

Non Judicial



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Date : 26/11/2024

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(Rs. Only)

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Penalty : ₹ 0

(Rs. Zero Only)

Seller / First Party Detail

Name: Omc Power Pvt Ltd

H.No/Floor : B603

Sector/Ward : 50

LandMark : Unitech business zone

City/Village : Gurgaon

District : Gurgaon

State : Haryana

Phone: 98*****44



Buyer / Second Party Detail

Name : Jakson Limited

H.No/Floor : 626

Sector/Ward : 0

LandMark : Dlf towers jasola

City/Village: New delhi

District : Delhi

State : Delhi

Phone : 98*****44

Purpose : Turnkey Services Agreement

The authenticity of this document can be verified by scanning this QrCode Through smart phone or on the website <https://egrashry.nic.in>

FRAME AGREEMENT

This frame agreement for turnkey services (the "Agreement") has been entered into at Gurgaon on 4th December, 2024 ("Effective Date");

BY AND BETWEEN:

- I. OMC Power Private Limited, a company incorporated under the Companies Act, 1956 in India and having its registered office at 603, Tower B, Unitech Business Zone, Nirvana Country, South City 2, Sector 50, Gurgaon 122018 (hereinafter referred to as "OMC", which expression shall, unless repugnant to the context or meaning thereof, mean and include its successors and permitted assigns), through its duly authorized representative Mr. Yukihiro Tsujiura (CFO); and
- II. Jakson Limited, a company incorporated under the Companies Act, 1956 and having its registered office at 626, 6th Floor, DLF Towers, Jasola, New Delhi – 110025 and Corporate Office at A-43, Hosiery Complex, Phase-II, (Extn.) Noida UP 201305 (the "Supplier", which expression shall, unless repugnant to the context or meaning thereof mean and include its



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successors and permitted assigns), through its duly authorized representative Mr. Pankaj Kumar Singh, Dy. General Manager – Key Accounts – Marketing & Sales (DEB).

OMC and the Supplier shall each be referred to as a “Party”, and jointly as the “Parties” to the Agreement.

WHEREAS:

1. OMC is involved in the business of setting up solar energy based off-grid micro-power plants (up to 500 KW capacity) for generation and sale of power, each, to rural communities, telecom towers in rural India, where electricity from the grid is constrained, customer premises equipment, solar C&I, rooftop RESCO, services and other businesses;
2. OMC, amongst its other goals, seeks to install, commission, operate and maintain quality rooftop solar infrastructure for its customers to cater to their energy needs and seeks to engage competent and experienced suppliers to supply to it products, services and a packaged solution which would enable it to achieve its goals.
3. The Supplier has represented to OMC that it is engaged in the business of energy and infrastructure having expertise in Distributed Energy, Solar EPC and Electrical EPC Solutions and possesses the requisite expertise, knowledge, technical know-how, experience, resources, infrastructure and intellectual property for the design, manufacture, development, procurement, installation, configuration, integration, commissioning, operations, management, maintenance and administration of various Products for the performance of Services as per UPNEDA RfS No:- UPNEDA/NIT/RESCO-500MW-GCRT-Govt.Building/2023 (defined below) under this Agreement.
4. Based on the aforesaid representation, OMC has engaged the Supplier for the Services on turnkey basis and the Supplier has agreed to provide the Services on turnkey basis, on the terms and conditions provided under this Agreement.

NOW THEREFORE IN PURSUANCE OF THE AFORESAID AND THE MUTUAL UNDERSTANDING AND COVENANTS OF THE PARTIES AND OTHER GOOD AND VALUABLE CONSIDERATION, THE RECEIPT AND SUFFICIENCY OF WHICH IS HEREBY ACKNOWLEDGED, THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. TERMS OF SERVICE

- (a) The Supplier shall provide the Services as detailed in Schedule A hereto to OMC on turnkey basis under various Purchase Orders and Delivery Schedules placed by OMC from time to time and accepted by the Supplier. The Parties agree that unless Purchase Orders are placed by OMC hereunder and accepted by the Supplier, neither Party shall have any binding obligation towards the other.
- (b) The Purchase Orders issued by the Company hereunder shall be governed by the terms of the Purchase Order and this Agreement, which shall be read in conjunction with each other.
- (c) OMC may, at its sole discretion, terminate the relevant Purchase Order(s) or foreclose or re-issue or amend Purchase Orders, on the following grounds:



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- (i) Delay in Supply or Services;
- (ii) Non-conformity to OMC specifications, defect or quality-related issues;
- (iii) Any force-majeure event;
- (iv) Any other aspect of the Services under this Agreement or any work under any Purchase Order. Any termination, foreclosure or re-issuance or amendment of the Purchase Orders shall be subject to mutual written agreement of the Parties. In the event the Parties are unable to come to an agreement on such termination, foreclosure or re-issuance or amendment within a period of 15 days, OMC shall have the right to terminate the PO.

Any terms and conditions not specified in the amended purchase orders shall be inferred from this Agreement.

- (d) The list of Products and associated Services to be supplied by the Supplier to OMC, as well as their corresponding prices, is provided in **Schedule A** to this Agreement.

2. PAYMENT AND PAYMENT TERMS

- (a) OMC shall pay to the Supplier in consideration of the Services under this Agreement and relevant Purchase Orders such Charges as detailed in **Schedule B**.
- (b) OMC at its sole discretion shall have the right but not the obligation to make advance payments to the Supplier unless otherwise specified in the Purchase Orders. The Supplier undertakes that any amount due from OMC under any Invoices as per this Agreement shall be set-off against any advance or on-account payment made by OMC.
- (c) The Supplier agrees that OMC shall have the right to withhold the remittance of any disputed amounts or part thereof till final resolution of such dispute. The Supplier also agrees that failure to withhold any disputed amount(s) or parts thereof shall not constitute a waiver on part of OMC.

3. SUPPLIER PERSONNEL

- (a) The Supplier agrees that any and all personnel who may be deployed by the Supplier at the sites of OMC to discharge the Supplier's obligations under this Agreement or otherwise shall remain employees / consultants / staff / manpower of the Supplier at all times and shall at no point and for no reason be deemed to be OMC's employees/ consultants / staff / manpower.
- (b) The Supplier shall be solely responsible for all statutory payments and all statutory benefits to be made or extended to any and all personnel who may be deployed by the Supplier at the plant sites of OMC in discharge of its obligations under this Agreement or otherwise, including but not limited to minimum wages, provident fund and ESI.
- (c) In case any request is raised by any statutory, judicial, quasi-judicial, regulatory or other authority on OMC, the Supplier agrees to furnish copies of all documents evidencing payments of statutory benefits and payments to all its personnel in order to respond to such request.
- (d) The Supplier shall hold and keep OMC, its directors, employees, harmless and indemnified in full against any claim, liabilities, compensation, damages, litigation including attorney's fees which may arise in whole or in part out of non-payment, disputed payment or wrongful



withholding of any such statutory payment or benefit on part of the Supplier, as per the applicable laws.

- (e) The Supplier agrees that it shall solely be liable for any and all payments, liabilities, actions, claims, litigation, proceedings which may arise out of or in connection with any accident, injury or death of any of the Supplier's personnel and shall hold and keep OMC its Affiliates, directors, employees, representatives fully indemnified in this regard.
- (f) The Supplier undertakes that in the event OMC directs the Supplier to remove and replace any of the Supplier's personnel due to their misconduct or non-adherence, it shall replace such personnel without any delay.
- (g) The Supplier undertakes to ensure that none of its personnel are members or leaders of any trade union.
- (h) The Supplier shall furnish all such details and documents pertaining to personal details, police verification, residential details of its personnel if deployed at the site of OMC as may be required by OMC.

4. BREACH

Any of the following acts or omissions on part of the Supplier or its employees or subcontractors shall amount to a material breach of this Agreement:

- (a) any material violation of any provisions of this Agreement;
- (b) any violation of any provision of any Purchase Order or Delivery Schedule;
- (c) non-conformity of the Product to any specification prescribes by OMC;
- (d) non-delivery within specified timelines or late delivery;
- (e) any other act, commission or omission on part of the Supplier which OMC may consider as amounting to Breach under this Clause 4.

Except when caused by a Force Majeure Event or any default, delay, violation solely and directly attributable to OMC.

5. REMEDIES FOR BREACH AND LIQUIDATED DAMAGES

- (a) In the event of any delay or non-conformity to Delivery Schedules by the Supplier due to any reason solely attributable to Supplier (if not caused by a Force Majeure Event or any default, delay, violation solely and directly attributable to OMC), OMC shall be entitled to deduct liquidated damages ("LD") under this Clause 5 from the Charges which may payable to the Supplier. Liquidated Damages shall be deducted by OMC in the following manner:

- (i) LD shall be deducted on a weekly basis at the following rates:

- Week 1: 0.5% of value of relevant Purchase Order
- Week 2: 1% of value of relevant Purchase Order
- Week 3: 2% of value of relevant Purchase Order
- Week 4: 2.5% of value of relevant Purchase Order



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- (ii) LD payable to OMC hereunder shall, at OMC's option, be deductible or payable by way of (i) offset against outstanding payment obligations of OMC to Supplier or (ii) a cash refund.
- (b) Delay beyond 4 weeks shall qualify as material breach of this Agreement and LD shall not be an adequate remedy.
In such case, without prejudice to any other remedies which OMC may be entitled to in law or in equity, it may elect any and / or all of the following remedies in the event of Breach by the Supplier:
 - (i) OMC shall give a notice of breach to the Supplier who shall rectify such breach within 15 days. In the event such breach is not rectified within 15 days, OMC may terminate the Agreement and Purchase Orders or elect such other remedies as may be available to it under this Agreement, in law or in equity.
 - (ii) It may apply penalties and liquidated damages at such rates and subject to such terms as may be specified in the accepted Purchase Orders;
- (c) In the event of a breach of this Agreement or relevant Purchase Orders, the Supplier accepts that any payments due under the relevant Purchase Order shall be withheld and shall not be remitted unless such breach is either cured by the Supplier or waived by OMC at its sole discretion.

6. TERM & TERMINATION

- (i) This Agreement shall be valid for a period of 3 years from the Effective Date and shall be renewed upon mutual agreement of the Parties in writing, unless terminated in accordance with this Agreement.
- (a) The occurrence at any time on part of the Supplier, of any of the following events constitutes an event of default ("Event of Default"):
 - (i) any representation or warranty made by the Supplier (whether express or implied) that proves to have been incorrect or misleading;
 - (ii) if the Supplier makes any arrangement or composition with its creditors or if a winding up order is passed against it or its going into liquidation, voluntary or otherwise or upon a receiver being appointed of any or their properties
 - (iii) the commencement of bankruptcy proceedings which, in the case of involuntary proceedings, is not dismissed within thirty (30) days from the commencement of proceedings;
 - (iv) majority change in control or shareholding;
 - (v) any unlawful or criminal activity by the Supplier / its personnel / sub-contractors at OMC's plant sites or against any OMC representative; and
 - (vi) any criminal action or investigation against the Supplier or their promoters, directors, which in the opinion of OMC is detrimental to its interests.
- (b) If the Supplier has any reason to believe that any Event of Default may occur, it must give written notice to OMC within 7 days and within 15 days from the date of such notice, inform OMC of the reasons for the occurrence of the Event of Default and rectify the default, or propose a plan of action to remedy the default, provided that OMC agrees on such plan.



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- (c) If an Event of Default occurs, OMC shall have the right but not the obligation to serve a notice to the Supplier specifying the Event of Default ("Default Notice") and requiring the Supplier to remedy the Event of Default. If the Supplier fails to remedy the Event of Default in thirty (30) business days of service of the Default Notice, OMC will be entitled to terminate the Agreement immediately.
- (d) In the event OMC is of the opinion that the Event of Default is of grave and serious nature and would materially impact OMC in any manner, it may, in addition to all remedies available to it in law and in equity, elect to forthwith terminate this Agreement and all pending Purchase Orders without any notice to the Supplier. In the event of such forthwith termination, the Supplier shall be entitled to no amount other than any amounts which may be payable by OMC for supply of Products by the Supplier prior to the date of such forthwith termination.
- (e) Upon termination of this Agreement under this Clause 6, the Supplier shall remove all materials and equipment over which OMC has no title from OMC's plant sites in such manner and within such time as may be prescribed by OMC.
- (f) Within ten (10) days of termination, all Confidential Information including other property belonging to OMC, shall be immediately returned by the Supplier to OMC, at the Supplier's cost, according to OMC's directions. The Supplier shall not make or retain any copies of any of the above-mentioned information that may have been entrusted to it.
- (g) With effect from the date of termination, each Party's rights and obligations under the Agreement shall be released and discharged in full except: (i) as otherwise provided in this section; (ii) in relation to any payments owing and due to each Party on the date of termination; and (iii) for those rights and obligations expressed to survive termination. For the avoidance of doubt, it is clarified that if at the date of termination any amount is outstanding and owed between the Parties but unpaid, that amount shall be paid by the relevant Party subject to resolution of any disputed (if any) amounts as per procedure laid down in this Agreement and subject to fulfillment of any and all conditions precedent / Payment Milestones set by OMC by way of this Agreement or Purchase Orders, and such obligation for payment shall not be terminated.
- (h) Termination of the Agreement shall not however affect any rights or liabilities that have been crystallized prior to issuing the notice for termination. Sections 13, 22, 23, 28 shall survive the termination of the Agreement.
- (i) The Supplier may terminate this Agreement in the event of non-payment of any amount lawfully due by OMC to the Supplier for a continuous period of 1 month from the date on which it becomes due by giving 30 days' prior written notice to OMC. Invoices shall be raised only subject to fulfillment of any and all conditions precedent / Payment Milestones set by OMC by way of this Agreement or Purchase Orders. The provisions of this clause shall not apply to any disputed amounts / Invoices.

7. NEW SUPPLIER TECHNOLOGIES

The Supplier shall keep OMC appraised on any new roadmap of 3 years or other technologies / solutions it may come up with at any time after the execution of this Agreement and shall involve OMC in the testing / trial of such new technology. In the event



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that OMC is interested in adopting any such new method / technology, it shall convey such intention to the Supplier in writing and the Supplier shall, from the date of such written notice by OMC or as soon as practicable, adopt such method or technology in complying with its Delivery / Supply obligations under this Agreement, at mutually agreed cost.

8. CONFIDENTIAL INFORMATION

- (a) "Confidential Information" shall mean all information or material, including business, financial and proprietary information of the disclosing Party or any entities owned or controlled by the disclosing Parties, or any of their affiliates, whether existing or hereafter acquired or developed, entrusted to the disclosing Party by third parties. Confidential Information includes without limitation, intellectual property, financial statements, business plans, working methods, investments, materials, processes, patents, trademarks, copyright, other data rights, computer programs, algorithms, computer codes, investment models, financial information, designs, drawings, names of and relationships with current vendors and lenders and other third parties, contractual arrangements, profit formulas, experimental investigations, studies, current customer names and requirements, current professional associations or contacts, other non-public or otherwise confidential, sensitive or proprietary information and the names of potential customers or vendors with whom the disclosing Party or any of their affiliates has negotiated with, or has a written agreement to negotiate with, during or before the term of the Agreement including, but not limited to the names of those potential customers or vendors.
- (b) Each Party acknowledges that by reason of its relationship with the other Party under the Agreement, it will have access to Confidential Information of such other Party, the value of which would be impaired if such information were disclosed to any third party. Each Party shall take every reasonable precaution to protect the confidentiality of such information.
- (c) Each Party agrees to treat the existence and the terms of this Agreement and all other information provided under or in connection with this Agreement are as confidential, and agrees not to disclose this information to any other person except:
- (i) to the extent required by law;
 - (ii) to the extent required for performing its obligations; and
 - (iii) in every other case, where the disclosure has been approved in writing by the disclosing Party.
- (d) Notwithstanding the exceptions in Section 4(c), no Party will disclose any of the financial details of this Agreement without the prior written consent of the other Party except when disclosure is to:
- (ii) directors or employees of the receiving Party or any person professionally engaged by the receiving Party, as long as they in turn are bound by similar confidentiality requirements;
 - (iii) the extent legally required by any government, agency or regulatory authority having jurisdiction over the receiving Party;
 - (iv) the extent required by any applicable laws, judicial process or the rules and regulations of any regulated market or recognized stock exchange and with the prior written consent of the disclosing Party;
 - (v) the extent that the Confidential Information is in or lawfully comes into the public domain other than by breach of this Section.



- (e) In the event of termination of this Agreement, there shall be no use or disclosure by the receiving Party of any Confidential Information and each Party agrees that it shall not utilize the other Party's Confidential Information while dealing with any activity.

9. INTELLECTUAL PROPERTY

- (a) All Intellectual Property and information of furnished or made available by OMC to the Supplier shall be and remain the exclusive property of OMC. All such Intellectual Property and information shall be used by the Supplier only in connection with the Supply of Products and Services under this Agreement and for no other purposes. All copies of such Intellectual Property and information along with any associated or derived material, notes and / or summaries (whether hand-written or mechanically produced) shall be delivered back to OMC promptly upon request or termination of this Agreement or any Purchase Orders.
- (b) Nothing in this Agreement shall amount to assignment, license, sale or transfer or conveyance in any way of any Intellectual Property to the Supplier or any of its Affiliates or sub-contractors.
- (c) Unless otherwise agreed between the Parties hereto, all tools, equipment, dies, jigs, specification and other material furnished or paid for by OMC shall be and remain the sole property of OMC. Such property shall be stored separate and apart from the Supplier's own property and except only reasonable wear and use, such property in the possession of the Supplier shall be kept at the risk of the Supplier and the Supplier shall be responsible for the maintenance thereof. At OMC's request, the Supplier shall insure such property at its own cost and expense. The Supplier shall use such property only for the purpose instructed by OMC and shall return such property to OMC upon request or on termination of this Agreement or any Purchase Orders,
- (d) If the Supplier makes any invention, devises or designs and develops any product method or process or know-how that competes with or is complementary to the information (specifications, drawings, test data or other information) furnished by OMC, it shall forthwith intimate OMC and grant to OMC the right to used such property, without any cost or implication on OMC. Any Product cost reduction as a result of the above shall pass on to OMC.

10. REPRESENTATIONS AND WARRANTIES

The Supplier represents and warrants to OMC that:

- (a) it has the requisite knowledge, expertise, know-how to carry out its obligations under this Agreement;
- (b) the Products shall be manufactured, packaged and supplied strictly in accordance with the ~~standards and specifications prescribed by OMC;~~
- (c) the execution, delivery and performance of this Agreement are within its powers, have been duly authorised by all necessary action and do not violate or conflict with or require any consent or waiver under any of the terms or conditions in its governing documents or any material contract to which it is a party or by which any of its assets are bound or affected, or



any law, rule, regulation, order, statement of claim, judgment, decree or other legal or regulatory determination applicable to it;

- (d) it validly exists under the laws of India and has all necessary approvals, permits, licenses, registrations which enable it to carry out its business operations in general and its obligations under this Agreement in particular;
- (e) this Agreement constitutes a valid and binding legal obligation, enforceable against it according to its terms, subject only to limitations arising from bankruptcy law, creditors' rights or the principles of equity;
- (f) it is not insolvent or unable to pay its debts, nor does it have any bankruptcy proceedings pending or intends to propose any arrangement of any kind with its creditors under which such creditors shall receive less than the amounts due to them, nor has any petition, application or other proceedings been presented for a winding-up, administrative order, creditors' voluntary arrangement or similar relief and nor has any receiver, administrator, liquidator, supervisor or similar official been appointed in respect of it;
- (g) there are no claims, actions, proceedings or investigations pending to the knowledge of the Supplier, threatened against or relating to it before any competent authority or any judgment or order of a competent authority that may materially adversely affect its ability to perform this Agreement;
- (h) it has sufficient resources for performing all its duties and obligations under this Agreement;
- (i) neither it nor any person employed by it or representing it, shall offer, promise to give, give or authorize the paying or giving of anything of value, directly or indirectly, to any government official, political party or official thereof or a political candidate, domestic or foreign ("Government Official") for the purpose of influencing the Government Official's acts or decisions or inducing the Government Official to use his influence with others who affect the acts or decisions of a government, government instrumentality or political party, if this is done in order to obtain or retain business or direct business to OMC;
- (j) neither it nor any person employed by it or representing it, shall offer, promise to give, give or authorize the paying or giving of anything of value, directly or indirectly, to any OMC representative on any account; and
- (k) none of its officers, directors, partners, owners, principals, employees, or agents is an official or employee of a governmental agency or instrumentality in a position to influence action or decision regarding the activities of the Supplier contemplated by this Agreement. The Supplier covenants that it will inform OMC by written notice, if, and as soon as, any such person assumes such a position as official or employee of a governmental agency or instrumentality while at the same time remaining an officer, director, partner, owner, principal, employee or agent of the Supplier, at which time OMC has the right to terminate this Agreement without further liability to the Supplier. In the event of termination, OMC shall not have any further obligation to perform under this Agreement and will not incur any liability for injury, damage, or delay caused to the Supplier by such termination. Further, the Supplier represents that it has not made any payments, whether termed as finders fee or commission or otherwise to any employee or consultant of OMC directly or indirectly for any reason whatsoever.



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- (l) The Supplier has clear and lawful title, free from all encumbrances, over all Products Supplied by the Supplier to OMC under this Agreement or relevant Purchase Orders.
- (m) In the event the Supplier proposes to discontinue the manufacture / supply of the Products or any related services at any time in the future, it shall give prior notice to OMC thereof.
- (n) It shall be solely responsible and liable for any and all customs related payments and compliances, if any.
- (o) Upon delivery of the Products, it shall return to OMC all such forms and challans which have been issued to it by OMC in pursuance of the Services hereunder. All forms and challans submitted should reflect the relevant Purchase Order numbers and such other details as may be required by OMC. The list of forms and challans to be returned by the Supplier have been mentioned in **Schedule C** hereto.
- (p) The person signing this Agreement and the relevant Purchase Orders shall be duly authorized to do so and the Supplier shall indemnify OMC against any fraudulent execution of any documents on the Supplier's part by unauthorized persons.

OMC represents and warrants to the Supplier that:

- (a) it validly exists under the laws of India and has all necessary approvals, permits, licenses, registrations which enable it to carry out its business operations in general and its obligations under this Agreement in particular.

11. PERFORMANCE WARRANTY

The Supplier undertakes and warrants that all Products Supplied by the Supplier to OMC shall conform to the specifications prescribed by OMC and shall conform to all details, specifications which OMC may have specified with respect to the plant sites.

12. TAXES

The Supplier shall be solely and exclusively liable for payment of all excise, GST, cesses, taxes, duties, charges, levies, personal income tax, tax on any equipment which may be leased by the Supplier and government dues including excise duty and value added tax, service tax and the like on or in connection with the manufacture, sale of the Products and other related services as envisaged in this Agreement (including but not limited to installation and after-sale service) by the Supplier to OMC under and in accordance with this Agreement and OMC shall in no event be liable or responsible for the all or any part of such amounts including any tax liabilities of any sub-contractor. OMC shall be liable for payment of all taxes which it is lawfully liable to pay.

13. LIMITATION OF LIABILITY

- (a) This Agreement sets forth the full extent of the Parties' obligations and liabilities arising out of or in connection with this Agreement, and there are no conditions, warranties, representations or terms, express or implied, that are binding on the Parties except as specifically stated in this Agreement. Any condition, warranty, representation or other term



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which might otherwise be implied into or incorporated in this Agreement, whether by statute, common law or otherwise, is hereby expressly excluded.

- (b) Other than for payment for the Products and associated Services, subject to deductions made by OMC for withholding taxes, OMC shall in no case have any liability to the Supplier for any special, indirect or consequential losses or damages, including but not limited to any damage to the Products during transportation / upon installation, any injury to any personnel as may be appointed by the Supplier to work at OMC's plant sites in discharge of its obligations under this Agreement, etc, unless caused by any gross negligence or willful default of OMC.
- (c) Notwithstanding anything in this Agreement, OMC shall at no time and in no event be liable to the Supplier on any account for a cumulative amount exceeding the aggregate amount of consideration actually received by Jakson from OMC under this Agreement.

14. INDEMNITY

- (a) Unless otherwise agreed to by Parties, all financial and other obligations associated with the Supplier's business is the sole responsibility of the Supplier, and the Supplier shall be responsible for, and shall fully indemnify and hold OMC, free and harmless from, any and all claims, damages, expenses, proceedings or lawsuits, including OMC's legal fees, awarded against OMC and/ or claimed from OMC, arising directly or indirectly from:
 - (i) any material breach by the Supplier (including its employees or agents) of this Agreement,
 - (ii) any claim by any employee or personnel of the Supplier for non-payment or wrongful withholding of any statutory payment to be made by the Supplier, such as minimum wages, provident fund, ESI etc.,
 - (iii) any liability, claim, damages, litigation including legal fees arising out of any rights or obligations sub-contracted by the Supplier to any third party;
 - (iv) any injury (mental injury, physical injury, libel, slander or death suffered) caused to any personnel or sub-contractors of the Supplier deployed at OMC's plant sites for the execution of this Agreement;
 - (v) any damage to the sites of OMC;
 - (vi) any damage to the Product(s) before passing of risk which may be attributable to the Supplier or its personnel;
 - (vii) any violation of Applicable Laws in part of the Supplier; and
 - (viii) any act, negligence or omission by the Supplier (including its employees or agents) relating to this Agreement
 - (ix) any infringement or wrongful usage of the Intellectual Property of OMC.
- (b) The Supplier agrees that its obligations set forth in this Agreement are necessary and reasonable in order to protect OMC and its business. The Supplier expressly agrees that ~~monetary damages would be inadequate to compensate OMC for any breach by the Supplier~~ of its covenants and agreements set forth in this Agreement. Accordingly, the Supplier agrees and acknowledges that any such violation or threatened violation shall cause irreparable loss to OMC and that, in addition to any other remedies that may be available, in law, in equity or otherwise, OMC shall be entitled (a) to obtain injunctive relief against the threatened breach of this Agreement or the continuation of any such breach by the Supplier, without the necessity of proving actual damages, and (b) to be indemnified by the Supplier



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from any loss or harm, including but not limited to lawyer's fees, arising out of or in connection with any breach or enforcement of the Supplier's obligations under this Agreement.

- (c) Neither Party shall be made liable for any indirect / consequential damages (including but not limited to loss of goodwill, loss of profits, harassment etc.) which may be suffered by the other Party for any reason.
- (d) Either Party's total cumulative liability in connection with this Agreement, whether in contract or tort or otherwise, shall not exceed the aggregate amount of consideration actually received by Jakson from OMC under this Agreement.

15. SUB CONTRACTING

- (a) The Supplier agrees that even in the event of sub-contracting under the Agreement, the Supplier will be jointly and severally liable for the activities of the sub-contractor and shall indemnify OMC against any claim, damages, liability, litigation including legal fees which may arise directly or indirectly in whole or in part from any aspect of such sub-contracting.
- (b) The Supplier shall ensure that there is a clause in every sub-contract to the effect that OMC is fully indemnified against any claims / liabilities / actions / litigation which may arise out of or in connection with such sub-contract.
- (c) The Supplier agrees that any warranties given by it to OMC with respect to the Products or services shall extend to any part of the work and obligations of the Supplier under this Agreement which are assigned to such third party sub-contractor.
- (d) All sub-contractors shall be bound by confidentiality obligations in the same manner as the Supplier hereunder.
- (e) The Supplier shall procure from all sub-contractors a written waiver of all their claims which may arise for any reason against OMC and shall deliver to OMC all such documents.

16. FORCE MAJEURE

- (a) In the event of the occurrence of acts of God, flood, fire, volcanic activity, earthquake, explosion, war, terrorism, riots, civil commotion, expropriation or confiscation of goods/ facilities, compliance with any order or request of any governmental, regulatory, judicial or administrative authority, accidents, labour strikes, government or any statutory authority order not to proceed with the activities under this Agreement at any relevant locations ("Force Majeure Event"), the Party affected by the Force Majeure Event ("Affected Party") must immediately notify the other Party ("Non-Affected Party") in writing of the details of the event, the affected obligations and its estimate of the likely period of the Force Majeure Event. The Affected Party shall also notify the Non-Affected Party when the Force Majeure Event ceases.
- (b) If a Party is prevented from performing any of its obligations under this Agreement as a result of the occurrence of a Force Majeure Event of which notice has been given under Section 10 (a) and that Party suffers delay by reason of such Force Majeure Event, the Affected Party shall be excused from performance of its obligations during the continuance of



the Force Majeure Event. The Affected Party shall resume its obligations as soon as practicable on end of the Force Majeure Event.

- (c) Each Party must at all times use all reasonable endeavours to minimise any delay in the performance of its obligations under this Agreement as a result of a Force Majeure Event. In the event that the Force Majeure Event continues for a period of thirty (30) days, OMC shall have the right to terminate the Agreement.

17. NON SOLICITATION

During the Term of this Agreement and for a period of three (3) years thereafter, Parties shall not directly or indirectly, employ or personally or through others, solicit, induce, or attempt to solicit or induce (on its own behalf or on behalf of any other person or entity) any personnel of the other Party.

18. ARBITRATION

- (a) Where a dispute arises under or in relation to this Agreement, the Parties shall make all reasonable efforts to resolve the dispute through good faith negotiations. If efforts to amicably resolve any disputes or claims between the Parties are unsuccessful, then such dispute or claim arising out of or in connection with this Agreement, including any question regarding its existence, validity or termination, shall be referred to and resolved by binding arbitration under the Arbitration and Conciliation Act, 1996. The arbitral proceeding and the award shall be final and binding on all Parties.
- (b) The Parties shall jointly appoint an Arbitrator within seven (7) days of either Party determining that good faith negotiations to resolve a dispute have failed. The venue of arbitration will be New Delhi, to which the Supplier shall have no objection and shall have deemed to have accepted such venue; and all proceedings will be conducted in English. Either Party shall be responsible for their legal expenses and costs, and shall equally share the expenses of the Arbitrator.
- (c) On failure of either of the Parties to adhere to the proceedings before the Arbitrator, the Arbitrator shall have the right to proceed ex-parte. All communications between the Arbitrator and a Party shall be forwarded to the other Party simultaneous to its communication to the Arbitrator.
- (d) The Parties agree that they shall maintain confidentiality of any and all issues that are subject matter of arbitration in public statements issued by such Party either prior to or during and after arbitration unless required by law.

19. GOVERNING LAWS AND JURISDICTION:

- (a) This Agreement shall be governed by and construed in accordance with the laws of India, ~~without giving effect to its conflict of law provisions.~~
- (b) The Parties agree that the courts at New Delhi, India shall have exclusive jurisdiction over all additional / residual / non-commercial / non-contractual matters (other than disputes which should be submitted to arbitration under Clause 18).

20. SEVERABILITY



If any provision or part of a provision of this Agreement is found by any judicial or administrative authority of competent jurisdiction to be void or unenforceable, that provision or part of a provision is deemed to be deleted from this Agreement from the date of such decision of the authority and the remaining provisions shall continue to be in full force and effect. Where the term declared to be void is not severable, the Parties shall amend the terms to modify the Agreement.

21. NOTICES

Any notice, communication, request or correspondence required under the terms of this Agreement shall be in writing, in the English language (it being understood that any such communication in a language other than English shall be of no force and effect), and shall be delivered via courier or the facsimile to the address provided in the signature pages to this Agreement. It shall be the duty of a Party to inform the other of any change to its address set out below, failing which, a notice served on the Party at the address below shall be considered to have been validly delivered.

22. ENTIRE AGREEMENT

- (a) This Agreement and its Exhibits sets forth the entire agreement and understanding between the Parties relating to its subject matter and merges all prior discussions between them. No amendment to this Agreement will be effective unless in writing signed by all Parties to this Agreement.
- (b) The provisions of this Agreement shall be deemed to be incorporated into any and all Purchase Order(s) issued by OMC to the Supplier and in the event there is a conflict between any term of the Purchase Order and any term of this Agreement, this Agreement shall prevail.

23. ASSIGNMENT AND AMENDMENT

- (a) OMC shall have the right to assign some or all of its right and obligations under this Agreement to any of its associated entities and shall pre inform the Supplier by giving 15 days prior notice. The Supplier shall not assign or transfer any of its rights or obligations to any person without the prior written consent of OMC, failing which such transfer or assignment by the Supplier, as the case may be, shall be deemed ineffective and void.
- (b) The Agreement may not be amended except by a written agreement executed by OMC.

24. RELATIONSHIP OF PARTIES

The parties understand and acknowledge that OMC and the Supplier have entered into this Agreement on a principal-to-principal basis and that nothing in this Agreement shall be construed to constitute any partnership, joint-venture or employment between the Parties. The Supplier has no right to legally or contractually bind OMC in any manner and shall not have any right to make any representation on behalf of OMC.

25. NON-RECOURSE.

The Parties understand and agree that none of the direct or indirect shareholders, equity holders, limited or general partners, owners, directors, employees or representatives of OMC,



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nor any OMC Affiliates shall guarantee or otherwise be in any way liable with respect to any obligations or liabilities of OMC pursuant to this Agreement or any Purchase Orders. The sole recourse of the Supplier for satisfaction of the obligations of OMC under the Agreement or any Purchase Orders shall be against OMC and OMC's assets. The sole recourse of the OMC for satisfaction of the obligations of Supplier under the Agreement or any Purchase Orders shall be against Supplier.

26. ADVICE OF COUNSEL

The Supplier acknowledges that, in executing this Agreement, the Supplier has had the opportunity to seek the advice of independent legal counsel, and has read and understood all of the terms and provisions of this Agreement. This Agreement shall not be construed against any party by reason of the drafting or preparation hereof.

27. QUALITY, HSSE, ETHICAL PRACTICES AND SAFETY STANDARDS

- a. The Supplier agrees and undertakes that it shall and shall ensure that its sub-contractors shall, at all times, abide by all applicable laws, rules, regulations, policies, and shall follow best-in-class, internationally acceptable standards relating to quality, HSSE, ethical practices and safety, including but not limited to:
- i. Electricity Act, 2003;
 - ii. National Electricity Policy, 2005;
 - iii. IEC/TS 61836:2007;
 - iv. MNRE Regulations;
 - v. The Supplier's HSSE Policy dated 1st April, 2023, as may be amended from time to time;
 - vi. The Company's HSSE Policy dated 30th October, 2023, Environmental Manual dated 30th October, 2023, HSSE and ESG procedures dated 22nd Jan, 2024, Action Plan (Environment Management Program) dated 7th May, 2024 and all related procedures, processes, formats, etc., as may be amended from time to time;
 - vii. ISO Standards 9001, 14001 and 45001;
 - viii. Central Electricity Authority (Measures Relating To Safety And Electric Supply) Regulations, 2023;
 - ix. IFC Standards;
 - x. All standards as promulgated by the Uttar Pradesh New and Electricity Development Agency;
 - xi. UPNEDA/NIT/RESCO-500MW-GCRT-Govt.Building/2023
 - xii. All other applicable and best-in-class standards.
- b. The Supplier also undertakes to abide by the QHSSE policy and standards as may be applicable and shall including without limitation abide by and ensure that its subcontractors, employees, personnel abide by the Cardinal Safety Rules set out in **Schedule D** at all times.

28. QUALITY AND SAFETY ASSURANCE PROCESS

- a. After completion of each project site by the Supplier, prior to handing over the site to OMC for acceptance testing, the Supplier shall carry out an exhaustive quality and safety audit. The Supplier shall ensure that such quality and safety audit is carried out by its personnel who are independent from the personnel involved in execution of the said project site.



- b. Upon completion of the quality and safety audit to the complete satisfaction of the Supplier, the project site(s) shall be handed over to the Company for acceptance testing.
- c. The acceptance testing shall be carried out as per schedule provided by the Company. Thereafter, after its complete satisfaction, Jakson shall submit to the Company the completed acceptance schedule along with an acceptance certification in a format prescribed by the Company.
- d. Thereafter, the project site(s) shall be handed over to the Company for final inspection.

The authorized representatives of the Parties have executed this Agreement as on 4th December 2024, in presence of the following witnesses:

OMC:

OMC POWER PVT. LTD.

By: 辻 幸宏
(Signature)



Name: Yukihiro Tsujiura
Title: CFO

THE SUPPLIER:

JAKSON LIMITED

By: Pankaj X
(Signature)

Name: Mr. Pankaj Kumar Singh
Title: Dy. General Manager – Key Accounts –
Marketing & Sales (DEB)

WITNESSES

1.

2.

SCHEDULE A

List of Products and Services, Technical Specification

This frame agreement shall follow strictly the specifications as per RFP document NO: UPNEDA/NIT/RESCO-500MW-GCRT-Govt.Building/2023 (attached as reference)

1. DEFINITION

A Roof Top Solar (RTS) Photo Voltaic (PV) system shall consist of following equipment/components:

1. Solar Photo Voltaic (SPV) modules consisting of required number of Crystalline PV modules
2. Inverter/PCU
3. Module Mounting structures
4. Energy Meter
5. Array Junction Boxes
6. DC Distribution Box
7. AC Distribution Box
8. Protections – Earthing, Lightning, Surge
9. Cables
10. Drawing & Manuals
11. Miscellaneous
12. Remote Monitoring Solution

1. Solar PV modules

- 1.1. The PV modules must be from prevailing MNRE approved list of models and manufacturers (ALMM) of solar photovoltaic modules and subsequent amendments and clarifications.
- 1.2. The PV modules used must qualify to the latest edition of IEC standards or equivalent BIS standards, i.e. IEC 61215/IS14286, IEC 61853-Part I/IS 16170-Part I, IEC 61730 Part-1 &Part 2 and IEC 62804 (PID). For the PV modules to be used in a highly corrosive atmosphere throughout their lifetime, they must qualify to IEC 61701/IS 61701.
- 1.3. The rated power of solar PV module shall have maximum tolerance up to +3%.
- 1.4. The peak-power point current of any supplied module string (series connected modules) shall not vary by +1% from the respective arithmetic means for all modules and/or for all module strings (connected to the same MPPT), as the case may be.
- 1.5. The peak-power point voltage of any supplied module string (series connected modules) shall not vary by + 2% from the respective arithmetic means for all modules and/or for all module strings (connected to the same MPPT), as the case may be.
- 1.6. The temperature co-efficient power of the PV module shall be equal to or



- better than - 0.45%/°C.
- 1.7. Solar PV modules of minimum capacity 250 Wp to be used.
 - 1.8. The PV Module efficiency should be minimum 16%.
 - 1.9. Solar PV modules of minimum fill factor 75%, to be used.
 - 1.10. All electrical parameters at STC shall have to be provided
 - 1.11. The PV modules shall be equipped with IP 65 or better protection level junction box with required numbers of bypass diodes of appropriate rating and appropriately sized output power cable of symmetric length with MC4 or equivalent solar connectors. The IP level for protection may be chosen based on following conditions:
 - i. An IP 65 rated enclosure is suitable for most outdoor enclosures that won't encounter extreme weather such as flooding.
 - ii. An IP 67 rated enclosure is suitable at locations which may encounter temporary submersion at depths of up to one meter.
 - iii. An IP 68 enclosure is recommended if there may exist situations of submergence for extended periods of time and at substantial depths.
 - 1.12. All PV modules should carry a performance warranty of >90% during the first 10 years, and
 >80% during the next 15 years. Further, module shall have performance warranty of >97% during the first year of installation—degradation of the module below 1 % per annum.
 - 1.13. The manufacturer should warrant the Solar Module(s) to be free from the defects and/or failures specified below for a period not less than five (05) years from the date of commissioning:
 - 1.14. Defects and/or failures due to manufacturing.
 - 1.15. Defects and/or failures due to quality of materials.
 - 1.16. Nonconformity to specifications due to faulty manufacturing and/or inspection processes. If the solar Module(s) fails to conform to this warranty, the manufacturer will repair or replace the solar module(s), at the Owners sole option.
 - 1.17. PV modules must be tested and approved by one of the NABL accredited and BIS approved test centers.
 - 1.18. Modules deployed must use a RF identification tag laminated inside the glass. The following information must be mentioned in the RFID used on each module:
 - i. Name of the manufacturer of the PV module
 - ii. Name of the manufacturer of Solar Cells.
 - iii. Month & year of the manufacture (separate for solar cells and modules)
 - iv. Country of origin (separately for solar cells and module)



- v. I-V curve for the module Wattage, I_m , V_m and FF for the module
- vi. Unique Serial No and Model No of the module
- vii. Date and year of obtaining IEC PV module qualification certificate.
- viii. Name of the test lab issuing IEC certificate.
- ix. Other relevant information on traceability of solar cells and module as per ISO 9001 and ISO 14001.
- x. Nominal wattage +3%.
- xi. Brand Name, if applicable.

1.19. Other details as per IS/IEC 61730-1 clause 11 should be provided at appropriate place. In addition to the above, the following information should also be provided:

- i. The actual Power Output P_{max} shall be mentioned on the label pasted on the back side of PV Module.
- ii. The Maximum system voltage for which the module is suitable to be provided on the back sheet of the module.
- iii. Polarity of terminals or leads (color coding is permissible) on junction Box housing near cable entry or cable and connector.

1.20. Unique Serial No, Model No, Name of Manufacturer, Manufacturing year, make in India logo and module wattage details should be displayed inside the laminated glass.

2. Inverter/PCU

2.1. Inverters/PCU should comply with applicable IEC/equivalent BIS standard for efficiency measurements and environmental tests as per standard codes IEC 61683/IS 61683, IS 16221 (Part 2), IS 16169 and IEC 60068-2(1,2,14,30)/Equivalent BIS Std.

2.2. Maximum Power Point Tracker (MPPT) shall be integrated in the inverter/PCU to maximize energy drawn from the array. Charge controller (if any) / MPPT units environmental testing should qualify IEC 60068-2(1, 2, 14, 30)/Equivalent BIS standard. The junction boxes/enclosures should be IP 65 or better (for outdoor)/ IP 54 or better (indoor) and as per IEC 529 Specifications.

2.3. All inverters/PCUs shall be IEC 61000 compliant for electromagnetic compatibility, harmonics, Surge, etc.

2.4. The PCU/ inverter shall have overloading capacity of minimum 10%.

2.5. Typical technical features of the inverter shall be as follows-

- i. Switching devices: IGBT/MOSFET
- ii. Control: Microprocessor/DSP
- iii. Nominal AC output voltage and frequency: as per CEA/State regulations
- iv. Output frequency: 50 Hz
- v. Grid Frequency Synchronization range: as per CEA/State Regulations
- vi. Ambient temperature considered: -20°C to 60°C



- vii. Humidity: 95 % Non-condensing
- viii. Protection of Enclosure: IP-54 (Minimum) for indoor and IP-65(Minimum) for outdoor.
- ix. Grid Frequency Tolerance range: as per CEA/State regulations
- x. Grid Voltage tolerance: as per CEA/State Regulations
- xi. No-load losses: Less than 1% of rated power
- xii. Inverter efficiency (Min.): >93% (In case of 10 kW or above within-built galvanic isolation) >97% (In case of 10 kW or above without inbuilt galvanic isolation)
- xiii. Inverter efficiency (minimum): > 90% (In case of less than 10 kW)
- xiv. THD: < 3%
- xv. PF: > 0.9 (lag or lead)
- xvi. Should not inject DC power more than 0.5% of full rated output at the interconnection point and comply to IEEE 519.

2.6. The output power factor of inverter should be suitable for all voltage ranges or sink of reactive power, inverter should have internal protection arrangement against any sustain fault in feederline and against the lightning on feeder.

2.7. All the Inverters should contain the following clear and indelible Marking Label & Warning Label as per IS16221 Part II, clause 5. The equipment shall, as a minimum, be permanently marked with:

- i. The name or trademark of the manufacturer or supplier;
- ii. A model number, name or other means to identify the equipment,
- iii. A serial number, code or other marking allowing identification of manufacturing location and the manufacturing batch or date within a three-month time period.
- iv. Input voltage, type of voltage (a.c. or d.c.), frequency, and maximum continuous current for each input.
- v. Output voltage, type of voltage (a.c. or d.c.), frequency, maximum continuous current, and for a.c. outputs, either the power or power factor for each output.
- vi. The Ingress Protection (IP) rating

2.8. Marking shall be located adjacent to each fuse or fuse holder, or on the fuse holder, or in another location provided that it is obvious to which fuse the marking applies, giving the fuse current rating and voltage rating for fuses that may be changed at the installed site.

2.9. In case the consumer is having a 3- ϕ connection, 3- ϕ inverter shall be provided by the Firm as per the consumer's requirement and regulations of the State.

2.10. Inverter/PCU shall be capable of complete automatic operation including wake-up, synchronization & shutdown.

2.11. The Inverter should have a provision of remote monitoring of inverter data through sim card. Required website/mobile app platform, where the user



(Consumer) can access the data, should be provided/explained to consumer while installation. Additionally, if inverter has the facility of in-built wi-fi module, that should also be explained to the consumer. On demand, Inverter should also have provision to feed the data to the remote monitoring server using relevant API/ protocols. All the inverter data should be available for monitoring by giving web access.

2.12.Integration of PV Power with Grid & Grid Islanding:

- i. The output power from SPV would be fed to the inverters/PCU which converts DC produced by SPV array to AC and feeds it into the main electricity grid after synchronization.
- ii. In the event of a power failure on the electric grid, it is required that any independent power-producing inverters attached to the grid turn off in a short period of time. This prevents the DC-to-AC inverters from continuing to feed power into small sections of the grid, known as "islands." Powered islands present a risk to workers who may expect the area to be unpowered, and they may also damage grid-tied equipment. The Rooftop PV system shall be equipped with islanding protection. In addition to disconnection from the grid (due to islanding protection) disconnection due to under and over voltage conditions shall also be provided, if not available in inverter.
- iii. MCB/MCCB or a manual isolation switch, besides automatic disconnection to grid, would have to be provided at utility end to isolate the grid connection by the utility personnel to carry out any maintenance. This switch shall be locked by the utility personnel.

3. Module Mounting Structure (MMS):

- 3.1. Supply, installation, erection and acceptance of module mounting structure (MMS) with all necessary accessories, auxiliaries and spare part shall be in the scope of the work.
- 3.2. Module mounting structures can be made from three types of materials. They are Hot Dip Galvanized Iron, Aluminum and Hot Dip Galvanized Mild Steel (MS). However, MS will be preferred for raised structure.
- 3.3. ~~MMS Steel shall be as per latest IS 2062:2011 and galvanization of the mounting structure shall be in compliance of latest IS 4759. MMS Aluminum shall be as per AA6063 T6. For Aluminum structures, necessary protection towards rusting need to be provided either by coating or anodization.~~
- 3.4. All bolts, nuts, fasteners shall be of stainless steel of grade SS 304 or hot dip galvanized, panel mounting clamps shall be of aluminum and must sustain the adverse climatic conditions. Structural material shall be corrosion



resistant and electrolytically compatible with the materials used in the module frame, its fasteners, nuts and bolts.

- 3.5. The module mounting structures should have angle of inclination as per the site conditions to take maximum insolation and complete shadow-free operation during generation hours. However, to accommodate more capacity the angle of inclination may be reduced until the plant meets the specified performance ratio requirements.
- 3.6. The Mounting structure shall be so designed to withstand the speed for the wind zone of the location where a PV system is proposed to be installed. The PV array structure design shall be appropriate with a factor of safety of minimum 1.5.
- 3.7. The upper edge of the module must be covered with wind shield so as to avoid build air ingress below the module. Slight clearance must be provided on both edges (upper & lower) to allow air for cooling.
- 3.8. Suitable fastening arrangement such as grouting and calming should be provided to secure the installation against the specific wind speed.
- 3.9. The structures shall be designed to allow easy replacement, repairing and cleaning of any module. The array structure shall be so designed that it will occupy minimum space without sacrificing the output from the SPV panels. Necessary testing provision for MMS to be made available at site.
- 3.10. Adequate spacing shall be provided between two panel frames and rows of panels to facilitate personnel protection, ease of installation, replacement, cleaning of panels and electrical maintenance.
- 3.11. The structure shall be designed to withstand operating environmental conditions for a period of minimum 25 years.
- 3.12. The Rooftop Structures may be classified in three broad categories

i. Ballast structure

- a. The mounting structure must be Non-invasive ballast type and any sort of penetration of roof to be avoided.
- b. The minimum clearance of the structure from the roof level should be in between 70-150 mm to allow ventilation for cooling, also ease of cleaning and maintenance of panels as well as cleaning of terrace.
- c. The structures should be suitably loaded with reinforced concrete blocks of appropriate weight made out of M25 concrete mixture.

ii. Tin shed

- a. The structure design should be as per the slope of the tin shed.
- b. ~~The inclination angle of structure can be done in two ways~~
 - b.1. Parallel to the tin shed (flat keeping zero-degree tiling angle), if the slope of shed in Proper south direction
 - b.2. With same tilt angle based on the slope of tin shed to get the maximum output.
- c. The minimum clearance of the lowest point from the tin shade should be more than 100mm.



