

BALUCHISTAN UNIVERSITY OF ENGINEERING & TECHNOLOGY,
KHUZDAR

OFFICE OF THE PROJECT DIRECTOR

Issue to M/s _____

Dated: - _____

Tender Cost: - (Rs. 7000/=Non-refundable) Rupees Seven Thousand only



NAME OF BIDDER: _____

TENDER DOCUMENTS (September 2024)

**PROCUREMENT OF 330KW ON-GRID SOLAR SYSTEM WITH COMPLETE
INSTALLATION AND COMMISSIONING AT BUET KHUZDAR"**

TOKEN TENDER FOR WORK

I / We agree to purchase tender documents furnished for this work / supply on the terms and conditions imposed by the Government and Balochistan University of Engineering & Technology Khuzdar, given in this document.

Detail of our firms is as below:

1. Name of Firm : _____
2. Addresses of Firm: _____
3. Earnest Money Deposited of Rs. : _____
4. Earnest Money No. and Bank: _____
5. Name of the responsible person: _____
6. Authorized Signature of firm/company: _____
7. Seal of the firm/company: _____

OFFICE USE

Issued to M/s _____

On payment of Rs. _____

Date of issue: _____

Office Assistant

1. SPECIAL INSTRUCTIONS

1. This document has been prepared, based on the workings carried out for the requirements and needs of the Procuring Agency, observing PPRA Rules 2004. Any grievance / accusation/ suggestion (if so) refraining the responding agency from bidding, without prior consultation with the Procuring Agency would be an approach of misleading and/or misappropriation towards Procuring Agency.
2. Any conditional, partial, ambiguous, or called incomplete offer in any respect shall be ignored. No supplementary or revised offer after the opening of tenders shall be entertained.
3. Any erasing cutting crossing etc., appearing in the offer must be properly signed and stamped by the person signing the tender. Moreover, all pages of the tender must also be properly signed and stamped. Offers with any overwriting shall in no circumstances be accepted.
4. Sign & seal each & every page of bidding document before submission.
5. At any time prior to the deadline for submission of bids, the Procuring Agency, for any reason, may modify the Bidding Documents by amendment.
6. The interested firm(s) shall inform the Procuring Agency in writing (through mail/courier and electronic mail on the email given in advertisement) instantly on acquiring/downloading bidding document, so that bidders be informed in case of any change/amendment(s) made in the bidding document.
7. The Responding Organization must respond as per Terms of Reference (TOR).
8. A Bidder is not allowed to bid for selective items from the list of goods provided for in the Schedule of Requirements. A Bidder shall apply for the complete Turnkey Solution. Partial items BID will not be entertained.
9. The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Documents. Failure to furnish all information required by the Bidding Documents or to submit a bid not substantially responsive to the Bidding Documents in every respect shall be at the Bidder's risk and may result in the rejection of its bid.
10. Any tampering, illegitimate inclusion or exclusion in any part of the Standard Bidding Documents shall lead to disqualification of the bidder. However, offers other than given in document should be given on separate sheets.
11. The Procuring Agency may, in its discretion, extend the prescribed deadline for the submission of bids by amending the bidding documents in which case all rights and obligations of the Procuring Agency and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.
12. The Procuring Agency reserves the right at the time of award of Contract to increase or decrease, the quantity of goods originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions.

13. Any effort by a Bidder to influence the Procuring Agency in its decisions on bid evaluation, bid comparison, or Contract award may result in the rejection of the Bidder's bid. Canvassing by any Bidder at any stage of the bid evaluation is strictly prohibited. Any infringement shall lead to disqualification.
14. The Bidder whose bid is found to be most closely conforming to the Evaluation Criteria prescribed in Bidding Document and having the lowest evaluated responsive bid, if not in conflict with any other law, rules, regulations or policy of the Government, shall be awarded the Contract, within the original or extended period of bid validity and shall be sent the Contract Agreement Form incorporating all agreements between the Parties.
15. Within one week of receipt of the Contract Agreement Form, the successful Bidder and the Purchaser shall sign the Contract in accordance with the legal requirements in vogue.
16. If the successful Bidder, after completion of all codal formalities shows an inability to sign the Contract then its Bid Security shall stand forfeited and the firm may be blacklisted and de-barred from future participation, whether temporarily or permanently. In such situation the Purchaser may award the contract to the next lowest evaluated Bidder or call for new bids.
17. The Contract shall become effective upon affixation of signature of the Purchaser and the selected Bidder on the Contract document and shall be governed for the period specified in the Bid Data Sheet and by the terms and conditions mutually agreed in the contract.
18. On the date of signing of Contract, the successful Bidder shall furnish a Performance Guarantee for a percentage amount (10% of the total items' quoted price) as specified in the Bid Data Sheet (BDS), on the Form and in the manner prescribed by the Procuring Agency in the form of PO / DD / AA Ranking Insurance.
19. The Bid Security submitted by the bidder at the time of submitting its bid shall be returned to the Bidder upon submission of Performance Guarantee.
20. Failure to provide a Performance Guarantee by the Bidder is a sufficient ground for annulment of the award and forfeiture of Bid Security. In such event the Procuring Agency may award the contract to the next lowest evaluated bidder or call for new bid.
21. Before commencing supplies, the Supplier shall provide samples of specified items free of cost, if and as specified in the Schedule of Requirements of the product to the designated office or staff, as the case may be.

2. GENERAL CONDITIONS

1. PEC Guidelines / PPRA rules will be followed in all respect throughout the process.
2. Conditional/incomplete/overwritten bid will not be entertained and rejected.
3. The prices quoted must be valid for at least 90 days from the date of tender opening for the evaluation of tender.
4. The successful bidder will be required to complete the work within 90 days from the date of issuance of work order.
5. Telephonic/telexed/faxed/telegraphic quotations will not be entertained.
6. Refurbished, Grey smuggled, or international warranty products will not be accepted in any case.
7. Any product inferior to the given specification / University requirement shall be disqualified straight away.
8. Compliance sheet must be provided by the bidder along with the quotation.
9. University shall only accept the branded equipment imported through proper channel.
10. If provided documents / evidence found faked at any stage will lead toward termination / forfeiture of Bid security along with blacklisting of firm as per PPRA Rules.

2. SCOPE OF SUPPLY

The bidder(s) are required to provide the complete solar system including Net Meter in accordance with specification/rules and ensure also complete installation of all system. The contractor shall ensure that the system installed will technically confirm to all requirements / pre- requisites for Wheeling/Net-metering as per DISCO/ PEPCO/NEPRA/or any other related organization requirements. Bidder shall be responsible for net-metering and all related processes to get Net Metering License as per BUET Khuzdar request. The University may increase or decrease scope / quantity as per requirement. Initially, the offered rates will be taken for 330KW.

3. BIDS PROPOSAL

The bid should comprise a single package containing two separate envelopes. Each envelope should contain separately the financial proposal and technical proposal. The envelopes shall be marked as **“FINANCIAL PROPOSAL”** and **“TECHNICAL PROPOSAL”** in bold letters.

Initially, the technical proposal will be opened whereas the financial proposal will be retained in the custody without being opened. The committee will evaluate the technical proposals. The Technical proposals not confirming to the requirements of the university will be rejected. The University may also ask the qualified firms to prepare a presentation of the complete set up to be installed in the premises. The financial proposal of bids found technically non-responsive will be returned un-opened to the respective bidders. Financial proposals of the technically responsive bids will be opened publicly at the time, date and venue which will be communicated well in time to the respective bidders.

The above stated standard evaluation criteria will be binding upon the bidders and will have no liability, on the University.

