also be held responsible and guaranteed to make good any damage to or defects in the said equipment/material or any portion thereof due to materials, workmanship, or design which appear or become known before the expiry of the guarantee period notwithstanding that such damage/defect might not have been discovered during the tests or trials or that payment may wholly or partially have been made or that the

equipment/material have been approved earlier as properly completed. Such approval by JREDA shall not affect or prejudice the right of the JREDA against the supplier or be considered conclusive as to the sufficiency of such equipment/material.

Rejections and Replacements: All material and workmanship used and employed in carrying out this contract shall be to the entire satisfaction of the JREDA. Any portion of material or any of the works done under this contract which may be considered to be defective or unsatisfactory or not in accordance with the said specifications shall be rejected by JREDA and shall be replaced to the satisfaction of JREDA at the sole expense of the Supplier.

TESTS: The following test reports should be submitted:

1. Certificate for Superstructure duly verify & Signed by Structure Engineer.
2. Certified Detailed General Arrangement Drawing of MMS.
3. Certified Structure analysis Report of MMS.
4. Certified Installation SOP/ Manual for the Supplied MMS.

Note: Test certificates and Designs for the Carport Solar Module Mounting Superstructure Shall be submitted during delivery of the Materials.

5. Payment terms and conditions:

The payment shall be made to the successful bidder as per the work order issued basing on the L1 price arrived at as per **Annexure 4**.

Subject to any deduction, which JREDA may be authorized to make under this contract, the contractor shall be entitled to payment as follows:

- a. **90%** of the Contract Price shall be paid against supply and delivery of system supplied in full and in good condition as certified by Consignee and/or JREDA Officials after submission of following documents:
 - i. Original Commercial invoice raised from the state of Jharkhand for the supply made in triplicate (1+2).
 - ii. Copy of duly raised delivery challan / transportation challan /lorry receipt/dispatch clearance.
 - iii. Duly filled **Annexure-6** should be submitted in three sets (one for Consignee record, one for JREDA HQ. and one for JREDA's field Executive Engineer).
 - iv. Geo Tag Photographs of all the equipment (materials) at destination with signature & seal of Consignee/JREDA Officials. This record should be kept in the office of Consignee for verification.
 - v. Test Report and Warranty Certificate of the Supplied Equipments/ Materials.

The payment for the items to be procured/installed will be released on availability of funds.

- b. Rest **10%** of the Contract Price shall be paid against system supplied after 30 days on submission of following documents:
 - i. Copy of Original Commercial invoice raised at the time of supply in triplicate (1+2).
 - ii. Duly filled **Annexure 7**.

Note: Technical Bid should be submitted in envelope with sealed & super scribed as "Technical Bid for Supply of Module Mounting Superstructure (GI) for 400 KWp Carpot Solar Power Plant at New High

Court Building, Dhurwa, Ranchi." duly superscripted NIB no./Subject/Bidder's name & address. Financial Bid shall not be submitted along with the technical documents.

6. Dispatch Instructions

All items/equipments shall be subject to Pre-Dispatch Inspection (PDI) by JREDA or its authorized representatives at the concerned dispatch Location. Successful bidders have to arrange necessary equipments for testing the materials to be supplied during the pre-dispatch inspection by JREDA at their concerned dispatch Location. Failure to fulfill the PDI conditions shall lead to cancellation of work order and forfeiture of security deposit. The items which are being procured through this bid have to be installed at the sites mentioned in the bid.

7. Liquidated Damages for Delay in Completion & Warrantee

If the supplier fails in the due performance of the contract to deliver any part of the equipment or complete the work within the time fixed under the contract or any extension thereof granted to him by JREDA and/or to fulfill his obligations in time under the contract, he shall be liable to pay to JREDA @0.5% per week maximum up to 10% of work value delayed beyond contract period.

8. Risk & Cost

If the contractor fails to complete the awarded work up to extended period of one year from the scheduled date of completion, then JREDA will be at liberty to cancel the said work order and will get the full or part of left over work to be completed by way of engaging alternate contractor and completion of the said work shall be got completed at risk & cost of the failed contractor and failed contractor shall be liable to pay all the dues to JREDA.

9. Insurance

The supplier shall arrange for transit insurance of the MMS. In case of any theft or damage of equipment during transportation period the same will be responsibility of supplier to get it replaced at their own cost.

10. Assignment/ Sub-letting

The Manufacturer/Supplier shall not assign or sublet, manufacture, shop testing, packing & forwarding, transportation, transit insurance, supply in whole or part, and its obligations to any third party to perform under the order/contract.

In the event the manufacturer contravenes this condition, JREDA reserves the right to reject the equipment/work contract and procure the same from elsewhere at manufacturer's risk and cost. The Manufacturer shall be solely liable for any loss or damage which JREDA may sustain in consequence or arising out of such replacing of the contract work.

11. Completeness of Tender

All fittings, assemblies, accessories, hardware items etc. & safety and protection devices as required shall be deemed to have been included in the tender, whether such items are specifically mentioned in the BoM or not.