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d. The base of structure should be connected on the Purlin of tin shed with the proper riveting.

e. All structure member should be of minimum 2 mm thickness.

iii. **RCC Elevated structure:** It can be divided into further three categories:

A. Minimum Ground clearance (300MM – 1000 MM) (Type-1)

- a. The structure shall be designed to allow easy replacement of any module and shall be in line with site requirement. The gap between module should be minimum 30MM.
- b. Base Plate – Base plate thickness of the Structure should be 5MM for this segment.
- c. Column – Structure Column should be minimum 2MM in Lip section / 3MM in C-Channel section. The minimum section should be 70MM in Web side and 40MM in flange side in Lip section.
- d. Rafter – Structure rafter should be minimum 2MM in Lip section / 3MM in C-Channel section. The minimum section should be 70MM in Web side (y-axis) and 40MM in flange side (x-axis).
- e. Purlin – Structure purlin should be minimum 2MM in Lip section. The minimum section should be 60MM in Web side and 40MM in flange side in Lip section.
- f. Front/back bracing – The section for bracing part should be minimum 2MM thickness.
- g. Connection – The structure connection should be bolted completely. Leg to rafter should be connected with minimum 12 diameter bolt. Rafter and purlin should be connected with minimum 10 diameter bolt. Module mounting fasteners should be SS-304 only and remaining fasteners either SS-304 or HDG 8.8 Grade.
- h. For single portrait structure the minimum ground clearance should be 500MM.

B. Medium Ground clearance (1000MM – 2000 MM) (Type-2)

- a. Base Plate – Base plate thickness of the Structure should be Minimum 6MM for this segment.
- b. Column – Structure Column should be minimum 2MM in Lip section / 3MM in C-Channel section. The minimum section should be 80MM in Web side and 50MM in flange side in Lip section.
- c. Rafter – Structure rafter should be minimum 2MM in Lip section / 3MM in C-Channel section. The minimum section should be 70MM in Web side and 40MM in flange side in Lip section.
- d. Purlin – Structure purlin should be minimum 2MM in Lip section. The minimum section should be 70MM in Web side and 40MM in flange side in Lip section.
- e. Front/back bracing – The section for bracing part should be minimum 2MM thickness.



- f. Connection – The structure connection should be bolted completely. Leg to rafter should be connected with minimum 12 diameter bolt. Rafter and purlin should be connected with minimum 10 diameter bolt. Module mounting fasteners should be SS-304 only and remaining fasteners either SS-304 or HDG 8.8 Grade.

C. Maximum Ground clearance (2000MM – 3000 MM) (Type-3)

- a. Base Plate – Base plate thickness of the Structure should be minimum 8 MM for this segment.
- b. Column – Structure Column thickness should be minimum 2.6MM in square hollow section (minimum 50x50) or rectangular hollow section (minimum 60x40) or 3MM in C-Channel section.
- c. Rafter – Structure rafter should be minimum 2MM in Lip section / 3MM in Channel section. The minimum section should be 80MM in Web side and 50MM in flange side in Lip section.
- d. Purlin – Structure purlin should be minimum 2MM in Lip section. The minimum section should be 80MM in Web side and 50MM in flange side in Lip section.
- e. Front/back bracing – The section for bracing part should be minimum 3MM thickness.
- f. Connection – The structure connection should be bolted completely. Leg to rafter should be connected with minimum 12 diameter bolt. Rafter and purlin should be connected with minimum 10 diameter bolt. Module mounting fasteners should be SS-304 only and remaining fasteners either SS-304 or HDG 8.8 Grade.

D. Super elevated structure (More than 3000 MM) (Type-4)

D.1. Base structure

- a. Base Plate – Base plate thickness of the Structure should be 10MM for this segment.
- b. Column – Structure Column minimum thickness should be minimum 2.9MM in square hollow section (minimum 60x60) or rectangular hollow section (minimum 80x40).
- c. Rafter – Structure Rafter minimum thickness should be minimum 2.9MM in square hollow section (minimum 60x60) or rectangular hollow section (minimum 80x40).
- d. Cross bracing – Bracing for the connection of rafter and column should be of minimum thickness of 4mm L-angle with the help of minimum bolt diameter of 10mm.

D.2. Upper structure of super elevated structure –



- a. Base Plate – Base plate thickness of the Structure should be minimum 5MM for this segment.
 - b. Column – Structure Column should be minimum 2MM in Lip section / 3MM in Channel section. The minimum section should be 70MM in Web side and 40MM in flange side in Lip section.
 - c. Rafter – Structure rafter should be minimum 2MM in Lip section / 3MM in Channel section. The minimum section should be 70MM in Web side and 40MM in flange side in Lip section.
 - d. Purlin – Structure purlin should be minimum 2MM in Lip section. The minimum section should be 60MM in Web side and 40MM in flange side in Lip section.
 - e. Front/back bracing – The section for bracing part should be minimum 2MM thickness.
 - f. Connection – The structure connection should be bolted completely. Leg to rafter should be connected with minimum 12 diameter bolt. Rafter and purlin should be connected with minimum 10 diameter bolt. Module mounting fasteners should be SS-304 only and remaining fasteners either SS-304 or HDG 8.8 Grade.
- D.3. If distance between two legs in X-Direction is more than 3M then sag angle/Bar should be provided for purlin to avoid deflection failure. The sag angle should be minimum 2MM thick, and bar should be minimum 12Dia.
- D.4. Degree – The Module alignment and tilt angle shall be calculated to provide the maximum annual energy output. This shall be decided on the location of array installation.
- D.5. Foundation – Foundation should be as per the roof condition; two types of the foundation can be done- either penetrating the roof or without penetrating the roof.
- a. If penetration on the roof is allowed (based on the client requirement) then minimum 12MM diameter anchor fasteners with minimum length 100MM can be used with proper chipping. The minimum RCC size should be 400x400x300 cubic mm. Material grade of foundation should be minimum M20.
 - b. If penetration on roof is not allowed, then foundation can be done with the help of 'J Bolt' (refer IS 5624 for foundation hardware). Proper Neo bond solution should be used to adhere the Foundation block with the RCC roof. Foundation J – bolt length should be minimum 12MM diameter and length should be minimum 300MM.

3.13. Material standards:

- i. Design of foundation for mounting the structure should be as per defined



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- standards which clearly states the Load Bearing Capacity & other relevant parameters for foundation design (As per IS 6403 / 456 / 4091 / 875).
- ii. Grade of raw material to be used for mounting the structures so that it complies the defined wind loading conditions (As per IS 875 – III) should be referred as follows (IS 2062 – for angles and channels, IS 1079 – for sheet, IS 1161 & 1239 for round pipes, IS 4923 for rectangular and square hollow section)
 - iii. Test reports for the raw material should be as per IS 1852 / 808 / 2062 / 1079 / 811.
 - iv. In process inspection report as per approved drawing & tolerance should be as per IS 7215.
 - v. For ascertaining proper welding of structure part following should be referred:
 - a. D.P. Test (Pin Hole / Crack) (IS 822)
 - b. Weld wire grade should be of grade (ER 70 S – 6)
 - vi. For ascertaining hot dip galvanizing of fabricated structure following should be referred: -
 - a. Min coating required should be as per IS 4759 & EN 1461.
 - b. Testing of galvanized material
 - Pierce Test (IS 2633)
 - Mass of Zinc (IS 6745)
 - Adhesion Test (IS 2629)
 - CuSO4 Test (IS 2633)
 - Superior High-Grade Zinc Ingot should be of 99.999% purity (IS 209) (Preferably HindustanZinc Limited or Equivalent).
 - vii. Foundation Hardware – If using foundation bolt in foundation then it should be as per IS5624.

3.14. Design Validation- The Structure design and drawing should be duly verified by a licensed Structural designer before installation for all types of structure arrangements including the extension made, as per specification.

4. Metering

- 4.1. A Roof Top Solar (RTS) Photo Voltaic (PV) system shall consist of following energy meters:
 - i. Net meter: To record import and export units
 - ii. Generation meter along with check meter: To keep record for total generation of the plant.
- 4.2. The installation of meters including CTs & PTs, wherever applicable, shall be carried out by the Firm as per the terms, conditions and procedures laid down by the concerned SERC/DISCOMs.



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5. Array Junction Boxes:

- 4.1 The junction boxes are to be provided in the PV array for termination of connecting cables. The Junction Boxes (JBs) shall be made of GRP/FRP/Powder Coated aluminum /cast aluminum alloy with full dust, water & vermin proof arrangement. All wires/cables must be terminated through cable lugs. The JB's shall be such that input & output termination can be made through suitable cable glands. Suitable markings shall be provided on the bus-bars for easy identification and cable ferrules will be fitted at the cable termination points for identification.
- 4.2 Copper bus bars/terminal blocks housed in the junction box with suitable termination threads conforming to IP 65 or better standard and IEC 62208 Hinged door with EPDM rubber gasket to prevent water entry, Single /double compression cable glands should be provided.
- 4.3 Polyamide glands and MC4 Connectors may also be provided. The rating of the junction box shall be suitable with adequate safety factor to interconnect the Solar PV array.
- 4.4 Suitable markings shall be provided on the bus bar for easy identification and the cable ferrules must be fitted at the cable termination points for identification.
- 4.5 Junction boxes shall be mounted on the MMS such that they are easily accessible and are protected from direct sunlight and harsh weather.

5 DC Distribution Box (DCDB):

- 5.1 May not be required for small plants, if suitable arrangement is available in the inverter.
- 5.2 DC Distribution Box are to be provided to receive the DC output from the PV array field.
- 5.3 DCDBs shall be dust & vermin proof conform having IP 65 or better protection, as per site conditions.
- 5.4 The bus bars are made of EC grade copper of required size. Suitable capacity MCBs/MCCB shall be provided for controlling the DC power output to the inverter along with necessary surge arrestors. MCB shall be used for currents up to 63 Amperes, and MCCB shall be used for currents greater than 63 Amperes.

6 AC Distribution Box (ACDB):

- 6.1 AC Distribution Panel Board (DPB) shall control the AC power from inverter, and should have necessary surge arrestors, if required. There is interconnection from ACDB to mains at LT Bus bar while in grid tied mode.
- 6.2 All switches and the circuit breakers, connectors should conform to IEC 60947:2019, part I, II and III/ IS 60947 part I, II and III.
- 6.3 The isolators, cabling work should be undertaken as part of the project.



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- 6.4 All the Panel's shall be metal clad, totally enclosed, rigid, floor mounted, air - insulated, cubical type suitable for operation on 1- ϕ /3- ϕ , 415 or 230 volts, 50 Hz (or voltage levels as per CEA/State regulations).
- 6.5 The panels shall be designed for minimum expected ambient temperature of 45 degree Celsius, 80 percent humidity and dusty weather.
- 6.6 All indoor panels will have protection of IP 54 or better, as per site conditions. All outdoor panels will have protection of IP 65 or better, as per site conditions.
- 6.7 Should conform to Indian Electricity Act and CEA safety regulations (till last amendment).
- 6.8 All the 415 or 230 volts (or voltage levels as per CEA/State regulations) AC devices / equipment like bus support insulators, circuit breakers, SPDs, Voltage Transformers (VTs) etc., mounted inside the switchgear shall be suitable for continuous operation and satisfactory performance under the following supply conditions.
- i. Variation in supply voltage: as per CEA/State regulations
 - ii. Variation in supply frequency: as per CEA/State regulations
- 6.9 The inverter output shall have the necessary rated AC surge arrestors, if required and MCB/ MCCB. RCCB shall be used for successful operation of the PV system, if inverter does not have required earth fault/residual current protection.

7 Protections

The system should be provided with all necessary protections like earthing, Lightning, and Surge Protection, as described below:

7.1 Earthing Protection

- i. The earthing shall be done in accordance with latest Standards.
- ii. Each array structure of the PV yard, Low Tension (LT) power system, earthing grid for switchyard, all electrical equipment, inverter, all junction boxes, etc. shall be grounded properly as per IS 3043-2018.
- iii. All metal casing/ shielding of the plant shall be thoroughly grounded in accordance with CEA Safety Regulation 2010. In addition, the lightning arrester/masts should also be earthed inside the array field.
- iv. Earth resistance should be as low as possible and shall never be higher than 5 ohms.
- v. For 10 KW and above systems, separate three earth pits shall be provided for individual three earthings viz.: DC side earthing, AC side Earthing and Lightning arrester earthing.

7.2 Lightning Protection



- i. The SPV power plants shall be provided with lightning & over voltage protection, if required. The main aim in this protection shall be to reduce the overvoltage to a tolerable value before it reaches the PV or other sub system components. The source of over voltage can be lightning, atmosphere disturbances etc.
- ii. The entire space occupying the SPV array shall be suitably protected against Lightning by deploying required number of Lightning Arrestors (Las). Lightning protection should be provided as per NFC17-102:2011/IEC 62305 standard.
- iii. The protection against induced high-voltages shall be provided by the use of Metal Oxide Varistors (MOVs)/Franklin Rod type LA/Early streamer type LA.
- iv. The current carrying cable from lightning arrestor to the earth pit should have sufficient current carrying capacity according to IEC 62305. According to standard, the minimum requirement for a lightning protection system designed for class of LPS III is a 6 mm² copper/ 16 mm² aluminum or GI strip bearing size 25*3 mm thick). Separate pipe for running earth wires of Lightning Arrestor shall be used.

7.3 Surge Protection

- i. Internal surge protection, wherever required, shall be provided.
- ii. It will consist of three SPD type-II/MOV type surge arrestors connected from +ve and -ve terminals to earth.

8 CABLES

- 8.1 All cables should conform to latest edition of IEC/equivalent BIS Standards along with IEC 60227/IS 694, IEC 60502/IS 1554 standards.
- 8.2 Cables should be flexible and should have good resistance to heat, cold, water, oil, abrasion etc.
- 8.3 Armored cable should be used and overall PVC type 'A' pressure extruded insulation or XLPE insulation should be there for UV protection.
- 8.4 Cables should have Multi Strand, annealed high conductivity copper conductor on DC side and copper/FRLS type Aluminum conductor on AC side. For DC cabling, multi-core cables shall not be used.



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- 8.5 Cables should have operating temperature range of -10°C to +80°C and voltage rating of 660/1000 V.
- 8.6 Sizes of cables between array interconnections, array to junction boxes, junction boxes to Inverter etc. shall be so selected to keep the voltage drop less than 2% (DC Cable losses).
- 8.7 The size of each type of AC cable selected shall be based on minimum voltage drop. However; the maximum drop shall be limited to 2%.
- 8.8 The electric cables for DC systems for rated voltage of 1500 V shall conform to BIS 17293:2020.
- 8.9 All cable/wires are to be routed in a RPVC pipe/ GI cable tray and suitably tagged and marked with proper manner by good quality ferrule or by other means so that the cable is easily identified.
- 8.10 All cable trays including covers to be provided.
- 8.11 Thermo-plastic clamps to be used to clamp the cables and conduits, at intervals not exceeding 50 cm.
- 8.12 Size of neutral wire shall be equal to the size of phase wires, in a three phase system.
- 8.13 The Cable should be so selected that it should be compatible up to the life of the solar PV panels i.e. 25 years.

9 DRAWINGS & MANUALS:

- 9.1 Operation & Maintenance manual/user manual, Engineering and Electrical Drawings shall be supplied along with the power plant.
- 9.2 The manual shall include complete system details such as array lay out, schematic of the system, inverter details, working principle etc.
- 9.3 The Manual should also include all the Dos & Don'ts of Power Plant along with Graphical Representation with indication of proper methodology for cleaning, Operation and Maintenance etc.
- 9.4 Step by step maintenance and troubleshooting procedures shall also be given in the manuals.

10 Miscellaneous:

- 10.1 Connectivity: The maximum capacity for interconnection with the grid at a specific voltage level shall be as specified in the SERC regulation for Grid connectivity and norms of DISCOM and amended from time to time.
- 10.2 Safety measures: Electrical safety of the installation(s) including connectivity with the grid must be considered and all the safety rules & regulations applicable as per Electricity Act, 2003 and CEA Safety Regulation 2010 etc. must be followed.
- 10.3 Shadow analysis: The shadow analysis report with the instrument such as Solar Pathfinder or professional shadow analysis software of each site should be provided and the consumer should be educated to install the system only in shadow free space.
- 10.4 Firefighting system - Portable fire extinguishers/sand buckets shall be



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provided wherever required as per norms.

ALL TERMS NOT DEFINED HEREIN SHALL HAVE THE MEANING ASCRIBED TO THEM
IN RFP NO: UPNEDA/NIT/RESCO-500MW-GCRT-Govt.Building/2023

All reputed make mentioned in the BOQ to be approved by Company on case to case basis.

The design, engineering, manufacture, supply, installation, commissioning and performance of the equipment shall be in accordance with latest/ appropriate IEC/Indian Standards as detailed in the technical specifications of the RFS or its subsequent amendments. Where appropriate Indian Standards and Codes are not available, other suitable standards and codes as approved by the MNRE/ CEA/ electricity regulators/ Nodal Agency shall be used. All the relevant test certifications must be kept valid up to one (1) Year from the COD of the Project.

Any supplies which have not been specifically mentioned in this agreement but which are necessary during construction and/or Commissioning of the Project shall be provided by the Service Provider without any extra cost and within the time schedule for efficient and smooth construction of the Project.

All material shall fully comply with specification and requirement of 50 MWp Grid Connected Rooftop Solar Power Plant in Government / Semi- Government Buildings in Uttar Pradesh, RFS No. UPNEDA UPNEDA/NIT/RESCO-50MW-GCRT-Govt.Building/2022 including but not limited to PPA

Additional Points to be complied by Supplier

1. Generation Meter should be suitably equipped for data transfer to remote server. – Solar Generation meter should have RS-485 port to enable the data transfer to any data logger / server for further application.
2. DCDB is not required for string inverter as string inverters are already equipped with inbuilt feature for DC isolation and protection
3. Module mounting structure should be as per UPNEDA tender and pre-despatch quality check will be done by OMC representative.
4. Make of equipment's/ cable etc as mentioned in UPNEDA should be strictly adhered to.
5. Fire extinguishers as per clause 10.4 of UPNEDA tender namely Portable fire extinguishers / sand buckets with canopy mounted stand to avoid any accumulation of water in the sand bucket shall be provided near Inverter and SPV.
6. All ACDB shall be indoor/outdoor as per site requirement.
7. One separate earth pit each for DC system / AC System and two separate earth pits for LA shall be provided, Pit Earth resistance should not be more than 2 ohms. In no case earth network of the Utility/Discom/end customer will be used for OMC system. LA design should be such that it should cover entire area of SPV installation. LA design calculation in support of same to be provided.
8. All purchase details of all items supplied under this Contract/Purchase Order will be submitted to OMC Power.
9. Optional items mentioned in the master price list shall be paid additional as per requirement .

Cost for Removal of any existing installed solar PV plant at roof will be charged additional



as per mutual agreement.

11. DG sync and Spacer/modification at customer ACDB if required charged extra on actual reimbursement basis.
12. Sim and their recharge will be in OMC scope.
13. As a turnkey service provider, Jakson shall get the scrap removed from site if any. However, the approval for same from the Client/authorities shall be taken by OMC.
14. As built drawings of the site(s) shall be provided by the Supplier at the time of acceptance, along with BOQ.



Payment Terms :

1. 27.5% advance along with PO after acceptance by Jakson
2. 62.5% on readiness on material before dispatch (Pro-rata basis)
3. 5% on Installation & Commissioning of site (Self certification from Jakson that all works have been completed and ready for acceptance) within 30 days of self certification from Jakson .
4. 5% on Final Acceptance and handover of the site within 30 days from final acceptance and handover of site



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SCHEDULE – B

Commercials

- | | | |
|-------------|---|---|
| Schedule B1 | - | Master Price List |
| Schedule B2 | - | Price Summary of 12 Solar Roof Top Plants |
| Schedule B3 | - | Detailed BOQ and Price List of 12 Solar Roof Top Plants |

ANNEXURE B1 - MASTER UNIT PRICE LIST

S.NO	COMPONENTS	MAKE'S	UOM	Unit Rate
1	MODULE-580 WP, N-TYPE BIFACIAL MODULE	PANASONIC/JAKSON	NO'S	8,678
2	STRING INVERTER 20 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI	NO'S	93,678
3	STRING INVERTER 25 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI	NO'S	96,741
4	STRING INVERTER 30 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI	NO'S	131,502
5	STRING INVERTER 40 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI	NO'S	156,247
6	STRING INVERTER 50 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI	NO'S	170,622
7	STRING INVERTER 60 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI	NO'S	178,989
8	STRING INVERTER 70 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI	NO'S	242,737
9	STRING INVERTER 80 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI	NO'S	248,747
10	STRING INVERTER 100 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI	NO'S	294,466
11	STRING INVERTER 110 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI	NO'S	303,333
12	STRING INVERTER 125 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI	NO'S	314,740
13	MS HDGI Module mounting structure Struture with minimum 80 micron coating for 500 mm clearance.	JAKSON/REPUTED	KG	100
14	J BOLT	JAKSON/REPUTED	No	77
15	J BOLT/Anchor	JAKSON/REPUTED	No	130
16	Blast Type Structure	JAKSON/REPUTED	Wp	3,550
17	LUMPSUM HDG 4.6 FASTERNERS WITH WASHERS	REPUTED	KWp	370.00
	BOS			
18	CABLE 1CX4 SQMM CU. XLPO/XLPE	POLYCAB/KEI/APAR	METERS	43
19	CABLE 1CX 6 SQMM CU. XLPO/XLPE	POLYCAB/KEI/APAR	METERS	69
20	2C x 2.5 SQMM XLPE INSULATED FLEXIBLE CABLE	KEI/POLYCAB	METERS	71
21	3.5C x 25 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	METERS	189
22	3.5C x 35 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	METERS	239
23	3.5C x 50 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	METERS	324
24	3.5C x 70 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	METERS	436
25	3.5C x 95 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	METERS	545
26	3.5C x 120 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	METERS	682



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MASTER UNIT PRICE LIST

S.NO	COMPONENTS	MAKE'S	UOM	Unit Rate
27	3.5C x 150 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	METERS	808
28	3.5C x 185 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	METERS	1,023
29	3.5C x 240 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	METERS	1,285
30	3.5C x 300 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	METERS	1,581
31	3.5C x 400 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	METERS	2,020
32	4C x 16SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	METERS	161
33	4C x 25 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	METERS	202
34	4 C x 35 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	METERS	272
35	4C x 50 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	METERS	364
36	4C x 70 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	METERS	494
37	4C x 95 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	METERS	617
38	4C x 120 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	METERS	752
39	4C x 150 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	METERS	924
40	4C x 185 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	METERS	1,137
41	4C x 240 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	METERS	1,468
42	4C x 300 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	METERS	1,810
43	4C x 400 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	METERS	2,327
44	1C x 4 SQMM CU PVC INSULATED	KEI/POLYCAB	METERS	44
45	1C x 6 SQMM CU PVC INSULATED	KEI/POLYCAB	METERS	65
46	1C x 25 SQMM CU PVC INSULATED	KEI/POLYCAB	METERS	357
47	1C x 35 SQMM CU PVC INSULATED	KEI/POLYCAB	METERS	490
48	1C x 50 SQMM CU PVC INSULATED	KEI/POLYCAB	METERS	684
49	1C x 70 SQMM CU PVC INSULATED	KEI/POLYCAB	METERS	940
50	RS 485 CABLE 0.75 MM ,ANNEALED TIN COPPER 2 CORE TWISTED	POLYCAB/BELDEN	METERS	166
51	ACDB PANEL 20 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	NO'S	70,414
52	ACDB PANEL 25 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	NO'S	70,414
53	ACDB PANEL 30 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	NO'S	70,414
54	ACDB PANEL 40 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	NO'S	70,414
55	ACDB PANEL 50 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	NO'S	70,414
56	ACDB PANEL 60 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	NO'S	76,923
57	ACDB PANEL 70 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	NO'S	79,882
58	ACDB PANEL 80 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	NO'S	79,882



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MASTER UNIT PRICE LIST				
S.NO	COMPONENTS	MAKE'S	UOM	Unit Rate
59	ACDB PANEL 100 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	NO'S	86,509
60	ACDB PANEL 110 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	NO'S	89,586
61	ACDB PANEL 125 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	NO'S	89,586
62	ACDB PANEL 200 KW (100+100) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED	NO'S	170,296
63	ACDB PANEL 120 KW (40+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED	NO'S	146,982
64	ACDB PANEL 140 KW (60+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED	NO'S	165,680
65	ACDB PANEL 150 KW (70+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED	NO'S	167,811
66	ACDB PANEL 220 KW (70+70+80) 415 V (3 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED	NO'S	217,278
67	ACDB PANEL 220 KW (50+50+80+40) 415 V (4 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED	NO'S	217,278
68	ACDB PANEL 80 KW (40+40) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED	NO'S	127,101
69	ENERGY METER(Premier 300, Class 0.5)	REPUTED	NO'S	29,586
70	ACDB PANEL 4 in 1 out (50+50+100+40)KW	REPUTED	NO'S	218,935
	REMOTE MONORTING SYSTEM	Power AMR/Equivalent		
71	4G based Plug and Play - RTU, Smart data logger with antenna to connect upto 4 inverters/ MFM/ Sensors on modbus RS485 RTU • modbus RS485 RTU- 1 port • 2 digital / analog ports (0 to 5 V) • 1 analog port (4 -20 m amp) • Built in memory help store and send data in case of network failure	E Track 4G Lite	NO'S	16,568
72	RS485 Communication SPD citel make (optional)	Citel -DLA-06-D3	NO'S	2,130
73	Line SPD citel make (optional)	Citel- DS-240-320	NO'S	3,314
74	IP67 enclosure box along with SMPS power supply, glands and fitment in one unit to house the data logge	Boxomatic/ ERD	NO'S	3,550
75	Access to Web portal- per MW per annum Data frequency – 10 minute Key Components • Interactive Dashboard • Single Line Diagram • PR analysis • Solar radiation & weather data • Graphs and Reports • Generation Analysis • Log Reporting • String/ MPPT Monitoring • Plant/ Inverter Performance • Superuser Dashboard for Centralized monitoring • Mobile app on android	PowerAMR/Equivalent	NO'S	15,621
76	Solar Radiation Sensor with mounting kit	Pyra300	NO'S	15,385
77	RS 485 CABLE 0.75 MM ,ANNEALED TIN COPPER 2 CORE TWISTED	POLYCAB/BELDEN	RM	185



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MASTER UNIT PRICE LIST				
S.NO	COMPONENTS	MAKE'S	UOM	Unit Rate
78	UPVC CONDUIT FOR CABLE 20 MM DIA	SUPREME	RM	112
79	2C x 2.5 SQMM XLPE INSULATED FLEXIBLE CABLE with lugs	KEI/POLYCAB	RM	41
80	1C x 4 SQMM CU PVC INSULATED	KEI/POLYCAB	RM	21
81	Installation and Commissioning	KEI/POLYCAB	Job	5,917
82	50X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & CLAMP	REPUTED	METERS	368
83	75X75X 1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & CLAMP	REPUTED	METERS	547
84	100X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	METERS	449
85	100X75X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	METERS	531
86	150X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	METERS	592
87	150X75X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	METERS	687
88	200X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	METERS	736
89	200X75X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	METERS	950
90	300X75X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	METERS	1,287
91	300X100X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	METERS	1,390
92	ESE TYPE LA RADIUS 50 m	REPUTED	NO'S	29,231
93	ESE TYPE LA RADIUS 70 m	REPUTED	NO'S	29,793
94	ESE TYPE LA RADIUS 90 m	REPUTED	NO'S	30,355
95	ESE TYPE LA RADIUS 107 m	REPUTED	NO'S	31,479
96	5 METER MAST	REPUTED	NO'S	5,917
97	LIGHTENING STRIKE COUNTER	REPUTED	NO'S	5,917
98	EARTH ROD CONSISTING OF HIGH TENSILE LOW CARBON STEEL WITH ELECTROLYTIC GRADE 250MM COPPER COATING. ROD DIA 17.2MM	REPUTED	NO'S	1,893
99	EARTH ENHANCE COMPOUND	REPUTED	SET	592
100	EARTHING PIT CHAMBER PRE CAST	REPUTED	SET	592
101	25X3 G.I STRIP GALVANISED	REPUTED	METERS	65
102	25X6 G.I STRIP GALVANISED	REPUTED	METERS	97
103	50X3 G.I STRIP GALVANISED	REPUTED	METERS	97
104	50X6 G.I STRIP GALVANISED	REPUTED	METERS	260
105	INSULATOR FOR GI STRIP	REPUTED	NO'S	12
106	M8 X 25 with nut & washer	REPUTED	NO'S	9
	C CLASS			
107	4CX16SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	NO'S	408
108	4CX25 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	NO'S	408
109	4CX35 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	NO'S	495
110	4CX50 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	NO'S	728
111	4CX70 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	NO'S	880
112	4CX95SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	NO'S	1,054
113	4CX120 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	NO'S	1,054



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MASTER UNIT PRICE LIST				
S.NO	COMPONENTS	MAKE'S	UOM	Unit Rate
114	4CX150SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMME T	NO'S	1,243
115	4CX185SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMME T	NO'S	1,396
116	4CX240SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMME T	NO'S	2,106
117	4CX 300SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMME T	NO'S	2,446
118	4CX 300SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMME T	NO'S	2,446
119	4CX 400SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMME T	NO'S	2,663
120	LUGS RING TYPE 4 SQMM CU. RING TYPE LUGS	DOWEL/COMME T	NO'S	5
121	LUGS RING TYPE 4CX16 SQMM CU. RING TYPE LUGS	DOWEL/COMME T	NO'S	19
122	LUGS RING TYPE 1X25 SQMM CU. RING TYPE LUGS	DOWEL/COMME T	NO'S	26
123	LUGS RING TYPE 1X50 SQMM CU. RING TYPE LUGS	DOWEL/COMME T	NO'S	34
124	LUGS RING TYPE 4CX25 SQMM CU. RING TYPE LUGS	DOWEL/COMME T	NO'S	26
125	LUGS RING TYPE 4CX35 SQMM CU. RING TYPE LUGS	DOWEL/COMME T	NO'S	32
126	LUGS RING TYPE 4CX50 SQMM CU. RING TYPE LUGS	DOWEL/COMME T	NO'S	48
127	LUGS RING TYPE 4CX70 SQMM CU. RING TYPE LUGS	DOWEL/COMME T	NO'S	19
128	LUGS RING TYPE 4CX95 SQMM CU. RING TYPE LUGS	DOWEL/COMME T	NO'S	93
129	LUGS RING TYPE 4CX120 SQMM CU. RING TYPE LUGS	DOWEL/COMME T	NO'S	136
130	LUGS RING TYPE 4CX150 SQMM CU. RING TYPE LUGS	DOWEL/COMME T	NO'S	170
131	LUGS RING TYPE 4CX185 SQMM CU. RING TYPE LUGS	DOWEL/COMME T	NO'S	215
132	LUGS RING TYPE 4CX240 SQMM CU. RING TYPE LUGS	DOWEL/COMME T	NO'S	338
133	LUGS RING TYPE 4CX 300 SQMM CU. RING TYPE LUGS	DOWEL/COMME T	NO'S	431
134	LUGS RING TYPE 4CX 400 SQMM CU. RING TYPE LUGS	DOWEL/COMME T	NO'S	500
135	M4X20 with two plain washer and nut	DOWEL/COMME T	NO'S	7.10
136	MULTICONTACT MC4 CONNECTOR FOR 4 MM2 (FEMALE)	MC/BIZILINK/SA BULI/ELCOM	NO'S	50
137	MULTICONTACT MC4 CONNECTOR FOR 4 MM2 (MALE)	MC/BIZILINK/SA BULI/ELCOM	NO'S	50
138	G.I NILON COAT FLEXIBLE CONDUIT 32 MM DIA	SUPREME	METERS	36
139	HDPE CONDUIT 25-MM DIA, SMOKE GREY	SUPREME	METERS	30
140	UPVC CONDUIT FOR CABLE 20 MM DIA	SUPREME	METERS	24
141	UPVC CONDUIT FOR CABLE 40 MM DIA	SUPREME	METERS	47
142	CLAMP	SUPREME	Nos	14
143	uPVC PIPE 25MM SCH80	PRINCE/ASTRA/P LASTO/SUPREME	METERS	139



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MASTER UNIT PRICE LIST				
S.NO	COMPONENTS	MAKE'S	UOM	Unit Rate
144	uPVC PIPE 20MM SCH80	PRINCE/ASTRA/P LASTO/SUPREME	METERS	101
145	uPVC ELBOW 25MM FOR SCH40 PIPE	PRINCE/ASTRA/P LASTO/SUPREME	METERS	23
146	uPVC END CAP 20MM FOR SCH40 PIPE	PRINCE/ASTRA/P LASTO/SUPREME	METERS	12
147	uPVC TEE 25MM FOR SCH40 PIPE	PRINCE/ASTRA/P LASTO/SUPREME	METERS	31
148	uPVC UNION 25MM FOR SCH40 PIPE	PRINCE/ASTRA/P LASTO/SUPREME	METERS	51
149	uPVC COUPLER 25 MM SCH40	PRINCE/ASTRA/P LASTO/SUPREME	METERS	16
150	REDUCING TEE 2X25XX20 SH40	PRINCE/ASTRA/P LASTO/SUPREME	METERS	31
151	HOSE FOR MODULE CLEANING WITH SPRAY GUN	PRINCE/ASTRA/P LASTO/SUPREME	METERS	101
152	BALL VALVE 20MM BRASS	PRINCE/ASTRA/P LASTO/SUPREME	METERS	199
153	Telescopic Wiper	REPUTED	METERS	5,917
154	WATER TANK OF 1KL	REPUTED	METERS	11,834
155	WATER METER (0-100LPM) ANALOG TYPE	REPUTED	METERS	2,959
156	MONOBLOCK 1 HP PUMP WITH FITTING AND WIRE	SHAKTI/Kirloskar	NO'S	7,101
157	MONOBLOCK 1.5 HP PUMP WITH FITTING AND WIRE	SHAKTI/Kirloskar	NO'S	10,059
158	ABC FIRE PROTECTION 4.5 KG	REPUTED	NO'S	2,722
159	CO2 FIRE PROTECTION 4.5 KG	REPUTED	NO'S	5,917
160	FIRE SAND BUCKETS WITH 2 BUCKET EACH WITH STAND	REPUTED	NO'S	1,893
161	FIRST AID BOX AS PER BOCW ACT	REPUTED	NO'S	5,917
162	CABLE TIE 100 UV RESISTANT BLACK 100PCS PACKET	KSS/SUPERFLEX	PACKET	178
163	CABLE TIE 200 UV RESISTANT BLACK 100PCS PACKET	KSS/SUPERFLEX	PACKET	237
164	SHOCK TREATMENT CHART, SAFETY CHARTS	REPUTED	NO'S	592
165	DO'S & DON'TS CHARTS	REPUTED	NO'S	355
166	HEAT SHRINKABLE SLEEVE (AS PER CABLE SIZE COLUR)	REPUTED	NO'S	355
167	CAUTION DANGER BOARD	REPUTED	NO'S	592
168	RUBBER MAT FOR INVERTER & ACDB	REPUTED	NO'S	1,775
169	SOLAR CABLE FERULES WITH AL TAG	REPUTED	NO'S	592
170	AC CABLE FERULES WITH AL TAG	REPUTED	NO'S	592
171	INSULATION TAP	REPUTED	NO'S	59
172	PLANT DISPLAY BOARD	REPUTED	NO'S	10,059
173	MS STAND FOR INVERTER MOUNTING	LOCAL	SET	3,550
174	MS STAND FOR ACDB MOUNTING	LOCAL	SET	3,550
175	ACCESS LADDER	LOCAL	SET	35,503
176	DOOR & LOCK REPAIR	LOCAL	SET	2,959



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MASTER UNIT PRICE LIST				
S.NO	COMPONENTS	MAKE'S	UOM	Unit Rate
177	INV & ACDB CAGE	LOCAL	SET	11,834
	TOTAL SUPPLY COST			
1	INSTALLATION & COMMISSIONING OF RCC ROOF		KWp	2,700
2	M25 GRADE RCC FOUNDATION FOR RCC ROOF		NO'S	888
3	M25 GRADE RCC FOUNDATION FOR RCC ROOF (Raised structure)		NO'S	1,183
4	CIVIL FOR BLAST TYPE		NO'S	1,300
5	NitoBond		LTR	1,065
6	Other Services		Set	41,420
	TOTAL OF I&C			
	APPROVALS LT SIDE			
1	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (<=500 kWp)		KWp	177,515
2	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (500 - 900 kWp)		KWp	264,852
3	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (>=900 kWp)		KWp	329,467
4	NET METERING- METER HARDWARE (<500 kWp)		KWp	295,858
5	NET METERING- METER HARDWARE (500 - 900 kWp)		KWp	441,420
6	NET METERING- METER HARDWARE (> 900 kWp)		KWp	549,112
	TOTAL OF APPROVAL			
	OPTIONAL ITEM			
1	Spreader / Modification charges in existing panel	REPUTED	NO'S	As per Actual Cost
2	UPS 500 VA WITH 30 MINS BACKUP WITH BATTERY	REPUTED	NO'S	2,604
3	MFM SCHNIEDER EM6400 NG	REPUTED	NO'S	8,796
4	DG Synch Controller	REPUTED	NO'S	As per Actual Cost
5	Any other Item as may be required by OMC		NO'S	As per Actual Cost
6	Transportation			As per Actual Cost



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ANNEXURE B2 - SUMMARY OF 12 PROJECTS (7339.32 kWp)						
Sl. No.	Site Name	Site Type	DC Capacity (kWp)	Basic cost (INR)	GST	Total Amount (INR)
Medical Colleges						
1	Maharaja Suheldev Autonomous State Medical College Bahraich (723.84 + 928) kWp	Medical College	1651.84	₹ 55,442,533.83	₹ 7,651,069.67	₹ 63,093,603.50
2	Maharishi Vashishtha Autonomous State Medical College, Basti (373.52 + 726.16) kWp	Medical College	1099.68	₹ 34,566,798.37	₹ 4,770,218.17	₹ 39,337,016.54
District Hospitals						
1	Lok Bandhu Shri Raj Narayan Combined Hospital, Lucknow	District Hospitals	521.42	₹ 17,209,049.40	₹ 2,374,848.82	₹ 19,583,898.22
2	Tej Bahadur Sapru Hospital, Prayagraj	District Hospitals	452.4	₹ 14,821,575.23	₹ 2,045,377.38	₹ 16,866,952.61
3	District Hospital Male, Barabanki	District Hospitals	200.68	₹ 7,798,723.70	₹ 1,076,223.87	₹ 8,874,947.57
4	District Female Hospital (MCH Wing) Barabanki	District Hospitals	205.32	₹ 7,871,894.25	₹ 1,086,321.41	₹ 8,958,215.65
5	Balrampur Hospital, Lucknow	District Hospitals	746.46	₹ 25,851,965.46	₹ 3,567,571.23	₹ 29,419,536.70
6	Netaji Subhash Chandra Bose District Hospital, Gorakhpur	District Hospitals	450.08	₹ 15,213,959.77	₹ 2,099,526.45	₹ 17,313,486.21
7	District Hospital, Meerut	District Hospitals	448.92	₹ 15,704,854.76	₹ 2,167,269.96	₹ 17,872,124.72
8	District Hospital, Basti	District Hospitals	315.52	₹ 10,549,208.58	₹ 1,455,790.78	₹ 12,004,999.37
9	Pt. Din Dayal Upadhyay Combined Hospital, Moradabad	District Hospitals	747.04	₹ 25,283,333.00	₹ 3,486,339.95	₹ 28,749,672.96
10	Pt. Din Dayal Upadhyay Combined Hospital, Aligarh	District Hospitals	499.96	₹ 21,576,031.56	₹ 2,977,492.35	₹ 24,553,523.91
Total			7339.32	₹ 251,869,927.90	₹ 34,758,050.05	₹ 286,627,977.96



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ANNEXURE B3 - Maharaja Suheldev Autonomous State Medical College Bahraich				DC Solar Capacity (kWp) 723.84		
Distt. Hosp. Bahraich 723.84						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
	MODULE					
1	MODULE-580 WP, N-TYPE BIFACIAL MODULE	PANASONIC/JAKSON	1248	NO'S	₹ 8,678	₹ 10,830,456
	INVERTER					
2	STRING INVERTER 20 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 93,678	₹ -
3	STRING INVERTER 25 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 96,741	₹ -
4	STRING INVERTER 30 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 131,502	₹ -
5	STRING INVERTER 40 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI	1	NO'S	₹ 156,247	₹ 156,247
6	STRING INVERTER 50 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 170,622	₹ -
7	STRING INVERTER 60 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 178,989	₹ -
8	STRING INVERTER 70 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 242,737	₹ -
9	STRING INVERTER 80 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI	2	NO'S	₹ 248,747	₹ 497,493
10	STRING INVERTER 100 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI	4	NO'S	₹ 294,466	₹ 1,177,862
11	STRING INVERTER 110 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 303,333	₹ -
12	STRING INVERTER 125 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 314,740	₹ -
	STEEL STRUCTURE					
13	MS HDGI Module mounting structure Struture with minimum 80 micron coating	JAKSON/REPUTED	23887	KG	₹ 100	₹ 2,388,672
14	J BOLT	JAKSON/REPUTED	0	No	₹ 77	₹ -
15	J BOLT/Anchor	JAKSON/REPUTED	2496	No	₹ 130	₹ 324,923
16	Blast Type Structure	JAKSON/REPUTED	0	KG	₹ 3,550	₹ -
	FASTNERS					
17	Fastners, Washers & Others (Anti-theft bolt)	REPUTED	724	KWp	₹ 370	₹ 267,821
	BOS					
	DC CABLE					
18	CABLE 1CX4 SQMM CU. XLPO/XLPE	POLYCAB/KEI/APAR	11232	METERS	₹ 43	₹ 485,169
19	CABLE 1CX 6 SQMM CU. XLPO/XLPE	POLYCAB/KEI/APAR	0	METERS	₹ 69	₹ -
	AC CABLE COPPER FRLS					
20	2C x 2.5 SQMM XLPE INSULATED FLEXIABLE CABLE	KEI/POLYCAB	900	METERS	₹ 71	₹ 63,746
	AC CABLE ALUMINIUM FRLS OUTER SHEATH					
21	3.5C x 25 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 189	₹ -
22	3.5C x 35 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	20	METERS	₹ 239	₹ 4,781
23	3.5C x 50 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	90	METERS	₹ 324	₹ 29,122
24	3.5C x 70 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 436	₹ -
25	3.5C x 95 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	50	METERS	₹ 545	₹ 27,225
26	3.5C x 120 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	180	METERS	₹ 682	₹ 122,749



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Maharaja Suheldev Autonomous State Medical College Bahraich

DC Solar Capacity (kWp) 723.84

Distt. Hosp. Bahraich 723.84

S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
27	3.5C x 150 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 808	₹ -
28	3.5C x 185 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	150	METERS	₹ 1,023	₹ 153,489
29	3.5C x 240 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,285	₹ -
30	3.5C x 300 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	510	METERS	₹ 1,581	₹ 806,305
31	3.5C x 400 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	90	METERS	₹ 2,020	₹ 181,776
32	4C x 16SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 161	₹ -
33	4C x 25 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 202	₹ -
34	4 C x 35 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 272	₹ -
35	4C x 50 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 364	₹ -
36	4C x 70 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 494	₹ -
37	4C x 95 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 617	₹ -
38	4C x 120 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 752	₹ -
39	4C x 150 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 924	₹ -
40	4C x 185 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,137	₹ -
41	4C x 240 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,468	₹ -
42	4C x 300 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,810	₹ -
43	4C x 400 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 2,327	₹ -
	EARTHING CABLE					
44	1C x 4 SQMM CU PVC INSULATED	KEI/POLYCAB	499	METERS	₹ 44	₹ 21,965
45	1C x 6 SQMM CU PVC INSULATED	KEI/POLYCAB	0	METERS	₹ 65	₹ -
46	1C x 25 SQMM CU PVC INSULATED	KEI/POLYCAB	0	METERS	₹ 357	₹ -
47	1C x 35 SQMM CU PVC INSULATED	KEI/POLYCAB	140	METERS	₹ 490	₹ 68,620
48	1C x 50 SQMM CU PVC INSULATED	KEI/POLYCAB	60	METERS	₹ 684	₹ 41,048
49	1C x 70 SQMM CU PVC INSULATED	KEI/POLYCAB		METERS	₹ 940	₹ -
	COMMUNICATION CABLE					
50	RS 485 CABLE 0.75 MM ,ANNEALED TIN COPPER 2 CORE TWISTED	POLYCAB/BELDEN	800	METERS	₹ 166	₹ 132,544
	PANEL					
51	ACDB PANEL 20 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
52	ACDB PANEL 25 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
53	ACDB PANEL 30 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
54	ACDB PANEL 40 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	1	NO'S	₹ 70,414	₹ 70,414
55	ACDB PANEL 50 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
56	ACDB PANEL 60 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 76,923	₹ -
57	ACDB PANEL 70 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 79,882	₹ -
58	ACDB PANEL 80 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	2	NO'S	₹ 79,882	₹ 159,763



Maharaja Suheldev Autonomous State Medical College Bahraich

DC Solar Capacity (kWp) 723.84

Distt. Hosp. Bahraich 723.84

S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
59	ACDB PANEL 100 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 86,509	₹ -
60	ACDB PANEL 110 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 89,586	₹ -
61	ACDB PANEL 125 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 89,586	₹ -
62	ACDB PANEL 200 KW (100+100) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED	2	NO'S	₹ 170,296	₹ 340,592
63	ACDB PANEL 120 KW (40+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 145,982	₹ -
64	ACDB PANEL 140 KW (50+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 165,680	₹ -
65	ACDB PANEL 150 KW (70+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 167,811	₹ -
66	ACDB PANEL 220 KW (70+70+80) 415 V (3 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 217,278	₹ -
67	ACDB PANEL 220 KW (50+50+80+40) 415 V (4 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 217,278	₹ -
68	ACDB PANEL 80 KW (40+40) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 127,101	₹ -
69	ENERGY METER(Premier 300, Class 0.5)	REPUTED		NO'S	₹ 29,586	₹ -
70	ACDB PANEL 4 in 1 out (50+50+100+40)KW	REPUTED		NO'S	₹ 218,935	₹ -
	REMOTE MONORTING SYSTEM					
	REMOTE MONORTING SYSTEM	Power AMR/Equivalent				
71	4G based Plug and Play - RTU, Smart data logger with antenna to connect upto 4 inverters/ MFM/ Sensors on modbus RS485 RTU • modbus RS485 RTU- 1 port • 2 digital / analog ports (0 to 5 V) • 1 analog port (4 -20 m amp) • Built in memory help store and send data in case of network failure	E Track 4G Lite	2	NO'S	₹ 16,568	₹ 33,136
72	RS485 Communication SPD citel make (optional)	Citel -DLA-06-D3	2	NO'S	₹ 2,130	₹ 4,260
73	Line SPD citel make (optional)	Citel- DS-240-320	2	NO'S	₹ 3,314	₹ 6,627
74	IP67 enclosure box along with SMPS power supply, glands and fitment in one unit to house the data logge	Boxomatic/ ERD	1	NO'S	₹ 3,550	₹ 3,550
75	Access to Web portal- per MW per annum Data frequency - 10 minute Key Components • Interactive Dashboard • Single Line Diagram • PR analysis • Solar radiation & weather data • Graphs and Reports • Generation Analysis • Log Reporting • String/ MPPT Monitoring	PowerAMR	1	NO'S	₹ 15,621	₹ 15,621
	• Plant/ Inverter Performance • Superuser Dashboard for Centralized monitoring • Mobile app on android					
76	Solar Radiation Sensor with mounting kit	Pyra300	1	NO'S	₹ 15,385	₹ 15,385
77	RS 485 CABLE 0.75 MM ,ANNEALED TIN COPPER 2 CORE TWISTED	POLYCAB/BELDEN		RM	₹ 185	₹ -