4. BID PRICE

The bidder shall indicate in his / her offer, list of items with prescribed specifications, the unit price and total bid prices of the items. Taxes levied by the Government, if any, shall be recoverable from the bidder as per rules. Total price must be inclusive of all taxes including Provincial Taxes, installation and all other charges etc. Any separate payment in any head will not be entertained for payment.

5. CURRENCY OF BID

The Price should be quoted in Pakistani Rupees.

6. BID VALIDITY

The bid should remain valid and open for acceptance of purchase for 90 days from the date of opening of bids.

7. RELEASE OF PERFORMANCE SECURITY

Ten percent (10%) Performance security will be released upon successful completion of Warranty & Services of Twelve Months (12 Months).

8. SIGNING OF BIDS

The person signing the bid shall sign and stamp all the pages of the bid, where entries are made.

9. DEADLINE FOR SUBMISSION OF BIDS

All bids must reach and be received by the University on or before **October 07, 2024 (Monday) at 15:00 hours**. The bids will be opened at **15:30 hrs** on the same day in the **Project Director, New Admin Block, Balochistan University of Engineering & Technology Khuzdar** in presence of the bidders or their authorized representatives, who wish to be present. Bids with charges payable will not be accepted, nor will arrangements be undertaken to collect the bids from any delivery point other than that specified above. Bidder/Suppliers shall bear all expenses incurred in the preparation and delivery of bids. No claims will be entertained for refund of such expenses.

10. LATE BIDS

Any bid received in the university after the prescribed deadline shall not be entertained as per PPRA rule 28-(2). Bids should be delivered through registered Courier or by hand only on the submission time. However, the bids dispatched within due date but delivered late by courier service will be accepted.

11. BID SECURITY

11.1 The bidder shall furnish a bid security/ earnest money equivalent to 02 % of the total value of bid in the form of a Call Deposit / Demand Draft in favor of Project Director BUET Khuzdar. Any bid not accompanied by an acceptable bid security shall stand liable to be rejected by the University as non-responsive. The bid securities / earnest money of the unsuccessful bidder will be return.

11.2 The bid security of the successful bidder will be return upon submission of 10% Performance guarantee (Mandatory) in the form of a Call Deposit / Demand Draft / AA Ranking Insurance only.

11.3 The bid security / earnest money may be forfeited / confiscated:

- i. If a bidder withdraws his bid during the period of bid validity.
- ii. If the bidder does not accept the correction of his bid price.
- iii. he case of a successful bidder, if he fails to furnish the required performance security or failed to supply / install / test / successful operation the required Solar System as per technical specifications.
- iv. If the bidder fails to fulfill the mandatory requirements upon which he has given certificates / affidavits etc.

12. LOSS OR DAMAGES

University shall not be involved in any case if a loss or damage occurs to any person or property whatsoever arising out or as a consequence of the construction/ installation and the maintenance of the works, and all liabilities in this regard shall be borne by the Contractor. The Contractor shall also confirm in all respects with the provisions of any ordinance, Law Rules or Regulations of any authority, which may be applicable to the works or temporary works.

13. UNIVERSITY'S RIGHT TO ACCEPT OR REJECT ANY OR ALL BIDS

As per PPRA rule 33-(1), University may reject all bids or proposals at any time prior to the acceptance of a bid or proposal. University shall upon request communicate to any supplier or contractor who submitted a bid or proposal, the grounds for its rejection of all bids or proposals, but is not required to justify those grounds.

14. DELIVERY SCHEDULE

The bidders shall make delivery of the items within **90 days (which may be extended on reasons unavoidable and accepted by Project Director)** from the date of issuance of work / supply order. A penalty of 0.1% of the item price per day subject to the maximum of 10% of the total amount would be charged after expiry of the delivery time till the supply of the items. Work / Supply order of contract will be issued subject to the availability of funds for the quantity as per actual requirement during the entire contract period.

14.1 MODE OF PAYMENT

No Advance payment will be made.

15. TAXES

All Government taxes (Federal & Provincial) shall be deducted at source according to the relevant rules.

16. ARBITRATION

The arbitrator will be nominated with mutual understanding of both parties (University & Vendor) in case of any dispute related to project.

17. WARRANTY

Standard warranty of each equipment. After sales service including site visit (free of cost) during warranty period.

18. OTHER SPECIAL CONDITIONS OF THE CONTRACT

- Currently, the university is paying a huge amount in terms of electricity bills. By installation of this solar system, the university intends to reduce its bills.
- This solar system should be safe from any man-made and natural hazard.
- This solar system should be a central system. The university is composed of three main units i.e., (i) academic and administrative block, (ii) student hostels and (iii) residential. This solar system must provide power to these three units on priority basis as per its capacity.
- This solar system project must be completed in all respects within 90 days.
- This project should be extendable i.e. upon completion of academic and administrative blocks, the system must be extended towards student hostels and residential colony.
- During the weekends and holidays in the university, this solar system must be capable of providing surplus electricity to the student hostels and residential colony.

19.1 INSPECTION OF EQUIPMENT/MATERIALS.

All Equipment /materials shall be subject to inspection and shall be approved by University Technical Committee before the same are fabricated or installed in position. The committee may reject such materials as are considered by the committee to be below standard specifications, size or quality. The Contractor shall provide all labour at his own expense for handling during inspection. Any materials rejected by the committee shall not be used and shall be removed from the site by the Contractor.

19.2 WORK TO BE OPENED FOR INSPECTION

All supply/works under or during the course of execution in pursuance of the Contractor, whether at site or at Contractor's workshop shall, all times, be opened for inspection and supervision of the University Technical Committee at all times during the usual working hours. The contractor should either himself be present to receive the instructions or any responsible agent duly accredited in writing, present for this purpose. Instructions given to the Contractor's agent should be considered to have the same force as if these had been given to the Contractor himself.

19.3. RESPONSIBILITY AGAINST DAMAGES

Before and up to the whole of the supply/works are completed and have been finally handed over to the University and a proper completion certificate there of obtained by the Contractor, the Contractor shall be responsible for all and any damage caused to the materials or installed works/equipment through accident, improper handling, theft, transport or any other cause whatsoever and shall repair, remove or replace the same and compensate the University against all such losses.

19.4 SPECIFICATIONS

The work shall comply with the requirement/ specification laid down in the technical specifications of the tender. Quality of each item should be of supreme quality.

19.5. LABORATORY TEST

The University Technical Committee has the power to conduct Equipment/Material Quality assurance test, and cost of such tests will be borne by the contractor. No claim in this regard will be entertained for payment.

19.6 SIGNING OF CONTRACT AGREEMENT

The formal agreement between the Employer and the successful Bidders/Suppliers shall be executed as per instructions of tender documents within two weeks of the receipt of the Contract Agreement by the successful Bidder/Supplier from the Employer.

19.7 Power Generation:

Successful bidder will make and provide the green metering file complete in all respect to the department whenever required after the completion of the project. The Procuring Agency will initiate the file to the concerned department whenever required.

19.8 Force Majeure

19.8.1

The Supplier shall not be liable for forfeiture of its Performance Guarantee, liquidated damages, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

19.8.2

For purposes of this clause, Force Majeure means an event beyond the control of the Supplier and not involving the Suppliers fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Procuring Agency in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes. Both, the Procuring Agency and the Supplier, may agree to exclude certain widespread conditions e.g.: epidemics, pandemics, quarantine restrictions etc. from the purview of Force Majeure.

19.8.3

If a Force Majeure situation arises, the Supplier shall promptly notify the Procuring Agency in writing of such condition and the cause thereof. Unless otherwise directed by the Procuring Agency in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event. Any difference of opinion concerning Force Majeure may be decided through means given herein below.