12. Compliance with Regulations

The supplier/contractor shall comply with all applicable laws or ordinances, codes approved standards, rules and regulations and shall procure all necessary municipal and/or other statutory bodies and government permits & licenses etc. at his own cost. The contractor shall leave the purchaser, Director,

JREDA harmless as a result of any infractions thereof.

13. Agreement

The successful qualified suppliers shall have to enter into an agreement within fifteen days from the date of issue of work order in the office of the Director, JREDA, in prescribed format.

14. Income Tax / GST

Without prejudice to the obligations of the supplier under law, any income tax and GST which JREDA may be required to deduct by law/statute, shall be deducted at source and shall be paid to income tax authorities on account of the supplier. JREDA shall provide the supplier a certificate for such deductions of tax.

15. Force Majeure conditions

In the event of either party being rendered unable by force majeure to perform any obligation required to be performed by them under this agreement, relative obligation of the party affected by such force majeure shall be treated as suspended during which force majeure condition last.

The term force majeure shall have herein mean riots (other than among the contractor's employee), civil commotion, war (whether declared or not), invasion, pandemic, act of foreign enemies' hostilities, rebellion, insurrection, military coup to usurp power, act of god such as earthquake, lightening, floods, fires not caused by contractor's negligence and other cause which the contractor has no control and accepted as such by the Director, JREDA, whose decision shall be final and binding.

If the work is suspended by force majeure conditions lasting for more than 45 days, the purchasers shall have the option of canceling this contract in whole or part thereof, at its discretion. The contractor shall not claim for compensation for force majeure conditions.

16. Cancellation of Work Order:

JREDA will be at liberty to terminate/blacklist in part or full the awarded contract without prejudicing its rights and affecting the obligations of the Contractor by giving 15 (Fifteen) days' notice in writing in the following events:

- (a) If the contractor/supplier is found defaulter for delayed supply failure to deliver satisfactory performance Comprehensive Warrantee or supply of substandard materials.
- (b) If the contractor/supplier fails to comply with the provision(s) of the contract including the responsibilities to fulfill the 5 years CMC of the supplied systems as per the provisions mentioned.
- (c) If the Contractor/vendor is involved in any action of moral turpitude.

Other terms & conditions enumerated in the NIB will be the integral part of this contract.

17. Jurisdiction of the Court

All disputes would be settled within Ranchi jurisdiction of court of law only.



NIB No: 30/JREDA/HIGHCOURT/MMS/22-23

Check list

Sl. No.	Particulars	Yes/No
1	Bid fee (Rs. 5000/-)	
2	Earnest Money Deposit (EMD) (Rs. 62,500/-)	
3	Company/Firm Registration Certificate	
4	Copy of self attested PAN Card with Income Tax Return (ITR) of last financial year.	
5	Copy of the audited balance sheet of last three financial year.	
6	Copy of self attested GST Registration Certificate	
7	Copy of Experience Certificate of last three years as per required experience mentioned in eligibility Criteria.	

(Signature & Seal of the Firm/ Agency/ Supplier)



Format For Financial Requirement – Annual Turnover

NIB No: 30/JREDA/HIGHCOURT/MMS/22-23

[On the letterhead of Bidding Company]

To,

The Director,
Jharkhand Renewable Energy Development Agency
3rd Floor, S.L.D.C. Building,
Kusai Colony, Doranda,
Ranchi - 834002

Dear Sir,

Sub: Supply of Module Mounting Superstructure (GI) for 400 KWp Carpot Solar Power Plant at New High Court Building, Dhurwa, Ranchi.

We certify that the Bidding Company had an average Annual Turnover of Rs. -----
---- based on audited annual accounts of the last three years ending 31.03.2021.

Sl. No.	Financial Year	Turnover (in Rupees)
1.	2018-19	
2.	2019-20	
3.	2020-21	
	Average Annual Turnover	

Enclosed : CA Certificate with UDIN No.....

Authorised Signatory
(Power of Attorney holder)

Statutory Auditor
(Stamp & Signature)

Date:

Annexure-3

Details of Orders Received and Executed in Last 3 Years

NIB No: 30/JREDA/HIGHCOURT/MMS/22-23

Details of Orders Received & Executed as per NIB for Govt. Organization during Last Three Years.

SL. No.	Name of Agency/ Organization	Work Order No., Date.	Date of supply with letter no. & date of the performance certificate	Page number of the Work order/ purchase order submitted	Page number of the performance certificate/recommendation submitted

Yours faithfully,

(Signature of Authorized Signatory)

Name :

Designation :

Company Seal :

Note:

- (a) Attach Photocopies of Purchase Orders
- (b) Attach Photocopies of Certificate of Satisfactory Performance Issued by Concerned Nodal Agency/PSU/ Govt. Organization
- (c) Separate sheet may be used for giving detailed information in seriatim duly signed with page number. Proof of work order/purchase order and corresponding performance certificate should be submitted/enclosed in the bid. Non-submission of the work orders and corresponding performance certificate will be treated as no experience.