Maharaja Suheldev Autonomous State Medical College Bahraich

DC Solar Capacity (kWp) 723.84

Distt. Hosp. Bahraich 723.84

S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
78	UPVC CONDUIT FOR CABLE 20 MM DIA	SUPREME		RM	₹ 112	₹ -
79	2C x 2.5 SQMM XLPE INSULATED FLEXIBLE CABLE with lugs	KEI/POLYCAB		RM	₹ 41	₹ -
80	1C x 4 SQMM CU PVC INSULATED	KEI/POLYCAB		RM	₹ 21	₹ -
81	Installation and Commissioning	KEI/POLYCAB	1	Job	₹ 5,917	₹ 5,917
	CABLE TRAY					
82	50X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & CLAMP	REPUTED	0	METERS	₹ 368	₹ -
83	75X75X 1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & CLAMP	REPUTED	160	METERS	₹ 547	₹ 87,479
84	100X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 449	₹ -
85	100X75X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 531	₹ -
86	150X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	330	METERS	₹ 592	₹ 195,462
87	150X75X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	510	METERS	₹ 687	₹ 350,542
88	200X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	90	METERS	₹ 736	₹ 66,195
89	200X75X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 950	₹ -
90	300X75X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 1,287	₹ -
91	300X100X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 1,390	₹ -
	LIGHTING PROTECTION					
92	ESE TYPE LA RADIUS 50 m	REPUTED		NO'S	₹ 29,231	₹ -
93	ESE TYPE LA RADIUS 70 m	REPUTED		NO'S	₹ 29,793	₹ -
94	ESE TYPE LA RADIUS 90 m	REPUTED		NO'S	₹ 30,355	₹ -
95	ESE TYPE LA RADIUS 107 m	REPUTED	2	NO'S	₹ 31,479	₹ 62,959
96	5 METER MAST	REPUTED	2	NO'S	₹ 5,917	₹ 11,834
97	LIGHTENING STRIKE COUNTER	REPUTED	2	NO'S	₹ 5,917	₹ 11,834
	EARTHING					
98	EARTH ROD CONSISTING OF HIGH TENSILE LOW CARBON STEEL WITH ELECTROLYTIC GRADE 250MM COPPER COATING. ROD DIA 17.2MM	REPUTED	38	NO'S	₹ 1,893	₹ 71,953
99	EARTH ENHANCE COMPOUND	REPUTED	38	SET	₹ 592	₹ 22,485
100	EARTHING PIT CHAMBER PRE CAST	REPUTED	38	SET	₹ 592	₹ 22,485
101	25X3 G.I STRIP GALVANISED	REPUTED	1200	METERS	₹ 65	₹ 78,107
102	25X6 G.I STRIP GALVANISED	REPUTED	0	METERS	₹ 97	₹ -
103	50X3 G.I STRIP GALVANISED	REPUTED	900	METERS	₹ 97	₹ 87,337
104	50X6 G.I STRIP GALVANISED	REPUTED	0	METERS	₹ 260	₹ -
105	INSULATOR FOR GI STRIP	REPUTED	940	NO'S	₹ 12	₹ 11,124
106	M8 X 25 with nut & washer	REPUTED	490	NO'S	₹ 9	₹ 4,639
	C CLASS					
	GLANDS					
107					408.28402	₹ -
108					408.28402	₹ -
109	4CX35 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	2	NO'S	₹ 495	₹ 991
110	4CX50 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	2	NO'S	₹ 728	₹ 1,456
111	4CX70 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 880	₹ -
112	4CX95SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	2	NO'S	₹ 1,054	₹ 2,107
113	4CX120 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	8	NO'S	₹ 1,054	₹ 8,428



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Maharaja Suheldev Autonomous State Medical College Bahraich

DC Solar Capacity (kWp) 723.84

Distt. Hosp. Bahraich 723.84

S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
114	4CX150SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 1,243	₹ -
115	4CX185SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	2	NO'S	₹ 1,396	₹ 2,792
116	4CX240SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 2,106	₹ -
117	4CX 300SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	6	NO'S	₹ 2,446	₹ 14,677
118	4CX 300SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 2,446	₹ -
119	4CX 400SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	2	NO'S	₹ 2,663	₹ 5,325
	LUGS					
120	LUGS RING TYPE 4 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	2706	NO'S	₹ 5.4	₹ 14,571
121	LUGS RING TYPE 4CX16 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 19	₹ -
122	LUGS RING TYPE 1X25 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 26	₹ -
123	LUGS RING TYPE 1X50 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 34	₹ -
124	LUGS RING TYPE 4CX25 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 26	₹ -
125	LUGS RING TYPE 4CX35 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	8	NO'S	₹ 32	₹ 254
126	LUGS RING TYPE 4CX50 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	8	NO'S	₹ 48	₹ 382
127	LUGS RING TYPE 4CX70 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 19	₹ -
128	LUGS RING TYPE 4CX95 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	8	NO'S	₹ 93	₹ 747
129	LUGS RING TYPE 4CX120 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	32	NO'S	₹ 136	₹ 4,343
130	LUGS RING TYPE 4CX150 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 170	₹ -
131	LUGS RING TYPE 4CX185 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 215	₹ -
132	LUGS RING TYPE 4CX240 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 338	₹ -
133	LUGS RING TYPE 4CX 300 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	24	NO'S	₹ 431	₹ 10,338
134	LUGS RING TYPE 4CX 400 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	8	NO'S	₹ 500	₹ 4,000
135	M4X20 with two plain washer and nut	DOWEL/COMMET	2706	NO'S	₹ 7	₹ 19,213
	CONNECTORS					
136	MULTICONTACT MC4 CONNECTOR FOR 4 MM2 (FEMALE)	MC/BIZILINK/SABULI/ELCOM	290	NO'S	₹ 50	₹ 14,414
137	MULTICONTACT MC4 CONNECTOR FOR 4 MM2 (MALE)	MC/BIZILINK/SABULI/ELCOM	290	NO'S	₹ 50	₹ 14,414
	CONDUIT					
138	G.I NILON COAT FLEXIBLE CONDUIT 32 MM DIA	SUPREME	200	METERS	₹ 36	₹ 7,101
139	HDPE CONDUIT 25 MM DIA, SMOKE GREY	SUPREME		METERS	₹ 30	₹ -
140	UPVC CONDUIT FOR CABLE 20 MM DIA	SUPREME	1200	METERS	₹ 24	₹ 28,402
141	UPVC CONDUIT FOR CABLE 40 MM DIA	SUPREME	1100	METERS	₹ 47	₹ 52,071
142	CLAMP	SUPREME	660	Nos	₹ 14	₹ 9,373
	PLUMBING SYSTEM FOR SOLAR PLANT					
143	UPVC PIPE 25MM SCH80	PRINCE/ASTRA/PLASTO/SUPREME	1000	METERS	₹ 139	₹ 139,290



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Distt. Hosp. Bahraich 723.84

S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
144	uPVC PIPE 20MM SCH80	PRINCE/ASTRA/PLASTO/SUP REME	100	METERS	₹ 101	₹ 10,089
145	uPVC ELBOW 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 23	₹ 1,172
146	uPVC END CAP 20MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	40	METERS	₹ 12	₹ 495
147	uPVC TEE 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 31	₹ 1,562
148	uPVC UNION 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	40	METERS	₹ 51	₹ 2,031
149	uPVC COUPLER 25 MM SCH40	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 16	₹ 781
150	REDUCING TEE 2X25X20 SH40	PRINCE/ASTRA/PLASTO/SUP REME	40	METERS	₹ 31	₹ 1,250
151	HOSE FOR MODULE CLEANING WITH SPRAY GUN	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 101	₹ 5,044
152	BALL VALVE 20MM BRASS	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 199	₹ 9,959
153	Telescopic Wiper	REPUTED	5	METERS	₹ 5,917	₹ 29,586
154	WATER TANK OF 1KL	REPUTED	0	METERS	₹ 11,834	₹ -
155	WATER METER (0-100LPM) ANALOG TYPE	REPUTED	0	METERS	₹ 2,959	₹ -
156	MONOBLOCK 1 HP PUMP WITH FITTING AND WIRE	SHAKTI/Kirloskar	7	NO'S	₹ 7,101	₹ 49,704
157	MONOBLOCK 1.5 HP PUMP WITH FITTING AND WIRE	SHAKTI/Kirloskar	0	NO'S	₹ 10,059	₹ -
FIRE PROTECTION						
158	ABC FIRE PROTECTION 4.5 KG	REPUTED	7	NO'S	₹ 2,722	₹ 19,053
159	CO2 FIRE PROTECTION 4.5 KG	REPUTED	7	NO'S	₹ 5,917	₹ 41,420
160	FIRE SAND BUCKETS WITH 2 BUCKET EACH WITH STAND	REPUTED	7	NO'S	₹ 1,893	₹ 13,254
161	FIRST AID BOX AS PER BOCW ACT	REPUTED	7	NO'S	₹ 5,917	₹ 41,420
CABLE TIE						
162	CABLE TIE 100 UV RESISTANT BLACK 100PCS PACKET	KSS/SUPERFLEX	60	PACKET	₹ 178	₹ 10,651
163	CABLE TIE 200 UV RESISTANT BLACK 100PCS PACKET	KSS/SUPERFLEX	60	PACKET	₹ 237	₹ 14,201
SAFETY TAGS						
164	SHOCK TREATMENT CHART, SAFETY CHARTS	REPUTED	7	NO'S	₹ 592	₹ 4,142
165	DO'S & DON'TS CHARTS	REPUTED	7	NO'S	₹ 355	₹ 2,485
166	HEAT SHRINKABLE SLEEVE (AS PER CABLE SIZE COLUR)	REPUTED	7	NO'S	₹ 355	₹ 2,485
167	CAUTION DANGER BOARD	REPUTED	7	NO'S	₹ 592	₹ 4,142
168	RUBBER MAT FOR INVERTER & ACDB	REPUTED	12	NO'S	₹ 1,775	₹ 21,302
169	SOLAR CABLE FERULES WITH AL TAG	REPUTED	3	NO'S	₹ 592	₹ 1,775
170	AC CABLE FERULES WITH AL TAG	REPUTED	3	NO'S	₹ 592	₹ 1,775
171	INSULATION TAP	REPUTED	3	NO'S	₹ 59	₹ 178
172	PLANT DISPLAY BOARD	REPUTED	1	NO'S	₹ 10,059	₹ 10,059
INSTALLATION WORK						
173	MS STAND FOR INVERTER MOUNTING	LOCAL	7	SET	₹ 3,550	₹ 24,852
174	MS STAND FOR ACDB MOUNTING	LOCAL	5	SET	₹ 3,550	₹ 17,751
175	ACCESS LADDER	LOCAL	3	SET	₹ 35,503	₹ 106,509
176	DOOR & LOCK REPAIR	LOCAL	3	SET	₹ 2,959	₹ 8,876



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Maharaja Suheldev Autonomous State Medical College Bahraich

DC Solar Capacity (kWp) 723.84

Distt. Hosp. Bahraich 723.84

S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
177	INV & ACDB CAGE	LOCAL	12	SET	₹ 11,834	₹ 142,012
						₹ 20,476,417
	INSTALLATION & COMMISSIONING					
1	INSTALLATION & COMMISSIONING OF RCC ROOF		724	KWp	₹ 2,700	₹ 1,954,368
2	M25 GRADE RCC FOUNDATION FOR RCC ROOF				₹ 888	-
3	M25 GRADE RCC FOUNDATION FOR RCC ROOF (Raised structure)		724	NO'S	₹ 1,183	₹ 856,615
4	CIVIL FOR BLAST TYPE			NO'S	₹ 1,300	-
5	NitoBond		80.43	LTR	₹ 1,065	₹ 85,662
6	Other Services		1.00	LTR	₹ 41,420	₹ 41,420
	TOTAL OF I&C					₹ 2,938,065
	APPROVALS, LT SIDE					
1	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (= <500 kWp)					
2	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (500 - 900 kWp)		724	KWp		₹ 264,852
3	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (>=900 kWp)					
4	NET METERING- METER HARDWARE (<500 kWp)					
5	NET METERING- METER HARDWARE (500 - 900 kWp)		724	KWp		₹ 441,420
6	NET METERING- METER HARDWARE (> 900 kWp)					
	TOTAL OF APPROVAL					₹ 706,272
	OPTIONAL ITEM					
1	Spreader / Modification charges in existing panel	REPUTED		NO'S	As per Actual Cost	
2	UPS 500 VA WITH 30 MINS BACKUP WITH BATTERY	REPUTED		NO'S	₹ 2,604	
3	MFM SCHNIEDER EM6400 NG	REPUTED		NO'S	₹ 8,796	
4	DG Synch Controller	REPUTED		NO'S	As per Actual Cost	
5	Any other Item as may be required by OMC			NO'S	As per Actual Cost	
6	Transportation					₹ 96,667
Total amount						₹ 24,217,421



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ANNEXURE B3 - Maharaja Suheldev Autonomous State Medical College Bahraich				DC Solar Capacity (kWp) 928		
Medical Hosp. Bahraich 928						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
MODULE						
1	MODULE-580 WP, N-TYPE BIFACIAL MODULE	PANASONIC/JAKSON	1600	NO'S	₹ 8,678	₹ 13,885,200
INVERTER						
2	STRING INVERTER 20 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 93,678	₹ -
3	STRING INVERTER 25 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 96,741	₹ -
4	STRING INVERTER 30 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 131,502	₹ -
5	STRING INVERTER 40 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 156,247	₹ -
6	STRING INVERTER 50 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI	5	NO'S	₹ 170,622	₹ 853,111
7	STRING INVERTER 60 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 178,989	₹ -
8	STRING INVERTER 70 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 242,737	₹ -
9	STRING INVERTER 80 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI	2	NO'S	₹ 248,747	₹ 497,493
10	STRING INVERTER 100 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI	4	NO'S	₹ 294,466	₹ 1,177,862
11	STRING INVERTER 110 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 303,333	₹ -
12	STRING INVERTER 125 KW, 400V GRID CONNECTED	GROWATT/SOLIS		NO'S	₹ 314,740	₹ -
STEEL STRUCTURE						
13	MS HDGI Module mounting structure Struture with minimum 80 micron coating	JAKSON/REPUTED	42688	KG	₹ 100	₹ 4,268,800
14	J BOLT	JAKSON/REPUTED	0	No	₹ 77	₹ -
15	J BOLT/Anchor	JAKSON/REPUTED	3200	No	₹ 130	₹ 416,568
16	Blast Type Structure	JAKSON/REPUTED	0	KG	₹ 3,550	₹ -
FASTNERS						
17	Fastners, Washers & Others (Anti-theft bolt)	REPUTED	928	KWp	₹ 370	₹ 343,360
BOS						
DC CABLE						
18	CABLE 1CX4 SQMM CU. XLPO/XLPE	POLYCAB/KEI/APAR	14400	METERS	₹ 43	₹ 622,012
19	CABLE 1CX 6 SQMM CU. XLPO/XLPE	POLYCAB/KEI/APAR	0	METERS	₹ 69	₹ -
AC CABLE COPPER FRLS						
20	2C x 2.5 SQMM XLPE INSULATED FLEXIABLE CABLE	KEI/POLYCAB	1100	METERS	₹ 71	₹ 77,911
AC CABLE ALUMINIUM FRLS OUTER SHEATH						
21	3.5C x 25 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 189	₹ -
22	3.5C x 35 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	120	METERS	₹ 239	₹ 28,683
23	3.5C x 50 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	350	METERS	₹ 324	₹ 113,251
24	3.5C x 70 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	110	METERS	₹ 436	₹ 47,955
25	3.5C x 95 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	110	METERS	₹ 545	₹ 59,896
26	3.5C x 120 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	120	METERS	₹ 682	₹ 81,833



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Maharaja Suheldev Autonomous State Medical College Bahraich				DC Solar Capacity (kWp) 928		
Medical Hosp. Bahraich 928						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
27	3.5C x 150 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 808	₹ -
28	3.5C x 185 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	200	METERS	₹ 1,023	₹ 204,652
29	3.5C x 240 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,285	₹ -
30	3.5C x 300 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,581	₹ -
31	3.5C x 400 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 2,020	₹ -
32	4C x 16SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 161	₹ -
33	4C x 25 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 202	₹ -
34	4 C x 35 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 272	₹ -
35	4C x 50 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 364	₹ -
36	4C x 70 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 494	₹ -
37	4C x 95 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 617	₹ -
38	4C x 120 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 752	₹ -
39	4C x 150 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 924	₹ -
40	4C x 185 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,137	₹ -
41	4C x 240 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,468	₹ -
42	4C x 300 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,810	₹ -
43	4C x 400 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 2,327	₹ -
	EARTHING CABLE					
44	1C x 4 SQMM CU PVC INSULATED	KEI/POLYCAB	740	METERS	₹ 44	₹ 32,560
45	1C x 6 SQMM CU PVC INSULATED	KEI/POLYCAB	0	METERS	₹ 65	₹ -
46	1C x 25 SQMM CU PVC INSULATED	KEI/POLYCAB	0	METERS	₹ 357	₹ -
47	1C x 35 SQMM CU PVC INSULATED	KEI/POLYCAB	330	METERS	₹ 490	₹ 161,747
48	1C x 50 SQMM CU PVC INSULATED	KEI/POLYCAB	0	METERS	₹ 684	₹ -
49	1C x 70 SQMM CU PVC INSULATED	KEI/POLYCAB	100	METERS	₹ 940	₹ 93,952
	COMMUNICATION CABLE					
50	RS 485 CABLE 0.75 MM ,ANNEALED TIN COPPER 2 CORE TWISTED	POLYCAB/BELDEN	900	METERS	₹ 166	₹ 149,112
	PANEL					
51	ACDB PANEL 20 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
52	ACDB PANEL 25 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
53	ACDB PANEL 30 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
54	ACDB PANEL 40 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
55	ACDB PANEL 50 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	5	NO'S	₹ 70,414	₹ 352,070
56	ACDB PANEL 60 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 76,923	₹ -
57	ACDB PANEL 70 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 79,882	₹ -
58	ACDB PANEL 80 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	2	NO'S	₹ 79,882	₹ 159,763



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Maharaja Suheldev Autonomous State Medical College Bahraich				DC Solar Capacity (kWp) 928		
Medical Hosp. Bahraich 928						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
59	ACDB PANEL 100 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 86,509	₹ -
60	ACDB PANEL 110 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 89,586	₹ -
61	ACDB PANEL 125 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 89,586	₹ -
62	ACDB PANEL 200 KW (100+100) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED	2	NO'S	₹ 170,296	₹ 340,592
63	ACDB PANEL 120 KW (40+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 146,982	₹ -
64	ACDB PANEL 140 KW (60+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 165,680	₹ -
65	ACDB PANEL 150 KW (70+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 167,811	₹ -
66	ACDB PANEL 220 KW (70+70+80) 415 V (3 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 217,278	₹ -
67	ACDB PANEL 220 KW (50+50+80+40) 415 V (4 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 217,278	₹ -
68	ACDB PANEL 80 KW (40+40) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 127,101	₹ -
69	ENERGY METER(Premier 300, Class 0.5)	REPUTED		NO'S	₹ 29,586	₹ -
70	ACDB PANEL 4 in 1 out (50+50+100+40)KW	REPUTED		NO'S	₹ 218,935	₹ -
REMOTE MONITORING SYSTEM						
	REMOTE MONITORING SYSTEM	Power AMR/Equivalent				
71	4G based Plug and Play - RTU, Smart data logger with antenna to connect upto 4 inverters/ MFM/ Sensors on modbus RS485 RTU • modbus RS485 RTU- 1 port • 2 digital / analog ports (0 to 5 V) • 1 analog port (4 -20 m amp) • Built in memory help store and send data in case of network failure	E Track 4G Lite	2	NO'S	₹ 16,568	₹ 33,136
72	RS485 Communication SPD citel make (optional)	Citel -DLA-06-D3	2	NO'S	₹ 2,130	₹ 4,260
73	Line SPD citel make (optional)	Citel- DS-240-320	2	NO'S	₹ 3,314	₹ 6,627
74	IP67 enclosure box along with SMPS power supply, glands and fitment in one unit to house the data logger	Boxomatic/ ERD	1	NO'S	₹ 3,550	₹ 3,550
75	Access to Web portal- per MW per annum Data frequency - 10 minute Key Components • Interactive Dashboard • Single Line Diagram • PR analysis • Solar radiation & weather data • Graphs and Reports • Generation Analysis • Log Reporting • String/ MPPT Monitoring • Plant/ Inverter Performance • Superuser Dashboard for Centralized monitoring • Mobile app on android	PowerAMR	1	NO'S	₹ 15,621	₹ 15,621
76	Solar Radiation Sensor with mounting kit	Pyra300	1	NO'S	₹ 15,385	₹ 15,385
77	RS 485 CABLE 0.75 MM ,ANNEALED TIN COPPER 2 CORE TWISTED	POLYCAB/BELDEN		RM	₹ 185	₹ -



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Maharaja Suheldev Autonomous State Medical College Bahraich

DC Solar Capacity (kWp) 928

Medical Hosp. Bahraich 928

S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
78	UPVC CONDUIT FOR CABLE 20 MM DIA	SUPREME		RM	₹ 112	-
79	2C x 2.5 SQMM XLPE INSULATED FLEXIBLE CABLE with lugs	KEI/POLYCAB		RM	₹ 41	-
80	1C x 4 SQMM CU PVC INSULATED	KEI/POLYCAB		RM	₹ 21	-
81	Installation and Commissioning	KEI/POLYCAB	1	Job	₹ 5,917	5,917
	CABLE TRAY					
82	50X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & CLAMP	REPUTED	0	METERS	₹ 368	-
83	75X75X 1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & CLAMP	REPUTED	470	METERS	₹ 547	256,970
84	100X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 449	-
85	100X75X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	220	METERS	₹ 531	116,847
86	150X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	320	METERS	₹ 592	189,538
87	150X75X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 687	-
88	200X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 736	-
89	200X75X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 950	-
90	300X75X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 1,287	-
91	300X100X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 1,390	-
	LIGHTING PROTECTION					
92	ESE TYPE LA RADIUS 50 m	REPUTED		NO'S	₹ 29,231	-
93	ESE TYPE LA RADIUS 70 m	REPUTED		NO'S	₹ 29,793	-
94	ESE TYPE LA RADIUS 90 m	REPUTED		NO'S	₹ 30,355	-
95	ESE TYPE LA RADIUS 107 m	REPUTED	2	NO'S	₹ 31,479	62,959
96	5 METER MAST	REPUTED	2	NO'S	₹ 5,917	11,834
97	LIGHTENING STRIKE COUNTER	REPUTED	2	NO'S	₹ 5,917	11,834
	EARTHING					
98	EARTH ROD CONSISTING OF HIGH TENSILE LOW CARBON STEEL WITH ELECTROLYTIC GRADE 250MM COPPER COATING. ROD DIA 17.2MM	REPUTED	42	NO'S	₹ 1,893	79,527
99	EARTH ENHANCE COMPOUND	REPUTED	42	SET	₹ 592	24,852
100	EARTHING PIT CHAMBER PRE CAST	REPUTED	42	SET	₹ 592	24,852
101	25X3 G.I STRIP GALVANISED	REPUTED	1600	METERS	₹ 65	104,142
102	25X6 G.I STRIP GALVANISED	REPUTED	0	METERS	₹ 97	-
103	50X3 G.I STRIP GALVANISED	REPUTED	900	METERS	₹ 97	87,337
104	50X6 G.I STRIP GALVANISED	REPUTED	120	METERS	₹ 260	31,243
105	INSULATOR FOR GI STRIP	REPUTED	750	NO'S	₹ 12	8,876
106	M8 X 25 with nut & washer	REPUTED	490	NO'S	₹ 9	4,639
	C CLASS					
	GLANDS					
107	4CX16SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 408	-
108	4CX25 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 408	-
109	4CX35 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	4	NO'S	₹ 495	1,981
110	4CX50 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	10	NO'S	₹ 728	7,278
111	4CX70 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	4	NO'S	₹ 880	3,518
112	4CX95SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	4	NO'S	₹ 1,054	4,214
113	4CX120 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	8	NO'S	₹ 1,054	8,428



Maharaja Suheldev Autonomous State Medical College Bahraich

DC Solar Capacity (kWp) 928

Medical Hosp. Bahraich 928

S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
114	4CX150SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 1,243	₹ -
115	4CX185SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	4	NO'S	₹ 1,396	₹ 5,585
116	4CX240SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 2,106	₹ -
117	4CX 300SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 2,446	₹ -
118	4CX 300SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 2,446	₹ -
119	4CX 400SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 2,663	₹ -
	LUGS					
120	LUGS RING TYPE 4 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	2890	NO'S	₹ 5.4	₹ 15,562
121	LUGS RING TYPE 4CX16 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 19	₹ -
122	LUGS RING TYPE 1X25 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 25	₹ -
123	LUGS RING TYPE 1X50 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 34	₹ -
124	LUGS RING TYPE 4CX25 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 26	₹ -
125	LUGS RING TYPE 4CX35 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	16	NO'S	₹ 32	₹ 507
126	LUGS RING TYPE 4CX50 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	40	NO'S	₹ 48	₹ 1,909
127	LUGS RING TYPE 4CX70 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	16	NO'S	₹ 19	₹ 299
128	LUGS RING TYPE 4CX95 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	16	NO'S	₹ 93	₹ 1,493
129	LUGS RING TYPE 4CX120 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	32	NO'S	₹ 136	₹ 4,343
130	LUGS RING TYPE 4CX150 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 170	₹ -
131	LUGS RING TYPE 4CX185 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	16	NO'S	₹ 215	₹ 3,446
132	LUGS RING TYPE 4CX240 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 338	₹ -
133	LUGS RING TYPE 4CX 300 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 431	₹ -
134	LUGS RING TYPE 4CX 400 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 500	₹ -
135	M4X20 with two plain washer and nut	DOWEL/COMMET	2890	NO'S	₹ 7	₹ 20,519
	CONNECTORS					
136	MULTICONTACT MC4 CONNECTOR FOR 4 MM2 (FEMALE)	MC/BIZILINK/SABULI/ELCOM	380	NO'S	₹ 50	₹ 18,888
137	MULTICONTACT MC4 CONNECTOR FOR 4 MM2 (MALE)	MC/BIZILINK/SABULI/ELCOM	380	NO'S	₹ 50	₹ 18,888
	CONDUIT					
138	G.I. NILON COAT FLEXIBLE CONDUIT 32 MM DIA	SUPREME	300	METERS	₹ 36	₹ 10,551
139	HDPE CONDUIT 25 MM DIA, SMOKE GREY	SUPREME		METERS	₹ 30	₹ -
140	UPVC CONDUIT FOR CABLE 20 MM DIA	SUPREME	1500	METERS	₹ 24	₹ 35,503
141	UPVC CONDUIT FOR CABLE 40 MM DIA	SUPREME	1100	METERS	₹ 47	₹ 52,071
142	CLAMP	SUPREME	760	Nos	₹ 14	₹ 10,793
	PLUMBING SYSTEM FOR SOLAR PLANT					
143	uPVC PIPE 25MM SCH80	PRINCE/ASTRA/PLASTO/SUPREME	1200	METERS	₹ 139	₹ 167,148



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Maharaja Suheldev Autonomous State Medical College Bahraich

DC Solar Capacity (kWp) 928

Medical Hosp. Bahraich 928						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
144	uPVC PIPE 20MM SCH80	PRINCE/ASTRA/PLASTO/SUP REME	300	METERS	₹ 101	₹ 30,266
145	uPVC ELBOW 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 23	₹ 1,172
146	uPVC END CAP 20MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 12	₹ 618
147	uPVC TEE 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 31	₹ 1,562
148	uPVC UNION 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 51	₹ 2,538
149	uPVC COUPLER 25 MM SCH40	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 16	₹ 781
150	REDUCING TEE 2X25XX20 SH40	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 31	₹ 1,562
151	HOSE FOR MODULE CLEANING WITH SPRAY GUN	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 101	₹ 5,044
152	BALL VALVE 20MM BRASS	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 199	₹ 9,959
153	Telescopic Wiper	REPUTED	11	METERS	₹ 5,917	₹ 65,089
154	WATER TANK OF 1KL	REPUTED	0	METERS	₹ 11,834	₹ -
155	WATER METER (0-100LPM) ANALOG TYPE	REPUTED	0	METERS	₹ 2,959	₹ -
156	MONOBLOCK 1 HP PUMP WITH FITTING AND WIRE	SHAKTI/Kirloskar	11	NO'S	₹ 7,101	₹ 78,107
157	MONOBLOCK 1.5 HP PUMP WITH FITTING AND WIRE	SHAKTI/Kirloskar	0	NO'S	₹ 10,059	₹ -
FIRE PROTECTION						
158	ABC FIRE PROTECTION 4.5 KG	REPUTED	12	NO'S	₹ 2,722	₹ 32,663
159	CO2 FIRE PROTECTION 4.5 KG	REPUTED	12	NO'S	₹ 5,917	₹ 71,006
160	FIRE SAND BUCKETS WITH 2 BUCKET EACH WITH STAND	REPUTED	12	NO'S	₹ 1,893	₹ 22,722
161	FIRST AID BOX AS PER BOCW ACT	REPUTED	12	NO'S	₹ 5,917	₹ 71,006
CABLE TIE						
162	CABLE TIE 100 UV RESISTANT BLACK 100PCS PACKET	KSS/SUPERFLEX	60	PACKET	₹ 178	₹ 10,651
163	CABLE TIE 200 UV RESISTANT BLACK 100PCS PACKET	KSS/SUPERFLEX	60	PACKET	₹ 237	₹ 14,201
SAFETY TAGS						
164	SHOCK TREATMENT CHART, SAFETY CHARTS	REPUTED	11	NO'S	₹ 592	₹ 6,509
165	DO'S & DON'TS CHARTS	REPUTED	11	NO'S	₹ 355	₹ 3,905
166	HEAT SHRINKABLE SLEEVE (AS PER CABLE SIZE COLLUR)	REPUTED	11	NO'S	₹ 355	₹ 3,905
167	CAUTION DANGER BOARD	REPUTED	11	NO'S	₹ 592	₹ 6,509
168	RUBBER MAT FOR INVERTER & ACDB	REPUTED	18	NO'S	₹ 1,775	₹ 31,953
169	SOLAR CABLE FERULES WITH AL TAG	REPUTED	11	NO'S	₹ 592	₹ 6,509
170	AC CABLE FERULES WITH AL TAG	REPUTED	11	NO'S	₹ 592	₹ 6,509
171	INSULATION TAP	REPUTED	3	NO'S	₹ 59	₹ 178
172	PLANT DISPLAY BOARD	REPUTED	1	NO'S	₹ 10,059	₹ 10,059
INSTALLATION WORK						
173	MS STAND FOR INVERTER MOUNTING	LOCAL	11	SET	₹ 3,550	₹ 39,053
174	MS STAND FOR ACDB MOUNTING	LOCAL	9	SET	₹ 3,550	₹ 31,953
175	ACCESS LADDER	LOCAL	6	SET	₹ 35,503	₹ 213,018
176	DOOR & LOCK REPAIR	LOCAL	6	SET	₹ 2,959	₹ 17,751



Maharaja Suheldev Autonomous State Medical College Bahraich			DC Solar Capacity (kWp) 928			
Medical Hosp. Bahraich 928						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
177	INV & ACDB CAGE	LOCAL	20	SET	₹ 11,834	₹ 236,686
						₹ 26,494,800
	INSTALLATION & COMMISSIONING					
1	INSTALLATION & COMMISSIONING OF RCC ROOF		928	KWp	₹ 2,700	₹ 2,505,600
2	M25 GRADE RCC FOUNDATION FOR RCC ROOF					
3	M25 GRADE RCC FOUNDATION FOR RCC ROOF (Raised structure)		928	NO'S	₹ 1,183	₹ 1,098,225
4	CIVIL FOR BLAST TYPE			NO'S	₹ 1,300	-
5	NitoBond		103.11	LTR	₹ 1,065	₹ 109,822
6	Other Services		1.00	LTR	₹ 41,420	₹ 41,420
	TOTAL OF I&C					₹ 3,755,067
	APPROVALS_LT SIDE					
1	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (= <500 kWp)					
2	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (500 - 900 kWp)					
3	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (>=900 kWp)		928	KWp		₹ 329,467
4	NET METERING- METER HARDWARE (<500 kWp)					
5	NET METERING- METER HARDWARE (500 - 900 kWp)					
6	NET METERING- METER HARDWARE (> 900 kWp)		928	KWp		₹ 549,112
	TOTAL OF APPROVAL					₹ 878,579
	OPTIONAL ITEM					
1	Spreader / Modification charges in existing panel	REPUTED		NO'S	As per Actual Cost	
2	UPS 500 VA WITH 30 MINS BACKUP WITH BATTERY	REPUTED		NO'S	₹ 2,604	
3	MFM SCHNIEDER EM6400 NG	REPUTED		NO'S	₹ 8,796	
4	DG Synch Controller	REPUTED		NO'S	As per Actual Cost	
5	Any other Item as may be required by DMC			NO'S	As per Actual Cost	
6	Transportation					₹ 96,667
Total amount						₹ 31,225,113



ANNEXURE B3 - Maharaishi Vashishtha Autonomous State Medical College, Basti			DC Solar Capacity (kWp) 373.52			
Basti 373.52						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
	MODULE					
1	MODULE-580 WP, N-TYPE BIFACIAL MODULE	PANASONIC/JAKSON	644	NO'S	₹ 8,678	₹ 5,588,793
	INVERTER					
2	STRING INVERTER 20 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 93,678	₹ -
3	STRING INVERTER 25 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 96,741	₹ -
4	STRING INVERTER 30 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 131,502	₹ -
5	STRING INVERTER 40 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI	2	NO'S	₹ 156,247	₹ 312,493
6	STRING INVERTER 50 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 170,622	₹ -
7	STRING INVERTER 60 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 178,989	₹ -
8	STRING INVERTER 70 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 242,737	₹ -
9	STRING INVERTER 80 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI	3	NO'S	₹ 248,747	₹ 746,240
10	STRING INVERTER 100 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 294,466	₹ -
11	STRING INVERTER 110 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 303,333	₹ -
12	STRING INVERTER 125 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 314,740	₹ -
	STEEL STRUCTURE					
13	MS HDGI Module mounting structure Struture with minimum 80 micron coating for 500 mm clearance.	JAKSON/REPUTED	8778	KG	₹ 100	₹ 877,772
14	J BOLT	JAKSON/REPUTED	1526	No	₹ 77	₹ 117,502
15	J BOLT/Anchor	JAKSON/REPUTED	0	No	₹ 130	₹ -
16	Blast Type Structure	JAKSON/REPUTED	0	KG	₹ 3,550	₹ -
	FASTNERS					
17	Fastners, Washers & Others (Anti-theft bolt)	REPUTED	374	KWp	₹ 370	₹ 138,202
	BOS					
	DC CABLE					
18	CABLE 1CX4 SQMM CU. XLPO/XLPE	POLYCAB/KEI/APAR	5796	METERS	₹ 43	₹ 250,360
19	CABLE 1CX 6 SQMM CU. XLPO/XLPE	POLYCAB/KEI/APAR	0	METERS	₹ 69	₹ -
	AC CABLE COPPER FRLS					
20	2C x 2.5 SQMM XLPE INSULATED FLEXIBLE CABLE	KEI/POLYCAB	320	METERS	₹ 71	₹ 22,665
	AC CABLE ALUMINIUM FRLS OUTER SHEATH					
21	3.5C x 25 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 189	₹ -
22	3.5C x 35 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	50	METERS	₹ 239	₹ 11,951
23	3.5C x 50 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 324	₹ -
24	3.5C x 70 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	200	METERS	₹ 436	₹ 87,191
25	3.5C x 95 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	150	METERS	₹ 545	₹ 81,676
26	3.5C x 120 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 682	₹ -



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**Maharishi Vashishtha Autonomous State Medical College,
Basti**

DC Solar Capacity (kWp) 373.52

Basti 373.52						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
27	3.5C x 150 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	20	METERS	₹ 808	₹ 16,165
28	3.5C x 185 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,023	₹ -
29	3.5C x 240 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,285	₹ -
30	3.5C x 300 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,581	₹ -
31	3.5C x 400 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 2,020	₹ -
32	4C x 16SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 161	₹ -
33	4C x 25 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 202	₹ -
34	4 C x 35 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 272	₹ -
35	4C x 50 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 364	₹ -
36	4C x 70 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 494	₹ -
37	4C x 95 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 617	₹ -
38	4C x 120 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 752	₹ -
39	4C x 150 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 924	₹ -
40	4C x 185 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,137	₹ -
41	4C x 240 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,468	₹ -
42	4C x 300 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,810	₹ -
43	4C x 400 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 2,327	₹ -
EARTHING CABLE						
44	1C x 4 SQMM CU PVC INSULATED	KEI/POLYCAB	239	METERS	₹ 44	₹ 10,516
45	1C x 6 SQMM CU PVC INSULATED	KEI/POLYCAB		METERS	₹ 65	₹ -
46	1C x 25 SQMM CU PVC INSULATED	KEI/POLYCAB	3	METERS	₹ 357	₹ 1,071
47	1C x 35 SQMM CU PVC INSULATED	KEI/POLYCAB		METERS	₹ 490	₹ -
48	1C x 50 SQMM CU PVC INSULATED	KEI/POLYCAB	24	METERS	₹ 684	₹ 16,419
49	1C x 70 SQMM CU PVC INSULATED	KEI/POLYCAB		METERS	₹ 940	₹ -
COMMUNICATION CABLE						
50	RS 485 CABLE 0.75 MM ,ANNEALED TIN COPPER 2 CORE TWISTED	POLYCAB/BELDEN	600	METERS	₹ 166	₹ 99,408
PANEL						
51	ACDB PANEL 20 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
52	ACDB PANEL 25 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
53	ACDB PANEL 30 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
54	ACDB PANEL 40 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	2	NO'S	₹ 70,414	₹ 140,828
55	ACDB PANEL 50 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
56	ACDB PANEL 60 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 76,923	₹ -
57	ACDB PANEL 70 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 79,882	₹ -
58	ACDB PANEL 80 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	3	NO'S	₹ 79,882	₹ 239,645



Maharishi Vashishtha Autonomous State Medical College, Basti						
DC Solar Capacity (kWp) 373.52						
Basti 373.52						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
59	ACDB PANEL 100 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 86,509	₹ -
60	ACDB PANEL 110 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 89,586	₹ -
61	ACDB PANEL 125 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 89,586	₹ -
62	ACDB PANEL 200 KW (100+100) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 170,296	₹ -
63	ACDB PANEL 120 KW (40+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 146,982	₹ -
64	ACDB PANEL 140 KW (60+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 165,680	₹ -
65	ACDB PANEL 150 KW (70+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 167,811	₹ -
66	ACDB PANEL 220 KW (70+70+80) 415 V (3 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 217,278	₹ -
67	ACDB PANEL 220 KW (50+50+80+40) 415 V (4 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 217,278	₹ -
68	ACDB PANEL 80 KW (40+40) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 127,101	₹ -
69	ENERGY METER(Premier 300, Class 0.5)	REPUTED		NO'S	₹ 29,586	₹ -
70	ACDB PANEL 4 in 1 out (50+50+100+40)KW	REPUTED		NO'S	₹ 218,935	₹ -
REMOTE MONITORING SYSTEM						
	REMOTE MONITORING SYSTEM	Power AMR/Equivalent				
71	4G based Plug and Play - RTU, Smart data logger with antenna to connect upto 4 inverters/ MFIM/ Sensors on modbus RS485 RTU • modbus RS485 RTU- 1 port • 2 digital / analog ports (0 to 5 V) • 1 analog port (4 -20 m amp) • Built in memory help store and send data in case of network failure	E Track 4G Lite	2	NO'S	₹ 16,568	₹ 33,136
72	RS485 Communication SPD citel make (optional)	Citel -DLA-06-D3	2	NO'S	₹ 2,130	₹ 4,260
73	Line SPD citel make (optional)	Citel- DS-240-320	2	NO'S	₹ 3,314	₹ 6,627
74	IP67 enclosure box along with SMPS power supply, glands and fitment in one unit to house the data logge	Boxomatic/ ERD	1	NO'S	₹ 3,550	₹ 3,550
75	Access to Web portal- per MW per annum Data frequency - 10 minute Key Components • Interactive Dashboard • Single Line Diagram • PR analysis • Solar radiation & weather data • Graphs and Reports • Generation Analysis • Log Reporting • String/ MPPT Monitoring • Plant/ Inverter Performance • Superuser Dashboard for Centralized monitoring • Mobile app on android	PowerAMR	1	NO'S	₹ 15,621	₹ 15,621
76	Solar Radiation Sensor with mounting kit	Pyra300	1	NO'S	₹ 15,385	₹ 15,385
77	RS 485 CABLE 0.75 MM ,ANNEALED TIN COPPER 2 CORE TWISTED	POLYCAB/BELDEN		RM	₹ 185	₹ -

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**Maharishi Vashishtha Autonomous State Medical College,
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DC Solar Capacity (kWp) 373.52

S.NO		COMPONENTS		Basti 373.52				
				MAKE'S	Qty	UOM	Unit Rate	Amount
78		UPVC CONDUIT FOR CABLE 20 MM DIA		SUPREME		RM	₹ 112	₹ -
79		2C x 2.5 SQMM XLPE INSULATED FLEXIBLE CABLE with lugs		KEI/POLYCAB		RM	₹ 41	₹ -
80		1C x 4 SQMM CU PVC INSULATED		KEI/POLYCAB		RM	₹ 21	₹ -
81		Installation and Commissioning		KEI/POLYCAB	1	Job	₹ 5,917	₹ 5,917
		CABLE TRAY						
82		50X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & CLAMP		REPUTED	200	METERS	₹ 368	₹ 73,680
83		75X75X 1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & CLAMP		REPUTED	100	METERS	₹ 547	₹ 54,675
84		100X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP		REPUTED		METERS	₹ 449	₹ -
85		100X75X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP		REPUTED		METERS	₹ 531	₹ -
86		150X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP		REPUTED		METERS	₹ 592	₹ -
87		150X75X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP		REPUTED		METERS	₹ 687	₹ -
88		200X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP		REPUTED		METERS	₹ 736	₹ -
89		200X75X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP		REPUTED		METERS	₹ 950	₹ -
90		300X75X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP		REPUTED		METERS	₹ 1,287	₹ -
91		300X100X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP		REPUTED		METERS	₹ 1,390	₹ -
		LIGHTING PROTECTION						
92		ESE TYPE LA RADIUS 50 m		REPUTED		NO'S	₹ 29,231	₹ -
93		ESE TYPE LA RADIUS 70 m		REPUTED		NO'S	₹ 29,793	₹ -
94		ESE TYPE LA RADIUS 90 m		REPUTED		NO'S	₹ 30,355	₹ -
95		ESE TYPE LA RADIUS 107 m		REPUTED	2	NO'S	₹ 31,479	₹ 62,959
96		5 METER MAST		REPUTED	2	NO'S	₹ 5,917	₹ 11,834
97		LIGHTENING STRIKE COUNTER		REPUTED	2	NO'S	₹ 5,917	₹ 11,834
		EARTHING						
98		EARTH ROD CONSISTING OF HIGH TENSILE LOW CARBON STEEL WITH ELECTROLYTIC GRADE 250MM COPPER COATING. ROD DIA 17.2MM		REPUTED	24	NO'S	₹ 1,893	₹ 45,444
99		EARTH ENHANCE COMPOUND		REPUTED	24	SET	₹ 592	₹ 14,201
100		EARTHING PIT CHAMBER PRE CAST		REPUTED	24	SET	₹ 592	₹ 14,201
101		25X3 G.I STRIP GALVANISED		REPUTED	870	METERS	₹ 65	₹ 56,627
102		25X6 G.I STRIP GALVANISED		REPUTED	600	METERS	₹ 97	₹ 58,225
103		50X3 G.I STRIP GALVANISED		REPUTED	0	METERS	₹ 97	₹ -
104		50X6 G.I STRIP GALVANISED		REPUTED	0	METERS	₹ 260	₹ -
105		INSULATOR FOR GI STRIP		REPUTED	294	NO'S	₹ 12	₹ 3,479
106		M8 X 25 with nut & washer		REPUTED	490	NO'S	₹ 9	₹ 4,639
		C CLASS						
		GLANDS						
107		4CX16SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION		DOWEL/COMMET		NO'S	₹ 408	₹ -
108		4CX25 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION		DOWEL/COMMET		NO'S	₹ 408	₹ -
109		4CX35 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION		DOWEL/COMMET	8	NO'S	₹ 495	₹ 3,962
110		4CX50 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION		DOWEL/COMMET	0	NO'S	₹ 728	₹ -
111		4CX70 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION		DOWEL/COMMET	8	NO'S	₹ 880	₹ 7,037
112		4CX95SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION		DOWEL/COMMET	8	NO'S	₹ 1,054	₹ 8,428
113		4CX120 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION		DOWEL/COMMET	0	NO'S	₹ 1,054	₹ -

**Maharishi Vashishtha Autonomous State Medical College,
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DC Solar Capacity (kWp) 373.52

Basti 373.52						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
114	4CX150SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	4	NO'S	₹ 1,243	₹ 4,974
115	4CX185SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 1,396	₹ -
116	4CX240SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 2,106	₹ -
117	4CX 300SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 2,446	₹ -
118	4CX 300SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 2,446	₹ -
119	4CX 400SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 2,663	₹ -
LUGS						
120	LUGS RING TYPE 4 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	1327	NO'S	₹ 5.4	₹ 7,145
121	LUGS RING TYPE 4CX16 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 19	₹ -
122	LUGS RING TYPE 1X25 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	3	NO'S	₹ 26	₹ 79
123	LUGS RING TYPE 1X50 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0		₹ 34	₹ -
124	LUGS RING TYPE 4CX25 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0		₹ 26	₹ -
125	LUGS RING TYPE 4CX35 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	32	NO'S	₹ 32	₹ 1,014
126	LUGS RING TYPE 4CX50 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	12	NO'S	₹ 48	₹ 573
127	LUGS RING TYPE 4CX70 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	32	NO'S	₹ 19	₹ 599
128	LUGS RING TYPE 4CX95 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	32	NO'S	₹ 93	₹ 2,986
129	LUGS RING TYPE 4CX120 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 136	₹ -
130	LUGS RING TYPE 4CX150 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	16	NO'S	₹ 170	₹ 2,713
131	LUGS RING TYPE 4CX185 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 215	₹ -
132	LUGS RING TYPE 4CX240 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 338	₹ -
133	LUGS RING TYPE 4CX 300 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0		₹ 431	₹ -
134	LUGS RING TYPE 4CX 400 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 500	₹ -
135	M4X20 with two plain washer and nut	DOWEL/COMMET	1327	NO'S	₹ 7	₹ 9,422
CONNECTORS						
136	MULTICONTACT MC4 CONNECTOR FOR 4 MM2 (FEMALE)	MC/BIZILINK/SABULI/ELCOM	108	NO'S	₹ 50	₹ 5,368
137	MULTICONTACT MC4 CONNECTOR FOR 4 MM2 (MALE)	MC/BIZILINK/SABULI/ELCOM	108	NO'S	₹ 50	₹ 5,368
CONDUIT						
138	G.I. NILON COAT FLEXIBLE CONDUIT 32 MM DIA	SUPREME		METERS	₹ 36	₹ -
139	HDPE CONDUIT 25 MM DIA, SMOKE GREY	SUPREME		METERS	₹ 30	₹ -
140	UPVC CONDUIT FOR CABLE 20 MM DIA	SUPREME	1025	METERS	₹ 24	₹ 24,260
141	UPVC CONDUIT FOR CABLE 40 MM DIA	SUPREME	223	METERS	₹ 47	₹ 10,556
142	CLAMP	SUPREME	653	Nos	₹ 14	₹ 9,273
PLUMBING SYSTEM FOR SOLAR PLANT						
143	UPVC PIPE 25MM SCH80	PRINCE/ASTRA/PLASTO/SUPREME	550	METERS	₹ 139	₹ 76,609



