



7.1.2 (A)

ENERGY CONSERVATION

BY USE OF

SOLAR ENERGY

SOLAR POWER PLANT

St. Xavier's College Jaipur has established a 300 kW solar power plant in April 2023, featuring 550 panels, aimed at optimizing electricity production. This initiative underscores the institution's commitment to sustainability and green energy, contributing significantly to reducing carbon emissions and promoting renewable energy adoption in the region.

St Xavier's College Jaipur

Approved under Section 2(f) & 12(B) of the UGC Act, 1956 (Affiliated to the University of Rajasthan, Jaipur)
(A Christian Minority Jesuit Institution)

300 KVA RENEWABLE ENERGY SOLAR PROJECT
ST XAVIER'S COLLEGE, JAIPUR
Nehta - Mahapura Road, Jaipur - 302029

How does it work?
Solar cells are made of silicon and the cells are combined to make solar panels. When photons hit the solar cells, they free electrons from their atoms. The electrical current is formed when the positive and negative sides of the solar cell are connected and electricity is generated when electrons flow through the circuit.

Objectives

- To fulfill the commitment made in SDG-7 of 170.
- To be self-reliant on energy requirement.
- Reduce energy is clean and green energy.
- Sustainable and Environment friendly.
- Helps to combat Global Warming.
- Cost effective.

Save Energy, Use Renewable Energy

GPS Map Camera

Bankrota, Rajasthan, India
RM4G+2R, Bankrota, Nehta, Rajasthan 302029, India
Lat 26.805506°
Long 75.676472°
10/02/24 06:01 PM GMT +05:30

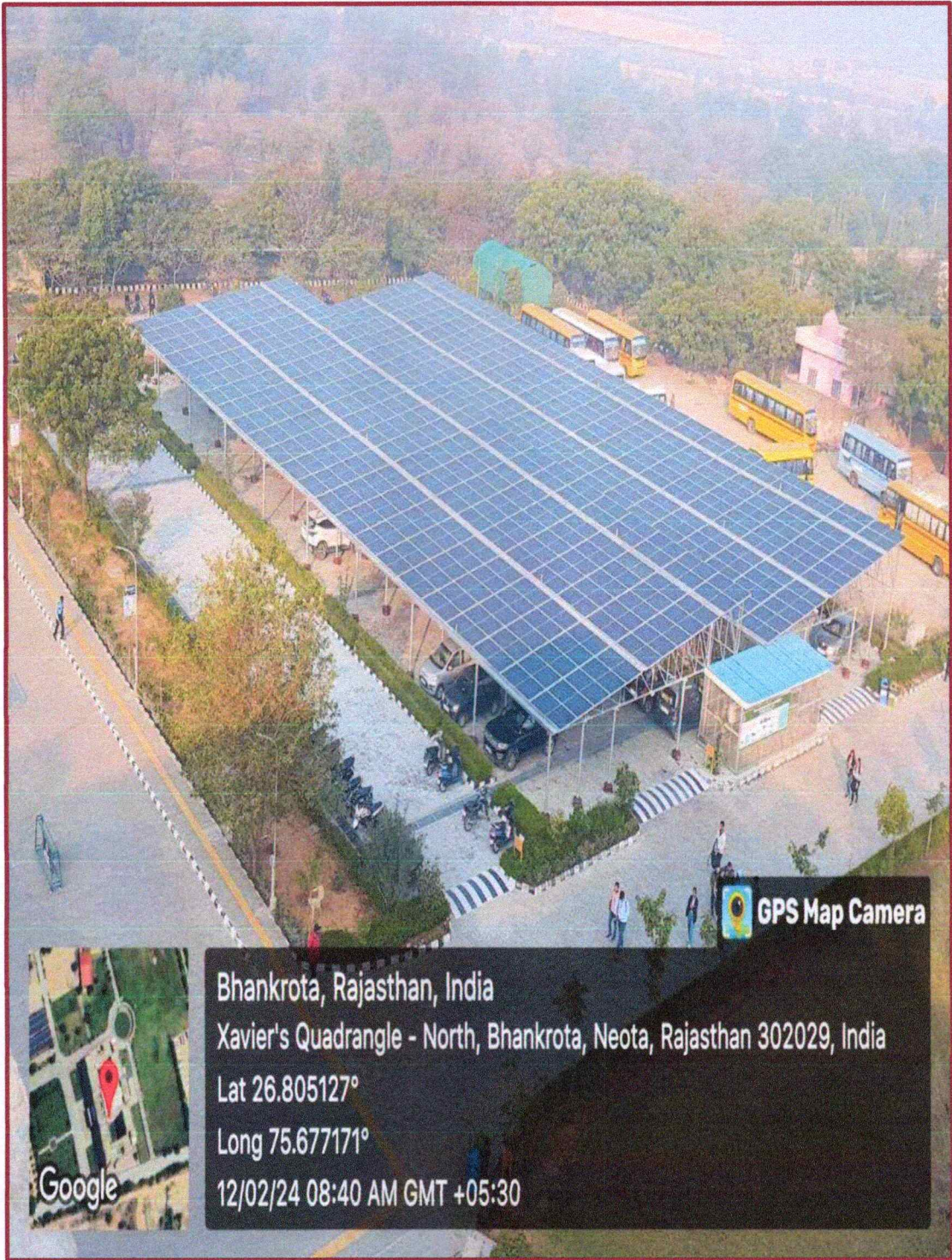
SOLAR PANEL

SOLAR POWER PLANT



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A Christian Minority Educational Institution under Section 2(g) of NCMEI Act, 2004