Financial Bid

NIB No: 30/JREDA/HIGHCOURT/MMS/22-23

(To be submitted on the letterhead of the company/firm)

S. No	Name of Work	Item Details	UOM	Qty. (Nos)	Rate excluding Taxes (Rs.)	Total Amount
	Supply of Module Mounting Superstructure (GI) for 400 KWp Carpot Solar Power Plant at New High Court Building, Dhurwa, Ranchi.	Carpot Module Mounting Superstructure (GI)	kWp	400		
					Total	

1. Above quoted price is complete in all respect as per Technical Specifications exclusive of all Central/State/Local taxes & duties, packing, forwarding, transit insurance, loading & unloading, transportation & other charges etc.
2. Certified that rates quoted are as per specifications, terms & conditions mentioned in the bid document.

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:

(This bid Performa must be submitted duly signed in case separate sheet is submitted)

Format for Submitting Bank Guarantee for Earnest Money Deposit

NIB No: 30/JREDA/HIGHCOURT/MMS/22-23

(To be submitted in Rs. 100/- Non-Judicial Stamp Paper to be purchased in the name of the issuing bank)

To,

The Director,
Jharkhand Renewable Energy Development Agency 3rd Floor,
S.L.D.C. Building,
Kusai Colony, Doranda, Ranchi -
834002.

WHEREAS (Contractor's name) (hereinafter referred to as "Contractor"), a company registered under the Companies Act, 1956 and having its registered office at is required to deposit with you, the Purchaser, by way of Earnest Money Rs. (Rupees only) in connection with its tender for the work with reference to Notice Inviting Bid (NIB) No. dated as per specification and terms and conditions enclosed therein.

WHEREAS the Contractor as per "Notice Inviting Bid, point no. 3 Earnest Money" has agreed to establish a Bank Guarantee in Your favour through us valid up to (Date) instead of deposit of earnest money in cash.

WHEREAS you have agreed to accept a Bank Guarantee from us in instead of earnest money in cash from the Contractor.

1. We (Bank) hereby agree and undertake to pay you on demand the said amount of Rs. (Rupees..... only) without any protest or demur in the event the Contractor/Tenderer after submission of his tender, resiles from or withdraws his offer or modifies the terms and conditions thereof in a manner not acceptable to you or expresses his unwillingness to accept the order placed and/or letter of intent issued on the Contractor/Tenderer for the work under "Notice Inviting Bid Ref. No.:" **30/JREDA/HIGHCOURT/MMS/22-23**.
2. Your decision as to whether the Contractor/Tenderer has resiled from or has withdrawn his offer or has modified the terms and conditions thereof in a manner not acceptable to you or has expressed his unwillingness to accept the order placed and/or Letter of Intent issued by you on the Contractor/Tenderer for the work under "Notice Inviting Bid Ref. No.: **30/JREDA/HIGHCOURT/MMS/22-23** in this regard, shall be final and binding on us and we shall not be entitled to question the same.
3. Notwithstanding anything contained in the foregoing, our liability under this Guarantee shall be restricted

to Rs. (Rupees only).

4. This Guarantee shall remain valid and in full force and effect up to (Date) and shall expire thereafter unless an intimation is given to the Bank by you earlier in writing discharging us from our obligation under this Guarantee.
5. We shall not revoke this Guarantee during its currency except by your consent in writing.
6. This Guarantee shall not be affected by any change in the constitution of the Contractor/Tenderer or yourselves or ourselves but shall ensure to your benefit and be enforceable against our legal successors or assignees by you or your legal successors.
7. Notwithstanding anything contained herein above unless a demand or claim under this Guarantee is made on us in writing within six months from the date of expiry of this Guarantee we shall be discharged from all liabilities under this Guarantee thereafter.
8. We have power to issue this Guarantee under our Memorandum and Articles of Association and the undersigned who is executing this Guarantee has the necessary power to do so under a duly executed Power of Attorney granted to him by the Bank.
9. This Bank Guarantee must include SFMS (Structural Financial Management System) as per JREDA Bank Details Which is as:

Name of Bank: State Bank of India

IFSC Code: SBIN0009010

Branch Details: Ashok Nagar Branch, Ranchi

Signed and Delivered
For and on behalf ofBank.
(Banker's Name)

Name of Bank Manager:

Address

.....

NIB No: 30/JREDA/HIGHCOURT/MMS/22-23

Certificate of Delivery of Item Name... received by JREDA Official as Proof of Compliance by the Supplier

Name & Address of site:.....

Certified that we have received following materials and handed over to supplier for operation of SPV Power Plants:

1. Nos. & details of the Item:.....

Above materials have been supplied by M/s.....

Signature & Seal of Supplier

Certificate of JREDA official/Representative

Certified that above-mentioned materials have been inspected as per the specification and handed over to the CMC contractor’s representative at site for installation & commissioning.

Signature of JREDA Representative

Signature of JREDA official:.....