**Maharishi Vashishtha Autonomous State Medical College,
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DC Solar Capacity (kWp) 373.52

Basti 373.52						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
144	UPVC PIPE 20MM SCH80	PRINCE/ASTRA/PLASTO/SUP REME	75	METERS	₹ 101	₹ 7,567
145	UPVC ELBOW 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	32	METERS	₹ 23	₹ 750
146	UPVC END CAP 20MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	32	METERS	₹ 12	₹ 396
147	UPVC TEE 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	32	METERS	₹ 31	₹ 1,000
148	UPVC UNION 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	32	METERS	₹ 51	₹ 1,625
149	UPVC COUPLER 25 MM SCH40	PRINCE/ASTRA/PLASTO/SUP REME	32	METERS	₹ 16	₹ 500
150	REDUCING TEE 2X25XX20 SH40	PRINCE/ASTRA/PLASTO/SUP REME	32	METERS	₹ 31	₹ 1,000
151	HOSE FOR MODULE CLEANING WITH SPRAY GUN	PRINCE/ASTRA/PLASTO/SUP REME	8	METERS	₹ 101	₹ 807
152	BALL VALVE 20MM BRASS	PRINCE/ASTRA/PLASTO/SUP REME	32	METERS	₹ 199	₹ 6,373
153	Telescopic Wiper	REPUTED	1	METERS	₹ 5,917	₹ 5,917
154	WATER TANK OF 1KL	REPUTED	1	METERS	₹ 11,834	₹ 11,834
155	WATER METER (0-100LPM) ANALOG TYPE	REPUTED	5	METERS	₹ 2,959	₹ 14,793
156	MONOBLOCK 1 HP PUMP WITH FITTING AND WIRE	SHAKTI/Kirloskar	5	NO'S	₹ 7,101	₹ 35,503
157	MONOBLOCK 1.5 HP PUMP WITH FITTING AND WIRE	SHAKTI/Kirloskar	0	NO'S	₹ 10,059	₹ -
FIRE PROTECTION						
158	ABC FIRE PROTECTION 4.5 KG	REPUTED	5	NO'S	₹ 2,722	₹ 13,609
159	CO2 FIRE PROTECTION 4.5 KG	REPUTED	5	NO'S	₹ 5,917	₹ 29,586
160	FIRE SAND BUCKETS WITH 2 BUCKET EACH WITH STAND	REPUTED	5	NO'S	₹ 1,893	₹ 9,467
161	FIRST AID BOX AS PER BOCW ACT	REPUTED	3	NO'S	₹ 5,917	₹ 17,751
CABLE TIE						
162	CABLE TIE 100 UV RESISTANT BLACK 100PCS PACKET	KSS/SUPERFLEX	25	PACKET	₹ 178	₹ 4,438
163	CABLE TIE 200 UV RESISTANT BLACK 100PCS PACKET	KSS/SUPERFLEX	25	PACKET	₹ 237	₹ 5,917
SAFETY TAGS						
164	SHOCK TREATMENT CHART, SAFETY CHARTS	REPUTED	5	NO'S	₹ 592	₹ 2,959
165	DO'S & DON'TS CHARTS	REPUTED	5	NO'S	₹ 355	₹ 1,775
166	HEAT SHRINKABLE SLEEVE (AS PER CABLE SIZE COLUR)	REPUTED	5	NO'S	₹ 355	₹ 1,775
167	CAUTION DANGER BOARD	REPUTED	5	NO'S	₹ 592	₹ 2,959
168	RUBBER MAT FOR INVERTER & ACDB	REPUTED	5	NO'S	₹ 1,775	₹ 8,876
169	SOLAR CABLE FERULES WITH AL TAG	REPUTED	5	NO'S	₹ 592	₹ 2,959
170	AC CABLE FERULES WITH AL TAG	REPUTED	25	NO'S	₹ 592	₹ 14,793
171	INSULATION TAP	REPUTED	5	NO'S	₹ 59	₹ 296
172	PLANT DISPLAY BOARD	REPUTED	1	NO'S	₹ 10,059	₹ 10,059
INSTALLATION WORK						
173	MS STAND FOR INVERTER MOUNTING	LOCAL	5	SET	₹ 3,550	₹ 17,751
174	MS STAND FOR ACDB MOUNTING	LOCAL	5	SET	₹ 3,550	₹ 17,751
175	ACCESS LADDER	LOCAL	2	SET	₹ 35,503	₹ 71,006
176	DOOR & LOCK REPAIR	LOCAL	5	SET	₹ 2,959	₹ 14,793



Maharishi Vashishtha Autonomous State Medical College, Basti				DC Solar Capacity (kWp) 373.52		
Basti 373.52						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
177	INV & ACDB CAGE	LOCAL	10	SET	₹ 11,834	₹ 118,343
						₹ 9,890,490
	INSTALLATION & COMMISSIONING					
1	INSTALLATION & COMMISSIONING OF RCC ROOF		374	KWp	₹ 2,700	₹ 1,008,504
2	M25 GRADE RCC FOUNDATION FOR RCC ROOF		374	NO'S	₹ 888	₹ 331,953
3	M25 GRADE RCC FOUNDATION FOR RCC ROOF (Raised structure)					
4	CIVIL FOR BLAST TYPE		-	NO'S	₹ 1,300	-
5	NitoBond		41.50	LTR	₹ 1,065	₹ 44,201
6	Other Services		1.00	LTR	₹ 41,420	₹ 41,420
	TOTAL OF I&C					₹ 1,426,078
	APPROVALS LT SIDE					
1	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (≤ 500 kWp)		1	KWp		₹ 177,515
2	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (500 - 900 kWp)					
3	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (> 900 kWp)					
4	NET METERING- METER HARDWARE (<500 kWp)		1	KWp		₹ 295,858
5	NET METERING- METER HARDWARE (500 - 900 kWp)					
6	NET METERING- METER HARDWARE (> 900 kWp)					
	TOTAL OF APPROVAL					₹ 473,373
	OPTIONAL ITEM					
1	Spreader / Modification charges in existing panel	REPUTED		NO'S	As per Actual Cost	
2	UPS 500 VA WITH 30 MINS BACKUP WITH BATTERY	REPUTED		NO'S	₹ 2,604	
3	MFM SCHNIEDER EM6400 NG	REPUTED		NO'S	₹ 8,796	
4	DG Synch Controller	REPUTED		NO'S	As per Actual Cost	
5	Any other Item as may be required by OMC			NO'S	As per Actual Cost	
6	Transportation					₹ 133,333
Total amount						₹ 11,923,275



**ANNEXURE B3 - Maharaishi Vashishtha Autonomous State
Medical College, Basti**

DC Solar Capacity (kWp) 726.16

Kaili Basti 726.16

S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
MODULE						
1	MODULE-580 WP, N-TYPE BIFACIAL MODULE	PANASONIC/JAKSON	1252	NO'S	₹ 8,678	₹ 10,865,169
INVERTER						
2	STRING INVERTER 20 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 93,678	₹ -
3	STRING INVERTER 25 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 96,741	₹ -
4	STRING INVERTER 30 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 131,502	₹ -
5	STRING INVERTER 40 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 156,247	₹ -
6	STRING INVERTER 50 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI	3	NO'S	₹ 170,622	₹ 511,867
7	STRING INVERTER 60 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 178,989	₹ -
8	STRING INVERTER 70 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI	1	NO'S	₹ 242,737	₹ 242,737
9	STRING INVERTER 80 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI	4	NO'S	₹ 248,747	₹ 994,987
10	STRING INVERTER 100 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI	1	NO'S	₹ 294,466	₹ 294,466
11	STRING INVERTER 110 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 303,333	₹ -
12	STRING INVERTER 125 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 314,740	₹ -
STEEL STRUCTURE						
13	MS HDGI Module mounting structure Struture with minimum 80 micron coating for 500 mm clearance.	JAKSON/REPUTED	17072	KG	₹ 100	₹ 1,707,202
14	J BOLT	JAKSON/REPUTED	2865	No	₹ 77.00	₹ 220,605
15	J BOLT/Anchor	JAKSON/REPUTED	0	No	₹ 130	₹ -
16	Blast Type Structure	JAKSON/REPUTED	0	KG	₹ 3,550	₹ -
FASTNERS						
17	Fastners, Washers & Others (Anti-theft bolt)	REPUTED	726	KWp	₹ 370	₹ 263,034
BOS						
DC CABLE						
18	CABLE 1CX4 SQMM CU. XLPO/XLPE	POLYCAB/KEI/APAR	11268	METERS	₹ 43	₹ 486,724
19	CABLE 1CX 6 SQMM CU. XLPO/XLPE	POLYCAB/KEI/APAR	0	METERS	₹ 69	₹ -
AC CABLE COPPER FRLS						
20	2C x 2.5 SQMM XLPE INSULATED FLEXIABLE CABLE	KEI/POLYCAB	250	METERS	₹ 71	₹ 17,707
AC CABLE ALUMINIUM FRLS OUTER SHEATH						
21	3.5C x 25 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 189	₹ -
22	3.5C x 35 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 239	₹ -
23	3.5C x 50 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 324	₹ -
24	3.5C x 70 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	250	METERS	₹ 436	₹ 108,989
25	3.5C x 95 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	100	METERS	₹ 545	₹ 54,451
26	3.5C x 120 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	100	METERS	₹ 682	₹ 68,194



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Maharaishi Vashishtha Autonomous State Medical College, Basti

DC Solar Capacity (kWp) 726.16

Kaili Basti 726.16

S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
27	3.5C x 150 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	200	METERS	₹ 808	₹ 161,648
28	3.5C x 185 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,023	₹ -
29	3.5C x 240 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,285	₹ -
30	3.5C x 300 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,581	₹ -
31	3.5C x 400 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 2,020	₹ -
32	4C x 16SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 161	₹ -
33	4C x 25 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 202	₹ -
34	4 C x 35 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 272	₹ -
35	4C x 50 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 364	₹ -
36	4C x 70 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 494	₹ -
37	4C x 95 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 617	₹ -
38	4C x 120 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 752	₹ -
39	4C x 150 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 924	₹ -
40	4C x 185 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,137	₹ -
41	4C x 240 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,468	₹ -
42	4C x 300 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,810	₹ -
43	4C x 400 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 2,327	₹ -
EARTHING CABLE						
44	1C x 4 SQMM CU PVC INSULATED	KEI/POLYCAB	513	METERS	₹ 44	₹ 22,572
45	1C x 6 SQMM CU PVC INSULATED	KEI/POLYCAB		METERS	₹ 65	₹ -
46	1C x 25 SQMM CU PVC INSULATED	KEI/POLYCAB	12	METERS	₹ 357	₹ 4,285
47	1C x 35 SQMM CU PVC INSULATED	KEI/POLYCAB		METERS	₹ 490	₹ -
48	1C x 50 SQMM CU PVC INSULATED	KEI/POLYCAB	23	METERS	₹ 684	₹ 15,735
49	1C x 70 SQMM CU PVC INSULATED	KEI/POLYCAB		METERS	₹ 940	₹ -
COMMUNICATION CABLE						
50	RS 485 CABLE 0.75 MM ,ANNEALED TIN COPPER 2 CORE TWISTED	POLYCAB/BELDEN	1150	METERS	₹ 166	₹ 190,533
PANEL						
51	ENERGY METER(Premier 300, Class 0.5)	REPUTED		NO'S	₹ 70,414	₹ -
52	ACDB PANEL 25 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
53	ACDB PANEL 30 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
54	ACDB PANEL 40 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
55	ACDB PANEL 50 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	3	NO'S	₹ 70,414	₹ 211,242
56	ACDB PANEL 60 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 76,923	₹ -
57	ACDB PANEL 70 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	1	NO'S	₹ 79,882	₹ 79,882
58	ACDB PANEL 80 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	4	NO'S	₹ 79,882	₹ 319,527



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S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
59	ACDB PANEL 100 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	1	NO'S	₹ 86,509	₹ 86,509
60	ACDB PANEL 110 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 89,586	₹ -
61	ACDB PANEL 125 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 89,586	₹ -
62	ACDB PANEL 200 KW (100+100) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 170,296	₹ -
63	ACDB PANEL 120 KW (40+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 146,982	₹ -
64	ACDB PANEL 140 KW (60+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 165,680	₹ -
65	ACDB PANEL 150 KW (70+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 167,811	₹ -
66	ACDB PANEL 220 KW (70+70+80) 415 V (3 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 217,278	₹ -
67	ACDB PANEL 220 KW (50+50+80+40) 415 V (4 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 217,278	₹ -
68	ACDB PANEL 80 KW (40+40) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 127,101	₹ -
69	ENERGY METER(Premier 300, Class 0.2)	REPUTED	9	NO'S	₹ 29,586	₹ 266,272
70	ACDB PANEL 4 in 1 out (50+50+100+40)KW	REPUTED		NO'S	₹ 218,935	₹ -
	REMOTE MONORTING SYSTEM					
	REMOTE MONORTING SYSTEM	Power AMR/Equivalent				
71	4G based Plug and Play - RTU, Smart data logger with antenna to connect upto 4 inverters/ MFM/ Sensors on modbus RS485 RTU • modbus RS485 RTU- 1 port • 2 digital / analog ports (0 to 5 V) • 1 analog port (4 -20 m amp) • Built in memory help store and send data in case of network failure	E Track 4G Lite	2	NO'S	₹ 16,568	₹ 33,136
72	RS485 Communication SPD citel make (optional)	Citel -DLA-06-D3	2	NO'S	₹ 2,130	₹ 4,260
73	Line SPD citel make (optional)	Citel- DS-240-320	2	NO'S	₹ 3,314	₹ 6,627
74	IP67 enclosure box along with SMPS power supply, glands and fitment in one unit to house the data logge	Boxomatic/ ERD	1	NO'S	₹ 3,550	₹ 3,550
75	Access to Web portal- per MW per annum Data frequency – 10 minute Key Components • Interactive Dashboard • Single Line Diagram • PR analysis • Solar radiation & weather data • Graphs and Reports • Generation Analysis • Log Reporting • String/ MPPT Monitoring • Plant/ Inverter Performance • Superuser Dashboard for Centralized monitoring • Mobile app on android	PowerAMR	1	NO'S	₹ 15,621	₹ 15,621
76	Solar Radiation Sensor with mounting kit	Pyra300	1	NO'S	₹ 15,385	₹ 15,385
77	RS 485 CABLE 0.75 MM ,ANNEALED TIN COPPER 2 CORE TWISTED	POLYCAB/BELDEN		RM	₹ 185	₹ -



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S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
78	UPVC CONDUIT FOR CABLE 20 MM DIA	SUPREME		RM	₹ 112	₹ -
79	2C x 2.5 SQMM XLPE INSULATED FLEXIBLE CABLE with lugs	KEI/POLYCAB		RM	₹ 41	₹ -
80	1C x 4 SQMM CU PVC INSULATED	KEI/POLYCAB		RM	₹ 21	₹ -
81	Installation and Commissioning	KEI/POLYCAB	1	Job	₹ 5,917	₹ 5,917
CABLE TRAY						
82	50X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & CLAMP	REPUTED	375	METERS	₹ 368	₹ 138,151
83	75X75X 1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & CLAMP	REPUTED	270	METERS	₹ 547	₹ 147,621
84	100X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED		METERS	₹ 449	₹ -
85	100X75X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED		METERS	₹ 531	₹ -
86	150X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED		METERS	₹ 592	₹ -
87	150X75X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED		METERS	₹ 687	₹ -
88	200X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED		METERS	₹ 736	₹ -
89	200X75X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED		METERS	₹ 950	₹ -
90	300X75X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED		METERS	₹ 1,287	₹ -
91	300X100X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED		METERS	₹ 1,390	₹ -
LIGHTING PROTECTION						
92	ESE TYPE LA RADIUS 50 m	REPUTED		NO'S	₹ 29,231	₹ -
93	ESE TYPE LA RADIUS 70 m	REPUTED		NO'S	₹ 29,793	₹ -
94	ESE TYPE LA RADIUS 90 m	REPUTED		NO'S	₹ 30,355	₹ -
95	ESE TYPE LA RADIUS 107 m	REPUTED	2	NO'S	₹ 31,479	₹ 62,959
96	5 METER MAST	REPUTED	2	NO'S	₹ 5,917	₹ 11,834
97	LIGHTENING STRIKE COUNTER	REPUTED	2	NO'S	₹ 5,917	₹ 11,834
EARTHING						
98	EARTH ROD CONSISTING OF HIGH TENSILE LOW CARBON STEEL WITH ELECTROLYTIC GRADE 250MM COPPER COATING, ROD DIA 17.2MM	REPUTED	36	NO'S	₹ 1,893	₹ 68,166
99	EARTH ENHANCE COMPOUND	REPUTED	36	SET	₹ 592	₹ 21,302
100	EARTHING PIT CHAMBER PRE CAST	REPUTED	36	SET	₹ 592	₹ 21,302
101	25X3 G.I STRIP GALVANISED	REPUTED	1270	METERS	₹ 65	₹ 82,663
102	25X6 G.I STRIP GALVANISED	REPUTED	935	METERS	₹ 97	₹ 90,734
103	50X3 G.I STRIP GALVANISED	REPUTED		METERS	₹ 97	₹ -
104	50X6 G.I STRIP GALVANISED	REPUTED		METERS	₹ 260	₹ -
105	INSULATOR FOR GI STRIP	REPUTED	441	NO'S	₹ 12	₹ 5,219
106	M8 X 25 with nut & washer	REPUTED	735	NO'S	₹ 9	₹ 6,959
C CLASS						
GLANDS						
107	4CX16SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 408	₹ -
108	4CX25 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 408	₹ -
109	4CX35 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 495	₹ -
110	4CX50 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 728	₹ -
111	4CX70 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	20	NO'S	₹ 880	₹ 17,592
112	4CX95SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	5	NO'S	₹ 1,054	₹ 5,268
113	4CX120 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	10	NO'S	₹ 1,054	₹ 10,536



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S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
114	4CX150SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	10	NO'S	₹ 1,243	₹ 12,435
115	4CX185SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 1,396	₹ -
116	4CX240SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 2,106	₹ -
117	4CX 300SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 2,446	₹ -
118	4CX 300SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 2,446	₹ -
119	4CX 400SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 2,663	₹ -
LUGS						
120	LUGS RING TYPE 4 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	2892	NO'S	₹ 5.4	₹ 15,572
121	LUGS RING TYPE 4CX16 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 19	₹ -
122	LUGS RING TYPE 1X25 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	12	NO'S	₹ 26	₹ 316
123	LUGS RING TYPE 1X50 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	15	NO'S	₹ 34	₹ 510
124	LUGS RING TYPE 4CX25 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 26	₹ -
125	LUGS RING TYPE 4CX35 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 32	₹ -
126	LUGS RING TYPE 4CX50 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 48	₹ -
127	LUGS RING TYPE 4CX70 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	92	NO'S	₹ 19	₹ 1,721
128	LUGS RING TYPE 4CX95 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	24	NO'S	₹ 93	₹ 2,240
129	LUGS RING TYPE 4CX120 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	48	NO'S	₹ 136	₹ 6,515
130	LUGS RING TYPE 4CX150 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	48	NO'S	₹ 170	₹ 8,138
131	LUGS RING TYPE 4CX185 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 215	₹ -
132	LUGS RING TYPE 4CX240 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 338	₹ -
133	LUGS RING TYPE 4CX 300 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 431	₹ -
134	LUGS RING TYPE 4CX 400 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 500	₹ -
135	M4X20 with two plain washer and nut	DOWEL/COMMET	2892	NO'S	₹ 7	₹ 20,533
CONNECTORS						
136	MULTI CONTACT MC4 CONNECTOR FOR 4 MM2 (FEMALE)	MC/BIZILINK/SABULI/ELCOM	350	NO'S	₹ 50	₹ 17,396
137	MULTI CONTACT MC4 CONNECTOR FOR 4 MM2 (MALE)	MC/BIZILINK/SABULI/ELCOM	350	NO'S	₹ 50	₹ 17,396
CONDUIT						
138	G.I NILON COAT FLEXIBLE CONDUIT 32 MM DIA	SUPREME		METERS	₹ 36	₹ -
139	HDPE CONDUIT 25 MM DIA , SMOKE GREY	SUPREME		METERS	₹ 30	₹ -
140	UPVC CONDUIT FOR CABLE 20 MM DIA	SUPREME	1470	METERS	₹ 24	₹ 34,793
141	UPVC CONDUIT FOR CABLE 40 MM DIA	SUPREME	390	METERS	₹ 47	₹ 18,462
142	CLAMP	SUPREME	710	Nos	₹ 14	₹ 10,083
PLUMBING SYSTEM FOR SOLAR PLANT						
143	UPVC PIPE 25MM SCH80	PRINCE/ASTRA/PLASTO/SUPREME	1010	METERS	₹ 139	₹ 140,683



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S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
144	uPVC PIPE 20MM SCH80	PRINCE/ASTRA/PLASTO/SUP REME	150	METERS	₹ 101	₹ 15,133
145	uPVC ELBOW 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	36	METERS	₹ 23	₹ 844
146	uPVC END CAP 20MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	36	METERS	₹ 12	₹ 445
147	uPVC TEE 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	36	METERS	₹ 31	₹ 1,125
148	uPVC UNION 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	36	METERS	₹ 51	₹ 1,828
149	uPVC COUPLER 25 MM SCH40	PRINCE/ASTRA/PLASTO/SUP REME	36	METERS	₹ 16	₹ 562
150	REDUCING TEE 2X25XX20 SH40	PRINCE/ASTRA/PLASTO/SUP REME	36	METERS	₹ 31	₹ 1,125
151	HOSE FOR MODULE CLEANING WITH SPRAY GUN	PRINCE/ASTRA/PLASTO/SUP REME	9	METERS	₹ 101	₹ 908
152	BALL VALVE 20MM BRASS	PRINCE/ASTRA/PLASTO/SUP REME	36	METERS	₹ 199	₹ 7,170
153	Telescopic Wiper	REPUTED	2	METERS	₹ 5,917	₹ 11,834
154	WATER TANK OF 1KL	REPUTED	1	METERS	₹ 11,834	₹ 11,834
155	WATER METER (0-100LPM) ANALOG TYPE	REPUTED	12	METERS	₹ 2,959	₹ 35,503
156	MONOBLOCK 1 HP PUMP WITH FITTING AND WIRE	SHAKTI/Kirloskar	12	NO'S	₹ 7,101	₹ 85,207
157	MONOBLOCK 1.5 HP PUMP WITH FITTING AND WIRE	SHAKTI/Kirloskar	0	NO'S	₹ 10,059	₹ -
FIRE PROTECTION						
158	ABC FIRE PROTECTION 4.5 KG	REPUTED	10	NO'S	₹ 2,722	₹ 27,219
159	CO2 FIRE PROTECTION 4.5 KG	REPUTED	10	NO'S	₹ 5,917	₹ 59,172
160	FIRE SAND BUCKETS WITH 2 BUCKET EACH WITH STAND	REPUTED	9	NO'S	₹ 1,893	₹ 17,041
161	FIRST AID BOX AS PER BOCW ACT	REPUTED	4	NO'S	₹ 5,917	₹ 23,669
CABLE TIE						
162	CABLE TIE 100 UV RESISTANT BLACK 100PCS PACKET	KSS/SUPERFLEX	25	PACKET	₹ 178	₹ 4,438
163	CABLE TIE 200 UV RESISTANT BLACK 100PCS PACKET	KSS/SUPERFLEX	25	PACKET	₹ 237	₹ 5,917
SAFETY TAGS						
164	SHOCK TREATMENT CHART, SAFETY CHARTS	REPUTED	10	NO'S	₹ 592	₹ 5,917
165	DO'S & DON'TS CHARTS	REPUTED	10	NO'S	₹ 355	₹ 3,550
166	HEAT SHRINKABLE SLEEVE (AS PER CABLE SIZE COLUR)	REPUTED	9	NO'S	₹ 355	₹ 3,195
167	CAUTION DANGER BOARD	REPUTED	10	NO'S	₹ 592	₹ 5,917
168	RUBBER MAT FOR INVERTER & ACDB	REPUTED	10	NO'S	₹ 1,775	₹ 17,751
169	SOLAR CABLE FERULES WITH AL TAG	REPUTED	10	NO'S	₹ 592	₹ 5,917
170	AC CABLE FERULES WITH AL TAG	REPUTED	20	NO'S	₹ 592	₹ 11,834
171	INSULATION TAP	REPUTED	10	NO'S	₹ 59	₹ 592
172	PLANT DISPLAY BOARD	REPUTED	1	NO'S	₹ 10,059	₹ 10,059
INSTALLATION WORK						
173	MS STAND FOR INVERTER MOUNTING	LOCAL	9	SET	₹ 3,550	₹ 31,953
174	MS STAND FOR ACDB MOUNTING	LOCAL	9	SET	₹ 3,550	₹ 31,953
175	ACCESS LADDER	LOCAL	2	SET	₹ 35,503	₹ 71,006
176	DOOR & LOCK REPAIR	LOCAL	5	SET	₹ 2,959	₹ 14,793



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S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
177	INV & ACDB CAGE	LOCAL	18	SET	₹ 11,834	₹ 213,018
						₹ 19,026,191
	INSTALLATION & COMMISSIONING					
1	INSTALLATION & COMMISSIONING OF RCC ROOF		726	KWp	₹ 2,700	₹ 1,960,632
2	M25 GRADE RCC FOUNDATION FOR RCC ROOF		702	NO'S	₹ 888	₹ 623,077
3						
4	CIVIL FOR BLAST TYPE		-	NO'S	₹ 1,300	-
5	NitoBond		80.68	LTR	₹ 1,065	₹ 85,931
6	Other Services		1.00	LTR	₹ 41,420	₹ 41,420
	TOTAL OF I&C					₹ 2,711,060
	APPROVALS_LT SIDE					
1	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (≤ 500 kWp)					
2	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (500 - 900 kWp)		1	KWp		₹ 264,852
3	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (> 900 kWp)					
4	NET METERING- METER HARDWARE (< 500 kWp)					
5	NET METERING- METER HARDWARE (500 - 900 kWp)		1	KWp		₹ 441,420
6	NET METERING- METER HARDWARE (> 900 kWp)					
	TOTAL OF APPROVAL					₹ 706,272
	OPTIONAL ITEM					
1	Spreader / Modification charges in existing panel	REPUTED		NO'S	As per Actual Cost	
2	UPS 500 VA WITH 30 MINS BACKUP WITH BATTERY	REPUTED		NO'S	₹ 2,604	
3	MFM SCHNIEDER EM6400 NG	REPUTED		NO'S	₹ 8,796	
4	DG Synch Controller	REPUTED		NO'S	As per Actual Cost	
5	Any other Item as may be required by OMC			NO'S	As per Actual Cost	
6	Transportation					₹ 200,000

Total amount

₹ 22,643,524



ANNEXURE B3 - Lok Bandhu Shri Raj Narayan Combined Hospital, Lucknow Lok Bandu Lucknow 521.42							DC Solar Capacity (kWp) 521.42	
S.NO	COMPONENTS MODULE	MAKE'S	Qty	UOM	Unit Rate	Amount		
1	MODULE-580 WP, N-TYPE BIFACIAL MODULE	PANASONIC/JAKSON	899	NO'S	₹ 8,678	₹ 7,801,747		
	INVERTER							
2	STRING INVERTER 20 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 93,678	₹ -		
3	STRING INVERTER 25 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 96,741	₹ -		
4	STRING INVERTER 30 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI	1	NO'S	₹ 131,502	₹ 131,502		
5	STRING INVERTER 40 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 156,247	₹ -		
6	STRING INVERTER 50 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 170,622	₹ -		
7	STRING INVERTER 60 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 178,989	₹ -		
8	STRING INVERTER 70 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 242,737	₹ -		
9	STRING INVERTER 80 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 248,747	₹ -		
10	STRING INVERTER 100 KW, 400 V GRID CONNECTED	GROWATT/SOLIS	4	NO'S	₹ 294,466	₹ 1,177,862		
11	STRING INVERTER 110 KW, 400V GRID CONNECTED	GROWATT/SOLIS		NO'S	₹ 303,333	₹ -		
12	STRING INVERTER 125 KW, 400V GRID CONNECTED	GROWATT/SOLIS		NO'S	₹ 314,740	₹ -		
	STEEL STRUCTURE							
13	MS HDGI Module mounting structure Structure with minimum 80 micron coating for 500 mm clearance.	JAKSON/REPUTED	25315	KG	₹ 100	₹ 2,531,494		
14	J BOLT	JAKSON/REPUTED	0	No	₹ 77	₹ -		
15	J BOLT/Anchor	JAKSON/REPUTED	1798	No	₹ 130	₹ 234,059		
16	Blast Type Structure	JAKSON/REPUTED	0	KG	₹ 3,550	₹ -		
	FASTNERS							
17	Fastners, Washers & Others (Anti-theft bolt)	REPUTED	521	KWp	₹ 370	₹ 192,925		
	BOS							
	DC CABLE							
18	CABLE 1CX4 SQMM CU. XLPO/XLPE	POLYCAB/KEI/APAR	8091	METERS	₹ 43	₹ 349,493		
19	CABLE 1CX 6 SQMM CU. XLPO/XLPE	POLYCAB/KEI/APAR	0	METERS	₹ 69	₹ -		
	AC CABLE COPPER FRLS							
20	2C x 2.5 SQMM XLPE INSULATED FLEXIABLE CABLE	KEI/POLYCAB	300	METERS	₹ 71	₹ 21,249		
	AC CABLE ALUMINIUM FRLS OUTER SHEATH							
21	3.5C x 25 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	40	METERS	₹ 189	₹ 7,557		
22	3.5C x 35 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	20	METERS	₹ 239	₹ 4,781		
23	3.5C x 50 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 324	₹ -		
24	3.5C x 70 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 436	₹ -		
25	3.5C x 95 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 545	₹ -		
26	3.5C x 120 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	190	METERS	₹ 682	₹ 129,569		



Lok Bandhu Shri Raj Narayan Combined Hospital, Lucknow

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Lok Bandhu Lucknow 521.42						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
27	3.5C x 150 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 808	₹ -
28	3.5C x 185 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,023	₹ -
29	3.5C x 240 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,285	₹ -
30	3.5C x 300 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	30	METERS	₹ 1,581	₹ 47,430
31	3.5C x 400 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 2,020	₹ -
32	4C x 16SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 161	₹ -
33	4C x 25 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 202	₹ -
34	4 C x 35 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 272	₹ -
35	4C x 50 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 364	₹ -
36	4C x 70 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 494	₹ -
37	4C x 95 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 617	₹ -
38	4C x 120 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 752	₹ -
39	4C x 150 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 924	₹ -
40	4C x 185 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,137	₹ -
41	4C x 240 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,468	₹ -
42	4C x 300 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,810	₹ -
43	4C x 400 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 2,327	₹ -
EARTHING CABLE						
44	1C x 4 SQMM CU PVC INSULATED	KEI/POLYCAB	360	METERS	₹ 44	₹ 15,822
45	1C x 6 SQMM CU PVC INSULATED	KEI/POLYCAB		METERS	₹ 65	₹ -
46	1C x 25 SQMM CU PVC INSULATED	KEI/POLYCAB		METERS	₹ 357	₹ -
47	1C x 35 SQMM CU PVC INSULATED	KEI/POLYCAB	210	METERS	₹ 490	₹ 102,930
48	1C x 50 SQMM CU PVC INSULATED	KEI/POLYCAB	30	METERS	₹ 684	₹ 20,524
49	1C x 70 SQMM CU PVC INSULATED	KEI/POLYCAB		METERS	₹ 940	₹ -
COMMUNICATION CABLE						
50	RS 485 CABLE 0.75 MM ,ANNEALED TIN COPPER 2 CORE TWISTED	POLYCAB/BELDEN	290	METERS	₹ 166	₹ 48,047
PANEL						
51	ACDB PANEL 20 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
52	ACDB PANEL 25 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
53	ACDB PANEL 30 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	1	NO'S	₹ 70,414	₹ 70,414
54	ACDB PANEL 40 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
55	ACDB PANEL 50 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
56	ACDB PANEL 60 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 76,923	₹ -
57	ACDB PANEL 70 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 79,882	₹ -
58	ACDB PANEL 80 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 79,882	₹ -



Lok Bandhu Shri Raj Narayan Combined Hospital, Lucknow

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S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
59	ACDB PANEL 100 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 86,509	₹ -
60	ACDB PANEL 110 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 89,586	₹ -
61	ACDB PANEL 125 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 89,586	₹ -
62	ACDB PANEL 200 KW (100+100) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED	2	NO'S	₹ 170,296	₹ 340,592
63	ACDB PANEL 120 KW (40+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 146,982	₹ -
64	ACDB PANEL 140 KW (60+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 165,680	₹ -
65	ACDB PANEL 150 KW (70+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 167,811	₹ -
66	ACDB PANEL 220 KW (70+70+80) 415 V (3 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 217,278	₹ -
67	ACDB PANEL 220 KW (50+50+80+40) 415 V (4 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 217,278	₹ -
68	ENERGY METER(Premier 300, Class 0.5)	REPUTED		NO'S	₹ 127,101	₹ -
69	ENERGY METER(Premier 300, Class 0.5)	REPUTED		NO'S	₹ 29,586	₹ -
70	ACDB PANEL 4 in 1 out (50+50+100+40)KW	REPUTED		NO'S	₹ 218,935	₹ -
REMOTE MONORTING SYSTEM						
	REMOTE MONORTING SYSTEM	Power AMR/Equivalent				
71	4G based Plug and Play - RTU, Smart data logger with antenna to connect upto 4 inverters/ MFM/ Sensors on modbus RS485 RTU • modbus RS485 RTU- 1 port • 2 digital / analog ports (0 to 5 V) • 1 analog port (4 -20 m amp) • Built in memory help store and send data in case of network failure	E Track 4G Lite	2	NO'S	₹ 16,568	₹ 33,136
72	RS485 Communication SPD citel make (optional)	Citel -DLA-06-D3	2	NO'S	₹ 2,130	₹ 4,260
73	Line SPD citel make (optional)	Citel- DS-240-320	2	NO'S	₹ 3,314	₹ 6,627
74	IP67 enclosure box along with SMPS power supply, glands and fitment in one unit to house the data logge	Boxomatic/ ERD	1	NO'S	₹ 3,550	₹ 3,550
75	Access to Web portal- per MW per annum Data frequency - 10 minute Key Components • Interactive Dashboard • Single Line Diagram • PR analysis • Solar radiation & weather data • Graphs and Reports • Generation Analysis • Log Reporting • String/ MPPT Monitoring • Plant/ Inverter Performance • Superuser Dashboard for Centralized monitoring • Mobile app on android	PowerAMR	1	NO'S	₹ 15,621	₹ 15,621
76	Solar Radiation Sensor with mounting kit	Pyra300	1	NO'S	₹ 15,385	₹ 15,385
77	RS 485 CABLE 0.75 MM ,ANNEALED TIN COPPER 2 CORE TWISTED	POLYCAB/BELDEN		RM	₹ 185	₹ -



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S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
78	UPVC CONDUIT FOR CABLE 20 MM DIA	SUPREME		RM	₹ 112	₹ -
79	2C x 2.5 SQMM XLPE INSULATED FLEXIBLE CABLE with lugs	KEI/POLYCAB		RM	₹ 41	₹ -
80	1C x 4 SQMM CU PVC INSULATED	KEI/POLYCAB		RM	₹ 21	₹ -
81	Installation and Commissioning	KEI/POLYCAB	1	Job	₹ 5,917	₹ 5,917
CABLE TRAY						
82	50X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & CLAMP	REPUTED	60	METERS	₹ 368	₹ 22,104
83	75X75X 1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & CLAMP	REPUTED		METERS	₹ 547	₹ -
84	100X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	200	METERS	₹ 449	₹ 89,822
85	100X75X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED		METERS	₹ 531	₹ -
86	150X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED		METERS	₹ 592	₹ -
87	150X75X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED		METERS	₹ 687	₹ -
88	200X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED		METERS	₹ 736	₹ -
89	200X75X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED		METERS	₹ 950	₹ -
90	300X75X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED		METERS	₹ 1,287	₹ -
91	300X100X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED		METERS	₹ 1,390	₹ -
LIGHTING PROTECTION						
92	ESE TYPE LA RADIUS 50 m	REPUTED		NO'S	₹ 29,231	₹ -
93	ESE TYPE LA RADIUS 70 m	REPUTED		NO'S	₹ 29,793	₹ -
94	ESE TYPE LA RADIUS 90 m	REPUTED		NO'S	₹ 30,355	₹ -
95	ESE TYPE LA RADIUS 107 m	REPUTED	1	NO'S	₹ 31,479	₹ 31,479
96	5 METER MAST	REPUTED	1	NO'S	₹ 5,917	₹ 5,917
97	LIGHTENING STRIKE COUNTER	REPUTED	1	NO'S	₹ 5,917	₹ 5,917
EARTHING						
98	EARTH ROD CONSISTING OF HIGH TENSILE LOW CARBON STEEL WITH ELECTROLYTIC GRADE 250MM COPPER COATING. ROD DIA 17.2MM	REPUTED	14	NO'S	₹ 1,893	₹ 26,509
99	EARTH ENHANCE COMPOUND	REPUTED	14	SET	₹ 592	₹ 8,284
100	EARTHING PIT CHAMBER PRE CAST	REPUTED	14	SET	₹ 592	₹ 8,284
101	25X3 G.I STRIP GALVANISED	REPUTED	1140	METERS	₹ 65	₹ 74,201
102	25X6 G.I STRIP GALVANISED	REPUTED	300	METERS	₹ 97	₹ 29,112
103	50X3 G.I STRIP GALVANISED	REPUTED	200	METERS	₹ 97	₹ 19,408
104	50X6 G.I STRIP GALVANISED	REPUTED	100	METERS	₹ 260	₹ 26,036
105	INSULATOR FOR GI STRIP	REPUTED	740	NO'S	₹ 12	₹ 8,757
106	M8 X 25 with nut & washer	REPUTED	490	NO'S	₹ 9	₹ 4,639
C CLASS						
GLANDS						
107	4CX16SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 408	₹ -
108	4CX25 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	2	NO'S	₹ 408	₹ 817
109	4CX35 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	2	NO'S	₹ 495	₹ 991
110	4CX50 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 728	₹ -
111	4CX70 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 880	₹ -
112	4CX95SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 1,054	₹ -
113	4CX120 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	8	NO'S	₹ 1,054	₹ 8,428



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S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
114	4CX150SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 1,243	₹ -
115	4CX185SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 1,396	₹ -
116	4CX240SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 2,106	₹ -
117	4CX 300SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	2	NO'S	₹ 2,446	₹ 4,892
118	4CX 300SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 2,446	₹ -
119	4CX 400SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 2,663	₹ -
	LUGS					
120	LUGS RING TYPE 4 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	1790	NO'S	₹ 5.4	₹ 9,638
121	LUGS RING TYPE 4CX16 SQMM CU. RING TYPE LUGS	DOWEL/COMMET		NO'S	₹ 19	₹ -
122					26.369231	₹ -
123					34	₹ -
124	LUGS RING TYPE 4CX25 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	8	NO'S	₹ 26	₹ 211
125	LUGS RING TYPE 4CX35 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	8	NO'S	₹ 32	₹ 254
126	LUGS RING TYPE 4CX50 SQMM CU. RING TYPE LUGS	DOWEL/COMMET		NO'S	₹ 48	₹ -
127	LUGS RING TYPE 4CX70 SQMM CU. RING TYPE LUGS	DOWEL/COMMET		NO'S	₹ 19	₹ -
128	LUGS RING TYPE 4CX95 SQMM CU. RING TYPE LUGS	DOWEL/COMMET		NO'S	₹ 93	₹ -
129	LUGS RING TYPE 4CX120 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	32	NO'S	₹ 136	₹ 4,343
130	LUGS RING TYPE 4CX150 SQMM CU. RING TYPE LUGS	DOWEL/COMMET		NO'S	₹ 170	₹ -
131	LUGS RING TYPE 4CX185 SQMM CU. RING TYPE LUGS	DOWEL/COMMET		NO'S	₹ 215	₹ -
132	LUGS RING TYPE 4CX240 SQMM CU. RING TYPE LUGS	DOWEL/COMMET		NO'S	₹ 338	₹ -
133	LUGS RING TYPE 4CX 300 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	8	NO'S	₹ 431	₹ 3,446
134	LUGS RING TYPE 4CX 400 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 500	₹ -
135	M4X20 with two plain washer and nut	DOWEL/COMMET	1790	NO'S	₹ 7	₹ 12,709
	CONNECTORS					
136	MULTICONTACT MC4 CONNECTOR FOR 4 MM2 (FEMALE)	MC/BIZILINK/SABULI/ELCOM	100	NO'S	₹ 50	₹ 4,970
137	MULTICONTACT MC4 CONNECTOR FOR 4 MM2 (MALE)	MC/BIZILINK/SABULI/ELCOM	100	NO'S	₹ 50	₹ 4,970
	CONDUIT					
138	G.I NILON COAT FLEXIBLE CONDUIT 32 MM DIA	SUPREME		METERS	₹ 36	₹ -
139	HDPE CONDUIT 25 MM DIA , SMOKE GREY	SUPREME		METERS	₹ 30	₹ -
140	UPVC CONDUIT FOR CABLE 20 MM DIA	SUPREME	1320	METERS	₹ 24	₹ 31,243
141	UPVC CONDUIT FOR CABLE 40 MM DIA	SUPREME	300	METERS	₹ 47	₹ 14,201
142	CLAMP	SUPREME	760	Nos	₹ 14	₹ 10,793
	PLUMBING SYSTEM FOR SOLAR PLANT					
143	uPVC PIPE 25MM SCH80	PRINCE/ASTRA/PLASTO/SUPREME	800	METERS	₹ 139	₹ 111,432



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S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
144	uPVC PIPE 20MM SCH80	PRINCE/ASTRA/PLASTO/SUP REME	150	METERS	₹ 101	₹ 15,133
145	uPVC ELBOW 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	12	METERS	₹ 23	₹ 281
146	uPVC END CAP 20MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	12	METERS	₹ 12	₹ 148
147	uPVC TEE 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	12	METERS	₹ 31	₹ 375
148	uPVC UNION 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	12	METERS	₹ 51	₹ 609
149	uPVC COUPLER 25 MM SCH40	PRINCE/ASTRA/PLASTO/SUP REME	12	METERS	₹ 16	₹ 187
150	REDUCING TEE 2X25X20 SH40	PRINCE/ASTRA/PLASTO/SUP REME	12	METERS	₹ 31	₹ 375
151	HOSE FOR MODULE CLEANING WITH SPRAY GUN	PRINCE/ASTRA/PLASTO/SUP REME	7	METERS	₹ 101	₹ 706
152	BALL VALVE 20MM BRASS	PRINCE/ASTRA/PLASTO/SUP REME	12	METERS	₹ 199	₹ 2,390
153	Telescopic Wiper	REPUTED	1	METERS	₹ 5,917	₹ 5,917
154	WATER TANK OF 1KL	REPUTED	1	METERS	₹ 11,834	₹ 11,834
155	WATER METER (0-100LPM) ANALOG TYPE	REPUTED	2	METERS	₹ 2,959	₹ 5,917
156	MONOBLOCK 1 HP PUMP WITH FITTING AND WIRE	SHAKTI/Kirloskar	2	NO'S	₹ 7,101	₹ 14,201
157	MONOBLOCK 1.5 HP PUMP WITH FITTING AND WIRE	SHAKTI/Kirloskar	0	NO'S	₹ 10,059	₹ -
FIRE PROTECTION						
158	ABC FIRE PROTECTION 4.5 KG	REPUTED	5	NO'S	₹ 2,722	₹ 13,609
159	CO2 FIRE PROTECTION 4.5 KG	REPUTED	5	NO'S	₹ 5,917	₹ 29,586
160	FIRE SAND BUCKETS WITH 2 BUCKET EACH WITH STAND	REPUTED	5	NO'S	₹ 1,893	₹ 9,467
161	FIRST AID BOX AS PER BOCW ACT	REPUTED	5	NO'S	₹ 5,917	₹ 29,586
CABLE TIE						
162	CABLE TIE 100 UV RESISTANT BLACK 100PCS PACKET	KSS/SUPERFLEX	40	PACKET	₹ 178	₹ 7,101
163	CABLE TIE 200 UV RESISTANT BLACK 100PCS PACKET	KSS/SUPERFLEX	40	PACKET	₹ 237	₹ 9,467
SAFETY TAGS						
164	SHOCK TREATMENT CHART, SAFETY CHARTS	REPUTED	4	NO'S	₹ 592	₹ 2,367
165	DO'S & DON'TS CHARTS	REPUTED	4	NO'S	₹ 355	₹ 1,420
166	HEAT SHRINKABLE SLEEVE (AS PER CABLE SIZE COLUR)	REPUTED	4	NO'S	₹ 355	₹ 1,420
167	CAUTION DANGER BOARD	REPUTED	4	NO'S	₹ 592	₹ 2,367
168	RUBBER MAT FOR INVERTER & ACDB	REPUTED	4	NO'S	₹ 1,775	₹ 7,101
169	SOLAR CABLE FERULES WITH AL TAG	REPUTED	4	NO'S	₹ 592	₹ 2,367
170	AC CABLE FERULES WITH AL TAG	REPUTED	4	NO'S	₹ 592	₹ 2,367
171	INSULATION TAP	REPUTED	4	NO'S	₹ 59	₹ 237
172	PLANT DISPLAY BOARD	REPUTED	1	NO'S	₹ 10,059	₹ 10,059
INSTALLATION WORK						
173	MS STAND FOR INVERTER MOUNTING	LOCAL	5	SET	₹ 3,550	₹ 17,751
174	MS STAND FOR ACDB MOUNTING	LOCAL	3	SET	₹ 3,550	₹ 10,651
175	ACCESS LADDER	LOCAL	2	SET	₹ 35,503	₹ 71,006
176	DOOR & LOCK REPAIR	LOCAL	3	SET	₹ 2,959	₹ 8,876