20. RESPONSIVENESS OF BIDS

The bidder(s) will be declared as responsive for technical evaluation of Bid(s) upon submission of all following mandatory documents and requisite documents as mentioned below requirements of Eligibility. In case of NOT meeting any single requirement, the Bid shall be declared as NON - RESPONSIVE.

21. PRE-BID MEETING

A Pre-bid meeting has been scheduled on Thursday (03-10-2024) (11:30 AM) in the office of the Project Director, in case any contractor / firm intends to visit the actual site and have any query regarding the tender.

21.1 ELIGIBILITY FOR QUALIFICATION

S.#	Description	Mandatory
1	Registration with Income Tax (Active NTN) & Active Tax Payer	Mandatory
2	Sales Tax (GST) Registration & Active Tax Payer	Mandatory
3	Registration with BRA & Active Tax Payer	Mandatory
4	Tender cost (Tender & stationary charges of Rs. 7,000/-). DD / PO / Cash	Mandatory
5	Valid registration certificates of ISO-9001 & ISO-50001	Mandatory
6	Valid registration Certificate of PEC (Pakistan Engineering Council) under the specific code EE04, EE09, EE11(solar), Category C-4	Mandatory
7	Valid registration Certificate with PPIB/AEDB (Private Power and Infrastructure Board) Category C-2 (Solar).	Mandatory
8	Authorization from Manufacturer (Solar Panels & Inverters)	Mandatory
9	03 Projects completed of On-Grid solar system minimum 250KW each in last 2 years, at least 02 Projects should be completed in public sector organizations of Balochistan (<i>Attach Purchase Order with Completion Certificate & Generation License from NEPRA on the name of the same firm having purchase order</i>)	Mandatory
10	Affidavit on Judicial / Stamp Paper of Rs. 100/- or above, duly attested by Notary Public that the firm would supply / installation Brand New / Original equipment for the project	Mandatory
11	Affidavit on Judicial / Stamp Paper of Rs. 100/- or above duly attested by Notary Public that they have never been blacklisted by any Government/ Semi Government Organization	Mandatory
12	Certificate that Bid Security has been attached to the financial proposal without showing the amount of bid security in technical proposal.	Mandatory
13	Joint Venture is not Permissible.	Mandatory
14	Agree to serve the contract within 120 Days	Mandatory
15	The Bidder must have functional corporate office in Baluchistan (Attach Tenancy agreement or ownership documents of the office premises AND Copy of recently paid utility Bill (maximum 3 months old)	Mandatory
16	Power of Attorney / Authority letter by the owner of firm to act as authorized person for signing & submission of Bids must be provided on Judicial / Stamp Paper of Rs. 100/- or above, duly attested by Notary Public	Mandatory

2. EVALUATION CRITERIA

Keeping in view the complexity of the Project works, criteria for qualification has been evolved as:

SNo	Category	Weightage/Marks
1	General Capabilities	25
2	Work Experience	30
3	Financial Soundness	15
4	Personnel Capabilities	10
5	Technical System Design	20
	Total	100

Qualification will be carried out on the point scoring basis. Applicant / proposal securing minimum score 70% or above in overall / total will be considered as QUALIFIED and RESPONSIVE.

Applicants having score of less than 70% in overall categories shall not be considered for further tender process and final evaluation. The financial proposals submitted of that firm will be returned back in sealed.

1. GENERAL Capabilities			
S #	Description	Marks Assigned	Criteria for Marks Obtained
1	Valid Registration Certificate with Industries & Commerce Department Balochistan (in Relevant Field)	5	▪ No marks will be given if license is not attached, and 5 marks will be added in case of valid certificate.
2	Valid Registration Certificate of ISO-14001	5	▪ No marks will be given if license is not attached, and 5 marks will be added in case of valid certificate.
3	Valid Registration Certificate of ISO-50001	5	▪ No marks will be given if license is not attached, and 5 marks will be added in case of valid certificate.
4	Company Existence since 15 years	5	▪ 05 Marks will be given for 15 years or above ▪ 0 Mark for less than 15 years
5	Company existence in Balochistan Province	5	▪ 05 Marks will be given for Existence in Balochistan province ▪ 0 Mark will be given No Existence in Balochistan Province
	Total Marks Allocated	25	

2. WORK EXPERIENCE			
S #	Description	Marks Assigned	Criteria for Marks Obtained
1	At Least 1 Project in Hand of Solar system in public sector in last 1 year	20	<ul style="list-style-type: none"> • 20 Marks will be given if the project Cost is equal to 90 million or above • 15 Marks will be given if the project Cost is equal to 80 million or above • 10 Marks will be given if the project Cost is equal to 70 million or above • 0 Marks will be given if the Project Cost is less than 70 Million.
2	At Least 50KW Solar system in public sector in last 1 year	10	<ul style="list-style-type: none"> • 10 Marks will be given if 2 or more projects in hand • 5 Marks will be given if 1 or more project in hand • 0 Marks will be given for No Project
Total Marks Allocated		30	

3. FINANCIAL SOUNDNESS			
S #	Description	Marks Assigned	Criteria for Marks Obtained
1	Turn over in last 3 years (Attach Bank Certificates)	15	<ul style="list-style-type: none"> • 15 Marks will be given if turn over for last three years is equal to 500 million or above • 10 Marks will be given if turn over for last three years is equal to 400 million or above • 05 Marks will be given if turn over for last three years is equal to 300 million or above • 0 Marks will be given if turn over for last three years is less than 300 million
Total Marks Allocated		15	

4. PERSONNEL CAPABILITIES			
S #	Description	Marks Assigned	Criteria for Marks Obtained
1	B.Sc. Electrical Engineer registered with Pakistan Engineering Council (PEC). One Engineer (Attach Copy of Valid membership of PEC)	2.5	<ul style="list-style-type: none"> • 2.5 Marks will be given if Attached Valid PEC Membership • 0 Marks will be given if membership is Expired/Not Provided
2	B.Sc. Electronics Engineer registered with Pakistan Engineering Council (PEC). One Engineer (Attach Copy of Valid membership of PEC)	2.5	<ul style="list-style-type: none"> • 2.5 Marks will be given if Attached Valid PEC Membership • 0 Marks will be given if membership is Expired/Not Provided

3	B.Sc. Mechanical Engineer registered with Pakistan Engineering Council (PEC). One Engineer (Attach Copy of Valid membership of PEC)	2.5	<ul style="list-style-type: none"> • 2.5 Marks will be given if Attached Valid PEC Membership • 0 Marks will be given if membership is Expired/Not Provided
4	B.Sc. Civil Engineers registered with Pakistan Engineering Council (PEC). One Engineer (Attach Copy of Valid membership of PEC)	2.5	<ul style="list-style-type: none"> • 2.5 Marks will be given if Attached Valid PEC Membership • 0 Marks will be given if membership is Expired/Not Provided
Total Marks Allocated		10	

5. Technical System Design			
S #	Description	Marks Assigned	Criteria for Marks Obtained
1	Solar Panels 3D Design	4	<ul style="list-style-type: none"> • Attached As Per Required Design • No Marks will be given if design is not as per the required standard
2	Single Line Diagram (SLD)	4	<ul style="list-style-type: none"> • Attached As Per Required Design • No Marks will be given if design is not as per the required standard
3	Annual Production Report	4	<ul style="list-style-type: none"> • Attached As Per Required Report • No Marks will be given if report is not as per the required standard
4	Shadow Analysis Report	4	<ul style="list-style-type: none"> • Attached As Per Required Report • No Marks will be given if report is not as per the required standard
5	Structure Analysis Report	4	<ul style="list-style-type: none"> • Attached As Per Required Report • No Marks will be given if report is not as per the required standard
Total Marks Allocated		20	