SOLAR POWER PLANT NOC (No Objection Certificate)

OFFICE OF THE ASSISTANT ENGINEER (O&M)

JAIPUR VIDHYUT VITRAN NIGAM LTD. SANGANER JAIPUR

NO.JPD/AEN/O&M/CC/SANGANER/D.

DATED

JAIPUR XAVIER EDUCATIONAL ASSOCIATION

K no. 1390,1391,1392

Village Newta Teh-Sanganer Dis-Jaipur

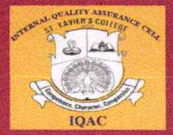
29
05/04/23

Sub:-Regarding NOC to install Rooftop PV Solar power plant.

On the above cited subject, NOC is hereby issued to you for installing roof top PV solar power plant provided that-

1. The Solar power generation & equipment will conform to the standards and requirements specified in RERC Net metering regulation 2015.
2. Along with the regulations and codes of CEA regulations 2013 (for connectivity) & 2006 (for Installation and operations of Meters)
3. All the equipment of Solar_PV power plant should be pretested by supplier and test certificates for the concerned equipment shall be furnish to JDVNL/JVNL/AVVNL
4. The inter connection of the roof top PV solar power plant with the network of JDVNL/JVNL/AVVNL , should be made as per the technical specifications and standards for connection under CEA regulation 2013.
5. Solar power capacity for 300 KW.
6. Running connection 480 K.W.

ASISTANT ENGINEER (O&M)
J.V.V.N.L. SANGANER, JAIPUR



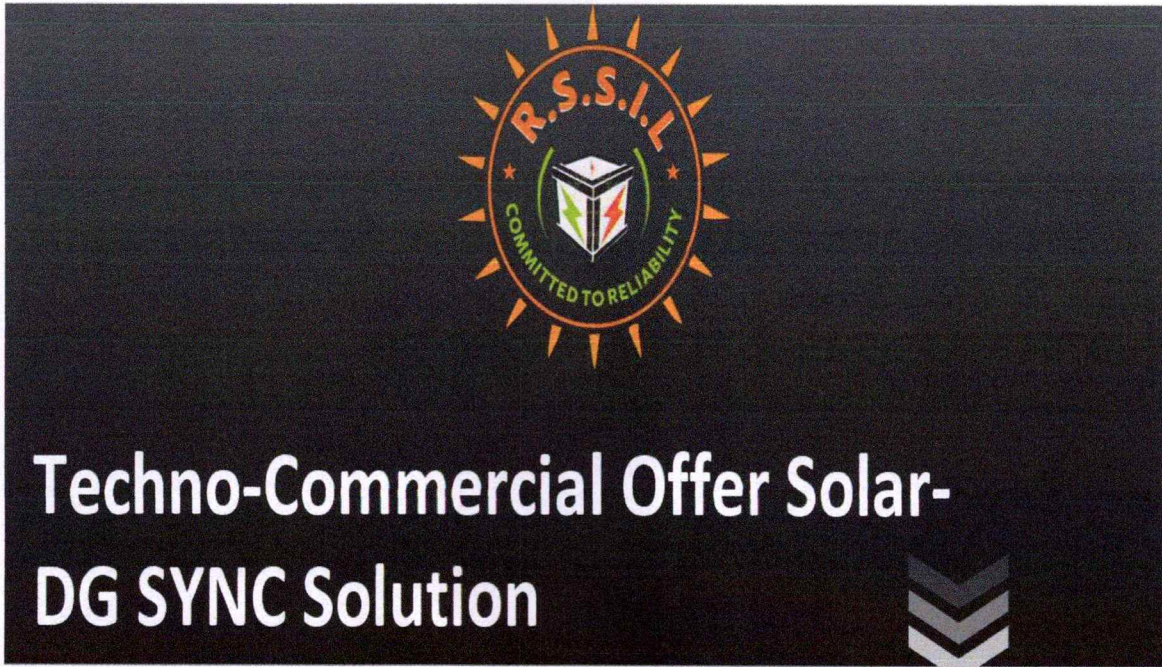
SOLAR POWER PLANT

MANUAL





Manual



Backfeed Management Solution to DG

Reliable Source and Solutions India LLP



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Details		
Quote No	RSSIL_23-24/67	August 19, 2023
Customer Details		
Company Name	M/s Concept Solar Energy	
Project Site	300Kw-Jaipur	
Contact Person	E- I M- +91 9887471953	
Contact Person Arjun Paul		
conceptsolarenergy@gmail.com		

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A. Please note our commercial offer is based on site survey details received from clients. If there will be a change in the details of the site vary, it may affect the cost and technical configuration of the offer.