Date.....

NIB No: 30/JREDA/HIGHCOURT/MMS/22-23

Certificate of Successful Supply of Materials

Name & Address of site:.....

This is to certify that **Item Name** ----- in Quantity----- have been
Supplied successfully by M/s on Dated..... at
.....

The item has received at site with good condition and as per the tender specification.

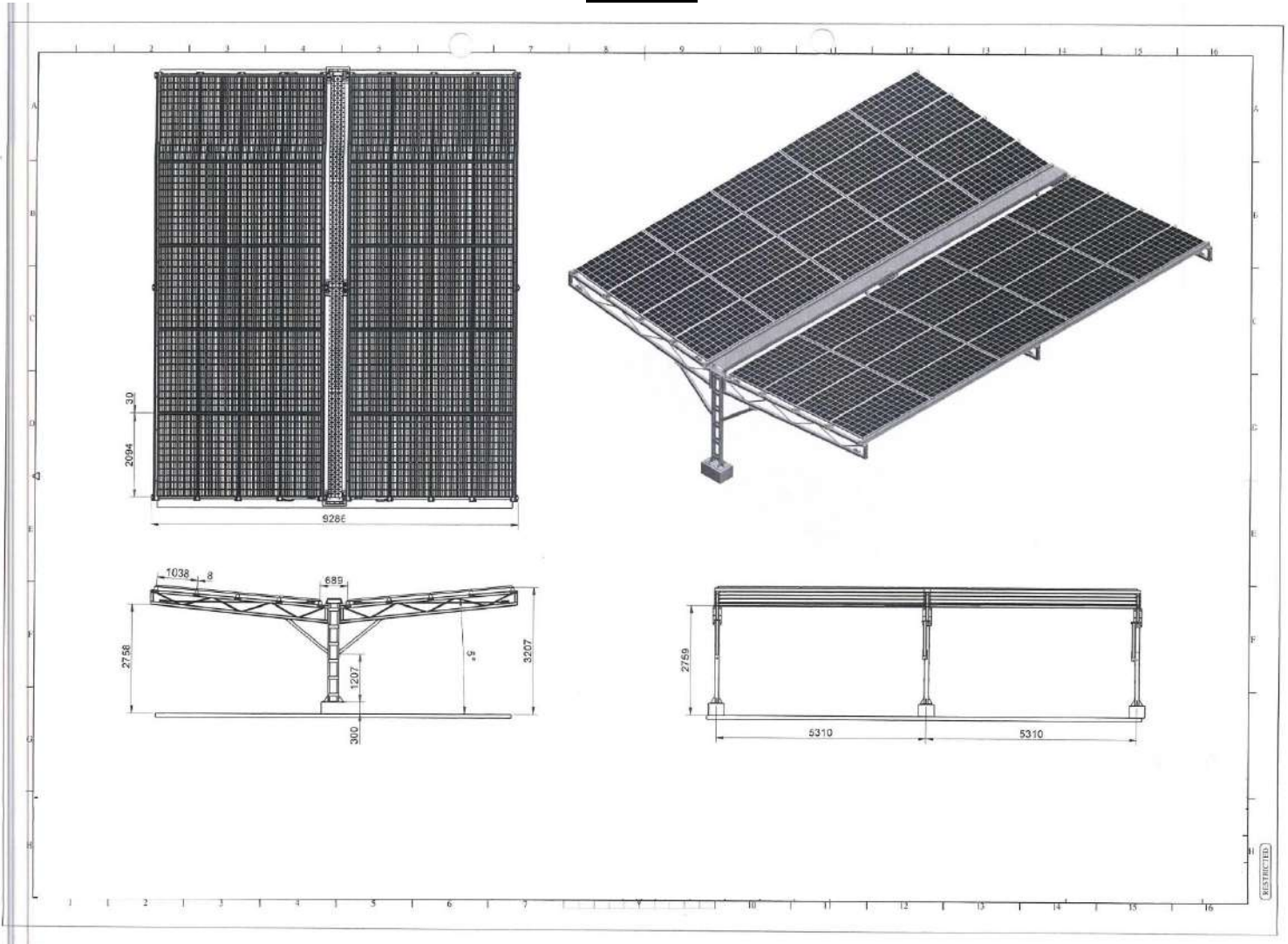
Signature & Seal of Supplier

Signature & Seal of JREDA Representative.....