BILL OF QUANTITY

Procurement of On-Grid Solar System 330 KW above with complete installation & commissioning

S.#	Item Name	Specification	Unit	Qty	Rate	Amount Rs
1	Solar Modules	Solar Modules: Canadian, Longi, JA, Jinko or Equivalent (Mono PERC Technology) PV Panel, Tier 1 brand A- Grade 555 watts or above, 12 years product warranty and 25-year linear Power degradation warranty not more than 80%, with flash report and documents. Complete in all respect as per entire satisfaction of Engineer Incharge.	KW	330		
2	Solar Inverters	On-Grid Inverter: Sunways/Sungrow/Goodwe/Huawei or Equivalent with communication Wifi Dongle Data Logger for remote monitoring & all allied accessories, having 5 years replacement warranty. Complete in all respect as per entire satisfaction of Engineer Incharge.				
		i). New Admin Block + Library + English Department (120 KW)	No	01		
		ii). Old Admin.+ CSE&S + Auditorium (35 KW)	Nos	03		
		iii). Civil + MED + Cafeteria (30 KW)	Nos	02		
		iv). Electrical Department (20 KW)	No	01		
		v). Student Access Centre (25 KW)	No	01		
3	DC Cables	DC-Cables: Supply fixing and installation of Electric cables, Newage/GM/Pakistan cables or equivalent (6 sq.mm 600/1000V CU 1C) along-with all related accessories including conduit pipes (Adamjee, Jeddah, Civic or equivalent) lugs, Glands, Cable tray, Cable ties, Control Cabling works and communication Cables etc. Complete in all respect as per entire satisfaction of Engineer Incharge.	Mtr	4000		
4	AC Cables	AC-Cables: Supply fixing and installation of Electricalcables (Newage/GM/Pakistan cables or equivalent) along-with all related accessories including conduit pipes (Adamjee, Jeddah, Civic or equivalent) lugs, Glands, Cable tray, Cable ties, Control Cabling works and communication Cables etc. Complete in all respect as per entire satisfaction of Engineer Incharge.				
		i). For New Admin block + Library + English Department (4C 185 mm2)	Mtr	250		
		ii). For other departments (4C25mm2)	Mtr	1250		

5	Earthing / Grounding System	Earthing-System: Construction of rod type/plate type Earth Pits (Separate earth pits for AC, DC and Lightning Arrestor minimum 5 ohm), DC earth wire size 2.5 sq.mm I.C CU, PVC, wire length 30m to 100m flex conduit 0.75 inch. Complete in all respect as per entire satisfaction of Engineer Incharge.	Nos.	8		
6	Solar Mounting Structure	SOLAR-MOUNTING-STRUCTURE: Fabrication of frames G.I. (Hot Dip) Mounting structure (L2/L3), (P2/P3) for Flat and Slop Roof Tops for 330KW PV Panels as per site requirement, having 2"x2" GI pipe 14 gauge section for PV panels and Girder 4"x6" 1/5kg per Rft weight i/c base plate 8"x8" of 10 gauge with roval bolts 6 No's in each base plate. Complete in all respect as per entire satisfaction of Engineer Incharge. (Approx. 475 sft)	Job	1		
7	Lightning Arrestors	Lightning-Arrestors: Lightning Arrestors/Rod with allied accessories as per requirement of AEDB, 1m pure bare copper 12 sq. mm building (height 10m or as per site). Complete in all respect as per entire satisfaction of Engineer Incharge.	Job	8		
8	Electrical Accessories	Electrical-Accessories: Supply & Installation of DC & AC boxes comprise of Circuit Breakers (MCBs, MCCBs) surge protection devices (SPDs, for DC and AC circuits), Bus Bars, fuses, Ampere Meters, Volt Meters for both AC & DC sides, complete with locking arrangements as per designed ratings. Complete in all respect as per entire satisfaction of Engineer Incharge.	Job	1		
9	Fire Fighting Equipment	Firefighting-Equipment: Appropriate Fire extinguishers 5kg Co2 and AFO Balls (Each) equipment near each inverter / Point of Injection of Solar Power as per requirement. Complete in all respect as per entire satisfaction of Engineer Incharge	Job	8		
10	Communication	Configuration of all system with internet for remote monitoring via standard applications provided by the manufacturer of inverters on mobile or computer, as per entire specification of Engineer Incharge	Job	1		
11	Operation & Maintenance	Operation & Maintenance: Operation & Maintenance of Complete system up to 3 years	Job	1		

24. Financial Proposal

(On Letter Head of Company)

Price Schedule	
Total Watts	330,000
Price Per Watt	
Total of 330,000 x Quoted per Watt	

NOTE:

- a. Rates quoted and amount should be inclusive of all Government taxes + installation/ commissioning charges etc.

**Signature of Contractor
With Stamp**

25. CERTIFICATE

I/We hereby confirm to have carefully read the description and all the terms and condition of your tender having given date for opening on October 07, 2024 regarding the

BIDDING DOCUMENT FOR PROCUREMENT OF 330KW ON-GRID SOLAR SYSTEM WITH COMPLETE INSTALLATION AND COMMISSIONING AT BUET KHUZDAR ON TURNKEY BASES.

In addition to the conditions laid down and all the special instructions attached with the said tender enquiry. We agree to abide by all those instructions/Conditions.

1. I/We also hereby confirm that the PROCUREMENT OF 330KW ON-GRID SOLAR SYSTEM WITH COMPLETE INSTALLATION AND COMMISSIONING AT BUET KHUZDAR by me/us would be exactly to the particulars and specifications as laid down in the TOR in all respects.
2. I/We hereby confirm to adhere to the delivery period required in the tender enquiry, which would be the essences of the contract that will be strictly adhered to by me/us. In case of failure, I/we agree unconditionally to accept the recovery of liquidated damages on belated job at 0.1% (of the value of items delivered late) per day, up to a maximum of 10% of the Contract Value on part thereof.

Name of Bidder: _____

Signature of Bidder: _____

Designation: _____

Seal: _____

WITNESS

Name: _____

Signature: _____

CNIC #: _____

Full address: _____

Date: _____

26. UNDERTAKING / CERTIFICATE.

If provided solar system was found refurbished, substandard, used, outdated or of poor quality, the supply / work order of the firm will be immediately terminated without assigning any reason and will not make any refund / payment. Further, the performance / bid security given by the firm will also be confiscated and the firm will be declared blacklisted.

M/s _____

Authorized Person: _____

Address: _____

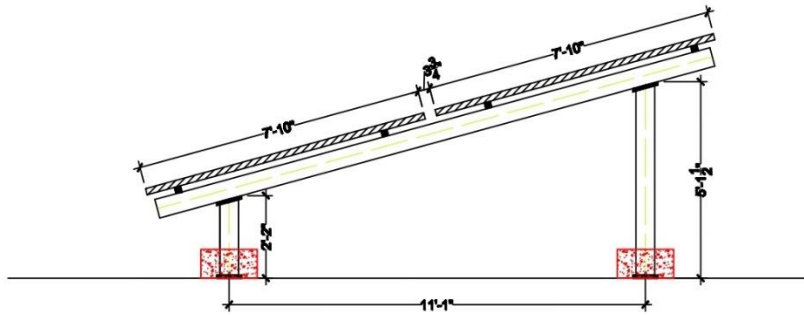
Tel #: _____ Mobile # _____ Fax #: _____