Price Schedule			
S.No	Description	Qty	Total Price
1	Supply and Commissioning of Solar Manager Panel (Solar-DG Sync) for 300Kw Site consisting for 125Kw Growatt String Inverter + 500KVA DG with Solar Plant Monitoring	01 Set	INR 225,000.00
2	Supply of Serial Communication Port Programmable MFM for DG + 1 Grid	02 Nos	INR 31,000.00
3	Site Service for Commissioning of Solar Manager System	01 Day	Included
4	Supply RS-485 Communication Cable	700 Mtr	INR 69,500.00
5	Supply of Repeater Panel for Communication boost	01 Nos	INR 20,000.00
		Total	INR 3,45,500
		Freight	INR 5,000.00
		Good and Service Tax 18%	INR 63,090
		Total Due Payment	INR 4,08,590

1 Yr. Cloud charges included in this, after that INR 4,500 per Year will charge on request.

Note: -

- The prices quoted above are as per bill of material / drawings attached and quantities given and any change in it shall affect the price accordingly.
- The price is quoted on Supply basis, GST, Freight or any other levies shall be extra, as per our general Terms & Conditions given.
- Site visit and I&C charges will extra at actuals or customer can arrange travel boarding and lodging at actuals. However, we do the device configuration from remote also which will be free of cost.

B. Schedule of Makes

Choice of Make lies with our design team and we will take call depending on availability, quality and suitability to client's site requirements-

❖ Controller	RSS INDIA
❖ Software	RSS INDIA
❖ RS-485 Cable	Belden
❖ Enclosure	Polycarbonate IP65
❖ MFM	Secure

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C. Scope of services

- ❖ Commissioning with integration of hardware listed below for to protect back feed from Solar Power Plant to Grid Only
- ❖ Documentation of System,
- ❖ Post Commissioning Support on Phone or email for 1 year from the date of supply.
- ❖ Control and Communication design of our Backfeed Management System,

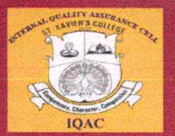
D. Scope of hardware and software supply

S.No	Supplier Scope	Client Scope
01	Supply of Backfeed Management Panel fully engineered	Cable Supply and Laying Work + Civil Work + Conduiting and Chaning
02	Web Portal Interface 01 Yr.	220 V AC, Power Supply arrangement
03	Onsite Installation Support and Go Live (01 Day)	SIM card
04	Repeater Panel Supply	Backfeed Management Panel and CT Installation

E. Backfeed Management Solution Features:-

- ❖ Reverse Backfeed Management of solar power to DG only.
- ❖ Remote Monitoring of Solar Power Plant (Optional)
- ❖ Curtailed Power Monitoring (Optional)
- ❖ Real time Data analysis (Optional)
- ❖ Remote Monitoring of Solar Inverter along with DG + Grid Meter Monitoring (Optional)

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F. Exclusion List

- ❖ Any mechanical, welding, civil works, digging and refilling of trenches, unloading, mounting, transportation, movement of any materials within site or outside site.
- ❖ Any power or communication cabling works or cable trays or their supports / trench, except laying of cables in existing cable tray / trench / on wall.
- ❖ Supply of MFM and CT / PT –fitting in any of the Panels
- ❖ Modification in Wiring of any existing panels
- ❖ Cabling for powering back feed protection control panel
- ❖ Any Inverter or any of its parts.
- ❖ Electricity and water required at site for project work.
- ❖ SEB Main Line / ACDB Energy Meter of any kind

G. Requirements from Client:

- ❖ Fitting of MFM & CTs and their wiring up to terminals at your Solar Manager Panel,
- ❖ Laying and connecting serial communication cables between string Inverters, Multifunction meter and Solar Manager Panel respectively.
- ❖ Service support from inverter manufacturers for accessing the inverter on communication, including supply of hardware like inverter manager, communication card / software, if needed. You will have to ensure that we get access to Inverter memory on RS485 / Ethernet communication port of Inverter.
- ❖ Making cable trays / trenches to be used for laying of communication cable as per our specifications and directions of our design team,
- ❖ One local electrician with hand tools,
- ❖ A healthy Earth connection, to all panels, with resistance ≤ 2 Ohm
- ❖ Uninterrupted Power Supply for Powering Solar Manager Panel.
- ❖ SIM Card for Internet Connection for Remote Monitoring with transmission speed – 10/100 Mbit/s