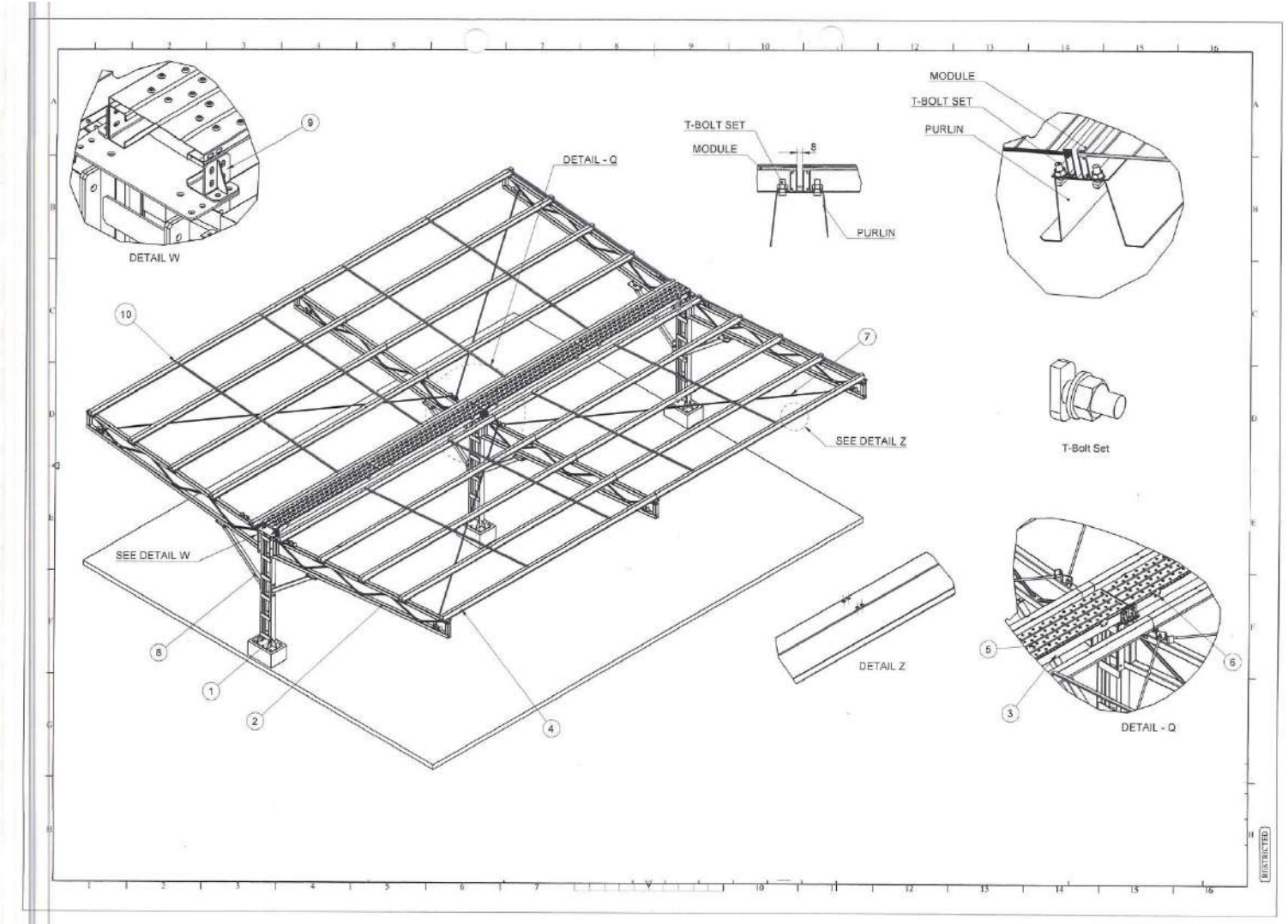
Date.....

NIB No: 30/JREDA/HIGHCOURT/MMS/22-23

**Proposed Drawing for Carport
Structure**

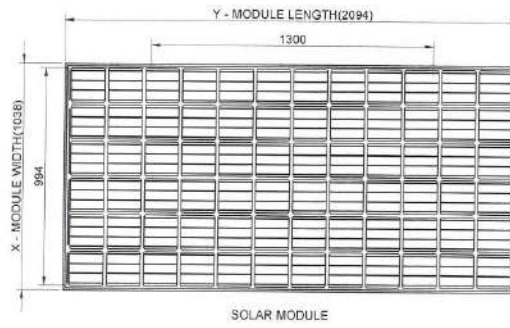


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40MMS Carport Ground Mount 5deg 150Kmph

MODULE MAKE	MODULE DIMENSION		MODULE PITCH		PURLIN	RAFTER	MODULE TO MODULE GAP	
	X	Y	X	Y	X	Y	X	Y
TAMPRO 450 HZ SERIES-TATA	1052	2114	1011	1265	1060	1265	11	10
JINERGY MONO 440	1038	2094	994	1300	1046	1300	8	30