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S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
177	INV & ACDB CAGE	LOCAL	8	SET	₹ 11,834	₹ 94,675
						₹ 14,285,858
	INSTALLATION & COMMISSIONING					
1	INSTALLATION & COMMISSIONING OF RCC ROOF		521	KWp	₹ 2,700	₹ 1,407,834
2	M25 GRADE RCC FOUNDATION FOR RCC ROOF					₹ -
3	M25 GRADE RCC FOUNDATION FOR RCC ROOF (Raised structure)		521	NO'S	₹ 1,183	₹ 617,065
4	CIVIL FOR BLAST TYPE			NO'S	₹ 1,300	₹ -
5	NitoBond		57.94	LTR	₹ 1,065	₹ 61,711
6	Other Services		1.00	Set	₹ 41,420	₹ 41,420
	TOTAL OF I&C					₹ 2,128,030
	APPROVALS LT SIDE					
1	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (= <500 kWp)					
2	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (500 - 900 kWp)		521	KWp		₹ 264,852
3	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (>=900 kWp)					
4	NET METERING- METER HARDWARE (<500 kWp)					
5	NET METERING- METER HARDWARE (500 - 900 kWp)		521	KWp		₹ 441,420
6	NET METERING- METER HARDWARE (> 900 kWp)					
	TOTAL OF APPROVAL					₹ 706,272
	OPTIONAL ITEM					
1	Spreader / Modification charges in existing panel	REPUTED		NO'S	As per Actual Cost	
2	UPS 500 VA WITH 30 MINS BACKUP WITH BATTERY	REPUTED		NO'S	₹ 2,604	
3	MFM SCHNIEDER EM6400 NG	REPUTED		NO'S	₹ 8,796	
4	DG Synch Controller	REPUTED		NO'S	As per Actual Cost	
5	Any other Item as may be required by OMC			NO'S	As per Actual Cost	
6	Transportation					₹ 88,889
Total amount						₹ 17,209,049



ANNEXURE B3 - Tej Bahadur Sapru Hospital, Prayagraj			DC Solar Capacity (kWp) 452.4			
Tej Prayagraj 452.4						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
	MODULE					
1	MODULE-580 WP, N-TYPE BIFACIAL MODULE	PANASONIC/JAKSON	780	NO'S	₹ 8,678	₹ 6,769,035
	INVERTER					
2	STRING INVERTER 20 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 93,678	₹ -
3	STRING INVERTER 25 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 96,741	₹ -
4	STRING INVERTER 30 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 131,502	₹ -
5	STRING INVERTER 40 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 156,247	₹ -
6	STRING INVERTER 50 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 170,622	₹ -
7	STRING INVERTER 60 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI	1	NO'S	₹ 178,989	₹ 178,989
8	STRING INVERTER 70 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI	2	NO'S	₹ 242,737	₹ 485,473
9	STRING INVERTER 80 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI	1	NO'S	₹ 248,747	₹ 248,747
10	STRING INVERTER 100 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI	1	NO'S	₹ 294,466	₹ 294,466
11	STRING INVERTER 110 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 303,333	₹ -
12	STRING INVERTER 125 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 314,740	₹ -
	STEEL STRUCTURE					
13	MS HDGI Module mounting structure Struture with minimum 80 micron coating	JAKSON/REPUTED	15834	KG	₹ 100	₹ 1,583,400
14	J BOLT	JAKSON/REPUTED	0	No	₹ 77	₹ -
15	J BOLT/Anchor	JAKSON/REPUTED	1560	No	₹ 130	₹ 203,077
16	Blast Type Structure	JAKSON/REPUTED	0	KG	₹ 3,550	₹ -
	FASTNERS					
17	Fastners, Washers & Others (Anti-theft bolt)	REPUTED	452	KWp	₹ 370	₹ 167,388
	BOS					
	DC CABLE					
18	CABLE 1CX4 SQMM CU. XLPO/XLPE	POLYCAB/KEI/APAR	7020	METERS	₹ 43	₹ 303,231
19	CABLE 1CX 6 SQMM CU. XLPO/XLPE	POLYCAB/KEI/APAR	0	METERS	₹ 69	₹ -
	AC CABLE COPPER FRLS					
20	2C x 2.5 SQMM XLPE INSULATED FLEXIABLE CABLE	KEI/POLYCAB	450	METERS	₹ 71	₹ 31,873
	AC CABLE ALUMINIUM FRLS OUTER SHEATH					
21	3.5C x 25 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 189	₹ -
22	3.5C x 35 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 239	₹ -
23	3.5C x 50 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 324	₹ -
24	3.5C x 70 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	150	METERS	₹ 436	₹ 65,393
25	3.5C x 95 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	70	METERS	₹ 545	₹ 38,116
26	3.5C x 120 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	80	METERS	₹ 682	₹ 54,555



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Tej Bahadur Sapru Hospital, Prayagraj			DC Solar Capacity [kWp] 452.4			
Tej Prayagraj 452.4						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
27	3.5C x 150 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	30	METERS	₹ 808	₹ 24,247
28	3.5C x 185 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,023	₹ -
29	3.5C x 240 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,285	₹ -
30	3.5C x 300 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,581	₹ -
31	3.5C x 400 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 2,020	₹ -
32	4C x 16SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 161	₹ -
33	4C x 25 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 202	₹ -
34	4 C x 35 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 272	₹ -
35	4C x 50 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 364	₹ -
36	4C x 70 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 494	₹ -
37	4C x 95 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 617	₹ -
38	4C x 120 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 752	₹ -
39	4C x 150 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 924	₹ -
40	4C x 185 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,137	₹ -
41	4C x 240 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,468	₹ -
42	4C x 300 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,810	₹ -
43	4C x 400 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 2,327	₹ -
	EARTHING CABLE					
44	1C x 4 SQMM CU PVC INSULATED	KEI/POLYCAB	312	METERS	₹ 44	₹ 13,728
45	1C x 6 SQMM CU PVC INSULATED	KEI/POLYCAB		METERS	₹ 65	₹ -
46	1C x 25 SQMM CU PVC INSULATED	KEI/POLYCAB		METERS	₹ 357	₹ -
47	1C x 35 SQMM CU PVC INSULATED	KEI/POLYCAB	140	METERS	₹ 490	₹ 68,620
48	1C x 50 SQMM CU PVC INSULATED	KEI/POLYCAB	40	METERS	₹ 684	₹ 27,365
49	1C x 70 SQMM CU PVC INSULATED	KEI/POLYCAB		METERS	₹ 940	₹ -
	COMMUNICATION CABLE					
50	RS 485 CABLE 0.75 MM ,ANNEALED TIN COPPER 2 CORE TWISTED	POLYCAB/BELDEN	450	METERS	₹ 166	₹ 74,556
	PANEL					
51	ACDB PANEL 20 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
52	ACDB PANEL 25 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
53	ACDB PANEL 30 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
54	ACDB PANEL 40 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
55	ACDB PANEL 50 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
56	ACDB PANEL 60 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	1	NO'S	₹ 76,923	₹ 76,923
57	ACDB PANEL 70 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	1	NO'S	₹ 79,882	₹ 79,882
58	ACDB PANEL 80 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 79,882	₹ -



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Tej Bahadur Sapru Hospital, Prayagraj

DC Solar Capacity (kWp) 452.4

Tej Prayagraj 452.4

S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
59	ACDB PANEL 100 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	1	NO'S	₹ 86,509	₹ 86,509
60	ACDB PANEL 110 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 89,586	₹ -
61	ACDB PANEL 125 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 89,586	₹ -
62	ACDB PANEL 200 KW (100+100) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 170,296	₹ -
63	ACDB PANEL 120 KW (40+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 146,982	₹ -
64	ACDB PANEL 140 KW (60+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 165,680	₹ -
65	ACDB PANEL 150 KW (70+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED	1	NO'S	₹ 167,811	₹ 167,811
66	ACDB PANEL 220 KW (70+70+80) 415 V (3 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 217,278	₹ -
67	ACDB PANEL 220 KW (50+50+80+40) 415 V (4 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 217,278	₹ -
68	ACDB PANEL 80 KW (40+40) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 127,101	₹ -
69	ENERGY METER(Premier 300, Class 0.5)	REPUTED		NO'S	₹ 29,586	₹ -
70	ACDB PANEL 4 in 1 out (50+50+100+40)KW	REPUTED		NO'S	₹ 218,935	₹ -
	REMOTE MONORTING SYSTEM					
	REMOTE MONORTING SYSTEM	Power AMR/Equivalent				
71	4G based Plug and Play - RTU, Smart data logger with antenna to connect upto 4 inverters/ MFM/ Sensors on modbus RS485 RTU • modbus RS485 RTU- 1 port • 2 digital / analog ports (0 to 5 V) • 1 analog port (4 -20 m amp) • Built in memory help store and send data in case of network failure	E Track 4G Lite	2	NO'S	₹ 16,568	₹ 33,136
72	RS485 Communication SPD citel make (optional)	Citel -DLA-06-D3	2	NO'S	₹ 2,130	₹ 4,260
73	Line SPD citel make (optional)	Citel- DS-240-320	2	NO'S	₹ 3,314	₹ 6,627
74	IP67 enclosure box along with SMPS power supply, glands and fitment in one unit to house the data logge	Boxomatic/ ERD	1	NO'S	₹ 3,550	₹ 3,550
75	Access to Web portal- per MW per annum Data frequency - 10 minute Key Components • Interactive Dashboard • Single Line Diagram • PR analysis • Solar radiation & weather data • Graphs and Reports • Generation Analysis • Log Reporting • String/ MPPT Monitoring • Plant/ Inverter Performance • Superuser Dashboard for Centralized monitoring • Mobile app on android	PowerAMR	1	NO'S	₹ 15,621	₹ 15,621
76	Solar Radiation Sensor with mounting kit	Pyra300	1	NO'S	₹ 15,385	₹ 15,385
77	RS 485 CABLE 0.75 MM ,ANNEALED TIN COPPER 2 CORE TWISTED	POLYCAB/BELDEN		RM	₹ 185	₹ -



Tej Bahadur Sapru Hospital, Prayagraj

DC Solar Capacity (kWp) 452.4

Tej Prayagraj 452.4

S.NO	COMPONENTS	MAKE'S	Qty	UCM	Unit Rate	Amount
78	UPVC CONDUIT FOR CABLE 20 MM DIA	SUPREME		RM	₹ 112	₹ -
79	2C x 2.5 SQMM XLPE INSULATED FLEXIBLE CABLE with lugs	KEI/POLYCAB		RM	₹ 41	₹ -
80	1C x 4 SQMM CU PVC INSULATED	KEI/POLYCAB		RM	₹ 21	₹ -
81	Installation and Commissioning	KEI/POLYCAB	1	Job	₹ 5,917	₹ 5,917
CABLE TRAY						
82	50X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & CLAMP	REPUTED	250	METERS	₹ 368	₹ 92,101
83	75X75X 1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & CLAMP	REPUTED	150	METERS	₹ 547	₹ 82,012
84	100X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 449	₹ -
85	100X75X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 531	₹ -
86	150X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 592	₹ -
87	150X75X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 687	₹ -
88	200X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 736	₹ -
89	200X75X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 950	₹ -
90	300X75X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 1,287	₹ -
91	300X100X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 1,390	₹ -
LIGHTING PROTECTION						
92	ESE TYPE LA RADIUS 50 m	REPUTED		NO'S	₹ 29,231	₹ -
93	ESE TYPE LA RADIUS 70 m	REPUTED		NO'S	₹ 29,793	₹ -
94	ESE TYPE LA RADIUS 90 m	REPUTED		NO'S	₹ 30,355	₹ -
95	ESE TYPE LA RADIUS 107 m	REPUTED	2	NO'S	₹ 31,479	₹ 62,959
96	5 METER MAST	REPUTED	2	NO'S	₹ 5,917	₹ 11,834
97	LIGHTENING STRIKE COUNTER	REPUTED	2	NO'S	₹ 5,917	₹ 11,834
EARTHING						
98	EARTH ROD CONSISTING OF HIGH TENSILE LOW CARBON STEEL WITH ELECTROLYTIC GRADE 250MM COPPER COATING. ROD DIA 17.2MM	REPUTED	24	NO'S	₹ 1,893	₹ 45,444
99	EARTH ENHANCE COMPOUND	REPUTED	24	SET	₹ 592	₹ 14,201
100	EARTHING PIT CHAMBER PRE CAST	REPUTED	24	SET	₹ 592	₹ 14,201
101	25X3 G.I STRIP GALVANISED	REPUTED	1080	METERS	₹ 65	₹ 70,296
102	25X6 G.I STRIP GALVANISED	REPUTED	0	METERS	₹ 97	₹ -
103	50X3 G.I STRIP GALVANISED	REPUTED	300	METERS	₹ 97	₹ 29,112
104	50X6 G.I STRIP GALVANISED	REPUTED	160	METERS	₹ 260	₹ 41,657
105	INSULATOR FOR GI STRIP	REPUTED	540	NO'S	₹ 12	₹ 6,391
106	M8 X 25 with nut & washer	REPUTED	490	NO'S	₹ 9	₹ 4,639
C CLASS						
GLANDS						
107	4CX16SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 408	₹ -
108	4CX25 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 408	₹ -
109	4CX35 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 495	₹ -
110	4CX50 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 728	₹ -
111	4CX70 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	6	NO'S	₹ 880	₹ 5,278
112	4CX95SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	4	NO'S	₹ 1,054	₹ 4,214
113	4CX120 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	4	NO'S	₹ 1,054	₹ 4,214



Tej Bahadur Sapru Hospital, Prayagraj			DC Solar Capacity (kWp) 452.4			
Tej Prayagraj 452.4						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
114	4CX150SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	2	NO'S	₹ 1,243	₹ 2,487
115	4CX185SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 1,396	₹ -
116	4CX240SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 2,106	₹ -
117	4CX 300SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 2,446	₹ -
118	4CX 300SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 2,446	₹ -
119	4CX 400SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 2,663	₹ -
	LUGS					
120	LUGS RING TYPE 4 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	1750	NO'S	₹ 5.4	₹ 9,423
121	LUGS RING TYPE 4CX16 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 19	₹ -
122	LUGS RING TYPE 1X25 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 26	₹ -
123	LUGS RING TYPE 1X50 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 34	₹ -
124	LUGS RING TYPE 4CX25 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 26	₹ -
125	LUGS RING TYPE 4CX35 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 32	₹ -
126	LUGS RING TYPE 4CX50 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 48	₹ -
127	LUGS RING TYPE 4CX70 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	24	NO'S	₹ 19	₹ 449
128	LUGS RING TYPE 4CX95 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	16	NO'S	₹ 93	₹ 1,493
129	LUGS RING TYPE 4CX120 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	16	NO'S	₹ 136	₹ 2,172
130	LUGS RING TYPE 4CX150 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	8	NO'S	₹ 170	₹ 1,356
131	LUGS RING TYPE 4CX185 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 215	₹ -
132	LUGS RING TYPE 4CX240 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 338	₹ -
133	LUGS RING TYPE 4CX 300 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 431	₹ -
134					500	₹ -
135	M4X20 with two plain washer and nut	DOWEL/COMMET	1750	NO'S	₹ 7	₹ 12,425
	CONNECTORS					
136	MULTI CONTACT MC4 CONNECTOR FOR 4 MM2 (FEMALE)	MC/BIZILINK/SABULI/ELCOM	180	NO'S	₹ 50	₹ 8,947
137	MULTI CONTACT MC4 CONNECTOR FOR 4 MM2 (MALE)	MC/BIZILINK/SABULI/ELCOM	180	NO'S	₹ 50	₹ 8,947
	CONDUIT					
138	G.I NYLON COAT FLEXIBLE CONDUIT 32 MM DIA	SUPREME	1300	METERS	₹ 36	₹ 46,154
139	HDPE CONDUIT 25 MM DIA , SMOKE GREY	SUPREME	500	METERS	₹ 30	₹ 14,793
140	UPVC CONDUIT FOR CABLE 20 MM DIA	SUPREME	500	METERS	₹ 24	₹ 11,834
141	UPVC CONDUIT FOR CABLE 40 MM DIA	SUPREME		METERS	₹ 47	₹ -
142	CLAMP	SUPREME	653	Nos	₹ 14	₹ 9,273
	PLUMBING SYSTEM FOR SOLAR PLANT					
143	uPVC PIPE 25MM SCH80	PRINCE/ASTRA/PLASTO/SUPREME	900	METERS	₹ 139	₹ 125,361



Signature

Tej Bahadur Sapru Hospital, Prayagraj

DC Solar Capacity (kWp) 452.4

Tej Prayagraj 452.4						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
144	UPVC PIPE 20MM SCH80	PRINCE/ASTRA/PLASTO/SUP REME	100	METERS	₹ 101	₹ 10,089
145	UPVC ELBOW 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 23	₹ 1,172
146	UPVC END CAP 20MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	40	METERS	₹ 12	₹ 495
147	UPVC TEE 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 31	₹ 1,562
148	UPVC UNION 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	40	METERS	₹ 51	₹ 2,031
149	UPVC COUPLER 25 MM SCH40	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 16	₹ 781
150	REDUCING TEE 2X25XX20 SH40	PRINCE/ASTRA/PLASTO/SUP REME	40	METERS	₹ 31	₹ 1,250
151	HOSE FOR MODULE CLEANING WITH SPRAY GUN	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 101	₹ 5,044
152	BALL VALVE 20MM BRASS	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 199	₹ 9,959
153	Telescopic Wiper	REPUTED	4	METERS	₹ 5,917	₹ 23,669
154	WATER TANK OF 1KL	REPUTED	0	METERS	₹ 11,834	₹ -
155	WATER METER (0-100LPM) ANALOG TYPE	REPUTED	0	METERS	₹ 2,959	₹ -
156	MONOBLOCK 1 HP PUMP WITH FITTING AND WIRE	SHAKTI/Kirloskar	4	NO'S	₹ 7,101	₹ 28,402
157	MONOBLOCK 1.5 HP PUMP WITH FITTING AND WIRE	SHAKTI/Kirloskar	0	NO'S	₹ 10,059	₹ -
FIRE PROTECTION						
158	ABC FIRE PROTECTION 4.5 KG	REPUTED	5	NO'S	₹ 2,722	₹ 13,609
159	CO2 FIRE PROTECTION 4.5 KG	REPUTED	5	NO'S	₹ 5,917	₹ 29,586
160	FIRE SAND BUCKETS WITH 2 BUCKET EACH WITH STAND	REPUTED	5	NO'S	₹ 1,893	₹ 9,467
161	FIRST AID BOX AS PER BOCW ACT	REPUTED	5	NO'S	₹ 5,917	₹ 29,586
CABLE TIE						
162	CABLE TIE 100 UV RESISTANT BLACK 100PCS PACKET	KSS/SUPERFLEX	35	PACKET	₹ 178	₹ 6,213
163	CABLE TIE 200 UV RESISTANT BLACK 100PCS PACKET	KSS/SUPERFLEX	35	PACKET	₹ 237	₹ 8,284
SAFETY TAGS						
164	SHOCK TREATMENT CHART, SAFETY CHARTS	REPUTED	5	NO'S	₹ 592	₹ 2,959
165	DO'S & DON'TS CHARTS	REPUTED	5	NO'S	₹ 355	₹ 1,775
166	HEAT SHRINKABLE SLEEVE (AS PER CABLE SIZE COLUR)	REPUTED	5	NO'S	₹ 355	₹ 1,775
167	CAUTION DANGER BOARD	REPUTED	5	NO'S	₹ 592	₹ 2,959
168	RUBBER MAT FOR INVERTER & ACDB	REPUTED	5	NO'S	₹ 1,775	₹ 8,876
169	SOLAR CABLE FERULES WITH AL TAG	REPUTED	3	NO'S	₹ 592	₹ 1,775
170	AC CABLE FERULES WITH AL TAG	REPUTED	3	NO'S	₹ 592	₹ 1,775
171	INSULATION TAP	REPUTED	3	NO'S	₹ 59	₹ 178
172	PLANT DISPLAY BOARD	REPUTED	1	NO'S	₹ 10,059	₹ 10,059
INSTALLATION WORK						
173	MS STAND FOR INVERTER MOUNTING	LOCAL	5	SET	₹ 3,550	₹ 17,751
174	MS STAND FOR ACDB MOUNTING	LOCAL	5	SET	₹ 3,550	₹ 17,751
175	ACCESS LADDER	LOCAL	2	SET	₹ 35,503	₹ 71,006
176	DOOR & LOCK REPAIR	LOCAL	5	SET	₹ 2,959	₹ 14,793



Tej Bahadur Sapru Hospital, Prayagraj

DC Solar Capacity (kWp) 452.4

Tej Prayagraj 452.4						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
177	INV & ACDB CAGE	LOCAL	10	SET	₹ 11,834	₹ 118,343
						₹ 12,336,354
	INSTALLATION & COMMISSIONING					
1	INSTALLATION & COMMISSIONING OF RCC ROOF		452	KWp	₹ 2,700	₹ 1,221,480
2	M25 GRADE RCC FOUNDATION FOR RCC ROOF					₹ -
3	M25 GRADE RCC FOUNDATION FOR RCC ROOF (Raised structure)		452	NO'S	₹ 1,183	₹ 535,385
4	CIVIL FOR BLAST TYPE			NO'S	₹ 1,300	₹ -
5	NitoBond		56.55	LTR	₹ 1,065	₹ 60,231
6	Other Services		1.00	LTR	₹ 41,420	₹ 41,420
	TOTAL OF I&C					₹ 1,858,515
	APPROVALS_LT SIDE					
1	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (<500 kWp)		452	KWp		₹ 177,515
2	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (500 - 900 kWp)					
3	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (>900 kWp)					
4	NET METERING- METER HARDWARE (<500 kWp)		452	KWp		₹ 295,858
5	NET METERING- METER HARDWARE (500 - 900 kWp)					
6	NET METERING- METER HARDWARE (> 900 kWp)					
	TOTAL OF APPROVAL					₹ 473,373
	OPTIONAL ITEM					
1	Spreader / Modification charges in existing panel	REPUTED		NO'S	As per Actual Cost	
2	UPS 500 VA WITH 30 MINS BACKUP WITH BATTERY	REPUTED		NO'S	₹ 2,604	
3	MFM SCHNIEDER EM6400 NG	REPUTED		NO'S	₹ 8,796	
4	DG Synch Controller	REPUTED		NO'S	As per Actual Cost	
5	Any other Item as may be required by OMC			NO'S	As per Actual Cost	
6	Transportation					₹ 153,333
Total amount						₹ 14,821,575



ANNEXURE B3 - District Hospital Male, Barabanki

DC Solar Capacity (kWp) 200.68

Barabanki Men 200.68						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
MODULE						
1	MODULE-580 WP, N-TYPE BIFACIAL MODULE	PANASONIC/JAKSON	346	NO'S	₹ 8,678	₹ 3,002,675
INVERTER						
2	STRING INVERTER 20 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI	0	NO'S	₹ 93,678	₹ -
3	STRING INVERTER 25 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 96,741	₹ -
4	STRING INVERTER 30 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI	0	NO'S	₹ 131,502	₹ -
5	STRING INVERTER 40 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI	1	NO'S	₹ 156,247	₹ 156,247
6	STRING INVERTER 50 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI	1	NO'S	₹ 170,622	₹ 170,622
7	STRING INVERTER 60 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 178,989	₹ -
8	STRING INVERTER 70 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 242,737	₹ -
9	STRING INVERTER 80 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI	1	NO'S	₹ 248,747	₹ 248,747
10	STRING INVERTER 100 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 294,466	₹ -
11	STRING INVERTER 110 KW, 400V GRID CONNECTED	GROWATT/SOLIS		NO'S	₹ 303,333	₹ -
12	STRING INVERTER 125 KW, 400V GRID CONNECTED	GROWATT/SOLIS		NO'S	₹ 314,740	₹ -
STEEL STRUCTURE						
13	MS HDGI Module mounting structure Struture with minimum 80 micron coating for 500 mm clearance.	JAKSON/REPUTED	7224	KG	₹ 100	₹ 722,448
14	J BOLT	JAKSON/REPUTED	0	No	₹ 77	₹ -
15	J BOLT/Anchor	JAKSON/REPUTED	1038	No	₹ 130	₹ 135,124
16	Blast Type Structure	JAKSON/REPUTED	0	KG	₹ 3,550	₹ -
FASTNERS						
17	Fastners, Washers & Others (Anti-theft bolt)	REPUTED	201	KWp	₹ 370	₹ 74,252
BOS						
DC CABLE						
18	CABLE 1CX4 SQMM CU. XLPO/XLPE	POLYCAB/KEI/APAR	3114	METERS	₹ 43	₹ 134,510
19	CABLE 1CX 6 SQMM CU. XLPO/XLPE	POLYCAB/KEI/APAR	0	METERS	₹ 69	₹ -
AC CABLE COPPER FRLS						
20	2C x 2.5 SQMM XLPE INSULATED FLEXIABLE CABLE	KEI/POLYCAB	180	METERS	₹ 71	₹ 12,749
AC CABLE ALUMINIUM FRLS OUTER SHEATH						
21	3.5C x 25 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 189	₹ -
22	3.5C x 35 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 239	₹ -
23	3.5C x 50 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	130	METERS	₹ 324	₹ 42,065
24	3.5C x 70 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 436	₹ -
25	3.5C x 95 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	50	METERS	₹ 545	₹ 27,225
26	3.5C x 120 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 682	₹ -



District Hospital Male, Barabanki

DC Solar Capacity (kWp) 200.68

Barabanki Men 200.68

S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
27	3.5C x 150 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 808	₹ -
28	3.5C x 185 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,023	₹ -
29	3.5C x 240 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,285	₹ -
30	3.5C x 300 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	150	METERS	₹ 1,581	₹ 237,148
31	3.5C x 400 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 2,020	₹ -
32	4C x 16SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 161	₹ -
33	4C x 25 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 202	₹ -
34	4 C x 35 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 272	₹ -
35	4C x 50 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 364	₹ -
36	4C x 70 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 494	₹ -
37	4C x 95 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 617	₹ -
38	4C x 120 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 752	₹ -
39	4C x 150 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 924	₹ -
40	4C x 185 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,137	₹ -
41	4C x 240 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,468	₹ -
42	4C x 300 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,810	₹ -
43	4C x 400 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 2,327	₹ -
EARTHING CABLE						
44	1C x 4 SQMM CU PVC INSULATED	KEI/POLYCAB	138	METERS	₹ 44	₹ 6,090
45	1C x 6 SQMM CU PVC INSULATED	KEI/POLYCAB		METERS	₹ 65	₹ -
46	1C x 25 SQMM CU PVC INSULATED	KEI/POLYCAB		METERS	₹ 357	₹ -
47	1C x 35 SQMM CU PVC INSULATED	KEI/POLYCAB	120	METERS	₹ 490	₹ 58,817
48	1C x 50 SQMM CU PVC INSULATED	KEI/POLYCAB	40	METERS	₹ 684	₹ 27,365
49	1C x 70 SQMM CU PVC INSULATED	KEI/POLYCAB		METERS	₹ 940	₹ -
COMMUNICATION CABLE						
50	RS 485 CABLE 0.75 MM ,ANNEALED TIN COPPER 2 CORE TWISTED	POLYCAB/BELDEN	400	METERS	₹ 166	₹ 66,272
PANEL						
51	ACDB PANEL 20 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
52	ACDB PANEL 25 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
53	ACDB PANEL 30 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
54	ACDB PANEL 40 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	1	NO'S	₹ 70,414	₹ 70,414
55	ACDB PANEL 50 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	1	NO'S	₹ 70,414	₹ 70,414
56	ACDB PANEL 60 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 76,923	₹ -
57	ACDB PANEL 70 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 79,882	₹ -
58	ACDB PANEL 80 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	1	NO'S	₹ 79,882	₹ 79,882



District Hospital Male, Barabanki			DC Solar Capacity (kWp) 200.68			
Barabanki Men 200.68						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
59	ACDB PANEL 100 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 86,509	₹ -
60	ACDB PANEL 110 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 89,586	₹ -
61	ACDB PANEL 125 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 89,586	₹ -
62	ACDB PANEL 200 KW (100+100) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 170,296	₹ -
63	ACDB PANEL 120 KW (40+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 146,982	₹ -
64	ACDB PANEL 140 KW (60+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 165,680	₹ -
65	ACDB PANEL 150 KW (70+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 167,811	₹ -
66	ACDB PANEL 220 KW (70+70+80) 415 V (3 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 217,278	₹ -
67	ACDB PANEL 220 KW (50+50+80+40) 415 V (4 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 217,278	₹ -
68	ACDB PANEL 80 KW (40+40) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 127,101	₹ -
69	ENERGY METER(Premier 300, Class 0.5)	REPUTED		NO'S	₹ 29,586	₹ -
70	ACDB PANEL 4 in 1 out (50+50+100+40)KW	REPUTED		NO'S	₹ 218,935	₹ -
	REMOTE MONORTING SYSTEM					
	REMOTE MONORTING SYSTEM	Power AMR/Equivalent				
71	4G based Plug and Play - RTU, Smart data logger with antenna to connect upto 4 inverters/ MFM/ Sensors on modbus RS485 RTU • modbus RS485 RTU- 1 port • 2 digital / analog ports (0 to 5 V) • 1 analog port (4 -20 m amp) • Built in memory help store and send data in case of network failure	E Track 4G Lite	2	NO'S	₹ 16,568	₹ 33,136
72	RS485 Communication SPD citel make (optional)	Citel -DLA-06-D3	2	NO'S	₹ 2,130	₹ 4,260
73	Line SPD citel make (optional)	Citel- DS-240-320	2	NO'S	₹ 3,314	₹ 6,627
74	IP67 enclosure box along with SMPS power supply, glands and fitment in one unit to house the data logge	Boxomatic/ ERD	1	NO'S	₹ 3,550	₹ 3,550
75	Access to Web portal- per MW per annum Data frequency – 10 minute Key Components • Interactive Dashboard • Single Line Diagram • PR analysis • Solar radiation & weather data • Graphs and Reports • Generation Analysis • Log Reporting • String/ MPPT Monitoring • Plant/ Inverter Performance • Superuser Dashboard for Centralized monitoring • Mobile app on android	PowerAMR	1	NO'S	₹ 15,621	₹ 15,621
76	Solar Radiation Sensor with mounting kit	Pyra300	1	NO'S	₹ 15,385	₹ 15,385
77	RS 485 CABLE 0.75 MM ,ANNEALED TIN COPPER 2 CORE TWISTED	POLYCAB/BELDEN		RM	₹ 185	₹ -



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District Hospital Male, Barabanki

DC Solar Capacity (kWp) 200.68

Barabanki Men 200.68

S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
78	UPVC CONDUIT FOR CABLE 20 MM DIA	SUPREME		RM	₹ 112	₹ -
79	2C x 2.5 SQMM XLPE INSULATED FLEXIBLE CABLE with lugs	KEI/POLYCAB		RM	₹ 41	₹ -
80	1C x 4 SQMM CU PVC INSULATED	KEI/POLYCAB		RM	₹ 21	₹ -
81	Installation and Commissioning	KEI/POLYCAB	1	Job	₹ 5,917	₹ 5,917
CABLE TRAY						
82	50X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & CLAMP	REPUTED		METERS	₹ 368	₹ -
83	75X75X 1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & CLAMP	REPUTED	50	METERS	₹ 547	₹ 27,337
84	100X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	200	METERS	₹ 449	₹ 89,822
85	100X75X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	150	METERS	₹ 531	₹ 79,669
86	150X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED		METERS	₹ 592	₹ -
87	150X75X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED		METERS	₹ 687	₹ -
88	200X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED		METERS	₹ 736	₹ -
89	200X75X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED		METERS	₹ 950	₹ -
90	300X75X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED		METERS	₹ 1,287	₹ -
91	300X100X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED		METERS	₹ 1,390	₹ -
LIGHTING PROTECTION						
92	ESE TYPE LA RADIUS 50 m	REPUTED		NO'S	₹ 29,231	₹ -
93	ESE TYPE LA RADIUS 70 m	REPUTED		NO'S	₹ 29,793	₹ -
94	ESE TYPE LA RADIUS 90 m	REPUTED		NO'S	₹ 30,355	₹ -
95	ESE TYPE LA RADIUS 107 m	REPUTED	2	NO'S	₹ 31,479	₹ 62,959
96	5 METER MAST	REPUTED	2	NO'S	₹ 5,917	₹ 11,834
97	LIGHTENING STRIKE COUNTER	REPUTED	2	NO'S	₹ 5,917	₹ 11,834
EARTHING						
98	EARTH ROD CONSISTING OF HIGH TENSILE LOW CARBON STEEL WITH ELECTROLYTIC GRADE 250MM COPPER COATING. ROD DIA 17.2MM	REPUTED	20	NO'S	₹ 1,893	₹ 37,870
99	EARTH ENHANCE COMPOUND	REPUTED	20	SET	₹ 592	₹ 11,834
100	EARTHING PIT CHAMBER PRE CAST	REPUTED	20	SET	₹ 592	₹ 11,834
101	25X3 G.I STRIP GALVANISED	REPUTED	1040	METERS	₹ 65	₹ 67,692
102	25X6 G.I STRIP GALVANISED	REPUTED	650	METERS	₹ 97	₹ 63,077
103	50X3 G.I STRIP GALVANISED	REPUTED		METERS	₹ 97	₹ -
104	50X6 G.I STRIP GALVANISED	REPUTED		METERS	₹ 260	₹ -
105	INSULATOR FOR GI STRIP	REPUTED	660	NO'S	₹ 12	₹ 7,811
106	M8 X 25 with nut & washer	REPUTED	490	NO'S	₹ 9	₹ 4,639
C CLASS						
GLANDS						
107	4CX16SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 408	₹ -
108	4CX25 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 408	₹ -
109	4CX35 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 495	₹ -
110	4CX50 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	4	NO'S	₹ 728	₹ 2,911
111	4CX70 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 880	₹ -
112	4CX95SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	4	NO'S	₹ 1,054	₹ 4,214
113	4CX120 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 1,054	₹ -



District Hospital Male, Barabanki

DC Solar Capacity (kWp) 200.68

Barabanki Men 200.68

S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
114	4CX150SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 1,243	₹ -
115	4CX185SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 1,396	₹ -
116	4CX240SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 2,106	₹ -
117	4CX 300SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	4	NO'S	₹ 2,446	₹ 9,785
118	4CX 300SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 2,446	₹ -
119	4CX 400SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 2,663	₹ -
LUGS						
120	LUGS RING TYPE 4 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	1327	NO'S	₹ 5.4	₹ 7,145
121	LUGS RING TYPE 4CX16 SQMM CU. RING TYPE LUGS	DOWEL/COMMET		NO'S	₹ 19	₹ -
122	LUGS RING TYPE 4CX8 SQMM CU. RING TYPE LUGS	DOWEL/COMMET		NO'S		₹ -
123				NO'S		₹ -
124	LUGS RING TYPE 4CX25 SQMM CU. RING TYPE LUGS	DOWEL/COMMET		NO'S	₹ 26	₹ -
125	LUGS RING TYPE 4CX35 SQMM CU. RING TYPE LUGS	DOWEL/COMMET		NO'S	₹ 32	₹ -
126	LUGS RING TYPE 4CX50 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	16	NO'S	₹ 48	₹ 764
127	LUGS RING TYPE 4CX70 SQMM CU. RING TYPE LUGS	DOWEL/COMMET		NO'S	₹ 19	₹ -
128	LUGS RING TYPE 4CX95 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	16	NO'S	₹ 93	₹ 1,493
129	LUGS RING TYPE 4CX120 SQMM CU. RING TYPE LUGS	DOWEL/COMMET		NO'S	₹ 136	₹ -
130	LUGS RING TYPE 4CX150 SQMM CU. RING TYPE LUGS	DOWEL/COMMET		NO'S	₹ 170	₹ -
131	LUGS RING TYPE 4CX185 SQMM CU. RING TYPE LUGS	DOWEL/COMMET		NO'S	₹ 215	₹ -
132	LUGS RING TYPE 4CX240 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 338	₹ -
133	LUGS RING TYPE 4CX 300 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	16	NO'S	₹ 431	₹ 6,892
134	LUGS RING TYPE 4CX 400 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 500	₹ -
135	M4X20 with two plain washer and nut	DOWEL/COMMET	1327	NO'S	₹ 7	₹ 9,422
CONNECTORS						
136	MULTICONTACT MC4 CONNECTOR FOR 4 MM2 (FEMALE)	MC/BIZILINK/SABULI/ELCOM	140	NO'S	₹ 50	₹ 6,959
137	MULTICONTACT MC4 CONNECTOR FOR 4 MM2 (MALE)	MC/BIZILINK/SABULI/ELCOM	140	NO'S	₹ 50	₹ 6,959
CONDUIT						
138	G.I NILON COAT FLEXIBLE CONDUIT 32 MM DIA	SUPREME	600	METERS	₹ 36	₹ 21,302
139	HDPE CONDUIT 25 MM DIA , SMOKE GREY	SUPREME	250	METERS	₹ 30	₹ 7,396
140	UPVC CONDUIT FOR CABLE 20 MM DIA	SUPREME		METERS	₹ 24	₹ -
141	UPVC CONDUIT FOR CABLE 40 MM DIA	SUPREME	350	METERS	₹ 47	₹ 16,568
142	CLAMP	SUPREME	550	Nos	₹ 14	₹ 7,811
PLUMBING SYSTEM FOR SOLAR PLANT						
143	UPVC PIPE 25MM SCH80	PRINCE/ASTRA/PLASTO/SUPREME	450	METERS	₹ 139	₹ 62,680



District Hospital Male, Barabanki			DC Solar Capacity (kWp) 200.68			
Barabanki Men 200.68						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
144	uPVC PIPE 20MM SCH80	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 101	₹ 5,044
145	uPVC ELBOW 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	12	METERS	₹ 23	₹ 281
146	uPVC END CAP 20MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	12	METERS	₹ 12	₹ 148
147	uPVC TEE 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	12	METERS	₹ 31	₹ 375
148	uPVC UNION 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	12	METERS	₹ 51	₹ 609
149	uPVC COUPLER 25 MM SCH40	PRINCE/ASTRA/PLASTO/SUP REME	12	METERS	₹ 16	₹ 187
150	REDUCING TEE 2X25XX20 SH40	PRINCE/ASTRA/PLASTO/SUP REME	12	METERS	₹ 31	₹ 375
151	HOSE FOR MODULE CLEANING WITH SPRAY GUN	PRINCE/ASTRA/PLASTO/SUP REME	12	METERS	₹ 101	₹ 1,211
152	BALL VALVE 20MM BRASS	PRINCE/ASTRA/PLASTO/SUP REME	12	METERS	₹ 199	₹ 2,390
153	Telescopic Wiper	REPUTED	1	METERS	₹ 5,917	₹ 5,917
154	WATER TANK OF 1KL	REPUTED	1	METERS	₹ 11,834	₹ 11,834
155	WATER METER (0-100LPM) ANALOG TYPE	REPUTED	4	METERS	₹ 2,959	₹ 11,834
156	MONOBLOCK 1 HP PUMP WITH FITTING AND WIRE	SHAKTI/Kirloskar	4	NO'S	₹ 7,101	₹ 28,402
157	MONOBLOCK 1.5 HP PUMP WITH FITTING AND WIRE	SHAKTI/Kirloskar	0	NO'S	₹ 10,059	₹ -
	FIRE PROTECTION					
158	ABC FIRE PROTECTION 4.5 KG	REPUTED	5	NO'S	₹ 2,722	₹ 13,609
159	CO2 FIRE PROTECTION 4.5 KG	REPUTED	5	NO'S	₹ 5,917	₹ 29,586
160	FIRE SAND BUCKETS WITH 2 BUCKET EACH WITH STAND	REPUTED	5	NO'S	₹ 1,893	₹ 9,467
161	FIRST AID BOX AS PER BOCW ACT	REPUTED	5	NO'S	₹ 5,917	₹ 29,586
	CABLE TIE					
162	CABLE TIE 100 UV RESISTANT BLACK 100PCS PACKET	KSS/SUPERFLEX	24	PACKET	₹ 178	₹ 4,260
163	CABLE TIE 200 UV RESISTANT BLACK 100PCS PACKET	KSS/SUPERFLEX	24	PACKET	₹ 237	₹ 5,680
	SAFETY TAGS					
164	SHOCK TREATMENT CHART, SAFETY CHARTS	REPUTED	1	NO'S	₹ 592	₹ 592
165	DO'S & DON'TS CHARTS	REPUTED	1	NO'S	₹ 355	₹ 355
166	HEAT SHRINKABLE SLEEVE (AS PER CABLE SIZE COLUR)	REPUTED	1	NO'S	₹ 355	₹ 355
167	CAUTION DANGER BOARD	REPUTED	1	NO'S	₹ 592	₹ 592
168	RUBBER MAT FOR INVERTER & ACDB	REPUTED	1	NO'S	₹ 1,775	₹ 1,775
169	SOLAR CABLE FERULES WITH AL TAG	REPUTED	1	NO'S	₹ 592	₹ 592
170	AC CABLE FERULES WITH AL TAG	REPUTED	1	NO'S	₹ 592	₹ 592
171	INSULATION TAP	REPUTED	1	NO'S	₹ 59	₹ 59
172	PLANT DISPLAY BOARD	REPUTED	1	NO'S	₹ 10,059	₹ 10,059
	INSTALLATION WORK					
173	MS STAND FOR INVERTER MOUNTING	LOCAL	3	SET	₹ 3,550	₹ 10,651
174	MS STAND FOR ACDB MOUNTING	LOCAL	3	SET	₹ 3,550	₹ 10,651
175	ACCESS LADDER	LOCAL	2	SET	₹ 35,503	₹ 71,006
176	DOOR & LOCK REPAIR	LOCAL	2	SET	₹ 2,959	₹ 5,917



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District Hospital Male, Barabanki			DC Solar Capacity (kWp) 200.68			
Barabanki Men 200.68						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
177	INV & ACDB CAGE	LOCAL	6	SET	₹ 11,834	₹ 71,006
						₹ 6,433,076
	INSTALLATION & COMMISSIONING					
1	INSTALLATION & COMMISSIONING OF RCC ROOF		201	KWp	₹ 2,700	₹ 541,836
2	M25 GRADE RCC FOUNDATION FOR RCC ROOF				₹ 888	₹ -
3	M25 GRADE RCC FOUNDATION FOR RCC ROOF (Raised structure)		201	NO'S	₹ 1,183	₹ 237,491
4					₹ 1,300	₹ -
5	NitoBond		22.30	LTR	₹ 1,065	₹ 23,749
6	Other Services		1.00	LTR	₹ 41,420	₹ 41,420
	TOTAL OF I&C					₹ 844,496
	APPROVALS_LT SIDE					
1	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (≤ 500 kWp)		201	KWp		₹ 177,515
2	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (500 - 900 kWp)					
3	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (≥ 900 kWp)					
4	NET METERING- METER HARDWARE (≤ 500 kWp)		201	KWp		₹ 295,858
5	NET METERING- METER HARDWARE (500 - 900 kWp)					
6	NET METERING- METER HARDWARE (≥ 900 kWp)					
	TOTAL OF APPROVAL					₹ 473,373
	OPTIONAL ITEM					
1	Spreader / Modification charges in existing panel	REPUTED		NO'S	As per Actual Cost	
2	UPS 500 VA WITH 30 MINS BACKUP WITH BATTERY	REPUTED		NO'S	₹ 2,604	
3	MFM SCHNIEDER EM6400 NG	REPUTED		NO'S	₹ 8,796	
4	DG Synch Controller	REPUTED		NO'S	As per Actual Cost	
5	Any other Item as may be required by OMC			NO'S	As per Actual Cost	
6	Transportation					₹ 47,778
Total amount						₹ 7,798,724



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ANNEXURE B3 - District Female Hospital (MCH Wing) Barabanki

DC Solar Capacity (kWp) 205.32

Barabanki Women 205.32

S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
MODULE						
1	MODULE-580 WP, N-TYPE BIFACIAL MODULE	PANASONIC/JAKSON	354	NO'S	₹ 8,678	₹ 3,072,101
INVERTER						
2	STRING INVERTER 20 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 93,678	₹ -
3	STRING INVERTER 25 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 96,741	₹ -
4	STRING INVERTER 30 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI	1	NO'S	₹ 131,502	₹ 131,502
5	STRING INVERTER 40 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI	1	NO'S	₹ 156,247	₹ 156,247
6	STRING INVERTER 50 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 170,622	₹ -
7	STRING INVERTER 60 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 178,989	₹ -
8	STRING INVERTER 70 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 242,737	₹ -
9	STRING INVERTER 80 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 248,747	₹ -
10	STRING INVERTER 100 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI	1	NO'S	₹ 294,466	₹ 294,466
11	STRING INVERTER 110 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 303,333	₹ -
12	STRING INVERTER 125 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 314,740	₹ -
STEEL STRUCTURE						
13	MS HDGI Module mounting structure Struture with minimum 80 micron coating for 500 mm clearance.	JAKSON/REPUTED	8623	KG	₹ 100	₹ 862,344
14	J BOLT	JAKSON/REPUTED	0	No	₹ 77	₹ -
15	J BOLT/Anchor	JAKSON/REPUTED	1062	No	₹ 130	₹ 138,249
16	Blast Type Structure	JAKSON/REPUTED	0	KG	₹ 3,550	₹ -
FASTNERS						
17	Fastners, Washers & Others (Anti-theft bolt)	REPUTED	205	KWp	₹ 370	₹ 75,968
BOS						
DC CABLE						
18	CABLE 1CX4 SQMM CU. XLPO/XLPE	POLYCAB/KEI/APAR	3186	METERS	₹ 43	₹ 137,620
19	CABLE 1CX 6 SQMM CU. XLPO/XLPE	POLYCAB/KEI/APAR	0	METERS	₹ 69	₹ -
AC CABLE COPPER FRLS						
20	2C x 2.5 SQMM XLPE INSULATED FLEXIABLE CABLE	KEI/POLYCAB	150	METERS	₹ 71	₹ 10,624
AC CABLE ALUMINIUM FRLS OUTER SHEATH						
21	3.5C x 25 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 189	₹ -
22	3.5C x 35 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	30	METERS	₹ 239	₹ 7,171
23	3.5C x 50 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 324	₹ -
24	3.5C x 70 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 436	₹ -
25	3.5C x 95 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	100	METERS	₹ 545	₹ 54,451
26	3.5C x 120 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 682	₹ -



District Female Hospital (MCH Wing) Barabanki			DC Solar Capacity (kWp) 205.32			
Barabanki Women 205.32						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
27	3.5C x 150 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 808	₹ -
28	3.5C x 185 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,023	₹ -
29	3.5C x 240 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,285	₹ -
30	3.5C x 300 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	135	METERS	₹ 1,581	₹ 213,434
31	3.5C x 400 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 2,020	₹ -
32	4C x 16SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 161	₹ -
33	4C x 25 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 202	₹ -
34	4 C x 35 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 272	₹ -
35	4C x 50 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 364	₹ -
36	4C x 70 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 494	₹ -
37	4C x 95 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 617	₹ -
38	4C x 120 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 752	₹ -
39	4C x 150 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 924	₹ -
40	4C x 185 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,137	₹ -
41	4C x 240 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,468	₹ -
42	4C x 300 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,810	₹ -
43	4C x 400 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 2,327	₹ -
	EARTHING CABLE					
44	1C x 4 SQMM CU PVC INSULATED	KEI/POLYCAB	142	METERS	₹ 44	₹ 6,230
45	1C x 6 SQMM CU PVC INSULATED	KEI/POLYCAB		METERS	₹ 65	₹ -
46	1C x 25 SQMM CU PVC INSULATED	KEI/POLYCAB		METERS	₹ 357	₹ -
47	1C x 35 SQMM CU PVC INSULATED	KEI/POLYCAB	120	METERS	₹ 490	₹ 58,817
48	1C x 50 SQMM CU PVC INSULATED	KEI/POLYCAB	40	METERS	₹ 684	₹ 27,365
49	1C x 70 SQMM CU PVC INSULATED	KEI/POLYCAB		METERS	₹ 940	₹ -
	COMMUNICATION CABLE					
50	RS 485 CABLE 0.75 MM ,ANNEALED TIN COPPER 2 CORE TWISTED	POLYCAB/BELDEN	380	METERS	₹ 166	₹ 62,959
	PANEL					
51	ACDB PANEL 20 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
52	ACDB PANEL 25 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
53	ACDB PANEL 30 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	1	NO'S	₹ 70,414	₹ 70,414
54	ACDB PANEL 40 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	1	NO'S	₹ 70,414	₹ 70,414
55	ACDB PANEL 50 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
56	ACDB PANEL 60 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 76,923	₹ -
57	ACDB PANEL 70 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 79,882	₹ -
58	ACDB PANEL 80 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 79,882	₹ -