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Principal

St. Xavier's College, Jaipur
Nevta-Mahapura Road, Jaipur



H. General Terms and conditions

- 1) **Prices** – The prices are supply basis, Ex-Our Works basis only and based on Bill of Material/Scope Document attached. Any changes in Bill of Material or the quantities shall affect the prices accordingly.
- 2) **Packing & Forwarding** –Included anywhere in Noida. Wooden crate packing will be charged extra as per actuals or at 3% of invoice value, whichever is lower.
- 3) **Freight** –Payable extra as applicable. We will extend all possible help to you for locating a local transporter.
- 4) **Delivery** –The delivery period quoted below is in good faith and is subject to Force Majeure Clause. The delivery of equipment commences from the date of advance payment and approval of drawing. However, if you fail to lift the equipment in a period of 1 week from its readiness, you shall be liable to pay interest at the prevailing bank rate on the balance value of the equipment besides storage charges @ Rs.2000/- per week.
- 5) **Standard Dispatch Period**- Within 10-12 Working days from date of advance received in our bank / or as mutually agreed.
- 6) **Commissioning Services**–Commissioning Support will be given on remote access / phone / email. Commissioning service at site will be charged at INR 10,000/-. Customers shall provide for outstation trip, 2nd AC train fare (both sides) if destination can be reached in 10 hours of travel; else by Economy class air fare. Local travel will be provided free by Taxi / OLA / Uber in case Commissioning services required at site including Delhi NCR region. INR 7,500 charge for 8 hours per day. All Hotels, food will also be in client scope.
- 7) **Taxes & Duties** – GST Will be charged extra 18 %.
- 8) **Insurance** –The transit insurance is included in the prices. The in-house insurance, on reaching the material at site shall be made by client.
- 9) **Payment terms**-
 - 70% with advance payment with PO
 - 30% at time of readiness of equipment before dispatch

Bank Details : Bank of Baroda
Company Name : Concept Energy Solutions
BRANCH : Sitapura Jaipur
A/C NO. : 30780200002410
IFSC CODE : BARBOSITJAI
Fifth Character is ZERO

All Civil Work cost would in the scope of Xavier Educational Society ,Newta , Jaipur

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- 10) **Force Majeure** –We shall be under no liability under any contract arising out of offer wherever fulfilment of our and/or our supplier or sub- vendors obligations are hindered or prevented by causes beyond our/their control such as War, Strikes, Lockouts, Epidemics, Failure of electricity or power, labor unrest or orders of the government or other duly constituted authority.
- 11) **Cancellation of Order** –No order is subject to cancellation whether in part or full unless requested by purchaser and accepted in writing by the seller. In the event of any cancellation, the purchaser shall pay the seller, 35% of the order value as cancellation charges.
- 12) **Warranty & Repair** –Backfeed Management Solution Panel shall be warranted for a period of 01 year from the date of dispatch of the equipment / components from our works. The warranty is limited to repair or replacement, at our discretion, free of cost, **ex-our works only**. Any component found defective due to bad workmanship or faulty raw material will be repaired or replaced, *at our discretion*, provided the defects are not due to damage during transit, physical damage, bad storage, misuse, mishandling of the equipment / components at customer's site or due to normal wear and tear. On switchgears the warranty clauses of our principals will apply. On request we can provide our principals standard terms & conditions of warranty. Site support during warranty, if desired by the client will be given as per commissioning rates.

This warranty does not cover Fuses, Indication Lights, Rubber and Plastic parts or coils of contactors or contact of contactors. Please be advised that any unauthorized repair shall render this warranty void.

- 13) **Post Warranty Service** – In case you require the services of commissioning engineer for more than a day, it shall be charged extra at the prevailing rate of commissioning service, subject to a maximum of 8 hours' man-day. Any extra hours will be charged on a pro rata basis. Same charges are applicable if service is given on remote access.

You will also provide to and from site, travel expenses, on 2nd AC train if destination can be reached in 10 hours of travel; else by Economy class air fare. Local travel will be provided free by taxi. Lodging and Boarding will also be in your scope. Local travel will be provided free by Taxi / OLA / Uber. All Hotel and Food expenses and arrangements will also be in your scope. For the same day return site, food and local travel will be provided free or compensated as per actuals. These charges are valid all over India, including Delhi and NCR.

- 14) **Extended Warranty** – Extended warranty is available at the 10% extra charge per annum. This extended warranty will not be applicable to consumable items. Maximum extended warranty can be given for 5 years from the date of invoice. Terms and conditions of Extended Warranty will remain the same as in Warranty Terms given above.

- 15) **Limitation of liability** – Notwithstanding anything contained in this proposal, its appendices, any offer, or order to the contrary, with respect to any and all claims arising out of the performance or non-performance of obligations under this Proposal or resultant Agreement or purchase order(s), whether arising in contract, tort, warranty, strict liability or otherwise, total liability of Reliable Source and Solutions India Llp shall not exceed beyond 5% of the total contract value received from customer.

Notwithstanding anything contained anywhere else in this Proposal, or in the resultant Agreement, or anywhere else, in present or in future, in no event shall Reliable Source and Solutions India Llp be liable, whether in contract, tort or otherwise, to the Customer for special, indirect or consequential loss or damage (such as, not exclusively, loss of production, loss of reputation, loss of income, loss of profit, etc.).