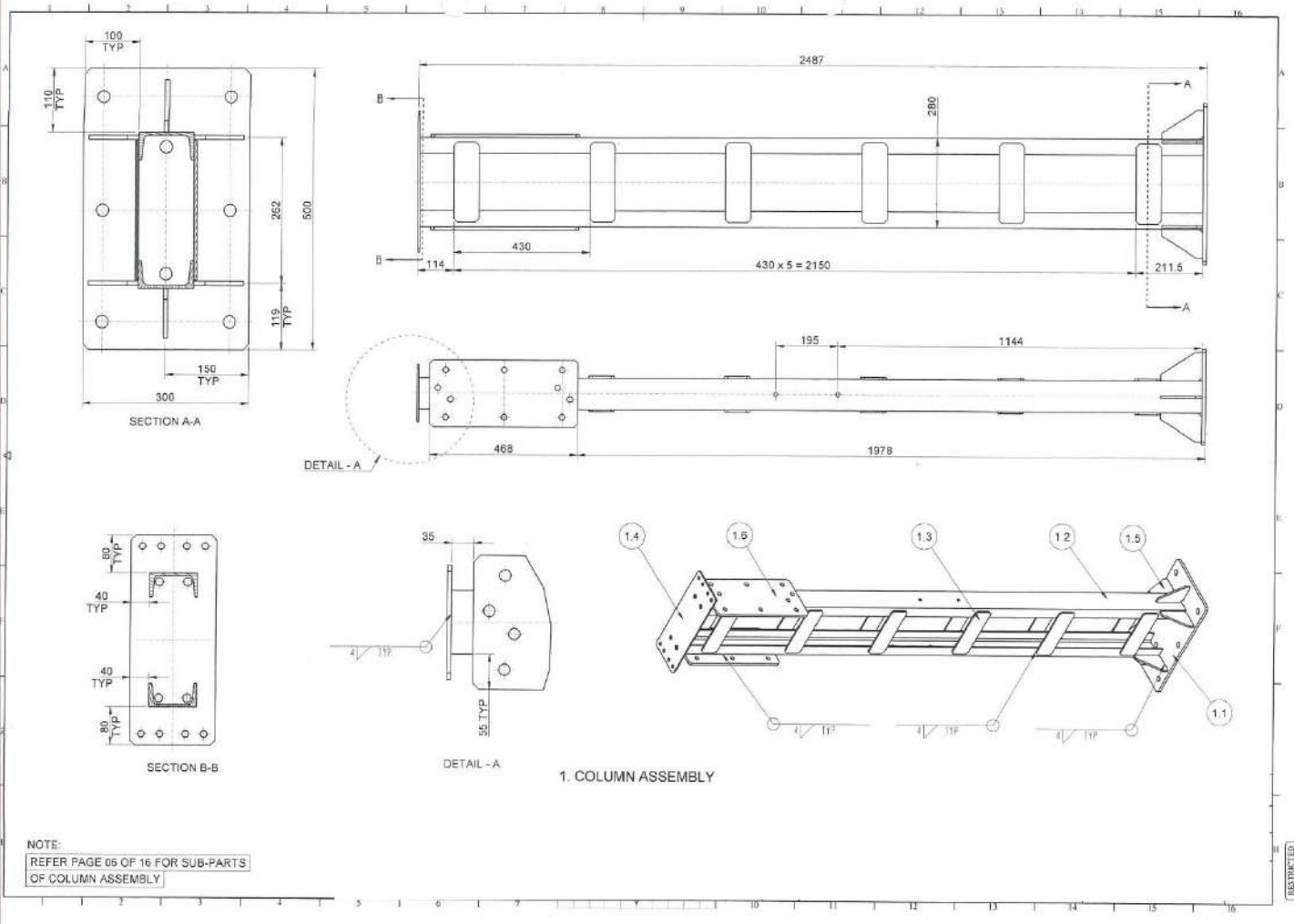
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7000023438 - 40MWS Carport Ground Mount Sdsg 150Kmph