Email: _____ Signature: _____

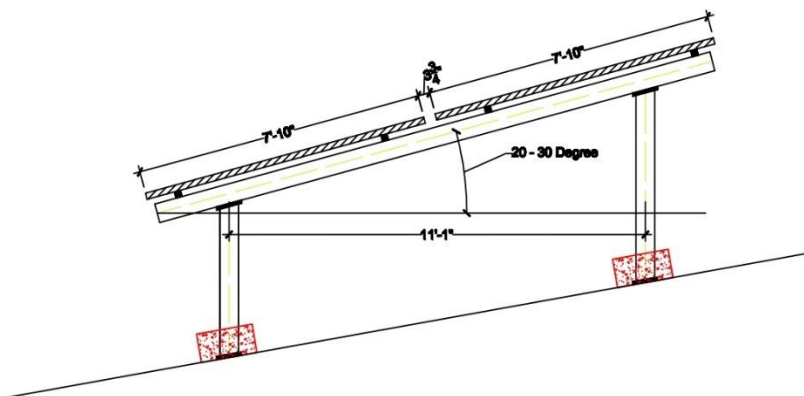
Dated: _____

Agency Seal: _____

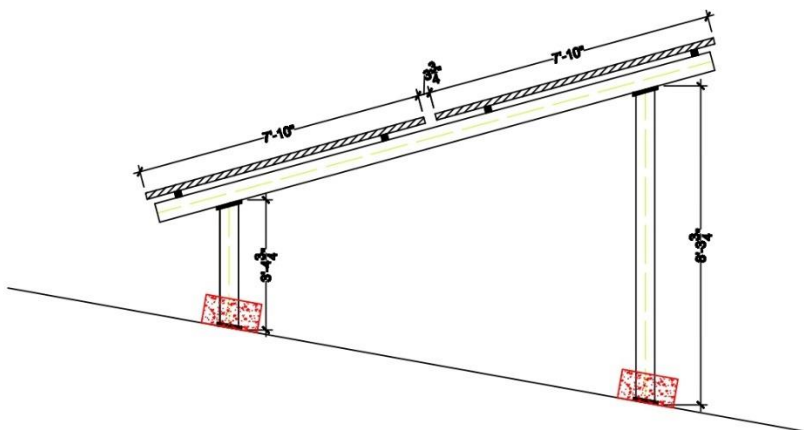
ATTESTED BY NOTARY PUBLIC



SECTION OF 2R 9C PV FRAME FOR PLAIN ROOF

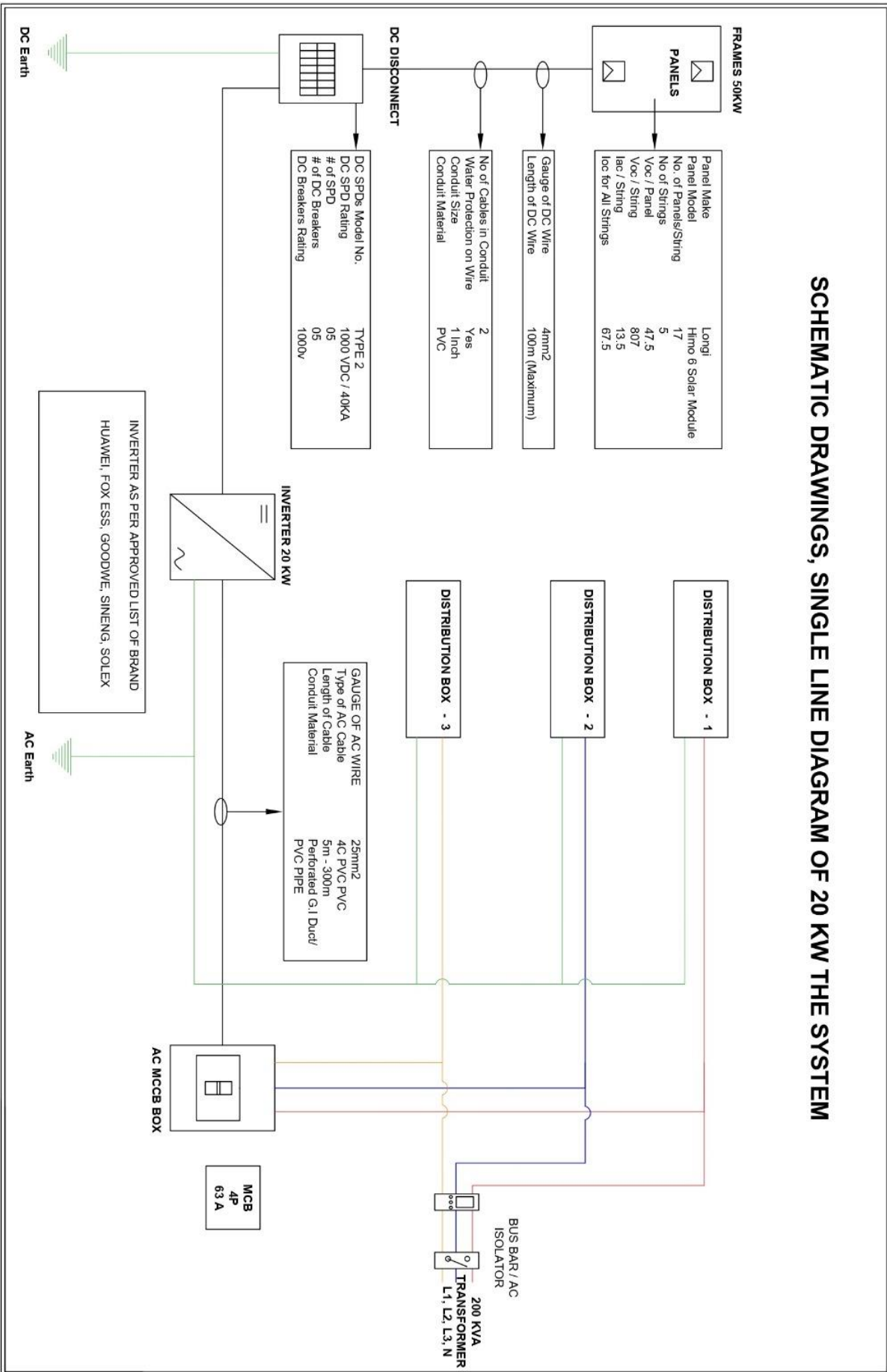