- 16) **Indemnification:** Customer shall fully Indemnify and hold harmless Reliable Source and Solutions India Llp and its affiliates, associates, directors and employees from and against any and all losses, costs, damages, injuries, liabilities, claims and causes of action, including without limitation arising out of or resulting from claims by third parties, acts, omissions or breach of any of the Customer's affiliates, suppliers, employees, agents or contractors in the performance of Customer's obligations under this Proposal or any resultant Agreement or otherwise arising out of the solar power system or its usage.

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- 17) **Warranty & Repair** – Backfeed Management Solution Panel shall be warranted for a period of 01 year from the date of dispatch of the equipment / components from our works. The warranty is limited to repair or replacement, at our discretion, free of cost, **ex-our works only**. Any component found defective due to bad workmanship or faulty raw material will be repaired or replaced, *at our discretion*, provided the defects are not due to damage during transit, physical damage, bad storage, misuse, mishandling of the equipment / components at customer's site or due to normal wear and tear. On switchgears the warranty clauses of our principals will apply. On request we can provide our principals standard terms & conditions of warranty. Site support during warranty, if desired by the client will be given as per commissioning rates.

This warranty does not cover Fuses, Indication Lights, Rubber and Plastic parts or coils of contactors or contact of contactors. Please be advised that any unauthorized repair shall render this warranty void.

- 18) **Post Warranty Service** – In case you require the services of commissioning engineer for more than a day, it shall be charged extra at the prevailing rate of commissioning service, subject to a maximum of 8 hours' man-day. Any extra hours will be charged on a pro rata basis. Same charges are applicable if service is given on remote access.

You will also provide to and from site, travel expenses, on 2nd AC train if destination can be reached in 10 hours of travel; else by Economy class air fare. Local travel will be provided free by taxi. Lodging and Boarding will also be in your scope. Local travel will be provided free by Taxi / OLA / Uber. All Hotel and Food expenses and arrangements will also be in your scope. For the same day return site, food and local travel will be provided free or compensated as per actuals. These charges are valid all over India, including Delhi and NCR.

- 19) **Extended Warranty** – Extended warranty is available at the 10% extra charge per annum. This extended warranty will not be applicable to consumable items. Maximum extended warranty can be given for 5 years from the date of invoice. Terms and conditions of Extended Warranty will remain the same as in Warranty Terms given above.

- 20) **Limitation of liability** – Notwithstanding anything contained in this proposal, its appendices, any offer, or order to the contrary, with respect to any and all claims arising out of the performance or non-performance of obligations under this Proposal or resultant Agreement or purchase order(s), whether arising in contract, tort, warranty, strict liability or otherwise, total liability of Reliable Source and Solutions India Lp shall not exceed beyond 5% of the total contract value received from customer.

Notwithstanding anything contained anywhere else in this Proposal, or in the resultant Agreement, or anywhere else, in present or in future, in no event shall Reliable Source and Solutions India Lp be liable, whether in contract, tort or otherwise, to the Customer for special, indirect or consequential loss or damage (such as, not exclusively, loss of production, loss of reputation, loss of income, loss of profit, etc.).

- 21) **Indemnification:** Customer shall fully Indemnify and hold harmless Reliable Source and Solutions India Lp and its affiliates, associates, directors and employees from and against any and all losses, costs, damages, injuries, liabilities, claims and causes of action, including without limitation arising out of or resulting from claims by third parties, acts, omissions or breach of any of the Customer's affiliates, suppliers, employees, agents or contractors in the performance of Customer's obligations under this Proposal or any resultant Agreement or otherwise arising out of the solar power system or its usage.

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- 22) **Validity of Offer** – Our offer is valid for a period of 10 days from the date of the offer and thereafter subject to our confirmation in writing.
- 23) **Publicity Rights:** The Customer agrees and gives its irrevocable and unconditional consent to Reliable Source and Solutions India Lp to issue any press release or announcement relating to this Proposal, or any resultant Agreement, or use the data, photographs, designs, etc. of the solar power plant for its publicity and/or marketing activities or use the same for publication anywhere. Reliable Source and Solutions India Lp understands and agrees that no such usage shall be in a manner defamatory to the Customer.
- 24) **Arbitration:** Any dispute, including claims seeking redress or asserting rights under applicable law, shall, be resolved and finally settled in accordance with the provisions of the Arbitration and Conciliation Act, 1996, as may be amended from time to time or its re-enactment. The arbitral tribunal shall be composed of two arbitrators to be appointed by each of the parties and the third arbitrator shall be appointed by the arbitrators appointed by the parties and for such arbitration, the seat of arbitration shall be in New Delhi, India. All proceedings of arbitration shall be held in English.
- 25) **Governing Law and Jurisdiction:** All questions concerning the construction, validity and interpretation of this Proposal or any resultant Agreement will be governed by the laws of India, and the courts at Faridabad, Haryana shall have exclusive jurisdiction with respect to any dispute that occurs hereof.
- 26) No remedy described in this Proposal or any resultant Agreement shall in any way limit the parties' remedies available at law, in equity or otherwise in relation to any breach or threatened breach of the terms and conditions of the Proposal by any defaulting party, and any party may seek a restrictive injunction from an appropriate court of law to safeguard its interests.