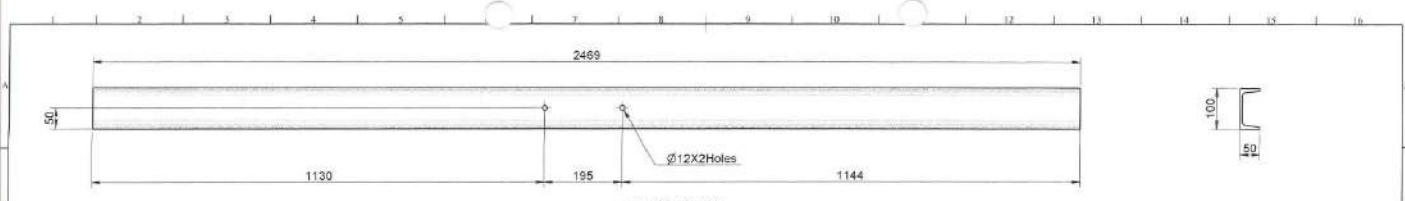
S. No.	SAP Number	Part Number	Items	Specification (mm)	Length (m)	W/m (kg)	Wt/pc (kg)	Qty/pc	Wt/Gt (kg)	Unit Weight (kg)	Total Qty	Total Weight (kg)	Material Grade and Standard	Finish (Minimum)
1	700002694	1.1	Base plate	C/2 x 100 x 12 THK	-	-	14.11	1	14.11	96.21	3	286.6	E250A (S-2002)	HSG 60 Millon (S 2024 1995)
		1.2	Column	B3 MC 400	2.680	0.96	2.600	2	47.21					
		1.3	Column connecting plate	250 x 80 x 6 THK	-	-	8.94	12	11.30					
		1.4	Flange Plate	140 x 180 x 6 THK	-	-	3.72	1	3.73					
		1.5	Stiffener	120 x 60 x 8 THK	-	-	0.73	6	4.41					
		1.6	Truss Connecting Plate	160 x 250 x 10 THK	-	-	7.71	2	15.18					
2	700002083	2.6	Truss Connecting Plate	160 x 250 x 10 THK	-	-	7.71	1	7.71	87.62	6	325.7	E250A (S-2002)	HSG 60 Millon (S 2024 1995)
		2.1	Main Truss Member - Top Tube	Tube 72 x 72 x 3.2 THK	4.906	0.71	30.24	1	30.24					
		2.2	Main Truss Member - Bottom Tube	Tube 72 x 72 x 3.2 THK	4.515	0.71	30.30	1	30.30					
		2.3	Main Truss Member - Left Tube	Tube 72 x 72 x 3.2 THK	0.711	0.71	2.08	1	2.18					
		2.4	Main Truss Member - Right Tube	Tube 72 x 72 x 3.2 THK	0.713	0.71	2.06	1	2.16					
		2.5	Truss Inner Web Member - 1	Tube 25 x 25 x 2.6 THK	0.688	1.03	1.36	1	1.36					
		2.6	Truss Inner Web Member - 2	Tube 25 x 25 x 2.6 THK	0.729	1.03	1.45	1	1.45					
		2.7	Truss Inner Web Member - 3	Tube 25 x 25 x 2.6 THK	0.706	1.03	1.38	1	1.38					
		2.8	Truss Inner Web Member - 4	Tube 25 x 25 x 2.6 THK	0.707	1.03	1.30	1	1.30					
		2.9	Truss Inner Web Member - 5	Tube 25 x 25 x 2.6 THK	0.706	1.03	1.29	1	1.29					
		2.10	Truss Inner Web Member - 6	Tube 25 x 25 x 2.6 THK	0.697	1.03	1.18	1	1.18					
		2.11	Top Rod Connecting Coust	RS 45 x 55 x 58 x 5 THK	-	-	0.79	2	1.57					
		2.12	Parfin Cleat A	ISA 40x40x4	0.179	2.4	0.42	8	2.89					
2.13	Parfin Cleat B	ISA 40x40x4	0.151	2.4	0.46	4	1.83							
2.14	Bracing Plate	PL 250x150x8THK	-	-	2.36	2	2.36							
3	700002696	3	Walkway Base Support Channel	C - Top 100 x 100 x 20 x 2 THK	5.310	2.80	20.30	1	20.30	20.30	4	81.2	YS300 (S-811-1987)	
4	700002349	4	MCN Parfin	MCN 70x70x10x3 THK	5.342	2.80	19.62	1	19.62	20	393.4	Gokulnagar A2130 (S1-50050a)		
5	700002482	5.1	Walkway Plank	C - Top 850 x 24 x 28 x 1.2 THK	2.445	0.90	10.33	1	10.33	4	45.4	300 Mpa, 350 (Q235) (Pine - Galvanized as per IS - 277:2013)		
5	700002482	5.2	Stiffener Channel for Walkway*	H - Section: 40 x 21 x 8 x 1 THK	0.138	0.71	0.34	4	0.96	4	4.1	E250 (S-2002)	HSG 60 Millon (S 2024 1995)	
6	700002375	6	Walkway Connecting Plate	75 x 75 x 3 THK	-	-	0.13	1	0.13	15	2.0	E250 (S-2002)	HSG 60 Millon (S 2024 1995)	
7	700002640	7.1	Top Rod for Truss	Dia 16	6.55	3.50	10.34	1	10.34	10.34	4	41.4	Fe 300 ER Plain Bar with Threading on both sides	
		7.2	Nuts	M16 X 2	-	-	-	2	-	-	-	-	-	-
		7.3	Washers	M16 X 2	-	-	-	2	-	-	-	-	-	SS 304 (S-1367)
8	700002446	8.1	Bracing Member	Tube 22 x 22 x 3.2 THK	1.301	0.71	0.93	1	0.93	13.25	6	79.5	YS300 (S-811-1987)	HSG 60 Millon (S 2024 1995)
		8.2	Bracing Plate-1	PL 250x150x8THK	-	-	1.57	1	1.57					
9	700002631	9.1	Bracing Plate	PL 250x150x8THK	-	-	2.36	1	2.36	0.51	3	-4.1	E250 (S-2002)	HSG 60 Millon (S 2024 1995)
		9.2	U-Clack W/ Slender Base Support	50 x 40 x 5 THK	0.087	5.30	0.46	1	0.46					
		9.3	W/Flange for J-Clack	PL 250x150x8THK	-	-	0.07	1	0.07					
10	700002636	10	Modular Sealing Member	Hot - 100x100x3THK	2.087	0.46	0.95	1	0.95	15	14.2	Gokulnagar A2130 (S1-50050a)		
Total Unit Weight											1395.3			