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District Female Hospital (MCH Wing) Barabanki			DC Solar Capacity (kWp) 205.32			
Barabanki Women 205.32						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
59	ACDB PANEL 100 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	1	NO'S	₹ 86,509	₹ 86,509
60	ACDB PANEL 110 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 89,586	₹ -
61	ENERGY METER(Premier 300, Class 0.5)	REPUTED		NO'S	₹ 89,586	₹ -
62	ACDB PANEL 200 KW (100+100) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 170,296	₹ -
63	ACDB PANEL 120 KW (40+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 146,982	₹ -
64	ACDB PANEL 140 KW (60+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 165,680	₹ -
65	ACDB PANEL 150 KW (70+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 167,811	₹ -
66	ACDB PANEL 220 KW (70+70+80) 415 V (3 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 217,278	₹ -
67	ACDB PANEL 220 KW (50+50+80+40) 415 V (4 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 217,278	₹ -
68	ACDB PANEL 80 KW (40+40) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 127,101	₹ -
69	ENERGY METER(Premier 300, Class 0.5)	REPUTED		NO'S	₹ 29,586	₹ -
70	ACDB PANEL 4 in 1 out (50+50+100+40)KW	REPUTED		NO'S	₹ 218,935	₹ -
	REMOTE MONORTING SYSTEM					
	REMOTE MONORTING SYSTEM	Power AMR/Equivalent				
71	4G based Plug and Play - RTU, Smart data logger with antenna to connect upto 4 inverters/ MFM/ Sensors on modbus RS485 RTU • modbus RS485 RTU- 1 port • 2 digital / analog ports (0 to 5 V) • 1 analog port (4 -20 m amp) • Built in memory help store and send data in case of network failure	E Track 4G Lite	2	NO'S	₹ 16,568	₹ 33,136
72	RS485 Communication SPD citel make (optional)	Citel -DLA-06-D3	2	NO'S	₹ 2,130	₹ 4,260
73	Line SPD citel make (optional)	Citel- DS-240-320	2	NO'S	₹ 3,314	₹ 6,627
74	IP67 enclosure box along with SMPS power supply, glands and fitment in one unit to house the data logge	Boxomatic/ ERD	1	NO'S	₹ 3,550	₹ 3,550
75	Access to Web portal- per MW per annum Data frequency – 10 minute Key Components • Interactive Dashboard • Single Line Diagram • PR analysis • Solar radiation & weather data • Graphs and Reports • Generation Analysis • Log Reporting	PowerAMR	1	NO'S	₹ 15,621	₹ 15,621
	• String/ MPPT Monitoring • Plant/ Inverter Performance • Superuser Dashboard for Centralized monitoring • Mobile app on android					
76	Solar Radiation Sensor with mounting kit	Pyra300	1	NO'S	₹ 15,385	₹ 15,385
77	RS 485 CABLE 0.75 MM ,ANNEALED TIN COPPER 2 CORE TWISTED	POLYCAB/BELDEN		RM	₹ 185	₹ -



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District Female Hospital (MCH Wing) Barabanki			DC Solar Capacity (kWp) 205.32			
Barabanki Women 205.32						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
78	UPVC CONDUIT FOR CABLE 20 MM DIA	SUPREME		RM	₹ 112	₹ -
79	2C x 2.5 SQMM XLPE INSULATED FLEXIBLE CABLE with lugs	KEI/POLYCAB		RM	₹ 41	₹ -
80	1C x 4 SQMM CU PVC INSULATED	KEI/POLYCAB		RM	₹ 21	₹ -
81	Installation and Commissioning	KEI/POLYCAB	1	Job	₹ 5,917	₹ 5,917
	CABLE TRAY					
82	50X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & CLAMP	REPUTED		METERS	₹ 368	₹ -
83	75X75X 1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & CLAMP	REPUTED	50	METERS	₹ 547	₹ 27,337
84	100X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	100	METERS	₹ 449	₹ 44,911
85	100X75X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	135	METERS	₹ 531	₹ 71,702
86	150X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED		METERS	₹ 592	₹ -
87	150X75X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED		METERS	₹ 687	₹ -
88	200X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED		METERS	₹ 736	₹ -
89	200X75X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED		METERS	₹ 950	₹ -
90	300X75X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED		METERS	₹ 1,287	₹ -
91	300X100X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED		METERS	₹ 1,390	₹ -
	LIGHTING PROTECTION					
92	ESE TYPE LA RADIUS 50 m	REPUTED		NO'S	₹ 29,231	₹ -
93	ESE TYPE LA RADIUS 70 m	REPUTED		NO'S	₹ 29,793	₹ -
94	ESE TYPE LA RADIUS 90 m	REPUTED		NO'S	₹ 30,355	₹ -
95	ESE TYPE LA RADIUS 107 m	REPUTED	1	NO'S	₹ 31,479	₹ 31,479
96	5 METER MAST	REPUTED	1	NO'S	₹ 5,917	₹ 5,917
97	LIGHTENING STRIKE COUNTER	REPUTED	1	NO'S	₹ 5,917	₹ 5,917
	EARTHING					
98	EARTH ROD CONSISTING OF HIGH TENSILE LOW CARBON STEEL WITH ELECTROLYTIC GRADE 250MM COPPER COATING. ROD DIA 17.2MM	REPUTED	20	NO'S	₹ 1,893	₹ 37,870
99	EARTH ENHANCE COMPOUND	REPUTED	20	SET	₹ 592	₹ 11,834
100	EARTHING PIT CHAMBER PRE CAST	REPUTED	20	SET	₹ 592	₹ 11,834
101	25X3 G.I STRIP GALVANISED	REPUTED	1040	METERS	₹ 65	₹ 67,692
102	25X6 G.I STRIP GALVANISED	REPUTED	650	METERS	₹ 97	₹ 63,077
103	50X3 G.I STRIP GALVANISED	REPUTED		METERS	₹ 97	₹ -
104	50X6 G.I STRIP GALVANISED	REPUTED		METERS	₹ 260	₹ -
105	INSULATOR FOR GI STRIP	REPUTED	560	NO'S	₹ 12	₹ 6,627
106	M8 X 25 with nut & washer	REPUTED	490	NO'S	₹ 9	₹ 4,639
	C CLASS					
	GLANDS					
107	4CX16SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 408	₹ -
108	4CX25 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 408	₹ -
109	4CX35 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	4	NO'S	₹ 495	₹ 1,981
110	4CX50 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 728	₹ -
111	4CX70 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 880	₹ -
112	4CX95SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	4	NO'S	₹ 1,054	₹ 4,214
113	4CX120 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 1,054	₹ -



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District Female Hospital (MCH Wing) Barabanki			DC Solar Capacity (kWp) 205.32			
Barabanki Women 205.32						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
114	4CX150SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 1,243	₹ -
115	4CX185SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 1,396	₹ -
116	4CX240SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 2,106	₹ -
117	4CX 300SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	4	NO'S	₹ 2,446	₹ 9,785
118	4CX 300SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 2,446	₹ -
119	4CX 400SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 2,663	₹ -
	LUGS					
120	LUGS RING TYPE 4 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	1327	NO'S	₹ 5.4	₹ 7,145
121	LUGS RING TYPE 4CX16 SQMM CU. RING TYPE LUGS	DOWEL/COMMET		NO'S	₹ 19	₹ -
122	LUGS RING TYPE 4CX8 SQMM CU. RING TYPE LUGS	DOWEL/COMMET		NO'S		₹ -
123	LUGS RING TYPE 4CX 400 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 34	₹ -
124	LUGS RING TYPE 4CX25 SQMM CU. RING TYPE LUGS	DOWEL/COMMET		NO'S	₹ 26	₹ -
125	LUGS RING TYPE 4CX35 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	16	NO'S	₹ 32	₹ 507
126	LUGS RING TYPE 4CX50 SQMM CU. RING TYPE LUGS	DOWEL/COMMET		NO'S	₹ 48	₹ -
127	LUGS RING TYPE 4CX70 SQMM CU. RING TYPE LUGS	DOWEL/COMMET		NO'S	₹ 19	₹ -
128	LUGS RING TYPE 4CX95 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	16	NO'S	₹ 93	₹ 1,493
129	LUGS RING TYPE 4CX120 SQMM CU. RING TYPE LUGS	DOWEL/COMMET		NO'S	₹ 136	₹ -
130	LUGS RING TYPE 4CX150 SQMM CU. RING TYPE LUGS	DOWEL/COMMET		NO'S	₹ 170	₹ -
131	LUGS RING TYPE 4CX185 SQMM CU. RING TYPE LUGS	DOWEL/COMMET		NO'S	₹ 215	₹ -
132	LUGS RING TYPE 4CX240 SQMM CU. RING TYPE LUGS	DOWEL/COMMET		NO'S	₹ 338	₹ -
133	LUGS RING TYPE 4CX 300 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	16	NO'S	₹ 431	₹ 6,892
134	LUGS RING TYPE 4CX 400 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 500	₹ -
135	M4X20 with two plain washer and nut	DOWEL/COMMET	1327	NO'S	₹ 7	₹ 9,422
	CONNECTORS					
136	MULTICONTACT MC4 CONNECTOR FOR 4 MM2 (FEMALE)	MC/BIZILINK/SABULI/ELCOM	140	NO'S	₹ 50	₹ 6,959
137	MULTICONTACT MC4 CONNECTOR FOR 4 MM2 (MALE)	MC/BIZILINK/SABULI/ELCOM	140	NO'S	₹ 50	₹ 6,959
	CONDUIT					
138	G.I NILON COAT FLEXIBLE CONDUIT 32 MM DIA	SUPREME	100	METERS	₹ 36	₹ 3,550
139	HDPE CONDUIT 25 MM DIA , SMOKE GREY	SUPREME	600	METERS	₹ 30	₹ 17,751
140	UPVC CONDUIT FOR CABLE 20 MM DIA	SUPREME	250	METERS	₹ 24	₹ 5,917
141	UPVC CONDUIT FOR CABLE 40 MM DIA	SUPREME	350	METERS	₹ 47	₹ 16,568
142	CLAMP	SUPREME	550	Nos	₹ 14	₹ 7,811
	PLUMBING SYSTEM FOR SOLAR PLANT					
143	uPVC PIPE 25MM SCH80	PRINCE/ASTRA/PLASTO/SUPREME	450	METERS	₹ 139	₹ 62,680



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District Female Hospital (MCH Wing) Barabanki			DC Solar Capacity (kWp) 205.32			
Barabanki Women 205.32						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
144	uPVC PIPE 20MM SCH80	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 101	₹ 5,044
145	uPVC ELBOW 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	12	METERS	₹ 23	₹ 281
146	uPVC END CAP 20MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	12	METERS	₹ 12	₹ 148
147	uPVC TEE 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	12	METERS	₹ 31	₹ 375
148	uPVC UNION 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	12	METERS	₹ 51	₹ 609
149	uPVC COUPLER 25 MM SCH40	PRINCE/ASTRA/PLASTO/SUP REME	12	METERS	₹ 16	₹ 187
150	REDUCING TEE 2X25XX20 SH40	PRINCE/ASTRA/PLASTO/SUP REME	12	METERS	₹ 31	₹ 375
151	HOSE FOR MODULE CLEANING WITH SPRAY GUN	PRINCE/ASTRA/PLASTO/SUP REME	12	METERS	₹ 101	₹ 1,211
152	BALL VALVE 20MM BRASS	PRINCE/ASTRA/PLASTO/SUP REME	12	METERS	₹ 199	₹ 2,390
153	Telescopic Wiper	REPUTED	1	METERS	₹ 5,917	₹ 5,917
154	WATER TANK OF 1KL	REPUTED	1	METERS	₹ 11,834	₹ 11,834
155	WATER METER (0-100LPM) ANALOG TYPE	REPUTED	3	METERS	₹ 2,959	₹ 8,876
156	MONOBLOCK 1 HP PUMP WITH FITTING AND WIRE	SHAKTI/Kirloskar	3	NO'S	₹ 7,101	₹ 21,302
157	MONOBLOCK 1.5 HP PUMP WITH FITTING AND WIRE	SHAKTI/Kirloskar	0	NO'S	₹ 10,059	₹ -
FIRE PROTECTION						
158	ABC FIRE PROTECTION 4.5 KG	REPUTED	3	NO'S	₹ 2,722	₹ 8,166
159	CO2 FIRE PROTECTION 4.5 KG	REPUTED	3	NO'S	₹ 5,917	₹ 17,751
160	FIRE SAND BUCKETS WITH 2 BUCKET EACH WITH STAND	REPUTED	3	NO'S	₹ 1,893	₹ 5,680
161	FIRST AID BOX AS PER BOCW ACT	REPUTED	3	NO'S	₹ 5,917	₹ 17,751
CABLE TIE						
162	CABLE TIE 100 UV RESISTANT BLACK 100PCS PACKET	KSS/SUPERFLEX	24	PACKET	₹ 178	₹ 4,260
163	CABLE TIE 200 UV RESISTANT BLACK 100PCS PACKET	KSS/SUPERFLEX	24	PACKET	₹ 237	₹ 5,680
SAFETY TAGS						
164	SHOCK TREATMENT CHART, SAFETY CHARTS	REPUTED	3	NO'S	₹ 592	₹ 1,775
165	DO'S & DON'TS CHARTS	REPUTED	3	NO'S	₹ 355	₹ 1,065
166	HEAT SHRINKABLE SLEEVE (AS PER CABLE SIZE COLUR)	REPUTED	3	NO'S	₹ 355	₹ 1,065
167	CAUTION DANGER BOARD	REPUTED	3	NO'S	₹ 592	₹ 1,775
168	RUBBER MAT FOR INVERTER & ACDB	REPUTED	1	NO'S	₹ 1,775	₹ 1,775
169	SOLAR CABLE FERULES WITH AL TAG	REPUTED	1	NO'S	₹ 592	₹ 592
170	AC CABLE FERULES WITH AL TAG	REPUTED	1	NO'S	₹ 592	₹ 592
171	INSULATION TAP	REPUTED	1	NO'S	₹ 59	₹ 59
172	PLANT DISPLAY BOARD	REPUTED	1	NO'S	₹ 10,059	₹ 10,059
INSTALLATION WORK						
173	MS STAND FOR INVERTER MOUNTING	LOCAL	3	SET	₹ 3,550	₹ 10,651
174	MS STAND FOR ACDB MOUNTING	LOCAL	3	SET	₹ 3,550	₹ 10,651
175	ACCESS LADDER	LOCAL	2	SET	₹ 35,503	₹ 71,006
176	DOOR & LOCK REPAIR	LOCAL	2	SET	₹ 2,959	₹ 5,917



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District Female Hospital (MCH Wing) Barabanki				DC Solar Capacity (kWp) 205.32		
Barabanki Women 205.32						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
177	INV & ACDB CAGE	LOCAL	6	SET	₹ 11,834	₹ 71,006
						₹ 6,487,682
	INSTALLATION & COMMISSIONING					
1	INSTALLATION & COMMISSIONING OF RCC ROOF		205	KWp	₹ 2,700	₹ 554,364
2	M25 GRADE RCC FOUNDATION FOR RCC ROOF				₹ 888	₹ -
3	M25 GRADE RCC FOUNDATION FOR RCC ROOF (Raised structure)		205	NO'S	₹ 1,183	₹ 242,982
4					1300	₹ -
5	NitoBond		22.81	LTR	₹ 1,065	₹ 24,295
6	Other Services		1.00	LTR	₹ 41,420	₹ 41,420
	TOTAL OF I&C					₹ 863,061
	APPROVALS_LT SIDE					
1	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (= <500 kWp)		205	KWp		₹ 177,515
2	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (500 - 900 kWp)					
3	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (>=900 kWp)					
4	NET METERING- METER HARDWARE (<500 kWp)		205	KWp		₹ 295,858
5	NET METERING- METER HARDWARE (500 - 900 kWp)					
6	NET METERING- METER HARDWARE (> 900 kWp)					
	TOTAL OF APPROVAL					₹ 473,373
	OPTIONAL ITEM					
1	Spreader / Modification charges in existing panel	REPUTED		NO'S	As per Actual Cost	
2	UPS 500 VA WITH 30 MINS BACKUP WITH BATTERY	REPUTED		NO'S	₹ 2,604	
3	MFM SCHNIEDER EM6400 NG	REPUTED		NO'S	₹ 8,796	
4	DG Synch Controller	REPUTED		NO'S	As per Actual Cost	
5	Any other Item as may be required by OMC			NO'S	As per Actual Cost	
6	Transportation					₹ 47,778
Total amount						₹ 7,871,894



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ANNEXURE B3 - Balrampur Hospital, Lucknow

DC Solar Capacity (kWp) 746.46

Balrampur 746.46						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
MODULE						
1	MODULE-580 WP, N-TYPE BIFACIAL MODULE	PANASONIC/JAKSON	1287	NO'S	₹ 8,678	₹ 11,168,908
INVERTER						
2	STRING INVERTER 20 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI	1	NO'S	₹ 93,678	₹ 93,678
3	STRING INVERTER 25 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI	1	NO'S	₹ 96,741	₹ 96,741
4	STRING INVERTER 30 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 131,502	-
5	STRING INVERTER 40 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI	7	NO'S	₹ 156,247	₹ 1,093,727
6	STRING INVERTER 50 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 170,622	-
7	STRING INVERTER 60 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI	3	NO'S	₹ 178,989	₹ 536,967
8	STRING INVERTER 70 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 242,737	-
9	STRING INVERTER 80 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI	2	NO'S	₹ 248,747	₹ 497,493
10	STRING INVERTER 100 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 294,466	-
11	STRING INVERTER 110 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 303,333	-
12	STRING INVERTER 125 KW, 400V GRID CONNECTED	GROWATT/SOLIS		NO'S	₹ 314,740	-
STEEL STRUCTURE						
13	MS HDGI Module mounting structure Struture with minimum 80 micron coating	JAKSON/REPUTED	32844	KG	₹ 100	₹ 3,284,424
14	J BOLT	JAKSON/REPUTED	0	No	₹ 77	-
15	J BOLT/Anchor	JAKSON/REPUTED	1432	No	₹ 130	₹ 186,414
16	Blast Type Structure	JAKSON/REPUTED	35	Wp	₹ 3,550	₹ 124,260
FASTNERS						
17	Fastners, Washers & Others	REPUTED	746	KWp	₹ 370	₹ 276,190
BOS						
DC CABLE						
18	CABLE 1CX4 SQMM CU. XLPO/XLPE	POLYCAB/KEI/APAR	11583	METERS	₹ 43	₹ 500,331
19	CABLE 1CX 6 SQMM CU. XLPO/XLPE	POLYCAB/KEI/APAR	0	METERS	₹ 69	-
AC CABLE COPPER FRLS						
20	2C x 2.5 SQMM XLPE INSULATED FLEXIABLE CABLE	KEI/POLYCAB	300	METERS	₹ 71	₹ 21,249
AC CABLE ALUMINIUM FRLS OUTER SHEATH						
21	3.5C x 25 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	65	METERS	₹ 189	₹ 12,280
22	3.5C x 35 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	200	METERS	₹ 239	₹ 47,805
23	3.5C x 50 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	170	METERS	₹ 324	₹ 55,008
24	3.5C x 70 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	20	METERS	₹ 436	₹ 8,719
25	3.5C x 95 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	225	METERS	₹ 545	₹ 122,514
26	3.5C x 120 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 682	-



Balrampur Hospital, Lucknow

DC Solar Capacity (kWp) 746.46

Balrampur 746.46						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
27	3.5C x 150 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 808	₹ -
28	3.5C x 185 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	75	METERS	₹ 1,023	₹ 76,744
29	3.5C x 240 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	20	METERS	₹ 1,285	₹ 25,698
30	3.5C x 300 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,581	₹ -
31	3.5C x 400 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 2,020	₹ -
32	4C x 16SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	65	METERS	₹ 161	₹ 10,448
33	4C x 25 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 202	₹ -
34	4 C x 35 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 272	₹ -
35	4C x 50 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 364	₹ -
36	4C x 70 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 494	₹ -
37	4C x 95 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 617	₹ -
38	4C x 120 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 752	₹ -
39	4C x 150 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 924	₹ -
40	4C x 185 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,137	₹ -
41	4C x 240 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,468	₹ -
42	4C x 300 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,810	₹ -
43	4C x 400 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 2,327	₹ -
EARTHING CABLE						
44	1C x 4 SQMM CU PVC INSULATED	KEI/POLYCAB	460	METERS	₹ 44	₹ 20,240
45	1C x 6 SQMM CU PVC INSULATED	KEI/POLYCAB		METERS	₹ 65	₹ -
46	1C x 25 SQMM CU PVC INSULATED	KEI/POLYCAB	10	METERS	₹ 357	₹ 3,570
47	1C x 35 SQMM CU PVC INSULATED	KEI/POLYCAB		METERS	₹ 490	₹ -
48	1C x 50 SQMM CU PVC INSULATED	KEI/POLYCAB	40	METERS	₹ 684	₹ 27,365
49	1C x 70 SQMM CU PVC INSULATED	KEI/POLYCAB		METERS	₹ 940	₹ -
COMMUNICATION CABLE						
50	RS 485 CABLE 0.75 MM ,ANNEALED TIN COPPER 2 CORE TWISTED	POLYCAB/BELDEN	900	METERS	₹ 166	₹ 149,112
PANEL						
51	ACDB PANEL 20 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	1	NO'S	₹ 70,414	₹ 70,414
52	ACDB PANEL 25 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	1	NO'S	₹ 70,414	₹ 70,414
53	ACDB PANEL 30 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
54	ACDB PANEL 40 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	2	NO'S	₹ 70,414	₹ 140,828
55	ACDB PANEL 50 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	3	NO'S	₹ 70,414	₹ 211,242
56	ACDB PANEL 60 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	1	NO'S	₹ 76,923	₹ 76,923
57	ENERGY METER(Premier 300, Class 0.5)	REPUTED	1	NO'S	₹ 79,882	₹ 79,882
58	ACDB PANEL 80 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 79,882	₹ -



Balrampur Hospital, Lucknow			DC Solar Capacity (kWp) 746.46			
Balrampur 746.46						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
59	ACDB PANEL 100 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	1	NO'S	₹ 86,509	₹ 86,509
60	ACDB PANEL 110 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 89,586	₹ -
61	ACDB PANEL 125 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 89,586	₹ -
62	ACDB PANEL 200 KW (100+100) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 170,296	₹ -
63	ACDB PANEL 120 KW (40+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 146,982	₹ -
64	ACDB PANEL 140 KW (60+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED	1	NO'S	₹ 165,680	₹ 165,680
65	ACDB PANEL 150 KW (70+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 167,811	₹ -
66	ACDB PANEL 220 KW (70+70+80) 415 V (3 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 217,278	₹ -
67	ACDB PANEL 220 KW (50+50+80+40) 415 V (4 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 217,278	₹ -
68	ACDB PANEL 80 KW (40+40) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED	1	NO'S	₹ 127,101	₹ 127,101
69	ENERGY METER(Premier 300, Class 0.5)	REPUTED		NO'S	₹ 29,586	₹ -
70	ACDB PANEL 4 in 1 out (50+50+100+40)KW	REPUTED		NO'S	₹ 218,935	₹ -
	REMOTE MONORTING SYSTEM					
	REMOTE MONORTING SYSTEM	Power AMR/Equivalent				
71	4G based Plug and Play - RTU, Smart data logger with antenna to connect upto 4 inverters/ MFN/ Sensors on modbus RS485 RTU • modbus RS485 RTU- 1 port • 2 digital / analog ports (0 to 5 V) • 1 analog port (4 -20 m amp) • Built in memory help store and send data in case of network failure	E Track 4G Lite	2	NO'S	₹ 16,568	₹ 33,136
72	RS485 Communication SPD citel make (optional)	Citel -DLA-06-D3	2	NO'S	₹ 2,130	₹ 4,260
73	Line SPD citel make (optional)	Citel- DS-240-320	2	NO'S	₹ 3,314	₹ 6,627
74	IP67 enclosure box along with SMPS power supply, glands and fitment in one unit to house the data logge	Boxomatic/ ERD	1	NO'S	₹ 3,550	₹ 3,550
75	Access to Web portal- per MW per annum Data frequency – 10 minute Key Components • Interactive Dashboard • Single Line Diagram • PR analysis • Solar radiation & weather data • Graphs and Reports • Generation Analysis • Log Reporting • String/ MPPT Monitoring • Plant/ Inverter Performance • Superuser Dashboard for Centralized monitoring • Mobile app on android	PowerAMR	1	NO'S	₹ 15,621	₹ 15,621
76	Solar Radiation Sensor with mounting kit	Pyra300	1	NO'S	₹ 15,385	₹ 15,385
77	RS 485 CABLE 0.75 MM ,ANNEALED TIN COPPER 2 CORE TWISTED	POLYCAB/BELDEN		RM	₹ 185	₹ -



Balrampur Hospital, Lucknow

DC Solar Capacity (kWp) 746.46

Balrampur 746.46						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
78	UPVC CONDUIT FOR CABLE 20 MM DIA	SUPREME		RM	₹ 112	₹ -
79	2C x 2.5 SQMM XLPE INSULATED FLEXIBLE CABLE with lugs	KEI/POLYCAB		RM	₹ 41	₹ -
80	1C x 4 SQMM CU PVC INSULATED	KEI/POLYCAB		RM	₹ 21	₹ -
81	Installation and Commissioning	KEI/POLYCAB	1	Job	₹ 5,917	₹ 5,917
CABLE TRAY						
82	50X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & CLAMP	REPUTED	720	METERS	₹ 368	₹ 265,250
83	75X75X 1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & CLAMP	REPUTED	95	METERS	₹ 547	₹ 51,941
84	100X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 449	₹ -
85	100X75X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 531	₹ -
86	150X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 592	₹ -
87	150X75X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 687	₹ -
88	200X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 736	₹ -
89	200X75X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 950	₹ -
90	300X75X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 1,287	₹ -
91	300X100X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 1,390	₹ -
LIGHTING PROTECTION						
92	ESE TYPE LA RADIUS 50 m	REPUTED		NO'S	₹ 29,231	₹ -
93	ESE TYPE LA RADIUS 70 m	REPUTED		NO'S	₹ 29,793	₹ -
94	ESE TYPE LA RADIUS 90 m	REPUTED		NO'S	₹ 30,355	₹ -
95	ESE TYPE LA RADIUS 107 m	REPUTED	2	NO'S	₹ 31,479	₹ 62,959
96	5 METER MAST	REPUTED	2	NO'S	₹ 5,917	₹ 11,834
97	LIGHTENING STRIKE COUNTER	REPUTED	2	NO'S	₹ 5,917	₹ 11,834
EARTHING						
98	EARTH ROD CONSISTING OF HIGH TENSILE LOW CARBON STEEL WITH ELECTROLYTIC GRADE 250MM COPPER COATING. ROD DIA 17.2MM	REPUTED	52	NO'S	₹ 1,893	₹ 98,462
99	EARTH ENHANCE COMPOUND	REPUTED	52	SET	₹ 592	₹ 30,769
100	EARTHING PIT CHAMBER PRE CAST	REPUTED	52	SET	₹ 592	₹ 30,769
101	25X3 G.I STRIP GALVANISED	REPUTED	1360	METERS	₹ 65	₹ 88,521
102	25X6 G.I STRIP GALVANISED	REPUTED	1470	METERS	₹ 97	₹ 142,651
103	50X3 G.I STRIP GALVANISED	REPUTED	0	METERS	₹ 97	₹ -
104	50X6 G.I STRIP GALVANISED	REPUTED	0	METERS	₹ 260	₹ -
105	INSULATOR FOR GI STRIP	REPUTED	566	NO'S	₹ 12	₹ 6,698
106	M8 X 25 with nut & washer	REPUTED	943	NO'S	₹ 9	₹ 8,928
C CLASS						
GLANDS						
107	4CX16SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	8	NO'S	₹ 408	₹ 3,266
108	4CX25 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	8	NO'S	₹ 408	₹ 3,266
109	4CX35 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	8	NO'S	₹ 495	₹ 3,962
110	4CX50 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	8	NO'S	₹ 728	₹ 5,822
111	4CX70 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	8	NO'S	₹ 880	₹ 7,037
112	4CX95SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	8	NO'S	₹ 1,054	₹ 8,428
113	4CX120 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 1,054	₹ -



Balrampur Hospital, Lucknow			DC Solar Capacity (kWp) 746.46			
Balrampur 746.46						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
114	4CX150SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 1,243	₹ -
115	4CX185SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	8	NO'S	₹ 1,396	₹ 11,169
116	4CX240SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	8	NO'S	₹ 2,106	₹ 16,850
117	4CX 300SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 2,446	₹ -
118	4CX 300SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 2,446	₹ -
119	4CX 400SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 2,663	₹ -
	LUGS					
120	LUGS RING TYPE 4 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	2703	NO'S	₹ 5.4	₹ 14,555
121	LUGS RING TYPE 4CX16 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 19	₹ -
122	LUGS RING TYPE 1X25 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	9	NO'S	₹ 26	₹ 237
123	LUGS RING TYPE 1X50 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	12	NO'S	₹ 34	₹ 408
124	LUGS RING TYPE 4CX25 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	32	NO'S	₹ 26	₹ 844
125	LUGS RING TYPE 4CX35 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	32	NO'S	₹ 32	₹ 1,014
126	LUGS RING TYPE 4CX50 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	32	NO'S	₹ 48	₹ 1,527
127	LUGS RING TYPE 4CX70 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	32	NO'S	₹ 19	₹ 599
128	LUGS RING TYPE 4CX95 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	32	NO'S	₹ 93	₹ 2,986
129	LUGS RING TYPE 4CX120 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 136	₹ -
130	LUGS RING TYPE 4CX150 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 170	₹ -
131	LUGS RING TYPE 4CX185 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	32	NO'S	₹ 215	₹ 6,892
132	LUGS RING TYPE 4CX240 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	32	NO'S	₹ 338	₹ 10,831
133	LUGS RING TYPE 4CX 300 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 431	₹ -
134	LUGS RING TYPE 4CX 400 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 500	₹ -
135	M4X20 with two plain washer and nut	DOWEL/COMMET	2703	NO'S	₹ 7	₹ 19,191
	CONNECTORS					
136	MULTICONTACT MC4 CONNECTOR FOR 4 MM2 (FEMALE)	MC/BIZILINK/SABULI/ELCOM	290	NO'S	₹ 50	₹ 14,414
137	MULTICONTACT MC4 CONNECTOR FOR 4 MM2 (MALE)	MC/BIZILINK/SABULI/ELCOM	290	NO'S	₹ 50	₹ 14,414
	CONDUIT					
138	G.I NILON COAT FLEXIBLE CONDUIT 32 MM DIA	SUPREME	0	METERS	₹ 36	₹ -
139	HDPE CONDUIT 25 MM DIA , SMOKE GREY	SUPREME	0	METERS	₹ 30	₹ -
140	UPVC CONDUIT FOR CABLE 20 MM DIA	SUPREME	1555	METERS	₹ 24	₹ 36,805
141	UPVC CONDUIT FOR CABLE 40 MM DIA	SUPREME	1260	METERS	₹ 47	₹ 59,645
142	CLAMP	SUPREME	1615	Nos	₹ 14	₹ 22,935
	PLUMBING SYSTEM FOR SOLAR PLANT					
143	UPVC PIPE 25MM SCH80	PRINCE/ASTRA/PLASTO/SUPREME	580	METERS	₹ 139	₹ 80,798



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Balrampur Hospital, Lucknow			DC Solar Capacity (kWp) 746.46			
Balrampur 746.46						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
144	uPVC PIPE 20MM SCH80	PRINCE/ASTRA/PLASTO/SUP REME	180	METERS	₹ 101	₹ 18,160
145	uPVC ELBOW 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	30	METERS	₹ 23	₹ 703
146	uPVC END CAP 20MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	30	METERS	₹ 12	₹ 37
147	uPVC TEE 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	30	METERS	₹ 31	₹ 937
148	uPVC UNION 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	30	METERS	₹ 51	₹ 1,523
149	uPVC COUPLER 25 MM SCH40	PRINCE/ASTRA/PLASTO/SUP REME	30	METERS	₹ 16	₹ 469
150	REDUCING TEE 2X25XX20 SH40	PRINCE/ASTRA/PLASTO/SUP REME	30	METERS	₹ 31	₹ 937
151	HOSE FOR MODULE CLEANING WITH SPRAY GUN	PRINCE/ASTRA/PLASTO/SUP REME	30	METERS	₹ 101	₹ 3,027
152	BALL VALVE 20MM BRASS	PRINCE/ASTRA/PLASTO/SUP REME	30	METERS	₹ 199	₹ 5,975
153	Telescopic Wiper	REPUTED	5	METERS	₹ 5,917	₹ 29,586
154	WATER TANK OF 1KL	REPUTED	1	METERS	₹ 11,834	₹ 11,834
155	WATER METER (0-100LPM) ANALOG TYPE	REPUTED	12	METERS	₹ 2,959	₹ 35,503
156	MONOBLOCK 1 HP PUMP WITH FITTING AND WIRE	SHAKTI/Kirloskar	12	NO'S	₹ 7,101	₹ 85,207
157	MONOBLOCK 1.5 HP PUMP WITH FITTING AND WIRE	SHAKTI/Kirloskar	0	NO'S	₹ 10,059	₹ -
FIRE PROTECTION						
158	ABC FIRE PROTECTION 4.5 KG	REPUTED	12	NO'S	₹ 2,722	₹ 32,663
159	CO2 FIRE PROTECTION 4.5 KG	REPUTED	12	NO'S	₹ 5,917	₹ 71,006
160	FIRE SAND BUCKETS WITH 2 BUCKET EACH WITH STAND	REPUTED	12	NO'S	₹ 1,893	₹ 22,722
161	FIRST AID BOX AS PER BOCW ACT	REPUTED	10	NO'S	₹ 5,917	₹ 59,172
CABLE TIE						
162	CABLE TIE 100 UV RESISTANT BLACK 100PCS PACKET	KSS/SUPERFLEX	60	PACKET	₹ 178	₹ 10,651
163	CABLE TIE 200 UV RESISTANT BLACK 100PCS PACKET	KSS/SUPERFLEX	60	PACKET	₹ 237	₹ 14,201
SAFETY TAGS						
164	SHOCK TREATMENT CHART, SAFETY CHARTS	REPUTED	12	NO'S	₹ 592	₹ 7,101
165	DO'S & DON'TS CHARTS	REPUTED	12	NO'S	₹ 355	₹ 4,260
166	HEAT SHRINKABLE SLEEVE (AS PER CABLE SIZE COLUR)	REPUTED	24	NO'S	₹ 355	₹ 8,521
167	CAUTION DANGER BOARD	REPUTED	13	NO'S	₹ 592	₹ 7,692
168	RUBBER MAT FOR INVERTER & ACDB	REPUTED	12	NO'S	₹ 1,775	₹ 21,302
169	SOLAR CABLE FERULES WITH AL TAG	REPUTED	12	NO'S	₹ 592	₹ 7,101
170	AC CABLE FERULES WITH AL TAG	REPUTED	12	NO'S	₹ 592	₹ 7,101
171	INSULATION TAP	REPUTED	12	NO'S	₹ 59	₹ 710
172	PLANT DISPLAY BOARD	REPUTED	12	NO'S	₹ 10,059	₹ 120,710
INSTALLATION WORK						
173	MS STAND FOR INVERTER MOUNTING	LOCAL	14	SET	₹ 3,550	₹ 49,704
174	MS STAND FOR ACDB MOUNTING	LOCAL	14	SET	₹ 3,550	₹ 49,704
175	ACCESS LADDER	LOCAL	2	SET	₹ 35,503	₹ 71,006
176	DOOR & LOCK REPAIR	LOCAL	3	SET	₹ 2,959	₹ 8,876



Balrampur Hospital, Lucknow			DC Solar Capacity (kWp) 746.46			
Balrampur 746.46						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
177	INV & ACDB CAGE	LOCAL	28	SET	₹ 11,834	₹ 331,361
						₹ 21,811,674
	INSTALLATION & COMMISSIONING					
1	INSTALLATION & COMMISSIONING OF RCC ROOF		711	KWp	₹ 2,700	₹ 1,919,700
2	M25 GRADE RCC FOUNDATION FOR RCC ROOF				₹ 888	₹ -
3	M25 GRADE RCC FOUNDATION FOR RCC ROOF (Raised structure)		826	NO'S	₹ 1,183	₹ 977,515
4	CIVIL FOR BLAST TYPE		80	NO'S	₹ 1,300	₹ 104,000
5	NitoBond		86	LTR	₹ 1,065	₹ 91,385
6	Other Services		1.00	LTR	₹ 41,420	₹ 41,420
	TOTAL OF I&C					₹ 3,134,019
	APPROVALS_LT SIDE					
1	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (=<500 kWp)					
2	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (500 - 900 kWp)		746	KWp		₹ 264,852
3	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (>=900 kWp)					
4	NET METERING- METER HARDWARE (<500 kWp)					
5	NET METERING- METER HARDWARE (500 - 900 kWp)		746	KWp		₹ 441,420
6	NET METERING- METER HARDWARE (> 900 kWp)					
	TOTAL OF APPROVAL					₹ 706,272
	OPTIONAL ITEM					
1	Spreader / Modification charges in existing panel	REPUTED		NO'S	As per Actual Cost	
2	UPS 500 VA WITH 30 MINS BACKUP WITH BATTERY	REPUTED		NO'S	₹ 2,604	
3	MFM SCHNIEDER EM6400 NG	REPUTED		NO'S	₹ 8,796	
4	DG Synch Controller	REPUTED		NO'S	As per Actual Cost	
5	Any other Item as may be required by OMC			NO'S	As per Actual Cost	
6	Transportation					₹ 200,000
Total amount						₹ 25,851,965



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ANNEXURE B3 - Netaji Subhash Chandra Bose District Hospital, Gorakhpur				DC Solar Capacity (kWp) 450.08		
Gorakhpur 450						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
MODULE						
1	MODULE-580 WP, N-TYPE BIFACIAL MODULE	PANASONIC/JAKSON	776	NO'S	₹ 8,678	₹ 6,734,322
INVERTER						
2	STRING INVERTER 20 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 93,578	₹ -
3	STRING INVERTER 25 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 96,741	₹ -
4	STRING INVERTER 30 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI	1	NO'S	₹ 131,502	₹ 131,502
5	STRING INVERTER 40 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 156,247	₹ -
6	STRING INVERTER 50 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 170,622	₹ -
7	STRING INVERTER 60 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 178,989	₹ -
8	STRING INVERTER 70 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI	4	NO'S	₹ 242,737	₹ 970,947
9	STRING INVERTER 80 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI	1	NO'S	₹ 248,747	₹ 248,747
10	STRING INVERTER 100 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 294,466	₹ -
11	STRING INVERTER 110 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 303,333	₹ -
12	STRING INVERTER 125 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 314,740	₹ -
STEEL STRUCTURE						
13	MS HDGI Module mounting structure Struture with minimum 80 micron coating	JAKSON/REPUTED	16203	KG	₹ 100	₹ 1,620,288
14	J BOLT	JAKSON/REPUTED	0	No	₹ 77	₹ -
15	J BOLT/Anchor	JAKSON/REPUTED	1552	No	₹ 130	₹ 202,036
16	Blast Type Structure	JAKSON/REPUTED	0	KG	₹ 3,550	₹ -
FASTNERS						
17	Fastners, Washers & Others (Anti-theft bolt)	REPUTED	450	KWp	₹ 370	₹ 166,530
BOS						
DC CABLE						
18	CABLE 1CX4 SQMM CU. XLPO/XLPE	POLYCAB/KEI/APAR	6984	METERS	₹ 43	₹ 301,676
19	CABLE 1CX 6 SQMM CU. XLPO/XLPE	POLYCAB/KEI/APAR	0	METERS	₹ 69	₹ -
AC CABLE COPPER FRLS						
20	2C x 2.5 SQMM XLPE INSULATED FLEXIABLE CABLE	KEI/POLYCAB	900	METERS	₹ 71	₹ 63,746
AC CABLE ALUMINIUM FRLS OUTER SHEATH						
21	3.5C x 25 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	20	METERS	₹ 189	₹ 3,779
22	3.5C x 35 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 239	₹ -
23	3.5C x 50 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	80	METERS	₹ 324	₹ 25,886
24	3.5C x 70 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	100	METERS	₹ 436	₹ 43,596
25	3.5C x 95 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	160	METERS	₹ 545	₹ 87,121
26	3.5C x 120 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 682	₹ -



Netaji Subhash Chandra Bose District Hospital, Gorakhpur			DC Solar Capacity (kWp) 450.08			
Gorakhpur 450						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
27	3.5C x 150 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	140	METERS	₹ 808	₹ 113,153
28	3.5C x 185 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,023	₹ -
29	3.5C x 240 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,285	₹ -
30	3.5C x 300 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,581	₹ -
31	3.5C x 400 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 2,020	₹ -
32	4C x 16SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 161	₹ -
33	4C x 25 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 202	₹ -
34	4 C x 35 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 272	₹ -
35	4C x 50 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 364	₹ -
36	4C x 70 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 494	₹ -
37	4C x 95 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 617	₹ -
38	4C x 120 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 752	₹ -
39	4C x 150 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 924	₹ -
40	4C x 185 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,137	₹ -
41	4C x 240 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,468	₹ -
42	4C x 300 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,810	₹ -
43	4C x 400 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 2,327	₹ -
	EARTHING CABLE					
44	1C x 4 SQMM CU PVC INSULATED	KEI/POLYCAB	360	METERS	₹ 44	₹ 15,858
45	1C x 6 SQMM CU PVC INSULATED	KEI/POLYCAB	0	METERS	₹ 65	₹ -
46	1C x 25 SQMM CU PVC INSULATED	KEI/POLYCAB	0	METERS	₹ 357	₹ -
47	1C x 35 SQMM CU PVC INSULATED	KEI/POLYCAB	120	METERS	₹ 490	₹ 58,817
48	1C x 50 SQMM CU PVC INSULATED	KEI/POLYCAB	20	METERS	₹ 684	₹ 13,683
49	1C x 70 SQMM CU PVC INSULATED	KEI/POLYCAB		METERS	₹ 940	₹ -
	COMMUNICATION CABLE					
50	RS 485 CABLE 0.75 MM ,ANNEALED TIN COPPER 2 CORE TWISTED	POLYCAB/BELDEN	600	METERS	₹ 166	₹ 99,408
	PANEL					
51	ACDB PANEL 20 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
52	ACDB PANEL 25 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
53	ACDB PANEL 30 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	1	NO'S	₹ 70,414	₹ 70,414
54	ACDB PANEL 40 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
55	ACDB PANEL 50 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
56	ACDB PANEL 60 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 76,923	₹ -
57	ACDB PANEL 70 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	2	NO'S	₹ 79,882	₹ 159,763
58	ACDB PANEL 80 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 79,882	₹ -



Netaji Subhash Chandra Bose District Hospital, Gorakhpur			DC Solar Capacity (kWp) 450.08			
Gorakhpur 450						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
59	ACDB PANEL 100 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 86,509	₹ -
60	ACDB PANEL 110 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 89,586	₹ -
61	ACDB PANEL 125 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 89,586	₹ -
62	ACDB PANEL 200 KW (100+100) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 170,296	₹ -
63	ACDB PANEL 120 KW (40+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 146,982	₹ -
64	ACDB PANEL 140 KW (60+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 165,680	₹ -
65	ACDB PANEL 150 KW (70+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 167,811	₹ -
66	ACDB PANEL 220 KW (70+70+80) 415 V (3 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED	1	NO'S	₹ 217,278	₹ 217,278
67	ACDB PANEL 220 KW (50+50+80+40) 415 V (4 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 217,278	₹ -
68	ACDB PANEL 80 KW (40+40) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 127,101	₹ -
69	ENERGY METER(Premier 300, Class 0.5)	REPUTED		NO'S	₹ 29,586	₹ -
70	ACDB PANEL 4 in 1 out (50+50+100+40)KW	REPUTED		NO'S	₹ 218,935	₹ -
	REMOTE MONORTING SYSTEM					
	REMOTE MONORTING SYSTEM	Power AMR/Equivalent				
71	4G based Plug and Play - RTU, Smart data logger with antenna to connect upto 4 inverters/ MFM/ Sensors on modbus RS485 RTU • modbus RS485 RTU- 1 port • 2 digital / analog ports (0 to 5 V) • 1 analog port (4 -20 m amp) • Built in memory help store and send data in case of network failure	E Track 4G Lite	2	NO'S	₹ 16,568	₹ 33,136
72	RS485 Communication SPD citel make (optional)	Citel -DLA-06-D3	2	NO'S	₹ 2,130	₹ 4,260
73	Line SPD citel make (optional)	Citel- DS-240-320	2	NO'S	₹ 3,314	₹ 6,627
74	IP67 enclosure box along with SMPS power supply, glands and fitment in one unit to house the data logge	Boxomatic/ ERD	1	NO'S	₹ 3,550	₹ 3,550
75	Access to Web portal- per MW per annum Data frequency - 10 minute Key Components • Interactive Dashboard • Single Line Diagram • PR analysis • Solar radiation & weather data • Graphs and Reports • Generation Analysis • Log Reporting • String/ MPPT Monitoring • Plant/ Inverter Performance	PowerAMR	1	NO'S	₹ 15,621	₹ 15,621
	• Superuser Dashboard for Centralized monitoring • Mobile app on android					
76	Solar Radiation Sensor with mounting kit	Pyra300	1	NO'S	₹ 15,385	₹ 15,385
77	RS 485 CABLE 0.75 MM ,ANNEALED TIN COPPER 2 CORE TWISTED	POLYCAB/BELDEN		RM	₹ 185	₹ -



Netaji Subhash Chandra Bose District Hospital, Gorakhpur

DC Solar Capacity (kWp) 450.08

Gorakhpur 450

S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
78	UPVC CONDUIT FOR CABLE 20 MM DIA	SUPREME		RM	₹ 112	₹ -
79	2C x 2.5 SQMM XLPE INSULATED FLEXIBLE CABLE with lugs	KEI/POLYCAB		RM	₹ 41	₹ -
80	1C x 4 SQMM CU PVC INSULATED	KEI/POLYCAB		RM	₹ 21	₹ -
81	Installation and Commissioning	KEI/POLYCAB	1	Job	₹ 5,917	₹ 5,917
	CABLE TRAY					
82	50X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & CLAMP	REPUTED	360	METERS	₹ 368	₹ 132,625
83	75X75X 1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & CLAMP	REPUTED	140	METERS	₹ 547	₹ 76,544
84	100X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 449	₹ -
85	100X75X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 531	₹ -
86	150X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 592	₹ -
87	150X75X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 687	₹ -
88	200X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 736	₹ -
89	200X75X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 950	₹ -
90	300X75X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 1,287	₹ -
91	300X100X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 1,390	₹ -
	LIGHTING PROTECTION					
92	ESE TYPE LA RADIUS 50 m	REPUTED		NO'S	₹ 29,231	₹ -
93	ESE TYPE LA RADIUS 70 m	REPUTED		NO'S	₹ 29,793	₹ -
94	ESE TYPE LA RADIUS 90 m	REPUTED		NO'S	₹ 30,355	₹ -
95	ESE TYPE LA RADIUS 107 m	REPUTED	1	NO'S	₹ 31,479	₹ 31,479
96	5 METER MAST	REPUTED	1	NO'S	₹ 5,917	₹ 5,917
97	LIGHTENING STRIKE COUNTER	REPUTED	1	NO'S	₹ 5,917	₹ 5,917
	EARTHING					
98	EARTH ROD CONSISTING OF HIGH TENSILE LOW CARBON STEEL WITH ELECTROLYTIC GRADE 250MM COPPER COATING. ROD DIA 17.2MM	REPUTED	32	NO'S	₹ 1,893	₹ 60,592
99	EARTH ENHANCE COMPOUND	REPUTED	32	SET	₹ 592	₹ 18,935
100	EARTHING PIT CHAMBER PRE CAST	REPUTED	32	SET	₹ 592	₹ 18,935
101	25X3 G.I STRIP GALVANISED	REPUTED	1000	METERS	₹ 65	₹ 65,089
102	25X6 G.I STRIP GALVANISED	REPUTED	0	METERS	₹ 97	₹ -
103	50X3 G.I STRIP GALVANISED	REPUTED	300	METERS	₹ 97	₹ 29,112
104	50X6 G.I STRIP GALVANISED	REPUTED	80	METERS	₹ 260	₹ 20,828
105	M8 X 25 with nut & washer	REPUTED	490	NO'S	₹ 12	₹ 5,799
106	INSULATOR FOR GI STRIP	REPUTED	550	NO'S	₹ 9	₹ 5,207
	C CLASS					
	GLANDS					
107	4CX16SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 408	₹ -
108	4CX25 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	2	NO'S	₹ 408	₹ 817
109	4CX35 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 495	₹ -
110	4CX50 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	2	NO'S	₹ 728	₹ 1,456
111	4CX70 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	8	NO'S	₹ 880	₹ 7,037
112	4CX95SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	6	NO'S	₹ 1,054	₹ 6,321
113	4CX120 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 1,054	₹ -