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I. Consultancy Reference- Project

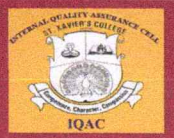
S.No	End Client	Site Address of Project Installed	Inverter Brand	Number of Inverter	Number of DG	Grid Export Yes / No
01	Organic India Private Limited.	C-50/10 Agro Park Phase-2 UPSIDC Kursi Road Lucknow	Delta	3 No's (50kW x 2 & 20kW x 1)	3No's (500KVA, 250KVA & 100KVA)	No
02	Chandigarh International Airport	New Civil Air Terminal Mohali District, Sahibzada Ajit Singh Nagar, Punjab	Schneider (Central)	04 No's (680kW x 4)	None	Yes
03	International Centre for Automotive Technology	((ICAT), Plot No 1 Sector M-11 HSIDC IMT Manesar Gurugram -122050	Solis	12 No's (60kW x 9 & 10kW x 3)	4 No's (750KVA x 2 & 1250KVA x 2)	No
04	Century Plyboards India Limited.	Bhikhowal Dasuya Road, Hoharpur MDF Vill Daulowal - 144208	Delta	08 No's (50kW x 8)	None	Yes
05	Club Mahindra, Hatgad	Nashik Road, Hatgad, Nashik, Maharashtra 422004	Delta	3 No's (30kW, 50kW & 88kW)	4 No's (60KVA, 62.5KVA, 125KVA & 250 KVA)	No
06	PSIT Collage Kanpur	1579 M.D. Public School Kashyap Nagar Kalyanpur Kanpur Nagar U. P	ABB	5 No's (100kW x 5)	1 No (750KVA)	No
07	Hero Cycle Limited	Amhara Bihta, Plot No. B-2 MIP near NSIT Col., Patna-801103	Huawei	8 No's (36kW x 8)	2 No's (750KVA & 500KVA)	No
08	Ceramax Granito Private Limited.	37 K.M. Stone, NH-11, Village Goyalri, Tehsil Kolayat Dist Bikaner	ABB	10 No's (100kW x 10)	2 No's (1250KVA x 2)	Yes
09	International Centre of Automotive Technology	Plot No.26, Sector-3 IMT Manesar Gurugram 122050	Solis	11 No's (60kW x 10 & 10kW x 1)	2 No's (1250KVA x 2)	No
10	Bharat Petroleum Corporation Limited.	Chennai LPG Plant No J1-J6, Sipcot Ind Complex Gummidipundi, Chennai	ABB	5 No's (50kW x 5)	1 No (600KVA)	Yes

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S.No	End Client	Site Address of Project Installed	Inverter Brand	Number of Inverter	Number of DG	Grid Export Yes / No
11	Bharat Petroleum Corporation Limited.	Karur Installation – Athur & Kadaparai Village Karur Karur Dist. India – 639002	ABB	07 No's(50kW x 7)	2 No's (750KVA & 500KVA)	Yes
12	Rapid Action Force	Coimbatore, Kovai Mahalingapuram, Podanur, Tamil Nadu 641023	Delta	03 No's(50kW x 3)	3 No's(40KVA, 40KVA & 62.5KVA)	Yes
13	Unani Bhawan	E Kal Mandapam Road, Pudumanaikuppam Royapuram, Chennai – 600013, Tamil Nadu	Delta	02 No's (50kW x 2)	1 No (125KVA)	Yes
14	Rajaji Bhawan	CGO Complex, GPOA, Rajaji Bhawan, Besant Nagar, Chennai-600090, Tamil Nadu	Delta	05 No's (50kW x 5)	1 No (500KVA)	Yes
15	Shastri Bhawan	Shastri Bhawan, 26, Haddows Road, Nungabakkam, Chennai-600006, Tamil Nadu	Delta	01 No (50kW x 1)	02 No's (380KVA & 125KVA)	Yes
16	Custom House	Principal Commissioner of Customs, Cauvery & Krishna Building, Salai, Chennai – 600001, Tamil Nadu	Delta	02 No's (30kW x 2)	03 No's (625KVA, 250KVA & 200KVA)	Yes
17	Rajiv Gandhi National Institute of Youth Development	Sriperumbudur, Tamil Nadu – 602105	Delta	5 No's (50kW x 2 & 30kW x 3)	04 No's (82KVA, 32KVA, 100KVA & 320KVA)	Yes
18	The Indian Institute of Food Processing Technology	Ministry of Food Processing, Pudukkottai Road, Thanjavur, Tamil Nadu – 613005	Delta	6 No's (30kW x 6)	03 No's (125KVA, 250KVA & 500KVA)	Yes
19	Shree Ram Collage	Opposite Almaspur telephone exchange circular road, Muzzafarnagar 251002	Kaco	4 No's (50kW x 3 & 20kW x 1)	2 No's (82KVA & 160KVA)	No
20	Solar 91 Cleantech P Ltd	C-5, Babu Nagar, Jaipur Rajasthan 302015	SMA	05 No's (60kW x 5)	01 No (500KVA)	No