SECTION OF 2R 9C PV FRAME FOR SLANTING TO SOUTH SIDE ROOF

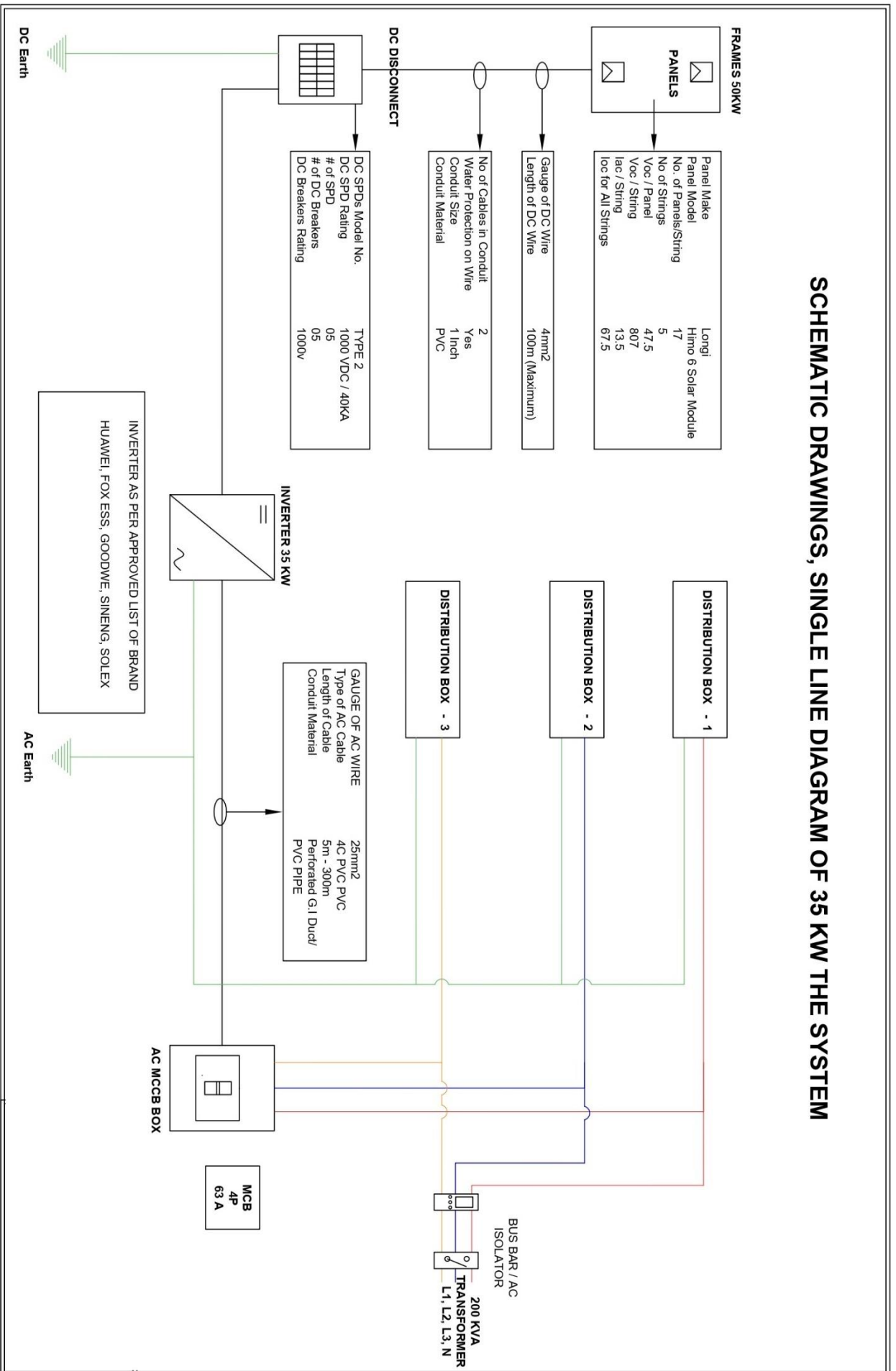


SECTION OF 2R 9C PV FRAME FOR SLANTING ROOF TOWARD NORTH ROOF

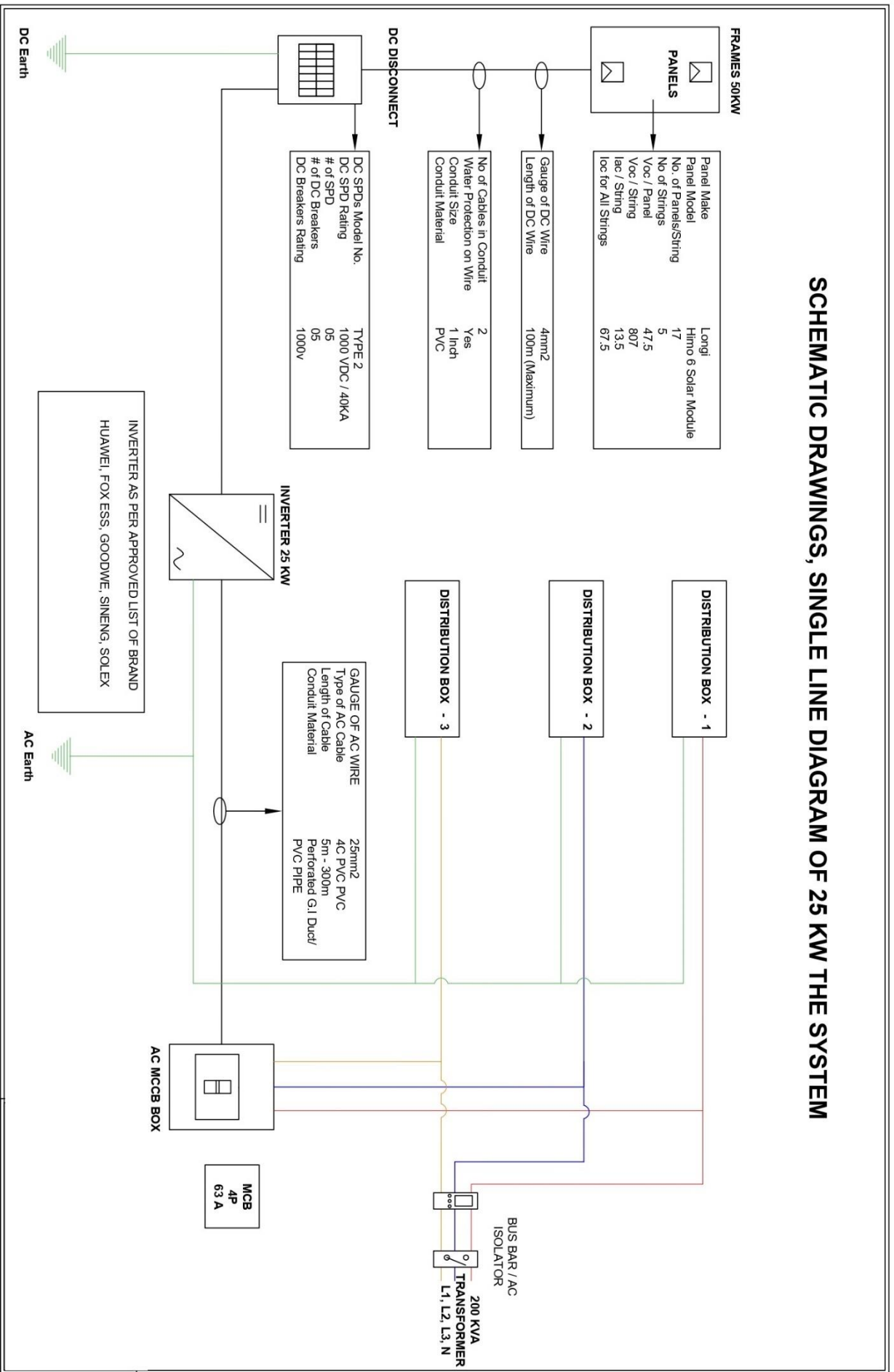
SCHEMATIC DRAWINGS, SINGLE LINE DIAGRAM OF 20 KW THE SYSTEM



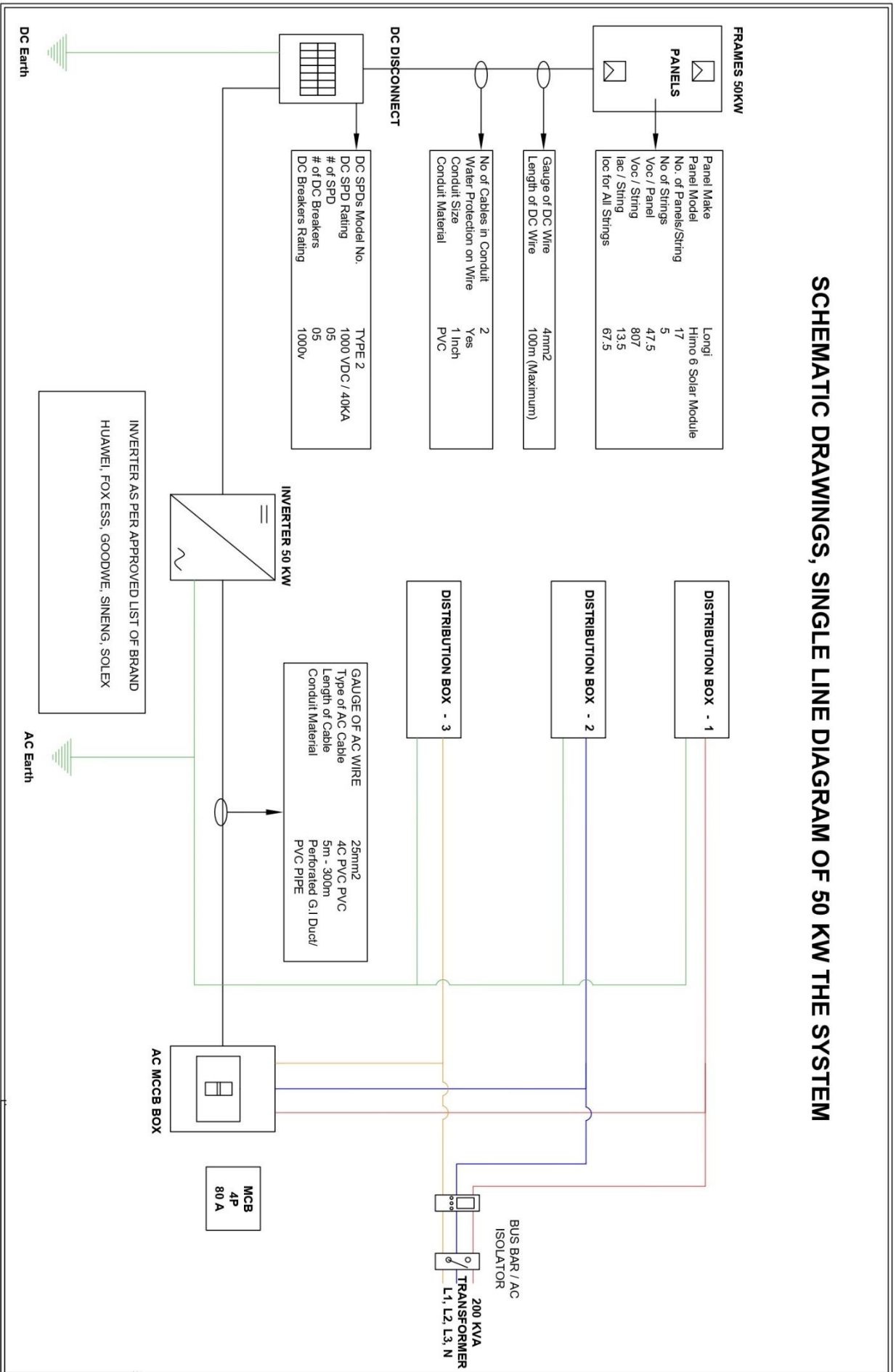