Netaji Subhash Chandra Bose District Hospital, Gorakhpur					DC Solar Capacity (kWp) 450.03	
Gorakhpur 450						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
114	4CX150SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	4	NO'S	₹ 1,243	₹ 4,974
115	4CX185SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 1,396	₹ -
116	4CX240SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 2,106	₹ -
117	4CX 300SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 2,446	₹ -
118	4CX 300SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 2,446	₹ -
119	4CX 400SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 2,663	₹ -
	LUGS					
120	LUGS RING TYPE 4 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	1327	NO'S	₹ 5.4	₹ 7,145
121	LUGS RING TYPE 4CX16 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 19	₹ -
122					26,36923077	₹ -
123					34	₹ -
124	LUGS RING TYPE 4CX25 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	8	NO'S	₹ 26	₹ 211
125	LUGS RING TYPE 4CX35 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 32	₹ -
126	LUGS RING TYPE 4CX50 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	8	NO'S	₹ 48	₹ 382
127	LUGS RING TYPE 4CX70 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	32	NO'S	₹ 19	₹ 599
128	LUGS RING TYPE 4CX95 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	24	NO'S	₹ 93	₹ 2,240
129	LUGS RING TYPE 4CX120 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 136	₹ -
130	LUGS RING TYPE 4CX150 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	16	NO'S	₹ 170	₹ 2,713
131	LUGS RING TYPE 4CX185 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 215	₹ -
132	LUGS RING TYPE 4CX240 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 338	₹ -
133	LUGS RING TYPE 4CX 300 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 431	₹ -
134					500	₹ -
135	M4X20 with two plain washer and nut	DOWEL/COMMET	1327	NO'S	₹ 7	₹ 9,422
	CONNECTORS					
136	MULTICONTACT MC4 CONNECTOR FOR 4 MM2 (FEMALE)	MC/BIZILINK/SABULI/ELCOM	180	NO'S	₹ 50	₹ 8,947
137	MULTICONTACT MC4 CONNECTOR FOR 4 MM2 (MALE)	MC/BIZILINK/SABULI/ELCOM	180	NO'S	₹ 50	₹ 8,947
	CONDUIT					
138	G.I NILON COAT FLEXIBLE CONDUIT 32 MM DIA	SUPREME	900	METERS	₹ 36	₹ 31,953
139	HDPE CONDUIT 25 MM DIA, SMOKE GREY	SUPREME	500	METERS	₹ 30	₹ 14,793
140	UPVC CONDUIT FOR CABLE 20 MM DIA	SUPREME	500	METERS	₹ 24	₹ 11,834
141	UPVC CONDUIT FOR CABLE 40 MM DIA	SUPREME		METERS	₹ 47	₹ -
142	CLAMP	SUPREME	653	Nos	₹ 14	₹ 9,273
	PLUMBING SYSTEM FOR SOLAR PLANT					
143	UPVC PIPE 25MM SCH80	PRINCE/ASTRA/PLASTO/SUPREME	1000	METERS	₹ 139	₹ 139,290



Netaji Subhash Chandra Bose District Hospital, Gorakhpur						
DC Solar Capacity [kWp] 450.08						
Gorakhpur 450						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
144	uPVC PIPE 20MM SCH80	PRINCE/ASTRA/PLASTO/SUP REME	100	METERS	₹ 101	₹ 10,089
145	uPVC ELBOW 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 23	₹ 1,172
146	uPVC END CAP 20MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	40	METERS	₹ 12	₹ 495
147	uPVC TEE 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 31	₹ 1,562
148	uPVC UNION 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	40	METERS	₹ 51	₹ 2,031
149	uPVC COUPLER 25 MM SCH40	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 16	₹ 781
150	REDUCING TEE 2X25X20 SH40	PRINCE/ASTRA/PLASTO/SUP REME	40	METERS	₹ 31	₹ 1,250
151	HOSE FOR MODULE CLEANING WITH SPRAY GUN	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 101	₹ 5,044
152	BALL VALVE 20MM BRASS	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 199	₹ 9,959
153	Telescopic Wiper	REPUTED	5	METERS	₹ 5,917	₹ 29,586
154	WATER TANK OF 1KL	REPUTED	0	METERS	₹ 11,834	₹ -
155	WATER METER (0-100LPM) ANALOG TYPE	REPUTED	0	METERS	₹ 2,959	₹ -
156	MONOBLOCK 1 HP PUMP WITH FITTING AND WIRE	SHAKTI/Kirloskar	9	NO'S	₹ 7,101	₹ 63,905
157	MONOBLOCK 1.5 HP PUMP WITH FITTING AND WIRE	SHAKTI/Kirloskar	0	NO'S	₹ 10,059	₹ -
FIRE PROTECTION						
158	ABC FIRE PROTECTION 4.5 KG	REPUTED	6	NO'S	₹ 2,722	₹ 16,331
159	CO2 FIRE PROTECTION 4.5 KG	REPUTED	6	NO'S	₹ 5,917	₹ 35,503
160	FIRE SAND BUCKETS WITH 2 BUCKET EACH WITH STAND	REPUTED	6	NO'S	₹ 1,893	₹ 11,361
161	FIRST AID BOX AS PER BOCW ACT	REPUTED	6	NO'S	₹ 5,917	₹ 35,503
CABLE TIE						
162	CABLE TIE 100 UV RESISTANT BLACK 100PCS PACKET	KSS/SUPERFLEX	35	PACKET	₹ 178	₹ 6,213
163	CABLE TIE 200 UV RESISTANT BLACK 100PCS PACKET	KSS/SUPERFLEX	35	PACKET	₹ 237	₹ 8,284
SAFETY TAGS						
164	SHOCK TREATMENT CHART, SAFETY CHARTS	REPUTED	6	NO'S	₹ 592	₹ 3,550
165	DO'S & DON'TS CHARTS	REPUTED	6	NO'S	₹ 355	₹ 2,130
166	HEAT SHRINKABLE SLEEVE (AS PER CABLE SIZE COLUR)	REPUTED	6	NO'S	₹ 355	₹ 2,130
167	CAUTION DANGER BOARD	REPUTED	6	NO'S	₹ 592	₹ 3,550
168	RUBBER MAT FOR INVERTER & ACDB	REPUTED	6	NO'S	₹ 1,775	₹ 10,651
169	SOLAR CABLE FERULES WITH AL TAG	REPUTED	3	NO'S	₹ 592	₹ 1,775
170	AC CABLE FERULES WITH AL TAG	REPUTED	3	NO'S	₹ 592	₹ 1,775
171	INSULATION TAP	REPUTED	3	NO'S	₹ 59	₹ 178
172	PLANT DISPLAY BOARD	REPUTED	1	NO'S	₹ 10,059	₹ 10,059
INSTALLATION WORK						
173	MS STAND FOR INVERTER MOUNTING	LOCAL	6	SET	₹ 3,550	₹ 21,302
174	MS STAND FOR ACDB MOUNTING	LOCAL	4	SET	₹ 3,550	₹ 14,201
175	ACCESS LADDER	LOCAL	2	SET	₹ 35,503	₹ 71,006
176	DOOR & LOCK REPAIR	LOCAL	9	SET	₹ 2,959	₹ 26,627



Netaji Subhash Chandra Bose District Hospital, Gorakhpur				DC Solar Capacity (kWp) 450.08		
Gorakhpur 450						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
177	INV & ACDB CAGE	LOCAL	10	SET	₹ 11,834	₹ 118,343
						₹ 12,704,723
	INSTALLATION & COMMISSIONING					
1	INSTALLATION & COMMISSIONING OF RCC ROOF		450	KWp	₹ 2,700	₹ 1,215,216
2	M25 GRADE RCC FOUNDATION FOR RCC ROOF				₹ 888	₹ -
3	M25 GRADE RCC FOUNDATION FOR RCC ROOF (Raised structure)		450	NO'S	₹ 1,183	₹ 532,639
4	CIVIL FOR BLAST TYPE			NO'S	₹ 1,300	₹ -
5	NitoBond		56.26	LTR	₹ 1,065	₹ 59,922
6	Other Services		1.00	LTR	₹ 41,420	₹ 41,420
	TOTAL OF I&C					₹ 1,849,197
	APPROVALS LT SIDE					
1	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (= <500 kWp)		450	KWp		₹ 177,515
2	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (500 - 900 kWp)					
3	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (>=900 kWp)					
4	NET METERING- METER HARDWARE (<500 kWp)		450	KWp		₹ 295,858
5	NET METERING- METER HARDWARE (500 - 900 kWp)					
6	NET METERING- METER HARDWARE (> 900 kWp)					
	TOTAL OF APPROVAL					₹ 473,373
	OPTIONAL ITEM					
1	Spreader / Modification charges in existing panel	REPUTED		NO'S	As per Actual Cost	
2	UPS 500 VA WITH 30 MINS BACKUP WITH BATTERY	REPUTED		NO'S	₹ 2,604	
3	MFM SCHNIEDER EM6400 NG	REPUTED		NO'S	₹ 8,796	
4	DG Synch Controller	REPUTED		NO'S	As per Actual Cost	
5	Any other Item as may be required by OMC			NO'S	As per Actual Cost	
6	Transportation					₹ 186,667
Total amount						₹ 15,213,960



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ANNEXURE B3 - Pyare Lal Sharma District Hospital, Meerut			DC Solar Capacity (kWp) 448.92			
Pyare Lal Meerut 448.92 kWp						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
	MODULE					
1	MODULE-580 WP, N-TYPE BIFACIAL MODULE	PANASONIC/JAKSON	774	NO'S	₹ 8,678	₹ 6,716,966
	INVERTER					
2	STRING INVERTER 20 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 93,678	₹ -
3	STRING INVERTER 25 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 96,741	₹ -
4	STRING INVERTER 30 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI	1	NO'S	₹ 131,502	₹ 131,502
5	STRING INVERTER 40 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI	3	NO'S	₹ 156,247	₹ 468,740
6	STRING INVERTER 50 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 170,622	₹ -
7	STRING INVERTER 60 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI	1	NO'S	₹ 178,989	₹ 178,989
8	STRING INVERTER 70 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 242,737	₹ -
9	STRING INVERTER 80 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI	1	NO'S	₹ 248,747	₹ 248,747
10	STRING INVERTER 100 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI	1	NO'S	₹ 294,466	₹ 294,466
11	STRING INVERTER 110 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 303,333	₹ -
12	STRING INVERTER 125 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 314,740	₹ -
	STEEL STRUCTURE					
13	MS HDGI Module mounting structure Struture with minimum 80 micron coating	JAKSON/REPUTED	18406	KG	₹ 100	₹ 1,840,572
14	J BOLT	JAKSON/REPUTED	0	No	₹ 77	₹ -
15	J BOLT/Anchor	JAKSON/REPUTED	1548	No	₹ 130	₹ 201,515
16	Blast Type Structure	JAKSON/REPUTED	0	KG	₹ 3,550	₹ -
	FASTNERS					
17	Fastners, Washers & Others (Anti-theft bolt)	REPUTED	449	KWp	₹ 370	₹ 166,100
	BOS					
	DC CABLE					
18	CABLE 1CX4 SQMM CU. XLPO/XLPE	POLYCAB/KEI/APAR	6966	METERS	₹ 43	₹ 300,898
19	CABLE 1CX 6 SQMM CU. XLPO/XLPE	POLYCAB/KEI/APAR	0	METERS	₹ 69	₹ -
	AC CABLE COPPER FRLS					
20	2C x 2.5 SQMM XLPE INSULATED FLEXIABLE CABLE	KEI/POLYCAB	630	METERS	₹ 71	₹ 44,622
	AC CABLE ALUMINIUM FRLS OUTER SHEATH					
21	3.5C x 25 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	20	METERS	₹ 189	₹ 3,779
22	3.5C x 35 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	160	METERS	₹ 239	₹ 38,244
23	3.5C x 50 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	60	METERS	₹ 324	₹ 19,414
24	3.5C x 70 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	140	METERS	₹ 436	₹ 61,034
25	3.5C x 95 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	20	METERS	₹ 545	₹ 10,890
26	3.5C x 120 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	20	METERS	₹ 682	₹ 13,639



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Pyare Lal Sharma District Hospital, Meerut				DC Solar Capacity (kWp) 448.92		
Pyare Lal Meerut 448.92 kWp						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
27	3.5C x 150 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	70	METERS	₹ 808	₹ 56,577
28	3.5C x 185 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	120	METERS	₹ 1,023	₹ 122,791
29	3.5C x 240 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,285	₹ -
30	3.5C x 300 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,581	₹ -
31	3.5C x 400 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 2,020	₹ -
32	4C x 16SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 161	₹ -
33	4C x 25 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 202	₹ -
34	4 C x 35 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 272	₹ -
35	4C x 50 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 364	₹ -
36	4C x 70 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 494	₹ -
37	4C x 95 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 617	₹ -
38	4C x 120 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 752	₹ -
39	4C x 150 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 924	₹ -
40	4C x 185 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,137	₹ -
41	4C x 240 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,468	₹ -
42	4C x 300 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,810	₹ -
43	4C x 400 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 2,327	₹ -
	EARTHING CABLE					
44	1C x 4 SQMM CU PVC INSULATED	KEI/POLYCAB	232	METERS	₹ 44	₹ 10,217
45	1C x 6 SQMM CU PVC INSULATED	KEI/POLYCAB		METERS	₹ 65	₹ -
46	1C x 25 SQMM CU PVC INSULATED	KEI/POLYCAB		METERS	₹ 357	₹ -
47	1C x 35 SQMM CU PVC INSULATED	KEI/POLYCAB	140	METERS	₹ 490	₹ 68,620
48	1C x 50 SQMM CU PVC INSULATED	KEI/POLYCAB	20	METERS	₹ 684	₹ 13,683
49	1C x 70 SQMM CU PVC INSULATED	KEI/POLYCAB		METERS	₹ 940	₹ -
	COMMUNICATION CABLE					
50	RS 485 CABLE 0.75 MM ,ANNEALED TIN COPPER 2 CORE TWISTED	POLYCAB/BELDEN	700	METERS	₹ 166	₹ 115,976
	PANEL					
51	ACDB PANEL 20 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
52	ACDB PANEL 25 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
53	ACDB PANEL 30 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	1	NO'S	₹ 70,414	₹ 70,414
54	ACDB PANEL 40 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	3	NO'S	₹ 70,414	₹ 211,243
55	ACDB PANEL 50 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
56	ACDB PANEL 60 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	1	NO'S	₹ 76,923	₹ 76,923
57	ENERGY METER(Premier 300, Class 0.5)	REPUTED	1	NO'S	₹ 79,882	₹ 79,882
58	ACDB PANEL 80 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	1	NO'S	₹ 79,882	₹ 79,882



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Pyare Lal Sharma District Hospital, Meerut			DC Solar Capacity [kWp] 448.92			
Pyare Lal Meerut 448.92 kWp						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
59	ACDB PANEL 100 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	1	NO'S	₹ 86,509	₹ 86,509
60	ACDB PANEL 110 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 89,586	₹ -
61	ACDB PANEL 125 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 89,586	₹ -
62	ACDB PANEL 200 KW (100+100) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 170,296	₹ -
63	ACDB PANEL 120 KW (40+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 146,982	₹ -
64	ACDB PANEL 140 KW (60+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 165,680	₹ -
65	ACDB PANEL 150 KW (70+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 167,811	₹ -
66	ACDB PANEL 220 KW (70+70+80) 415 V (3 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 217,278	₹ -
67	ACDB PANEL 220 KW (50+50+80+40) 415 V (4 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 217,278	₹ -
68	ACDB PANEL 80 KW (40+40) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 127,101	₹ -
69	ENERGY METER(Premier 300, Class 0.5)	REPUTED		NO'S	₹ 29,586	₹ -
70	ACDB PANEL 4 in 1 out (50+50+100+40)KW	REPUTED		NO'S	₹ 218,935	₹ -
	REMOTE MONORTING SYSTEM					
	REMOTE MONORTING SYSTEM	Power AMR/Equivalent				
71	4G based Plug and Play - RTU, Smart data logger with antenna to connect upto 4 inverters/ MFM/ Sensors on modbus RS485 RTU • modbus RS485 RTU- 1 port • 2 digital / analog ports (0 to 5 V) • 1 analog port (4 -20 m amp) • Built in memory help store and send data in case of network failure	E Track 4G Lite	2	NO'S	₹ 16,568	₹ 33,136
72	RS485 Communication SPD citel make (optional)	Citel -DLA-06-D3	2	NO'S	₹ 2,130	₹ 4,260
73	Line SPD citel make (optional)	Citel- DS-240-320	2	NO'S	₹ 3,314	₹ 6,627
74	IP67 enclosure box along with SMPS power supply, glands and fitment in one unit to house the data logge	Boxomatic/ ERD	1	NO'S	₹ 3,550	₹ 3,550
75	Access to Web portal- per MW per annum Data frequency – 10 minute Key Components • Interactive Dashboard • Single Line Diagram • PR analysis • Solar radiation & weather data • Graphs and Reports • Generation Analysis • Log Reporting	PowerAMR	1	NO'S	₹ 15,621	₹ 15,621
	• String/ MPPT Monitoring • Plant/ Inverter Performance • Superuser Dashboard for Centralized monitoring • Mobile app on android					
76	Solar Radiation Sensor with mounting kit	Pyra300	1	NO'S	₹ 15,385	₹ 15,385
77	RS 485 CABLE 0.75 MM ,ANNEALED TIN COPPER 2 CORE TWISTED	POLYCAB/BELDEN		RM	₹ 185	₹ -



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Pyare Lal Sharma District Hospital, Meerut

DC Solar Capacity (kWp) 448.92

Pyare Lal Meerut 448.92 kWp

S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
78	UPVC CONDUIT FOR CABLE 20 MM DIA	SUPREME		RM	₹ 112	₹ -
79	2C x 2.5 SQMM XLPE INSULATED FLEXIBLE CABLE with lugs	KEI/POLYCAB		RM	₹ 41	₹ -
80	1C x 4 SQMM CU PVC INSULATED	KEI/POLYCAB		RM	₹ 21	₹ -
81	Installation and Commissioning	KEI/POLYCAB	1	Job	₹ 5,917	₹ 5,917
	CABLE TRAY					
82	50X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & CLAMP	REPUTED	400	METERS	₹ 368	₹ 147,361
83	75X75X 1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & CLAMP	REPUTED	210	METERS	₹ 547	₹ 114,817
84	100X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 449	₹ -
85	100X75X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 531	₹ -
86	150X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 592	₹ -
87	150X75X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 687	₹ -
88	200X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 736	₹ -
89	200X75X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 950	₹ -
90	300X75X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 1,287	₹ -
91	300X100X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 1,390	₹ -
	LIGHTING PROTECTION					
92	ESE TYPE LA RADIUS 50 m	REPUTED		NO'S	₹ 29,231	₹ -
93	ESE TYPE LA RADIUS 70 m	REPUTED		NO'S	₹ 29,793	₹ -
94	ESE TYPE LA RADIUS 90 m	REPUTED		NO'S	₹ 30,355	₹ -
95	ESE TYPE LA RADIUS 107 m	REPUTED	2	NO'S	₹ 31,479	₹ 62,959
96	5 METER MAST	REPUTED	2	NO'S	₹ 5,917	₹ 11,834
97	LIGHTENING STRIKE COUNTER	REPUTED	2	NO'S	₹ 5,917	₹ 11,834
	EARTHING					
98	EARTH ROD CONSISTING OF HIGH TENSILE LOW CARBON STEEL WITH ELECTROLYTIC GRADE 250MM COPPER COATING, ROD DIA 17.2MM	REPUTED	32	NO'S	₹ 1,893	₹ 60,592
99	EARTH ENHANCE COMPOUND	REPUTED	32	SET	₹ 592	₹ 18,935
100	EARTHING PIT CHAMBER PRE CAST	REPUTED	32	SET	₹ 592	₹ 18,935
101	25X3 G.I STRIP GALVANISED	REPUTED	1015	METERS	₹ 65	₹ 66,065
102	25X6 G.I STRIP GALVANISED	REPUTED	0	METERS	₹ 97	₹ -
103	50X3 G.I STRIP GALVANISED	REPUTED	650	METERS	₹ 97	₹ 63,077
104	50X6 G.I STRIP GALVANISED	REPUTED		METERS	₹ 260	₹ -
105	INSULATOR FOR GI STRIP	REPUTED	530	NO'S	₹ 12	₹ 6,272
106	M8 X 25 with nut & washer	REPUTED	490	NO'S	₹ 9	₹ 4,639
	C CLASS					
	GLANDS					
107	4CX16SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 408	₹ -
108	4CX25 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	2	NO'S	₹ 408	₹ 817
109	4CX35 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	10	NO'S	₹ 495	₹ 4,953
110	4CX50 SQMM-BRASS-NICKEL-PLATED-DOUBLE-COMPRESSION	DOWEL/COMMET	4	NO'S	₹ 728	₹ 2,911
111	4CX70 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	4	NO'S	₹ 880	₹ 3,518
112	4CX95SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	2	NO'S	₹ 1,054	₹ 2,107
113	4CX120 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	2	NO'S	₹ 1,054	₹ 2,107



Pyare Lal Sharma District Hospital, Meerut			DC Solar Capacity (kWp) 448.92			
Pyare Lal Meerut 448.92 kWp						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
114	4CX150SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	2	NO'S	₹ 1,243	₹ 2,487
115	4CX185SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	2	NO'S	₹ 1,396	₹ 2,792
116	4CX240SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 2,106	₹ -
117	4CX 300SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 2,446	₹ -
118	4CX 300SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 2,446	₹ -
119	4CX 400SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 2,663	₹ -
	LUGS					
120	LUGS RING TYPE 4 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	1568	NO'S	₹ 5.4	₹ 8,443
121	LUGS RING TYPE 4CX16 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 19	₹ -
122	LUGS RING TYPE 1X25 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 26	₹ -
123	LUGS RING TYPE 1X50 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 34	₹ -
124	LUGS RING TYPE 4CX25 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	8	NO'S	₹ 26	₹ 211
125	LUGS RING TYPE 4CX35 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	40	NO'S	₹ 32	₹ 1,268
126	LUGS RING TYPE 4CX50 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	16	NO'S	₹ 48	₹ 764
127	LUGS RING TYPE 4CX70 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	16	NO'S	₹ 19	₹ 299
128	LUGS RING TYPE 4CX95 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	8	NO'S	₹ 93	₹ 747
129	LUGS RING TYPE 4CX120 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	8	NO'S	₹ 136	₹ 1,086
130	LUGS RING TYPE 4CX150 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	8	NO'S	₹ 170	₹ 1,356
131	LUGS RING TYPE 4CX185 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	8	NO'S	₹ 215	₹ 1,723
132	LUGS RING TYPE 4CX240 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 338	₹ -
133	LUGS RING TYPE 4CX 300 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 431	₹ -
134	LUGS RING TYPE 4CX 400 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 500	₹ -
135	M4X20 with two plain washer and nut	DOWEL/COMMET	1568	NO'S	₹ 7	₹ 11,133
	CONNECTORS					
136	MULTICONTACT MC4 CONNECTOR FOR 4 MM2 (FEMALE)	MC/BIZILINK/SABULI/ELCOM	172	NO'S	₹ 50	₹ 8,549
137	MULTICONTACT MC4 CONNECTOR FOR 4 MM2 (MALE)	MC/BIZILINK/SABULI/ELCOM	172	NO'S	₹ 50	₹ 8,549
	CONDUIT					
138	G.I NILON COAT FLEXIBLE CONDUIT 32 MM DIA	SUPREME	100	METERS	₹ 36	₹ 3,550
139	HDPE CONDUIT 25 MM DIA , SMOKE GREY	SUPREME		METERS	₹ 30	₹ -
140	UPVC CONDUIT FOR CABLE 20 MM DIA	SUPREME	900	METERS	₹ 24	₹ 21,302
141	UPVC CONDUIT FOR CABLE 40 MM DIA	SUPREME	600	METERS	₹ 47	₹ 28,402
142	CLAMP	SUPREME	710	Nos	₹ 14	₹ 10,083
	PLUMBING SYSTEM FOR SOLAR PLANT					
143	uPVC PIPE 25MM SCH80	PRINCE/ASTRA/PLASTO/SUPREME	900	METERS	₹ 139	₹ 125,361



Pyare Lal Sharma District Hospital, Meerut				DC Solar Capacity (kWp) 448.92		
Pyare Lal Meerut 448.92 kWp						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
144	uPVC PIPE 20MM SCH80	PRINCE/ASTRA/PLASTO/SUP REME	100	METERS	₹ 101	₹ 10,089
145	uPVC ELBOW 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 23	₹ 1,172
146	uPVC END CAP 20MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	40	METERS	₹ 12	₹ 495
147	uPVC TEE 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 31	₹ 1,562
148	uPVC UNION 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	40	METERS	₹ 51	₹ 2,031
149	uPVC COUPLER 25 MM SCH40	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 16	₹ 781
150	REDUCING TEE 2X25XX20 SH40	PRINCE/ASTRA/PLASTO/SUP REME	40	METERS	₹ 31	₹ 1,250
151	HOSE FOR MODULE CLEANING WITH SPRAY GUN	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 101	₹ 5,044
152	BALL VALVE 20MM BRASS	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 199	₹ 9,959
153	Telescopic Wiper	REPUTED	2	METERS	₹ 5,917	₹ 11,834
154	WATER TANK OF 1KL	REPUTED	0	METERS	₹ 11,834	-
155	WATER METER (0-100LPM) ANALOG TYPE	REPUTED	0	METERS	₹ 2,959	-
156	MONOBLOCK 1 HP PUMP WITH FITTING AND WIRE	SHAKTI/Kirloskar	7	NO'S	₹ 7,101	₹ 49,704
157	MONOBLOCK 1.5 HP PUMP WITH FITTING AND WIRE	SHAKTI/Kirloskar	0	NO'S	₹ 10,059	-
FIRE PROTECTION						
158	ABC FIRE PROTECTION 4.5 KG	REPUTED	7	NO'S	₹ 2,722	₹ 19,053
159	CO2 FIRE PROTECTION 4.5 KG	REPUTED	7	NO'S	₹ 5,917	₹ 41,420
160	FIRE SAND BUCKETS WITH 2 BUCKET EACH WITH STAND	REPUTED	7	NO'S	₹ 1,893	₹ 13,254
161	FIRST AID BOX AS PER BOCW ACT	REPUTED	7	NO'S	₹ 5,917	₹ 41,420
CABLE TIE						
162	CABLE TIE 100 UV RESISTANT BLACK 100PCS PACKET	KSS/SUPERFLEX	8	PACKET	₹ 178	₹ 1,420
163	CABLE TIE 200 UV RESISTANT BLACK 100PCS PACKET	KSS/SUPERFLEX	8	PACKET	₹ 237	₹ 1,893
SAFETY TAGS						
164	SHOCK TREATMENT CHART, SAFETY CHARTS	REPUTED	2	NO'S	₹ 592	₹ 1,183
165	DO'S & DON'TS CHARTS	REPUTED	3	NO'S	₹ 355	₹ 1,065
166	HEAT SHRINKABLE SLEEVE (AS PER CABLE SIZE COLUR)	REPUTED	3	NO'S	₹ 355	₹ 1,065
167	CAUTION DANGER BOARD	REPUTED	3	NO'S	₹ 592	₹ 1,775
168	RUBBER MAT FOR INVERTER & ACDB	REPUTED	5	NO'S	₹ 1,775	₹ 8,876
169	SOLAR CABLE FERULES WITH AL TAG	REPUTED	3	NO'S	₹ 592	₹ 1,775
170	AC CABLE FERULES WITH AL TAG	REPUTED	3	NO'S	₹ 592	₹ 1,775
171	INSULATION TAP	REPUTED	3	NO'S	₹ 59	₹ 178
172	PLANT DISPLAY BOARD	REPUTED	1	NO'S	₹ 10,059	₹ 10,059
INSTALLATION WORK						
173	MS STAND FOR INVERTER MOUNTING	LOCAL	7	SET	₹ 3,550	₹ 24,852
174	MS STAND FOR ACDB MOUNTING	LOCAL	7	SET	₹ 3,550	₹ 24,852
175	ACCESS LADDER	LOCAL	6	SET	₹ 35,503	₹ 213,018
176	DOOR & LOCK REPAIR	LOCAL	5	SET	₹ 2,959	₹ 14,793



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Pyare Lal Sharma District Hospital, Meerut			DC Solar Capacity (kWp) 448.92			
Pyare Lal Meerut 448.92 kWp						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
177	INV & ACDB CAGE	LOCAL	14	SET	₹ 11,834	₹ 165,680
						₹ 13,342,495
	INSTALLATION & COMMISSIONING					
1	INSTALLATION & COMMISSIONING OF RCC ROOF		449	KWp	₹ 2,700	₹ 1,212,084
2	M25 GRADE RCC FOUNDATION FOR RCC ROOF					₹ -
3	M25 GRADE RCC FOUNDATION FOR RCC ROOF (Raised structure)		449	NO'S	₹ 1,183	₹ 531,266
4					1300	₹ -
5	NitoBond		56.12	LTR	₹ 1,065	₹ 59,773
6	Other Services		1.00	LTR	₹ 41,420	₹ 41,420
	TOTAL OF I&C					₹ 1,844,543
	APPROVALS LT SIDE					
1	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (≤500 kWp)		449	KWp		₹ 177,515
2	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (500 - 900 kWp)					
3	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (>900 kWp)					
4	NET METERING- METER HARDWARE (≤500 kWp)		449	KWp		₹ 295,858
5	NET METERING- METER HARDWARE (500 - 900 kWp)					
6	NET METERING- METER HARDWARE (> 900 kWp)					
	TOTAL OF APPROVAL					₹ 473,373
	OPTIONAL ITEM					
1	Spreader / Modification charges in existing panel	REPUTED		NO'S	As per Actual Cost	
2	UPS 500 VA WITH 30 MINS BACKUP WITH BATTERY	REPUTED		NO'S	₹ 2,604	
3	MFM SCHNIEDER EM6400 NG	REPUTED		NO'S	₹ 8,796	
4	DG Synch Controller	REPUTED		NO'S	As per Actual Cost	
5	Any other Item as may be required by OMC			NO'S	As per Actual Cost	
6	Transportation					₹ 44,444
Total amount						₹ 15,704,855



ANNEXURE B3 - District Hospital, Basti

DC Solar Capacity (kWp) 315.52

Basti 315.52

S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
MODULE						
1	MODULE-580 WP, N-TYPE BIFACIAL MODULE	PANASONIC/JAKSON	544	NO'S	₹ 8,678	₹ 4,720,968
INVERTER						
2	STRING INVERTER 20 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 93,678	₹ -
3	STRING INVERTER 25 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 96,741	₹ -
4	STRING INVERTER 30 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 131,502	₹ -
5	STRING INVERTER 40 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 156,247	₹ -
6	STRING INVERTER 50 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI	4	NO'S	₹ 170,622	₹ 682,489
7	STRING INVERTER 60 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 178,989	₹ -
8	STRING INVERTER 70 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI	1	NO'S	₹ 242,737	₹ 242,737
9	STRING INVERTER 80 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 248,747	₹ -
10	STRING INVERTER 100 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 294,466	₹ -
11	STRING INVERTER 110 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 303,333	₹ -
12	STRING INVERTER 125 KW, 400V GRID CONNECTED	GROWATT/SOLIS		NO'S	₹ 314,740	₹ -
STEEL STRUCTURE						
13	MS HDGI Module mounting structure Struture with minimum 80 micron coating for 500 mm clearance.	JAKSON/REPUTED	7730	KG	₹ 100	₹ 773,024
14	J BOLT	JAKSON/REPUTED	1088	No	₹ 77	₹ 83,776
15	J BOLT/Anchor	JAKSON/REPUTED	0	No	₹ 130	₹ -
16	Blast Type Structure	JAKSON/REPUTED	0	KG	₹ 3,550	₹ -
FASTNERS						
17	Fastners, Washers & Others (Anti-theft bolt)	REPUTED	316	KWp	₹ 370	₹ 116,742
BOS						
DC CABLE						
18	CABLE 1CX4 SQMM CU. XLPO/XLPE	POLYCAB/KEI/APAR	4896	METERS	₹ 43	₹ 211,484
19	CABLE 1CX 6 SQMM CU. XLPO/XLPE	POLYCAB/KEI/APAR	0	METERS	₹ 69	₹ -
AC CABLE COPPER FRLS						
20	2C x 2.5 SQMM XLPE INSULATED FLEXIABLE CABLE	KEI/POLYCAB	300	METERS	₹ 71	₹ 21,249
AC CABLE ALUMINIUM FRLS OUTER SHEATH						
21	3.5C x 25 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 189	₹ -
22	3.5C x 35 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	20	METERS	₹ 239	₹ 4,781
23	3.5C x 50 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	105	METERS	₹ 324	₹ 33,975
24	3.5C x 70 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	130	METERS	₹ 436	₹ 56,674
25	3.5C x 95 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	105	METERS	₹ 545	₹ 57,173
26	3.5C x 120 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 682	₹ -



District Hospital, Basti						
DC Solar Capacity (kWp) 315.52						
Basti 315.52						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
27	3.5C x 150 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 808	₹ -
28	3.5C x 185 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	75	METERS	₹ 1,023	₹ 76,744
29	3.5C x 240 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	20	METERS	₹ 1,285	₹ 25,698
30	3.5C x 300 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,581	₹ -
31	3.5C x 400 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 2,020	₹ -
32	4C x 16SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 161	₹ -
33	4C x 25 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 202	₹ -
34	4C x 35 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 272	₹ -
35	4C x 50 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 364	₹ -
36	4C x 70 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 494	₹ -
37	4C x 95 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 617	₹ -
38	4C x 120 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 752	₹ -
39	4C x 150 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 924	₹ -
40	4C x 185 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,137	₹ -
41	4C x 240 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,468	₹ -
42	4C x 300 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,810	₹ -
43	4C x 400 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 2,327	₹ -
EARTHING CABLE						
44	1C x 4 SQMM CU PVC INSULATED	KEI/POLYCAB	418	METERS	₹ 44.00	₹ 18,392
45	1C x 6 SQMM CU PVC INSULATED	KEI/POLYCAB		METERS	₹ 65	₹ -
46	1C x 25 SQMM CU PVC INSULATED	KEI/POLYCAB		METERS	₹ 357	₹ -
47	1C x 35 SQMM CU PVC INSULATED	KEI/POLYCAB	15	METERS	₹ 490	₹ 7,352
48	1C x 50 SQMM CU PVC INSULATED	KEI/POLYCAB	60	METERS	₹ 684	₹ 41,048
49	1C x 70 SQMM CU PVC INSULATED	KEI/POLYCAB		METERS	₹ 940	₹ -
COMMUNICATION CABLE						
50	RS 485 CABLE 0.75 MM ,ANNEALED TIN COPPER 2 CORE TWISTED	POLYCAB/BELDEN	400	METERS	₹ 166	₹ 66,272
PANEL						
51	ACDB PANEL 20 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
52	ENERGY METER(Premier 300, Class 0.5)	REPUTED		NO'S	₹ 70,414	₹ -
53	ACDB PANEL 30 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
54	ACDB PANEL 40 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
55	ACDB PANEL 50 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	4	NO'S	₹ 70,414	₹ 281,656
56	ACDB PANEL 60 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 76,923	₹ -
57	ACDB PANEL 70 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	1	NO'S	₹ 79,882	₹ 79,882
58	ACDB PANEL 80 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 79,882	₹ -



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District Hospital, Basti			DC Solar Capacity (kWp) 315.52			
Basti 315.52						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
59	ACDB PANEL 100 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 86,509	₹ -
60	ACDB PANEL 110 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 89,586	₹ -
61	ACDB PANEL 125 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 89,586	₹ -
62	ACDB PANEL 200 KW (100+100) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 170,296	₹ -
63	ACDB PANEL 120 KW (40+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 146,982	₹ -
64	ACDB PANEL 140 KW (60+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 165,680	₹ -
65	ACDB PANEL 150 KW (70+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 167,811	₹ -
66	ACDB PANEL 220 KW (70+70+80) 415 V (3 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 217,278	₹ -
67	ACDB PANEL 220 KW (50+50+80+40) 415 V (4 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 217,278	₹ -
68	ACDB PANEL 80 KW (40+40) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 127,101	₹ -
69	ENERGY METER(Premier 300, Class 0.5)	REPUTED		NO'S	₹ 29,586	₹ -
70	ACDB PANEL 4 in 1 out (50+50+100+40)KW	REPUTED		NO'S	₹ 218,935	₹ -
	REMOTE MONORTING SYSTEM					
	REMOTE MONORTING SYSTEM	Power AMR/Equivalent				
71	4G based Plug and Play - RTU, Smart data logger with antenna to connect upto 4 inverters/ MFM/ Sensors on modbus RS485 RTU • modbus RS485 RTU- 1 port • 2 digital / analog ports (0 to 5 V) • 1 analog port (4 -20 m amp) • Built in memory help store and send data in case of network failure	E Track 4G Lite	2	NO'S	₹ 16,568	₹ 33,136
72	RS485 Communication SPD citel make (optional)	Citel -DLA-06-D3	2	NO'S	₹ 2,130	₹ 4,260
73	Line SPD citel make (optional)	Citel- DS-240-320	2	NO'S	₹ 3,314	₹ 6,627
74	IP67 enclosure box along with SMPS power supply, glands and fitment in one unit to house the data logge	Boxomatic/ ERD	1	NO'S	₹ 3,550	₹ 3,550
75	Access to Web portal- per MW per annum Data frequency – 10 minute Key Components • Interactive Dashboard • Single Line Diagram • PR analysis • Solar radiation & weather data • Graphs and Reports • Generation Analysis • Log Reporting • String/ MPPT-Monitoring • Plant/ Inverter Performance • Superuser Dashboard for Centralized monitoring • Mobile app on android	PowerAMR	1	NO'S	₹ 15,621	₹ 15,621
76	Solar Radiation Sensor with mounting kit	Pyra300	1	NO'S	₹ 15,385	₹ 15,385
77	RS 485 CABLE 0.75 MM ,ANNEALED TIN COPPER 2 CORE TWISTED	POLYCAB/BELDEN		RM	₹ 185	₹ -



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District Hospital, Basti			DC Solar Capacity (kWp) 315.52			
Basti 315.52						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
78	UPVC CONDUIT FOR CABLE 20 MM DIA	SUPREME		RM	₹ 112	₹ -
79	2C x 2.5 SQMM XLPE INSULATED FLEXIBLE CABLE with lugs	KEI/POLYCAB		RM	₹ 41	₹ -
80	1C x 4 SQMM CU PVC INSULATED	KEI/POLYCAB		RM	₹ 21	₹ -
81	Installation and Commissioning	KEI/POLYCAB	1	Job	₹ 5,917	₹ 5,917
CABLE TRAY						
82	50X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & CLAMP	REPUTED	250	METERS	₹ 368	₹ 92,101
83	75X75X 1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & CLAMP	REPUTED	150	METERS	₹ 547	₹ 82,012
84	100X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED		METERS	₹ 449	₹ -
85	100X75X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 531	₹ -
86	150X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 592	₹ -
87	150X75X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 687	₹ -
88	200X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 736	₹ -
89	200X75X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 950	₹ -
90	300X75X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 1,287	₹ -
91	300X100X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 1,390	₹ -
LIGHTING PROTECTION						
92	ESE TYPE LA RADIUS 50 m	REPUTED		NO'S	₹ 29,231	₹ -
93	ESE TYPE LA RADIUS 70 m	REPUTED		NO'S	₹ 29,793	₹ -
94	ESE TYPE LA RADIUS 90 m	REPUTED		NO'S	₹ 30,355	₹ -
95	ESE TYPE LA RADIUS 107 m	REPUTED	2	NO'S	₹ 31,479	₹ 62,959
96	5 METER MAST	REPUTED	2	NO'S	₹ 5,917	₹ 11,834
97	LIGHTENING STRIKE COUNTER	REPUTED	2	NO'S	₹ 5,917	₹ 11,834
EARTHING						
98	EARTH ROD CONSISTING OF HIGH TENSILE LOW CARBON STEEL WITH ELECTROLYTIC GRADE 250MM COPPER COATING. ROD DIA 17.2MM	REPUTED	24	NO'S	₹ 1,893	₹ 45,444
99	EARTH ENHANCE COMPOUND	REPUTED	24	SET	₹ 592	₹ 14,201
100	EARTHING PIT CHAMBER PRE CAST	REPUTED	24	SET	₹ 592	₹ 14,201
101	25X3 G.I STRIP GALVANISED	REPUTED	870	METERS	₹ 65	₹ 56,627
102	25X6 G.I STRIP GALVANISED	REPUTED	650	METERS	₹ 97	₹ 63,077
103	50X3 G.I STRIP GALVANISED	REPUTED		METERS	₹ 97	₹ -
104	50X6 G.I STRIP GALVANISED	REPUTED		METERS	₹ 260	₹ -
105	INSULATOR FOR GI STRIP	REPUTED	320	NO'S	₹ 12	₹ 3,787
106	M8 X 25 with nut & washer	REPUTED	490	NO'S	₹ 9	₹ 4,639
C CLASS						
GLANDS						
107	4CX16SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 408	₹ -
108	4CX25 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 408	₹ -
109	4CX35 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	4	NO'S	₹ 495	₹ 1,981
110	4CX50 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	8	NO'S	₹ 728	₹ 5,822
111	4CX70 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	8	NO'S	₹ 880	₹ 7,037
112	4CX95SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	8	NO'S	₹ 1,054	₹ 8,428
113	4CX120 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 1,054	₹ -



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District Hospital, Basti			DC Solar Capacity (kWp) 315.52			
Basti 315.52						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
114	4CX150SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 1,243	₹ -
115	4CX185SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	2	NO'S	₹ 1,396	₹ 2,792
116	4CX240SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	2	NO'S	₹ 2,106	₹ 4,212
117	4CX 300SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 2,446	₹ -
118	4CX 300SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 2,446	₹ -
119	4CX 400SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 2,663	₹ -
	LUGS					
120	LUGS RING TYPE 4 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	1327	NO'S	₹ 5.4	₹ 7,145
121	LUGS RING TYPE 4CX16 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 19	₹ -
122	LUGS RING TYPE 1X25 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 26	₹ -
123	LUGS RING TYPE 1X50 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 34	₹ -
124	LUGS RING TYPE 4CX25 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 26	₹ -
125	LUGS RING TYPE 4CX35 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	16	NO'S	₹ 32	₹ 507
126	LUGS RING TYPE 4CX50 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	32	NO'S	₹ 48	₹ 1,527
127	LUGS RING TYPE 4CX70 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	32	NO'S	₹ 19	₹ 599
128	LUGS RING TYPE 4CX95 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	32	NO'S	₹ 93	₹ 2,986
129	LUGS RING TYPE 4CX120 SQMM CU. RING TYPE LUGS	DOWEL/COMMET		NO'S	₹ 136	₹ -
130	LUGS RING TYPE 4CX150 SQMM CU. RING TYPE LUGS	DOWEL/COMMET		NO'S	₹ 170	₹ -
131	LUGS RING TYPE 4CX185 SQMM CU. RING TYPE LUGS	DOWEL/COMMET		NO'S	₹ 215	₹ -
132	LUGS RING TYPE 4CX240 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	8	NO'S	₹ 338	₹ 2,708
133	LUGS RING TYPE 4CX 300 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	8	NO'S	₹ 431	₹ 3,446
134	LUGS RING TYPE 4CX 400 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 500	₹ -
135	M4X20 with two plain washer and nut	DOWEL/COMMET	1327	NO'S	₹ 7	₹ 9,422
	CONNECTORS					
136	MULTI CONTACT MC4 CONNECTOR FOR 4 MM2 (FEMALE)	MC/BIZILINK/SABULI/ELCOM	150	NO'S	₹ 50	₹ 7,456
137	MULTI CONTACT MC4 CONNECTOR FOR 4 MM2 (MALE)	MC/BIZILINK/SABULI/ELCOM	150	NO'S	₹ 50	₹ 7,456
	CONDUIT					
138	G.I NILON COAT FLEXIBLE CONDUIT 32 MM DIA	SUPREME		METERS	₹ 36	₹ -
139	HDPE CONDUIT 25 MM DIA , SMOKE GREY	SUPREME		METERS	₹ 30	₹ -
140	UPVC CONDUIT FOR CABLE 20 MM DIA	SUPREME	1025	METERS	₹ 24	₹ 24,260
141	UPVC CONDUIT FOR CABLE 40 MM DIA	SUPREME	223	METERS	₹ 47	₹ 10,556
142	CLAMP	SUPREME	653	Nos	₹ 14	₹ 9,273
	PLUMBING SYSTEM FOR SOLAR PLANT					
143	uPVC PIPE 25MM SCH80	PRINCE/ASTRA/PLASTO/SUPREME	280	METERS	₹ 139	₹ 39,001