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St. Xavier's College Jaipur

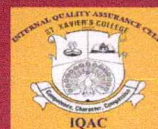
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S.No	End Client	Site Address of Project Installed	Inverter Brand	Number of Inverter	Number of DG	Grid Export Yes / No
21	Art Asia Pvt Ltd	Mezzanine Floor, Fortune Heights, C-Scheme, Jaipur-302001,	SMA	2 No's(50kW x 2)	01 No (125KVA)	No
22	Honda Motorcycle & Scooters India Pvt. Ltd.	Plot No. 109 -142 Malur Taluk 563130,Kolar	Delta	7MW(88kW x 79)	10 No's(2MVA x 10)	Yes
23	Patanjali Rishikul School	Maharshi Patanjali Vidya Mandir Gangagurukulam Gaddopur Phaphaamuh Allahabad 211013	SMA	5 No's (50kW x 5)	4 No's (125KVA, 250KVA & 320KVA)	No
24	Allahabad University	Senate House, University Road, Old Katra, Prayagraj, Uttar Pradesh 211002	Delta	79 No's(69kW x 79)	2No's(200KVA & 250KVA)	Yes
25	Sudiva Spinners Pvt Ltd	Ajmer Road, Dhuwaliya, Rajasthan 311001	Delta	70 No's(88kW x 56 &)	None	Yes (33KV)
26	Nitashi Solutions Pvt Ltd	Vidhart Khadi Bhandar, Subhash Market, Meerut, Uttar Pradesh 250001	Delta	1Nos (30Kw)	2No's (82.5Kva & 25Kva)	Yes

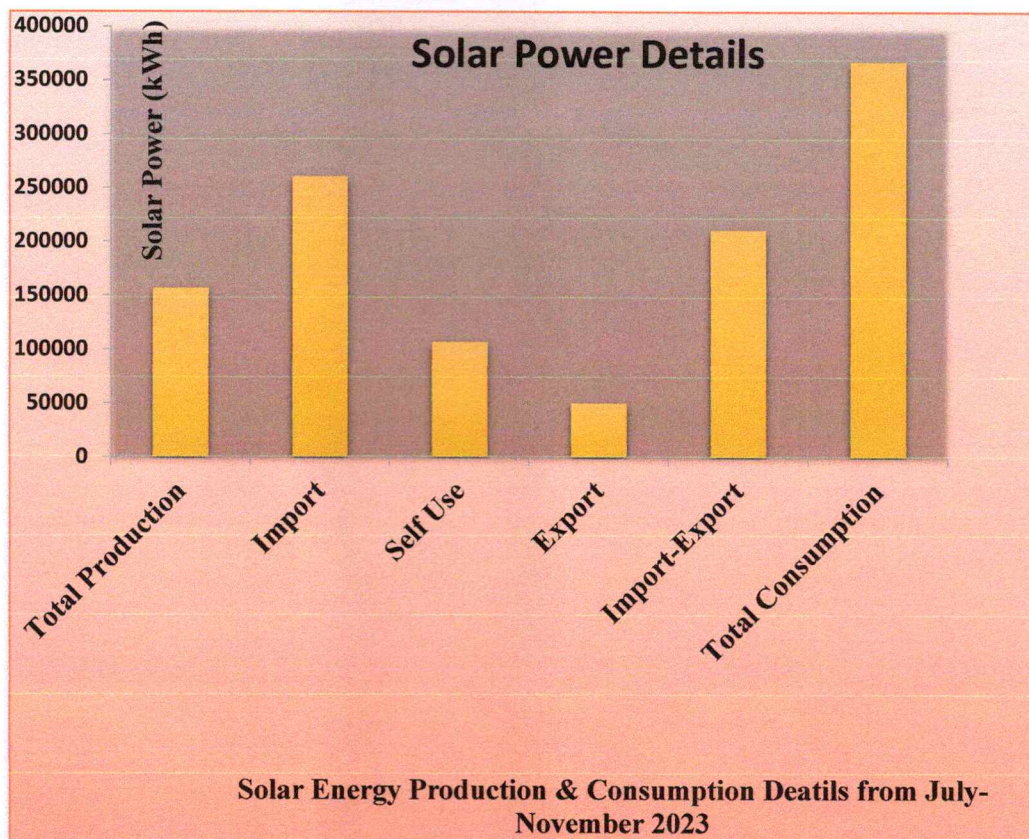
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Principal
St. Xavier's College, Jaipur
Nevta-Mahapura Road, Jaipur