SCHEMATIC DRAWINGS, SINGLE LINE DIAGRAM OF 35 KW THE SYSTEM



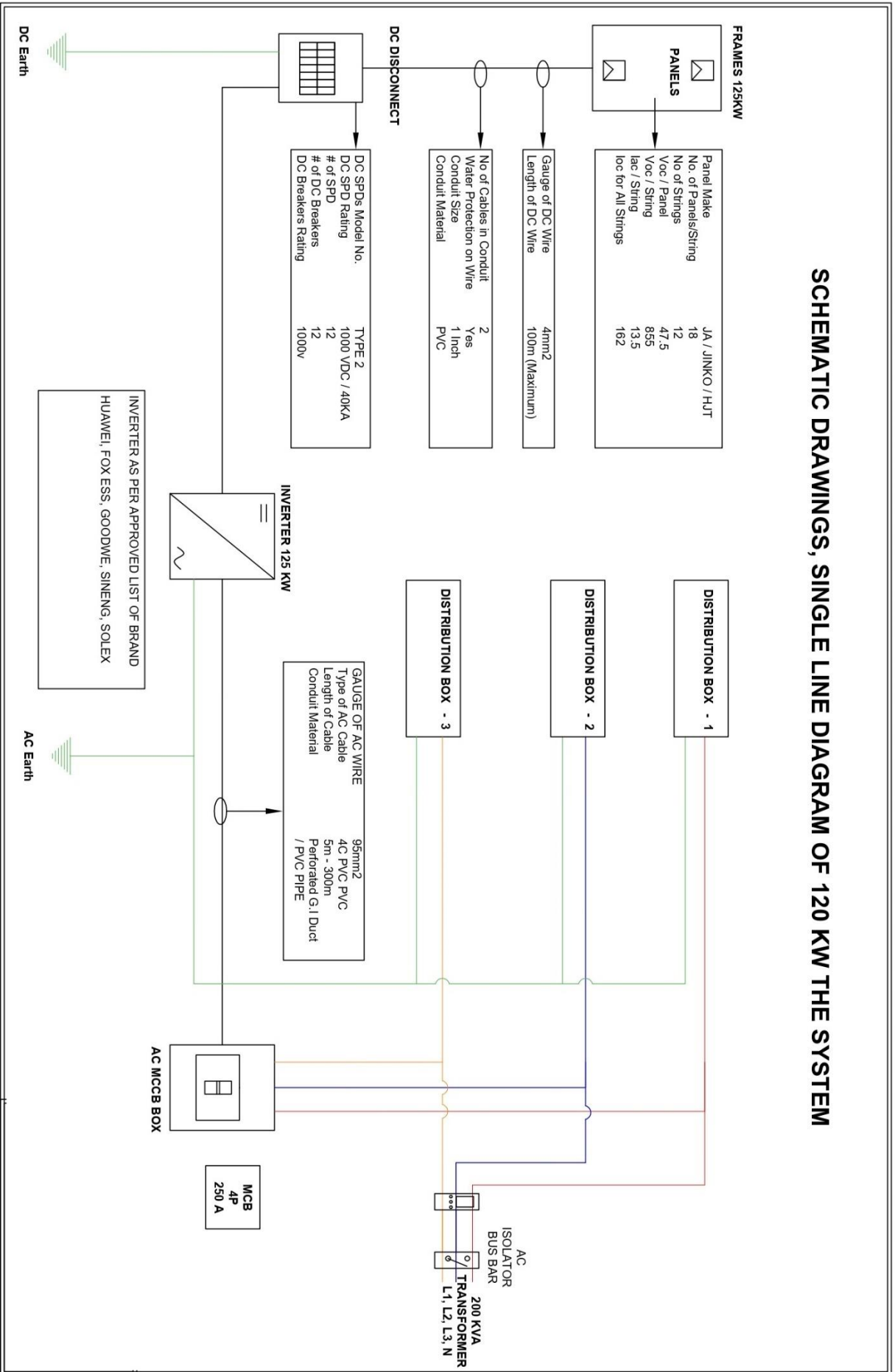
SCHEMATIC DRAWINGS, SINGLE LINE DIAGRAM OF 25 KW THE SYSTEM



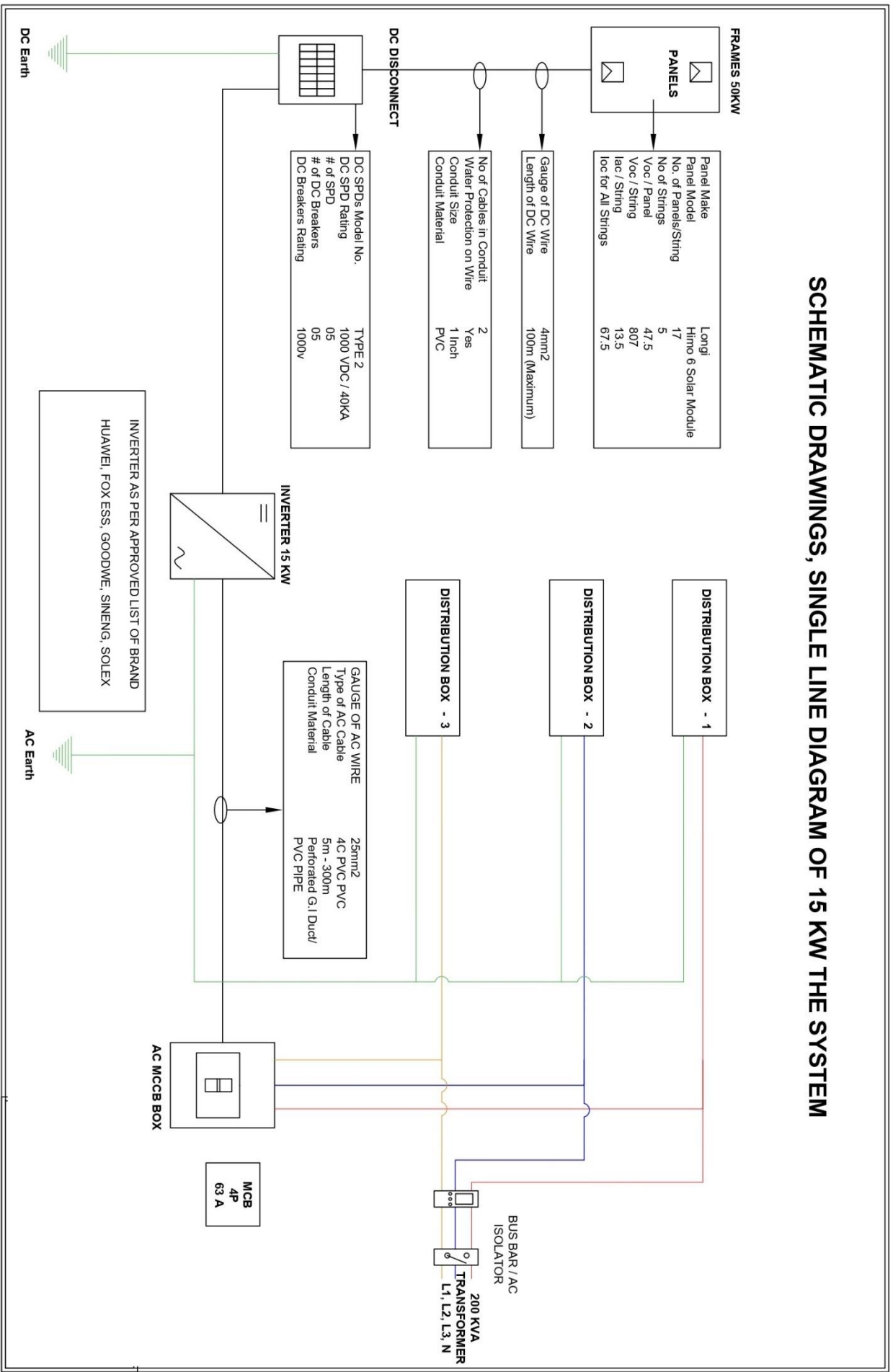
SCHEMATIC DRAWINGS, SINGLE LINE DIAGRAM OF 50 KW THE SYSTEM