Sl. No.	SAP Number	Fastener Location	Fastener Spcd (Fasten (mm)	Bolt Length (mm)	Nut	Plain washer (2 Nos)		Spring washer (1 No)	Material Grade	Total Qty
						OD of Plain washer	ID of Plain washer			
1	7000021714	Base Foundation	M20 x 2.5 (Foundation Bolt)	600	Hexagon Standard Nut (1No.)	Standard	Standard	Standard	Gr B 8 (S 3426, 1999 - Casting (S 1367 (part X13) - 1983)	15
2	7000011297	Truss to Column Mounting	M16	60	Hexagon Nut (1No.)	Standard	Standard	Standard	Gr B 8 (S 4028) - Casting (S 1367 (part X13) - 1983)	36
3	700002463	Walkway Base Support to Column	M10 x 1.5	30	Hexagon Nut (1No.)	Standard	Standard	Standard	SS 304 (S 1367)	32
4	7000018599	Walkway Support to Walkway Plank	M10 x 1.25	30	Hexagon Nut (1No.)	Standard	Standard	Standard	SS 304 (S 1367)	64
5	7000020463	Truss Cleat to Parfin	M10 x 1.5	30	Hexagon Nut (1No.)	Standard	Standard	Standard	SS 304 (S 1367)	120
6	7000022211	Walkway Support to Cleat to Column Flange Plate	M12	35	Hexagon Nut (1No.)	Standard	Standard	Standard	SS 304 (S 1367)	15
7	7000024548	Bracing to Column	M10	40	Hexagon Nut (1No.)	Standard	Standard	Standard	SS 304 (S 1367)	12
8	7000014545	Bracing to Truss	M10	40	Hexagon Nut (1No.)	Standard	Standard	Standard	SS 304 (S 1367)	12
9	7000028467	Modular to Parfin			7 Bolt Set (7 Bolt M16x30mm Long, 1 plain washer, 1 Hexagonal nut)				SS 304 (S 1367)	160

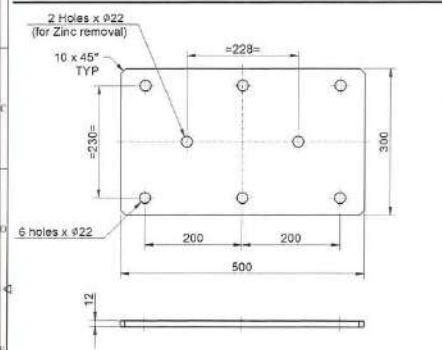
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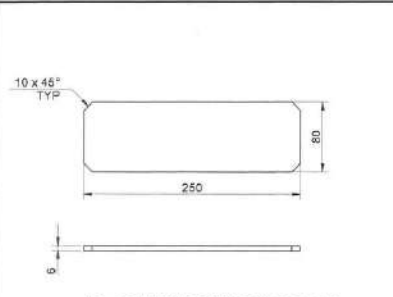
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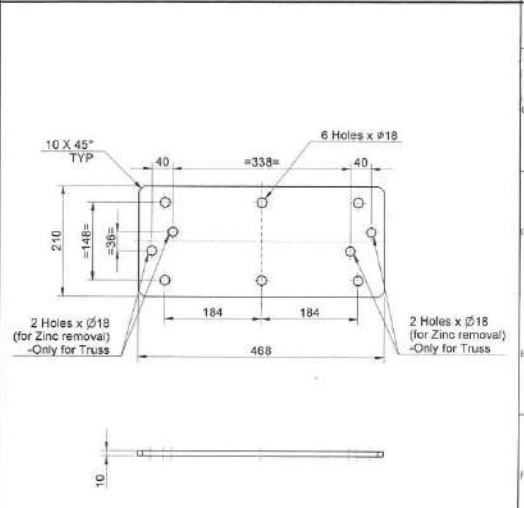
1.2: ISMC 100



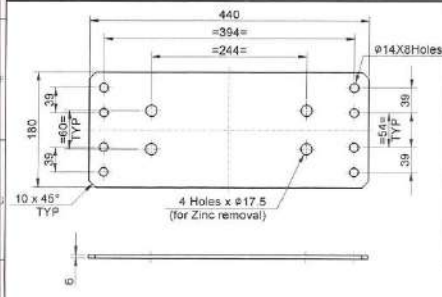
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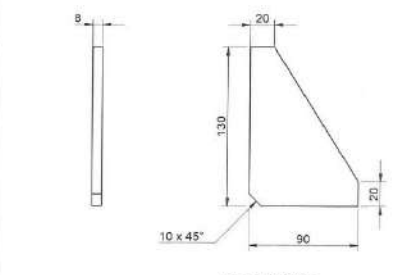
1.3: COLUMN CONNECTING PLATE



1.6: TRUSS COLUMN CONNECTING PLATE



1.4: FLANGE PLATE



1.5: GUSSET

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