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District Hospital, Basti			DC Solar Capacity (kWp) 315.52			
Basti 315.52						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
144	uPVC PIPE 20MM SCH80	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 101	₹ 5,044
145	uPVC ELBOW 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	20	METERS	₹ 23	₹ 469
146	uPVC END CAP 20MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	20	METERS	₹ 12	₹ 247
147	uPVC TEE 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	20	METERS	₹ 31	₹ 625
148	uPVC UNION 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	20	METERS	₹ 51	₹ 1,015
149	uPVC COUPLER 25 MM SCH40	PRINCE/ASTRA/PLASTO/SUP REME	20	METERS	₹ 16	₹ 312
150	REDUCING TEE 2X25XX20 SH40	PRINCE/ASTRA/PLASTO/SUP REME	20	METERS	₹ 31	₹ 625
151	HOSE FOR MODULE CLEANING WITH SPRAY GUN	PRINCE/ASTRA/PLASTO/SUP REME	5	METERS	₹ 101	₹ 504
152	BALL VALVE 20MM BRASS	PRINCE/ASTRA/PLASTO/SUP REME	20	METERS	₹ 199	₹ 3,983
153	Telescopic Wiper	REPUTED	2	METERS	₹ 5,917	₹ 11,834
154	WATER TANK OF 1KL	REPUTED	1	METERS	₹ 11,834	₹ 11,834
155	WATER METER (0-100LPM) ANALOG TYPE	REPUTED	4	METERS	₹ 2,959	₹ 11,834
156	MONOBLOCK 1 HP PUMP WITH FITTING AND WIRE	SHAKTI/Kirloskar	4	NO'S	₹ 7,101	₹ 28,402
157	MONOBLOCK 1.5 HP PUMP WITH FITTING AND WIRE	SHAKTI/Kirloskar	0	NO'S	₹ 10,059	₹ -
FIRE PROTECTION						
158	ABC FIRE PROTECTION 4.5 KG	REPUTED	5	NO'S	₹ 2,722	₹ 13,609
159	CO2 FIRE PROTECTION 4.5 KG	REPUTED	5	NO'S	₹ 5,917	₹ 29,586
160	FIRE SAND BUCKETS WITH 2 BUCKET EACH WITH STAND	REPUTED	5	NO'S	₹ 1,893	₹ 9,467
161	FIRST AID BOX AS PER BOCW ACT	REPUTED	2	NO'S	₹ 5,917	₹ 11,834
CABLE TIE						
162	CABLE TIE 100 UV RESISTANT BLACK 100PCS PACKET	KSS/SUPERFLEX	25	PACKET	₹ 178	₹ 4,438
163	CABLE TIE 200 UV RESISTANT BLACK 100PCS PACKET	KSS/SUPERFLEX	25	PACKET	₹ 237	₹ 5,917
SAFETY TAGS						
164	SHOCK TREATMENT CHART, SAFETY CHARTS	REPUTED	5	NO'S	₹ 592	₹ 2,959
165	DO'S & DON'TS CHARTS	REPUTED	5	NO'S	₹ 355	₹ 1,775
166	HEAT SHRINKABLE SLEEVE (AS PER CABLE SIZE COLUR)	REPUTED	5	NO'S	₹ 355	₹ 1,775
167	CAUTION DANGER BOARD	REPUTED	5	NO'S	₹ 592	₹ 2,959
168	RUBBER MAT FOR INVERTER & ACDB	REPUTED	5	NO'S	₹ 1,775	₹ 8,876
169	SOLAR CABLE FERULES WITH AL TAG	REPUTED	5	NO'S	₹ 592	₹ 2,959
170	AC CABLE FERULES WITH AL TAG	REPUTED	5	NO'S	₹ 592	₹ 2,959
171	INSULATION TAP	REPUTED	5	NO'S	₹ 59	₹ 296
172	PLANT DISPLAY BOARD	REPUTED	1	NO'S	₹ 10,059	₹ 10,059
INSTALLATION WORK						
173	MS STAND FOR INVERTER MOUNTING	LOCAL	5	SET	₹ 3,550	₹ 17,751
174	MS STAND FOR ACDB MOUNTING	LOCAL	5	SET	₹ 3,550	₹ 17,751
175	ACCESS LADDER	LOCAL	2	SET	₹ 35,503	₹ 71,006
176	DOOR & LOCK REPAIR	LOCAL	5	SET	₹ 2,959	₹ 14,793



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District Hospital, Basti			DC Solar Capacity (kWp) 315.52			
Basti 315.52						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
177	INV & ACDB CAGE	LOCAL	10	SET	₹ 11,834	₹ 118,343
						₹ 8,731,789
	INSTALLATION & COMMISSIONING					
1	INSTALLATION & COMMISSIONING OF RCC ROOF		316	KWp	₹ 2,700	₹ 851,904
2	M25 GRADE RCC FOUNDATION FOR RCC ROOF		316	NO'S	₹ 888	₹ 280,047
3	M25 GRADE RCC FOUNDATION FOR RCC ROOF (Raised structure)					
4	CIVIL FOR BLAST TYPE		-	NO'S	₹ 1,300	₹ -
5	NitoBond		35.06	LTR	₹ 1,065	₹ 37,342
6	Other Services		1.00	LTR	₹ 41,420	₹ 41,420
	TOTAL OF I&C					₹ 1,210,713
	APPROVALS LT SIDE					
1	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (= <500 kWp)		316	KWp		₹ 177,515
2	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (500 - 900 kWp)					
3	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (>=900 kWp)					
4	NET METERING- METER HARDWARE (<500 kWp)		316	KWp		₹ 295,858
5	NET METERING- METER HARDWARE (500 - 900 kWp)					
6	NET METERING- METER HARDWARE (> 900 kWp)					
	TOTAL OF APPROVAL					₹ 473,373
	OPTIONAL ITEM					
1	Spreader / Modification charges in existing panel	REPUTED		NO'S	As per Actual Cost	
2	UPS 500 VA WITH 30 MINS BACKUP WITH BATTERY	REPUTED		NO'S	₹ 2,604	
3	MFM SCHNIEDER EM6400 NG	REPUTED		NO'S	₹ 8,796	
4	DG Synch Controller	REPUTED		NO'S	As per Actual Cost	
5	Any other Item as may be required by OMC			NO'S	As per Actual Cost	
6	Transportation					₹ 133,333
Total amount						₹ 10,549,209



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ANNEXURE B3 - Pt. Din Dayal Upadhyay Combined Hospital, Moradabad			DC Solar Capacity (kWp) 747.04			
Moradabad 747.04						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
	MODULE					
1	MODULE-580 WP, N-TYPE BIFACIAL MODULE	PANASONIC/JAKSON	1288	NO'S	₹ 8,678	₹ 11,177,586
	INVERTER					
2	STRING INVERTER 20 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 93,678	₹ -
3	STRING INVERTER 25 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 96,741	₹ -
4	STRING INVERTER 30 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 131,502	₹ -
5	STRING INVERTER 40 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI	3	NO'S	₹ 156,247	₹ 468,740
6	STRING INVERTER 50 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI	3	NO'S	₹ 170,622	₹ 511,867
7	STRING INVERTER 60 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 178,989	₹ -
8	STRING INVERTER 70 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 242,737	₹ -
9	STRING INVERTER 80 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI	3	NO'S	₹ 248,747	₹ 746,240
10	STRING INVERTER 100 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI	1	NO'S	₹ 294,466	₹ 294,466
11	STRING INVERTER 110 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 303,333	₹ -
12	STRING INVERTER 125 KW, 400V GRID CONNECTED	GROWATT/SOLIS		NO'S	₹ 314,740	₹ -
	STEEL STRUCTURE					
13	MS HDGI Module mounting structure Struture with minimum 80 micron coating	JAKSON/REPUTED	33617	KG	₹ 100	₹ 3,361,680
14	J BOLT	JAKSON/REPUTED	0	No	₹ 77	₹ -
15	J BOLT/Anchor	JAKSON/REPUTED	2576	No	₹ 130	₹ 335,337
16	Blast Type Structure	JAKSON/REPUTED	0	KG	₹ 3,550	₹ -
	FASTNERS					
17	Fastners, Washers & Others (Anti-theft bolt)	REPUTED	747	KWp	₹ 370	₹ 276,405
	BOS					
	DC CABLE					
18	CABLE 1CX4 SQMM CU. XLPO/XLPE	POLYCAB/KEI/APAR	11592	METERS	₹ 43	₹ 500,720
19	CABLE 1CX 6 SQMM CU. XLPO/XLPE	POLYCAB/KEI/APAR	0	METERS	₹ 69	₹ -
	AC CABLE COPPER FRLS					
20	2C x 2.5 SQMM XLPE INSULATED FLEXIABLE CABLE	KEI/POLYCAB	900	METERS	₹ 71	₹ 63,746
	AC CABLE ALUMINIUM FRLS OUTER SHEATH					
21	3.5C x 25 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 189	₹ -
22	3.5C x 35 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	40	METERS	₹ 239	₹ 9,561
23	3.5C x 50 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	120	METERS	₹ 324	₹ 38,829
24	3.5C x 70 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	140	METERS	₹ 436	₹ 61,034
25	3.5C x 95 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	200	METERS	₹ 545	₹ 108,902
26	3.5C x 120 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	130	METERS	₹ 682	₹ 88,652



Pt. Din Dayal Upadhyay Combined Hospital, Moradabad

DC Solar Capacity (kWp) 747.04

Moradabad 747.04						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
27	3.5C x 150 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	100	METERS	₹ 808	₹ 80,824
28	3.5C x 185 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	0	METERS	₹ 1,023	₹ -
29	3.5C x 240 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	100	METERS	₹ 1,285	₹ 128,490
30	3.5C x 300 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,581	₹ -
31	3.5C x 400 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 2,020	₹ -
32	4C x 165SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 161	₹ -
33	4C x 25 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 202	₹ -
34	4 C x 35 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 272	₹ -
35	4C x 50 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 364	₹ -
36	4C x 70 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 494	₹ -
37	4C x 95 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 617	₹ -
38	4C x 120 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 752	₹ -
39	4C x 150 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 924	₹ -
40	4C x 185 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,137	₹ -
41	4C x 240 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,468	₹ -
42	4C x 300 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,810	₹ -
43	4C x 400 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 2,327	₹ -
	EARTHING CABLE					
44	1C x 4 SQMM CU PVC INSULATED	KEI/POLYCAB	515	METERS	₹ 44	₹ 22,669
45	1C x 6 SQMM CU PVC INSULATED	KEI/POLYCAB		METERS	₹ 65	₹ -
46	1C x 25 SQMM CU PVC INSULATED	KEI/POLYCAB		METERS	₹ 357	₹ -
47	1C x 35 SQMM CU PVC INSULATED	KEI/POLYCAB	200	METERS	₹ 490	₹ 98,028
48	1C x 50 SQMM CU PVC INSULATED	KEI/POLYCAB	60	METERS	₹ 684	₹ 41,048
49	1C x 70 SQMM CU PVC INSULATED	KEI/POLYCAB		METERS	₹ 940	₹ -
	COMMUNICATION CABLE					
50	RS 485 CABLE 0.75 MM ,ANNEALED TIN COPPER 2 CORE TWISTED	POLYCAB/BELDEN	900	METERS	₹ 166	₹ 149,112
	PANEL					
51	ACDB PANEL 20 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
52	ACDB PANEL 25 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
53	ACDB PANEL 30 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
54	ACDB PANEL 40 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	1	NO'S	₹ 70,414	₹ 70,414
55	ACDB PANEL 50 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	1	NO'S	₹ 70,414	₹ 70,414
56	ACDB PANEL 60 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 76,923	₹ -
57	ACDB PANEL 70 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 79,882	₹ -
58	ACDB PANEL 80 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	2	NO'S	₹ 79,882	₹ 159,763



Pt. Din Dayal Upadhyay Combined Hospital, Moradabad

DC Solar Capacity (kWp) 747.04

Moradabad 747.04						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
59	ACDB PANEL 100 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 86,509	₹ -
60	ACDB PANEL 110 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 89,586	₹ -
61	ACDB PANEL 125 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 89,586	₹ -
62	ACDB PANEL 200 KW (100+100) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 170,296	₹ -
63	ACDB PANEL 120 KW (40+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED	1	NO'S	₹ 146,982	₹ 146,982
64	ACDB PANEL 140 KW (60+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 165,680	₹ -
65	ACDB PANEL 150 KW (70+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 167,811	₹ -
66	ACDB PANEL 220 KW (70+70+80) 415 V (3 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 217,278	₹ -
67	ACDB PANEL 220 KW (50+50+80+40) 415 V (4 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 217,278	₹ -
68	ACDB PANEL 80 KW (40+40) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 127,101	₹ -
69	ENERGY METER(Premier 300, Class 0.5)	REPUTED		NO'S	₹ 29,586	₹ -
70	ACDB PANEL 4 in 1 out (50+50+100+40)KW	REPUTED	1	NO'S	₹ 218,935	₹ 218,935
REMOTE MONORTING SYSTEM						
	REMOTE MONORTING SYSTEM	Power AMR/Equivalent				
71	4G based Plug and Play - RTU, Smart data logger with antenna to connect upto 4 inverters/ MFM/ Sensors on modbus RS485 RTU • modbus RS485 RTU- 1 port • 2 digital / analog ports (0 to 5 V) • 1 analog port (4 -20 m amp) • Built in memory help store and send data in case of network failure	E Track 4G Lite	2	NO'S	₹ 16,568	₹ 33,136
72	RS485 Communication SPD citel make (optional)	Citel -DLA-06-D3	2	NO'S	₹ 2,130	₹ 4,260
73	Line SPD citel make (optional)	Citel- DS-240-320	2	NO'S	₹ 3,314	₹ 6,627
74	IP67 enclosure box along with SMPS power supply, glands and fitment in one unit to house the data logge	Boxomatic/ ERD	1	NO'S	₹ 3,550	₹ 3,550
75	Access to Web portal- per MW per annum Data frequency – 10 minute Key Components • Interactive Dashboard • Single Line Diagram • PR analysis • Solar radiation & weather data • Graphs and Reports • Generation Analysis • Log Reporting	PowerAMR	1	NO'S	₹ 15,621	₹ 15,621
	• String/ MPPT Monitoring • Plant/ Inverter Performance • Superuser Dashboard for Centralized monitoring • Mobile app on android					
76	Solar Radiation Sensor with mounting kit	Pyra300	1	NO'S	₹ 15,385	₹ 15,385
77	RS 485 CABLE 0.75 MM ,ANNEALED TIN COPPER 2 CORE TWISTED	POLYCAB/BELDEN		RM	₹ 185	₹ -



Pt. Din Dayal Upadhyay Combined Hospital, Moradabad			DC Solar Capacity (kWp) 747.04			
Moradabad 747.04						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
78	UPVC CONDUIT FOR CABLE 20 MM DIA	SUPREME		RM	₹ 112	₹ -
79	2C x 2.5 SQMM XLPE INSULATED FLEXIBLE CABLE with lugs	KEI/POLYCAB		RM	₹ 41	₹ -
80	1C x 4 SQMM CU PVC INSULATED	KEI/POLYCAB		RM	₹ 21	₹ -
81	Installation and Commissioning	KEI/POLYCAB	1	Job	₹ 5,917	₹ 5,917
	CABLE TRAY					
82	50X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & CLAMP	REPUTED	500	METERS	₹ 368	₹ 184,200
83	75X75X 1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & CLAMP	REPUTED	230	METERS	₹ 547	₹ 125,751
84	100X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 449	₹ -
85	100X75X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	100	METERS	₹ 531	₹ 53,112
86	150X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 592	₹ -
87	150X75X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 687	₹ -
88	200X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 736	₹ -
89	200X75X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 950	₹ -
90	300X75X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 1,287	₹ -
91	300X100X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 1,390	₹ -
	LIGHTING PROTECTION					
92	ESE TYPE LA RADIUS 50 m	REPUTED		NO'S	₹ 29,231	₹ -
93	ESE TYPE LA RADIUS 70 m	REPUTED		NO'S	₹ 29,793	₹ -
94	ESE TYPE LA RADIUS 90 m	REPUTED		NO'S	₹ 30,355	₹ -
95	ESE TYPE LA RADIUS 107 m	REPUTED	3	NO'S	₹ 31,479	₹ 94,438
96	5 METER MAST	REPUTED	3	NO'S	₹ 5,917	₹ 17,751
97	LIGHTENING STRIKE COUNTER	REPUTED	3	NO'S	₹ 5,917	₹ 17,751
	EARTHING					
98	EARTH ROD CONSISTING OF HIGH TENSILE LOW CARBON STEEL WITH ELECTROLYTIC GRADE 250MM COPPER COATING. ROD DIA 17.2MM	REPUTED	44	NO'S	₹ 1,893	₹ 83,314
99	EARTH ENHANCE COMPOUND	REPUTED	44	SET	₹ 592	₹ 26,036
100	EARTHING PIT CHAMBER PRE CAST	REPUTED	44	SET	₹ 592	₹ 26,036
101	25X3 G.I STRIP GALVANISED	REPUTED	1100	METERS	₹ 65	₹ 71,598
102	25X6 G.I STRIP GALVANISED	REPUTED	0	METERS	₹ 97	₹ -
103	50X3 G.I STRIP GALVANISED	REPUTED	500	METERS	₹ 97	₹ 48,521
104	50X6 G.I STRIP GALVANISED	REPUTED	240	METERS	₹ 260	₹ 62,485
105	INSULATOR FOR GI STRIP	REPUTED	850	NO'S	₹ 12	₹ 10,059
106	M8 X 25 with nut & washer	REPUTED	950	NO'S	₹ 9	₹ 8,994
	C CLASS					
	GLANDS					
107					408.28402	₹ -
108					408.28402	₹ -
109	4CX35 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	4	NO'S	₹ 495	₹ 1,981
110	4CX50 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	6	NO'S	₹ 728	₹ 4,367
111	4CX70 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	6	NO'S	₹ 880	₹ 5,278
112	4CX95SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	8	NO'S	₹ 1,054	₹ 8,428
113	4CX120 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	4	NO'S	₹ 1,054	₹ 4,214



Moradabad 747.04

S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
114	4CX150SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	4	NO'S	₹ 1,243	₹ 4,974
115	4CX185SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 1,396	₹ -
116	4CX240SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	2	NO'S	₹ 2,106	₹ 4,212
117					2446.1538	₹ -
118	4CX 300SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 2,446	₹ -
119	4CX 400SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 2,663	₹ -
LUGS						
120	LUGS RING TYPE 4 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	2760	NO'S	₹ 5.4	₹ 14,862
121						₹ -
122						₹ -
123						₹ -
124						₹ -
125	LUGS RING TYPE 4CX35 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	16	NO'S	₹ 32	₹ 507
126	LUGS RING TYPE 4CX50 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	24	NO'S	₹ 48	₹ 1,145
127	LUGS RING TYPE 4CX70 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	24	NO'S	₹ 19	₹ 449
128	LUGS RING TYPE 4CX95 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	32	NO'S	₹ 93	₹ 2,986
129	LUGS RING TYPE 4CX120 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	16	NO'S	₹ 136	₹ 2,172
130	LUGS RING TYPE 4CX150 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	16	NO'S	₹ 170	₹ 2,713
131	LUGS RING TYPE 4CX185 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 215	₹ -
132	LUGS RING TYPE 4CX240 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	8	NO'S	₹ 338	₹ 2,708
133	LUGS RING TYPE 4CX 300 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 431	₹ -
134	LUGS RING TYPE 4CX 400 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 500	₹ -
135	M4X20 with two plain washer and nut	DOWEL/COMMET	2760	NO'S	₹ 7	₹ 19,596
CONNECTORS						
136	MULTICONTACT MC4 CONNECTOR FOR 4 MM2 (FEMALE)	MC/BIZILINK/SABULI/ELCOM	288	NO'S	₹ 50	₹ 14,315
137	MULTICONTACT MC4 CONNECTOR FOR 4 MM2 (MALE)	MC/BIZILINK/SABULI/ELCOM	288	NO'S	₹ 50	₹ 14,315
CONDUIT						
138	G.I. NILON COAT FLEXIBLE CONDUIT 32 MM DIA	SUPREME	200	METERS	₹ 36	₹ 7,101
139	HDPE CONDUIT 25 MM DIA, SMOKE GREY	SUPREME	1200	METERS	₹ 30	₹ 35,503
140	UPVC CONDUIT FOR CABLE 20 MM DIA	SUPREME	700	METERS	₹ 24	₹ 16,568
141	UPVC CONDUIT FOR CABLE 40 MM DIA	SUPREME	500	METERS	₹ 47	₹ 23,669
142	CLAMP	SUPREME	710	Nos	₹ 14	₹ 10,083
PLUMBING SYSTEM FOR SOLAR PLANT						
143	UPVC PIPE 25MM SCH80	PRINCE/ASTRA/PLASTO/SUPREME	1200	METERS	₹ 139	₹ 167,148



Pt. Din Dayal Upadhyay Combined Hospital, Moradabad			DC Solar Capacity (kWp) 747.04			
Moradabad 747.04						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
144	uPVC PIPE 20MM SCH80	PRINCE/ASTRA/PLASTO/SUP REME	100	METERS	₹ 101	₹ 10,089
145	uPVC ELBOW 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 23	₹ 1,172
146	uPVC END CAP 20MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	40	METERS	₹ 12	₹ 495
147	uPVC TEE 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 31	₹ 1,562
148	uPVC UNION 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	40	METERS	₹ 51	₹ 2,031
149	uPVC COUPLER 25 MM SCH40	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 16	₹ 781
150	REDUCING TEE 2X25XX20 SH40	PRINCE/ASTRA/PLASTO/SUP REME	40	METERS	₹ 31	₹ 1,250
151	HOSE FOR MODULE CLEANING WITH SPRAY GUN	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 101	₹ 5,044
152	BALL VALVE 20MM BRASS	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 199	₹ 9,959
153	Telescopic Wiper	REPUTED	5	METERS	₹ 5,917	₹ 29,586
154	WATER TANK OF 1KL	REPUTED	0	METERS	₹ 11,834	₹ -
155	WATER METER (0-100LPM) ANALOG TYPE	REPUTED	0	METERS	₹ 2,959	₹ -
156	MONOBLOCK 1 HP PUMP WITH FITTING AND WIRE	SHAKTI/Kirloskar	9	NO'S	₹ 7,101	₹ 63,905
157	MONOBLOCK 1.5 HP PUMP WITH FITTING AND WIRE	SHAKTI/Kirloskar	0	NO'S	₹ 10,059	₹ -
	FIRE PROTECTION					
158	ABC FIRE PROTECTION 4.5 KG	REPUTED	9	NO'S	₹ 2,722	₹ 24,497
159	CO2 FIRE PROTECTION 4.5 KG	REPUTED	9	NO'S	₹ 5,917	₹ 53,254
160	FIRE SAND BUCKETS WITH 2 BUCKET EACH WITH STAND	REPUTED	9	NO'S	₹ 1,893	₹ 17,041
161	FIRST AID BOX AS PER BOCW ACT	REPUTED	9	NO'S	₹ 5,917	₹ 53,254
	CABLE TIE					
162	CABLE TIE 100 UV RESISTANT BLACK 100PCS PACKET	KSS/SUPERFLEX	60	PACKET	₹ 178	₹ 10,651
163	CABLE TIE 200 UV RESISTANT BLACK 100PCS PACKET	KSS/SUPERFLEX	60	PACKET	₹ 237	₹ 14,201
	SAFETY TAGS					
164	SHOCK TREATMENT CHART, SAFETY CHARTS	REPUTED	9	NO'S	₹ 592	₹ 5,325
165	DO'S & DON'TS CHARTS	REPUTED	9	NO'S	₹ 355	₹ 3,195
166	HEAT SHRINKABLE SLEEVE (AS PER CABLE SIZE COLUR)	REPUTED	9	NO'S	₹ 355	₹ 3,195
167	CAUTION DANGER BOARD	REPUTED	9	NO'S	₹ 592	₹ 5,325
168	RUBBER MAT FOR INVERTER & ACDB	REPUTED	10	NO'S	₹ 1,775	₹ 17,751
169	SOLAR CABLE FERULES WITH AL TAG	REPUTED	3	NO'S	₹ 592	₹ 1,775
170	AC CABLE FERULES WITH AL TAG	REPUTED	3	NO'S	₹ 592	₹ 1,775
171	INSULATION TAP	REPUTED	3	NO'S	₹ 59	₹ 178
172	PLANT DISPLAY BOARD	REPUTED	1	NO'S	₹ 10,059	₹ 10,059
	INSTALLATION WORK					
173	MS STAND FOR INVERTER MOUNTING	LOCAL	10	SET	₹ 3,550	₹ 35,503
174	MS STAND FOR ACDB MOUNTING	LOCAL	6	SET	₹ 3,550	₹ 21,302
175	ACCESS LADDER	LOCAL	8	SET	₹ 35,503	₹ 284,024
176	DOOR & LOCK REPAIR	LOCAL	9	SET	₹ 2,959	₹ 26,627



Pt. Din Dayal Upadhyay Combined Hospital, Moradabad

DC Solar Capacity (kWp) 747.04

Moradabad 747.04

S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
177	INV & ACDB CAGE	LOCAL	16	SET	₹ 11,834	₹ 189,349
						₹ 21,418,437
	INSTALLATION & COMMISSIONING					
1	INSTALLATION & COMMISSIONING OF RCC ROOF		747	KWp	₹ 2,700	₹ 2,017,008
2	M25 GRADE RCC FOUNDATION FOR RCC ROOF				₹ 888	-
3	M25 GRADE RCC FOUNDATION FOR RCC ROOF (Raised structure)		747	NO'S	₹ 1,183	₹ 884,071
4	CIVIL FOR BLAST TYPE			NO'S	₹ 1,300	-
5	NitoBond		93.38	LTR	₹ 1,065	₹ 99,458
6	Other Services		1.00	LTR	₹ 41,420	₹ 41,420
	TOTAL OF I&C					₹ 3,041,957
	APPROVALS - LT SIDE					
1	CEIG APPROVAL, INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (≤ 500 kWp)					
2	CEIG APPROVAL, INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (500 - 900 kWp)		747	KWp		₹ 264,852
3	CEIG APPROVAL, INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (≥ 900 kWp)					
4	NET METERING- METER HARDWARE (< 500 kWp)					
5	NET METERING- METER HARDWARE (500 - 900 kWp)		747	KWp		₹ 441,420
6	NET METERING- METER HARDWARE (> 900 kWp)					
	TOTAL OF APPROVAL					₹ 706,272
	OPTIONAL ITEM					
1	Spreader / Modification charges in existing panel	REPUTED		NO'S	As per Actual Cost	
2	UPS 500 VA WITH 30 MINS BACKUP WITH BATTERY	REPUTED		NO'S	₹ 2,604	
3	MFM SCHNIEDER EM6400 NG	REPUTED		NO'S	₹ 8,796	
4	DG Synch Controller	REPUTED		NO'S	As per Actual Cost	
5	Any other Item as may be required by OMC			NO'S	As per Actual Cost	
6	Transportation					₹ 96,667
Total amount						₹ 25,263,333



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ANNEXURE B3 - Pt. Din Dayal Upadhyay Combined Hospital, Aligarh			DC Solar Capacity (kWp) 499.96			
Aligarh 499.96						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
	MODULE					
1	MODULE-580 WP, N-TYPE BIFACIAL MODULE	PANASONIC/JAKSON	862	NO'S	₹ 8,678	₹ 7,480,652
	INVERTER					
2	STRING INVERTER 20 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 93,678	₹ -
3	STRING INVERTER 25 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 96,741	₹ -
4	STRING INVERTER 30 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 131,502	₹ -
5	STRING INVERTER 40 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI	1	NO'S	₹ 156,247	₹ 156,247
6	STRING INVERTER 50 KW 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 170,622	₹ -
7	STRING INVERTER 60 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 178,989	₹ -
8	STRING INVERTER 70 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI	3	NO'S	₹ 242,737	₹ 728,210
9	STRING INVERTER 80 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 248,747	₹ -
10	STRING INVERTER 100 KW, 400 V GRID CONNECTED	GROWATT/SOLIS/HITACHI	2	NO'S	₹ 294,466	₹ 588,931
11	STRING INVERTER 110 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 303,333	₹ -
12	STRING INVERTER 125 KW, 400V GRID CONNECTED	GROWATT/SOLIS/HITACHI		NO'S	₹ 314,740	₹ -
	STEEL STRUCTURE					
13	MS HDGI Module mounting structure Struture with minimum 80 micron coating	JAKSON/REPUTED	18259	KG	₹ 100	₹ 1,825,854
14	J BOLT	JAKSON/REPUTED	0	No	₹ 77	₹ -
15	J BOLT/Anchor	JAKSON/REPUTED	1724	No	₹ 130	₹ 224,426
16	Blast Type Structure	JAKSON/REPUTED	0	KG	₹ 3,550	₹ -
	FASTNERS					
17	Fastnrs, Washers & Others (Anti-theft bolt)	REPUTED	500	KWp	₹ 370	₹ 184,985
	BOS					
	DC CABLE					
18	CABLE 1CX4 SQMM CU. XLPO/XLPE	POLYCAB/KEI/APAR	7758	METERS	₹ 43	₹ 335,109
19	CABLE 1CX 6 SQMM CU. XLPO/XLPE	POLYCAB/KEI/APAR	0	METERS	₹ 69	₹ -
	AC CABLE COPPER FRLS					
20	2C x 2.5 SQMM XLPE INSULATED FLEXIABLE CABLE	KEI/POLYCAB	810	METERS	₹ 71	₹ 57,371
	AC CABLE ALUMINIUM FRLS OUTER SHEATH					
21	3.5C x 25 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 189	₹ -
22	3.5C x 35 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	25	METERS	₹ 239	₹ 5,976
23	3.5C x 50 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	40	METERS	₹ 324	₹ 12,943
24	3.5C x 70 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	20	METERS	₹ 436	₹ 8,719
25	3.5C x 95 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	25	METERS	₹ 545	₹ 13,613
26	3.5C x 120 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	20	METERS	₹ 682	₹ 13,639



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Pt. Din Dayal Upadhyay Combined Hospital, Aligarh

DC Solar Capacity (kWp) 499.96

Aligarh 499.96

S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
27	3.5C x 150 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 808	₹ -
28	3.5C x 185 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,023	₹ -
29	3.5C x 240 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	220	METERS	₹ 1,285	₹ 282,678
30	3.5C x 300 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	920	METERS	₹ 1,581	₹ 1,454,510
31	3.5C x 400 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB	1010	METERS	₹ 2,020	₹ 2,039,925
32	4C x 165SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 161	₹ -
33	4C x 25 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 202	₹ -
34	4 C x 35 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 272	₹ -
35	4C x 50 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 364	₹ -
36	4C x 70 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 494	₹ -
37	4C x 95 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 617	₹ -
38	4C x 120 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 752	₹ -
39	4C x 150 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 924	₹ -
40	4C x 185 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,137	₹ -
41	4C x 240 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,468	₹ -
42	4C x 300 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 1,810	₹ -
43	4C x 400 SQMM XLPE INSULATED ARMORD , 1.1 KV POWER CABLE	KEI/POLYCAB		METERS	₹ 2,327	₹ -
EARTHING CABLE						
44	1C x 4 SQMM CU PVC INSULATED	KEI/POLYCAB	345	METERS	₹ 44	₹ 15,171
45	1C x 6 SQMM CU PVC INSULATED	KEI/POLYCAB	0	METERS	₹ 65	₹ -
46	1C x 25 SQMM CU PVC INSULATED	KEI/POLYCAB	0	METERS	₹ 357	₹ -
47	1C x 35 SQMM CU PVC INSULATED	KEI/POLYCAB	120	METERS	₹ 490	₹ 58,817
48	1C x 50 SQMM CU PVC INSULATED	KEI/POLYCAB	20	METERS	₹ 684	₹ 13,683
49	1C x 70 SQMM CU PVC INSULATED	KEI/POLYCAB		METERS	₹ 940	₹ -
COMMUNICATION CABLE						
50	RS 485 CABLE 0.75 MM ,ANNEALED TIN COPPER 2 CORE TWISTED	POLYCAB/BELDEN	900	METERS	₹ 166	₹ 149,112
PANEL						
51	ACDB PANEL 20 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
52	ACDB PANEL 25 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
53	ACDB PANEL 30 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
54	ACDB PANEL 40 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
55	ACDB PANEL 50 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 70,414	₹ -
56	ACDB PANEL 60 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 76,923	₹ -
57	ACDB PANEL 70 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	3	NO'S	₹ 79,882	₹ 239,645
58	ACDB PANEL 80 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 79,882	₹ -



Pt. Din Dayal Upadhyay Combined Hospital, Aligarh			DC Solar Capacity (kWp) 499.96			
Aligarh 499.96						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
59	ACDB PANEL 100 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED	1	NO'S	₹ 86,509	₹ 86,509
60	ACDB PANEL 110 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 89,586	₹ -
61	ACDB PANEL 125 KW 415 V 1 in 1 Out (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 89,586	₹ -
62	ACDB PANEL 200 KW (100+100) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED	2	NO'S	₹ 170,296	₹ 340,592
63	ACDB PANEL 120 KW (40+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED	1	NO'S	₹ 146,982	₹ 146,982
64	ACDB PANEL 140 KW (60+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 165,680	₹ -
65	ACDB PANEL 150 KW (70+80) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 167,811	₹ -
66	ACDB PANEL 220 KW (70+70+80) 415 V (3 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 217,278	₹ -
67	ACDB PANEL 220 KW (50+50+80+40) 415 V (4 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 217,278	₹ -
68	ACDB PANEL 80 KW (40+40) 415 V (2 in 1 Out) (Indoor/Outdoor Type, Non TTA)	REPUTED		NO'S	₹ 127,101	₹ -
69	ENERGY METER(Premier 300, Class 0.5)	REPUTED		NO'S	₹ 29,586	₹ -
70	ACDB PANEL 4 in 1 out (50+50+100+40)KW	REPUTED		NO'S	₹ 218,935	₹ -
REMOTE MONORTING SYSTEM						
	REMOTE MONORTING SYSTEM	Power AMR/Equivalent				
71	4G based Plug and Play - RTU, Smart data logger with antenna to connect upto 4 inverters/ MFM/ Sensors on modbus RS485 RTU • modbus RS485 RTU- 1 port • 2 digital / analog ports (0 to 5 V) • 1 analog port (4 -20 m amp) • Built in memory help store and send data in case of network failure	E Track 4G Lite	2	NO'S	₹ 16,568	₹ 33,136
72	RS485 Communication SPD citel make (optional)	Citel -DLA-06-D3	2	NO'S	₹ 2,130	₹ 4,260
73	Line SPD citel make (optional)	Citel- DS-240-320	2	NO'S	₹ 3,314	₹ 6,627
74	IP67 enclosure box along with SMPS power supply, glands and fitment in one unit to house the data logge	Boxomatic/ ERD	1	NO'S	₹ 3,550	₹ 3,550
75	Access to Web portal- per MW per annum Data frequency – 10 minute Key Components • Interactive Dashboard • Single Line Diagram • PR analysis • Solar radiation & weather data • Graphs and Reports • Generation Analysis • Log Reporting	PowerAMR	1	NO'S	₹ 15,621	₹ 15,621
	• String/ MPPT Monitoring • Plant/ Inverter Performance • Superuser Dashboard for Centralized monitoring • Mobile app on android					
76	Solar Radiation Sensor with mounting kit	Pyra300	1	NO'S	₹ 15,385	₹ 15,385
77	RS 485 CABLE 0.75 MM ,ANNEALED TIN COPPER 2 CORE TWISTED	POLYCAB/BELDEN		RM	₹ 185	₹ -



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Pt. Din Dayal Upadhyay Combined Hospital, Aligarh

DC Solar Capacity (kWp) 499.96

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S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
78	UPVC CONDUIT FOR CABLE 20 MM DIA	SUPREME		RM	₹ 112	₹ -
79	2C x 2.5 SQMM XLPE INSULATED FLEXIBLE CABLE with lugs	KEI/POLYCAB		RM	₹ 41	₹ -
80	1C x 4 SQMM CU PVC INSULATED	KEI/POLYCAB		RM	₹ 21	₹ -
81	Installation and Commissioning	KEI/POLYCAB	1	Job	₹ 5,917	₹ 5,917
CABLE TRAY						
82	50X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & CLAMP	REPUTED	110	METERS	₹ 368	₹ 40,524
83	75X75X 1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & CLAMP	REPUTED	20	METERS	₹ 547	₹ 10,935
84	100X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 449	₹ -
85	100X75X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	220	METERS	₹ 531	₹ 116,847
86	150X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 592	₹ -
87	150X75X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 687	₹ -
88	200X50X1.6 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 736	₹ -
89	200X75X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	700	METERS	₹ 950	₹ 665,207
90	300X75X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	330	METERS	₹ 1,287	₹ 424,860
91	300X100X2 mm PERFORATED TYPE CABLE TRAY WITH COVER & OMEGA CLAMP	REPUTED	0	METERS	₹ 1,390	₹ -
LIGHTING PROTECTION						
92	ESE TYPE LA RADIUS 50 m	REPUTED		NO'S	₹ 29,231	₹ -
93	ESE TYPE LA RADIUS 70 m	REPUTED		NO'S	₹ 29,793	₹ -
94	ESE TYPE LA RADIUS 90 m	REPUTED		NO'S	₹ 30,355	₹ -
95	ESE TYPE LA RADIUS 107 m	REPUTED	1	NO'S	₹ 31,479	₹ 31,479
96	5 METER MAST	REPUTED	1	NO'S	₹ 5,917	₹ 5,917
97	LIGHTENING STRIKE COUNTER	REPUTED	1	NO'S	₹ 5,917	₹ 5,917
EARTHING						
98	EARTH ROD CONSISTING OF HIGH TENSILE LOW CARBON STEEL WITH ELECTROLYTIC GRADE 250MM COPPER COATING. ROD DIA 17.2MM	REPUTED	30	NO'S	₹ 1,893	₹ 56,805
99	EARTH ENHANCE COMPOUND	REPUTED	30	SET	₹ 592	₹ 17,751
100	EARTHING PIT CHAMBER PRE CAST	REPUTED	30	SET	₹ 592	₹ 17,751
101	25X3 G.I STRIP GALVANISED	REPUTED	1100	METERS	₹ 65	₹ 71,598
102	25X6 G.I STRIP GALVANISED	REPUTED	0	METERS	₹ 97	₹ -
103	50X3 G.I STRIP GALVANISED	REPUTED	600	METERS	₹ 97	₹ 58,225
104	50X6 G.I STRIP GALVANISED	REPUTED		METERS	₹ 260	₹ -
105	INSULATOR FOR GI STRIP	REPUTED	580	NO'S	₹ 12	₹ 6,864
106	M8 X 25 with nut & washer	REPUTED	490	NO'S	₹ 9	₹ 4,639
C CLASS						
GLANDS						
107	4CX16SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 408	₹ -
108	4CX25 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 408	₹ -
109	4CX35 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	2	NO'S	₹ 495	₹ 991
110	4CX50 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	4	NO'S	₹ 728	₹ 2,911
111	4CX70 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	2	NO'S	₹ 880	₹ 1,759
112	4CX95SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 1,054	₹ -
113	4CX120 SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	4	NO'S	₹ 1,054	₹ 4,214



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S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
114	4CX150SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 1,243	₹ -
115	4CX185SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	0	NO'S	₹ 1,396	₹ -
116	4CX240SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	2	NO'S	₹ 2,106	₹ 4,212
117	4CX 300SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	6	NO'S	₹ 2,446	₹ 14,677
118	4CX 300SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET		NO'S	₹ 2,446	₹ -
119	4CX 400SQMM BRASS NICKEL PLATED DOUBLE COMPRESSION	DOWEL/COMMET	6	NO'S	₹ 2,663	₹ 15,976
LUGS						
120	LUGS RING TYPE 4 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	1670	NO'S	₹ 5.4	₹ 8,992
121	LUGS RING TYPE 4CX16 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 19	₹ -
122					26.369231	₹ -
123	LUGS RING TYPE 4CX 400 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	24	NO'S	₹ 34	₹ 816
124	LUGS RING TYPE 4CX25 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 26	₹ -
125	LUGS RING TYPE 4CX35 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	8	NO'S	₹ 32	₹ 254
126	LUGS RING TYPE 4CX50 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	16	NO'S	₹ 48	₹ 764
127	LUGS RING TYPE 4CX70 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	8	NO'S	₹ 19	₹ 150
128	LUGS RING TYPE 4CX95 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 93	₹ -
129	LUGS RING TYPE 4CX120 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	16	NO'S	₹ 136	₹ 2,172
130	LUGS RING TYPE 4CX150 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 170	₹ -
131	LUGS RING TYPE 4CX185 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 215	₹ -
132	LUGS RING TYPE 4CX240 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	8	NO'S	₹ 338	₹ 2,708
133	LUGS RING TYPE 4CX 300 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	24	NO'S	₹ 431	₹ 10,338
134	LUGS RING TYPE 4CX 400 SQMM CU. RING TYPE LUGS	DOWEL/COMMET	0	NO'S	₹ 500	₹ -
135	M4X20 with two plain washer and nut	DOWEL/COMMET	1670	NO'S	₹ 7	₹ 11,857
CONNECTORS						
136	MULTICONTACT MC4 CONNECTOR FOR 4 MM2 (FEMALE)	MC/BIZILINK/SABULI/ELCOM	192	NO'S	₹ 50	₹ 9,543
137	MULTICONTACT MC4 CONNECTOR FOR 4 MM2 (MALE)	MC/BIZILINK/SABULI/ELCOM	192	NO'S	₹ 50	₹ 9,543
CONDUIT						
138	G.I NILON COAT FLEXIBLE CONDUIT 32 MM DIA	SUPREME	200	METERS	₹ 36	₹ 7,101
139	HDPE CONDUIT 25 MM DIA, SMOKE GREY	SUPREME		METERS	₹ 30	₹ -
140	UPVC CONDUIT FOR CABLE 20 MM DIA	SUPREME	1200	METERS	₹ 24	₹ 28,402
141	UPVC CONDUIT FOR CABLE 40 MM DIA	SUPREME	700	METERS	₹ 47	₹ 33,136
142	CLAMP	SUPREME	740	Nos	₹ 14	₹ 10,509
PLUMBING SYSTEM FOR SOLAR PLANT						
143	UPVC PIPE 25MM SCH80	PRINCE/ASTRA/PLASTO/SUPREME	1300	METERS	₹ 139	₹ 181,077



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S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
144	uPVC PIPE 20MM SCH80	PRINCE/ASTRA/PLASTO/SUP REME	100	METERS	₹ 101	₹ 10,089
145	uPVC ELBOW 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 23	₹ 1,172
146	uPVC END CAP 20MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	40	METERS	₹ 12	₹ 495
147	uPVC TEE 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 31	₹ 1,562
148	uPVC UNION 25MM FOR SCH40 PIPE	PRINCE/ASTRA/PLASTO/SUP REME	40	METERS	₹ 51	₹ 2,031
149	uPVC COUPLER 25 MM SCH40	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 16	₹ 781
150	REDUCING TEE 2X25XX20 SH40	PRINCE/ASTRA/PLASTO/SUP REME	40	METERS	₹ 31	₹ 1,250
151	HOSE FOR MODULE CLEANING WITH SPRAY GUN	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 101	₹ 5,044
152	BALL VALVE 20MM BRASS	PRINCE/ASTRA/PLASTO/SUP REME	50	METERS	₹ 199	₹ 9,959
153	Telescopic Wiper	REPUTED	5	METERS	₹ 5,917	₹ 29,586
154	WATER TANK OF 1KL	REPUTED	0	METERS	₹ 11,834	₹ -
155	WATER METER (0-100LPM) ANALOG TYPE	REPUTED	0	METERS	₹ 2,959	₹ -
156	MONOBLOCK 1 HP PUMP WITH FITTING AND WIRE	SHAKTI/Kirloskar	9	NO'S	₹ 7,101	₹ 63,905
157	MONOBLOCK 1.5 HP PUMP WITH FITTING AND WIRE	SHAKTI/Kirloskar	0	NO'S	₹ 10,059	₹ -
FIRE PROTECTION						
158	ABC FIRE PROTECTION 4.5 KG	REPUTED	6	NO'S	₹ 2,722	₹ 16,331
159	CO2 FIRE PROTECTION 4.5 KG	REPUTED	6	NO'S	₹ 5,917	₹ 35,503
160	FIRE SAND BUCKETS WITH 2 BUCKET EACH WITH STAND	REPUTED	6	NO'S	₹ 1,893	₹ 11,361
161	FIRST AID BOX AS PER BOCW ACT	REPUTED	6	NO'S	₹ 5,917	₹ 35,503
CABLE TIE						
162	CABLE TIE 100 UV RESISTANT BLACK 100PCS PACKET	KSS/SUPERFLEX	40	PACKET	₹ 178	₹ 7,101
163	CABLE TIE 200 UV RESISTANT BLACK 100PCS PACKET	KSS/SUPERFLEX	40	PACKET	₹ 237	₹ 9,467
SAFETY TAGS						
164	SHOCK TREATMENT CHART, SAFETY CHARTS	REPUTED	6	NO'S	₹ 592	₹ 3,550
165	DO'S & DON'TS CHARTS	REPUTED	6	NO'S	₹ 355	₹ 2,130
166	HEAT SHRINKABLE SLEEVE (AS PER CABLE SIZE COLUR)	REPUTED	6	NO'S	₹ 355	₹ 2,130
167	CAUTION DANGER BOARD	REPUTED	6	NO'S	₹ 592	₹ 3,550
168	RUBBER MAT FOR INVERTER & ACDB	REPUTED	10	NO'S	₹ 1,775	₹ 17,751
169	SOLAR CABLE FERULES WITH AL TAG	REPUTED	6	NO'S	₹ 592	₹ 3,550
170	AC CABLE FERULES WITH AL TAG	REPUTED	6	NO'S	₹ 592	₹ 3,550
171	INSULATION TAP	REPUTED	3	NO'S	₹ 59	₹ 178
172	PLANT DISPLAY BOARD	REPUTED	1	NO'S	₹ 10,059	₹ 10,059
INSTALLATION WORK						
173	MS STAND FOR INVERTER MOUNTING	LOCAL	6	SET	₹ 3,550	₹ 21,302
174	MS STAND FOR ACDB MOUNTING	LOCAL	6	SET	₹ 3,550	₹ 21,302
175	ACCESS LADDER	LOCAL	2	SET	₹ 35,503	₹ 71,006
176	DOOR & LOCK REPAIR	LOCAL	5	SET	₹ 2,959	₹ 14,793



Pt. Din Dayal Upadhyay Combined Hospital, Aligarh			DC Solar Capacity (kWp) 499.96			
Aligarh 499.96						
S.NO	COMPONENTS	MAKE'S	Qty	UOM	Unit Rate	Amount
177	INV & ACDB CAGE	LOCAL	12	SET	₹ 11,834	₹ 142,012
						₹ 19,004,221
	INSTALLATION & COMMISSIONING					
1	INSTALLATION & COMMISSIONING OF RCC ROOF		500	KWp	₹ 2,700	₹ 1,349,892
2	M25 GRADE RCC FOUNDATION FOR RCC ROOF				₹ 888	₹ -
3	M25 GRADE RCC FOUNDATION FOR RCC ROOF (Raised structure)		500	NO'S	₹ 1,183	₹ 591,669
4					1300	₹ -
5	NitoBond		62.50	LTR	₹ 1,065	₹ 66,568
6	Other Services		1.00	LTR	₹ 41,420	₹ 41,420
	TOTAL OF I&C					₹ 2,049,549
	APPROVALS LT SIDE					
1	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (=<500 kWp)		500	KWp		₹ 177,515
2	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (500 - 900 kWp)					
3	CEIG APPROVAL INCLUSIVE OF DRAWING APPROVAL AND LIAISONING (>=900 kWp)					
4	NET METERING- METER HARDWARE (<500 kWp)		500	KWp		₹ 295,858
5	NET METERING- METER HARDWARE (500 - 900 kWp)					
6	NET METERING- METER HARDWARE (> 900 kWp)					
	TOTAL OF APPROVAL					₹ 473,373
	OPTIONAL ITEM					
1	Spreader / Modification charges in existing panel	REPUTED		NO'S	As per Actual Cost	
2	UPS 500 VA WITH 30 MINS BACKUP WITH BATTERY	REPUTED		NO'S	₹ 2,604	
3	MFM SCHNIEDER EM6400 NG	REPUTED		NO'S	₹ 8,796	
4	DG Synch Controller	REPUTED		NO'S	As per Actual Cost	
5	Any other Item as may be required by OMC			NO'S	As per Actual Cost	
6	Transportation					₹ 48,889
Total amount						₹ 21,576,032



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SCHEDULE C

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SCHEDULE D – CARDINAL SAFETY RULES

S. No.	Symbol	Cardinal Safety Rule	Example of Violation
1.		No untrained person shall undertake / be directed to undertake an unsafe task without proper training and use of personal protective equipment	Working on live electrical equipment and working on height without proper protection, qualification, training or submission of Safety Declaration.
2.		Proper Personal Protective Equipment (PPE) shall be used while performing hazardous tasks.	Working on Height without Safety Harness, Safety Shoes and Safety Helmet or any other prescribed PPE required for completing the assigned work.
3.		Every person shall always wear a seat belt while sitting in a four wheeler and wear a helmet while driving a two wheeler. Employees shall not use mobile phone while driving	Not using seat belt while driving a four wheeler and not wearing of the Helmet by two wheeler driver & Pillion passenger. Using mobile phone while driving.
4.		No person shall drive under the influence of alcohol.	Driving under influence of Alcohol
5.		All incidences shall be reported by the person responsible. <i>(all incidents happening at site, office, warehouse and on road [while on duty] should be reported without fail)</i>	Incidence reporting for Site, Office, Warehouse and Road