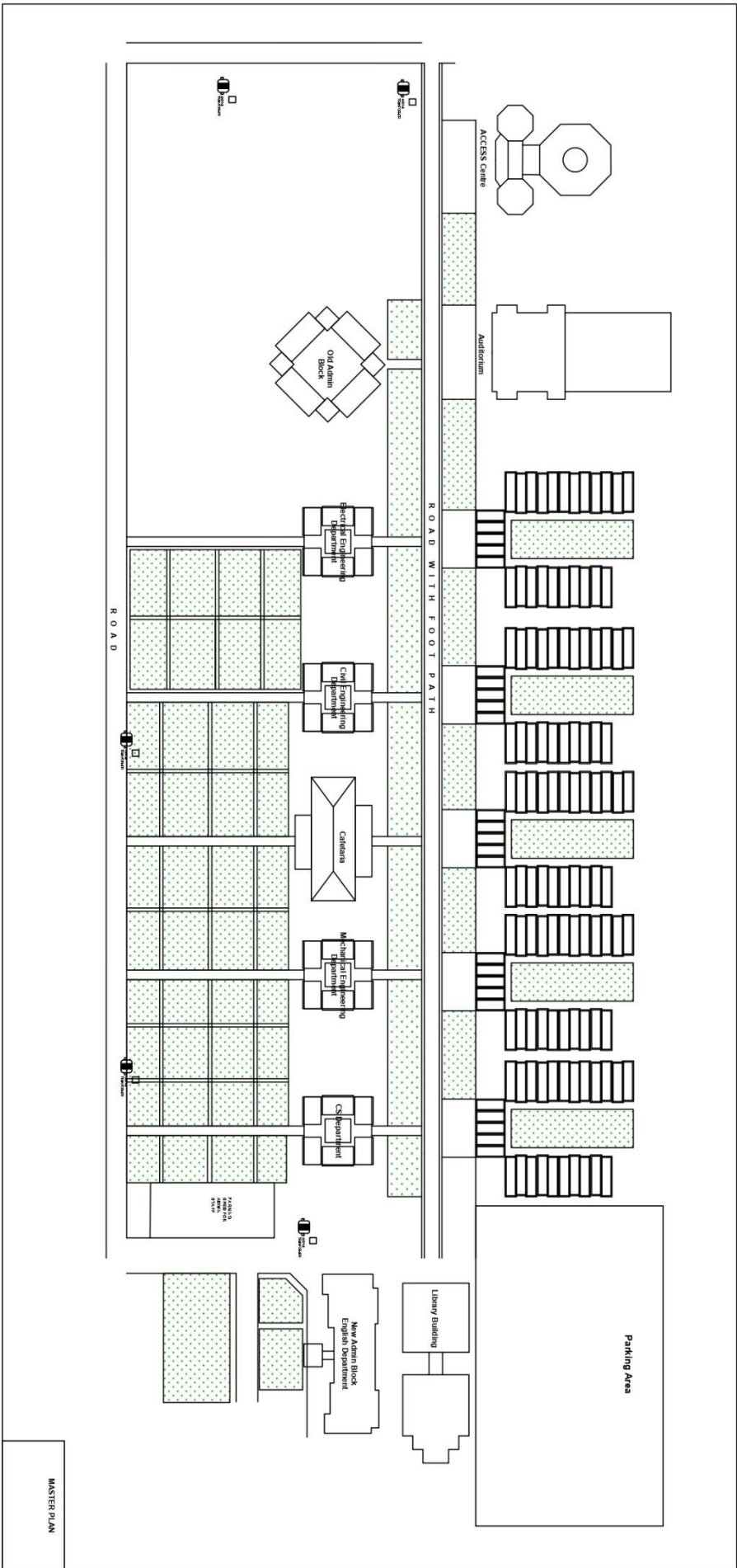


SCHEMATIC DRAWINGS, SINGLE LINE DIAGRAM OF 120 KW THE SYSTEM



SCHEMATIC DRAWINGS, SINGLE LINE DIAGRAM OF 15 KW THE SYSTEM





MASTER PLAN

SCHEMATIC DRAWINGS, SINGLE LINE DIAGRAM FOR GROUNDING & LIGHTENING ARRESTOR