SOLAR POWER PRODUCTION & CONSUMPTION DETAILS

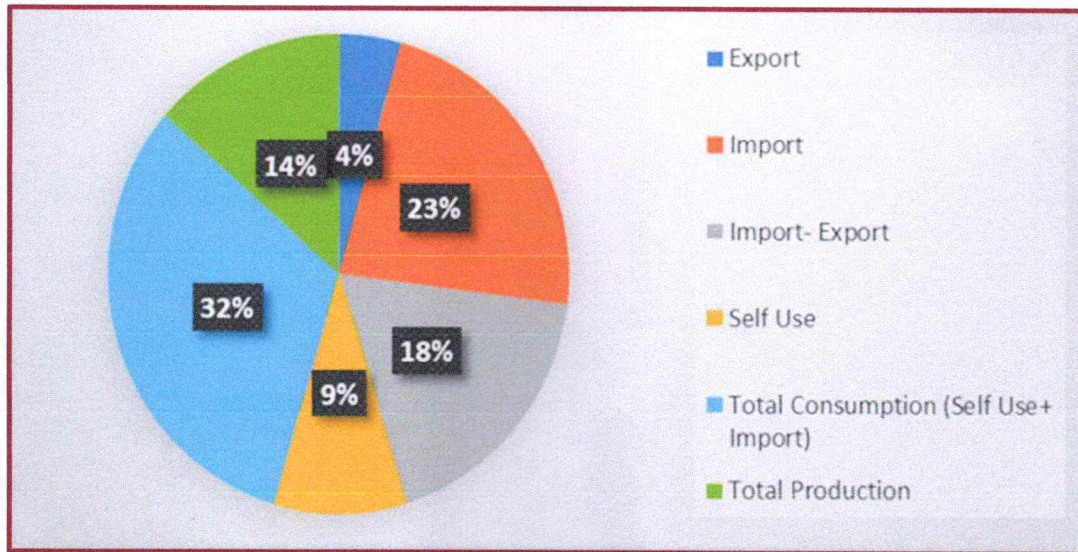
S.no	July	August	September	October	November	Total
Total Production	72992	15712	5968	25056	37136	156864
Self Use	43417	10722	5967	25055.5	21642.5	106804
Export	29575	4990	1	0.5	15493.5	50060
Import	41745	59467	74765	56847	27766	260590
Import- Export	12170	54477	74764	56846.5	12272.5	210530
Total Consumption/ Power Requirement (Self Use+ Import)	85162	70189	80732	81902.5	49408.5	367394



CRITERION7/GRAPHICAL REPRESENTATION OF SOLAR PRODUCTION & CONSUMPTION



Total Solar Energy details from July to November 2023



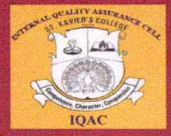
CRITERION7/GRAPHICAL REPRESENTATION OF SOLAR PRODUCTION & CONSUMPTION

Principal

St. Xavier's College, Jaipur
Nevta-Mahapura Road, Jaipur

+91 9828726366

info@sxcjpr.edu.in

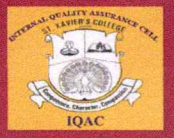


7.1.2

ENERGY CONSERVATION


BY USE OF

LED BULBS AND LED MONITORS




POWER CONSERVATION LED LIGHTING

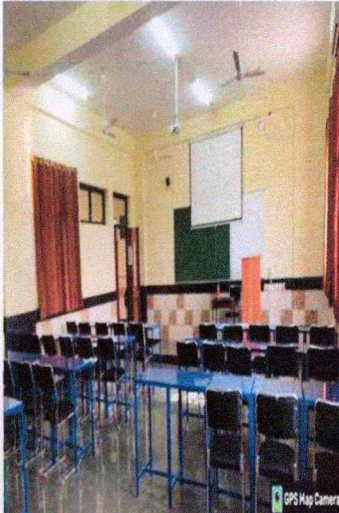
Use of LED bulbs/Power Conservation Equipment: The college, boasts a modern infrastructure adorned with energy-conservation LED lighting fixtures across the premises.

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(A Christian Minority Jesuit Institution)


USE OF LED BULBS



Bhankota, Rajasthan, India
RM4G+29, Bhankota, Neeta, Rajasthan 302029, India
Lat: 26.816237°
Long: 75.678866°
20/01/24 04:28 PM GMT +05:30



Bhankota, Rajasthan, India
RM4G+29, Bhankota, Neeta, Rajasthan 302029, India
Lat: 26.816237°
Long: 75.678866°
20/01/24 03:31 PM GMT +05:30



Bhankota, Rajasthan, India
RM4G+29, Bhankota, Neeta, Rajasthan 302029, India
Lat: 26.816237°
Long: 75.678866°
20/01/24 03:50 PM GMT +05:30

Principal
St. Xavier's College, Jaipur
Neeta-Mahapura Road, Jaipur



St. Xavier's College Jaipur

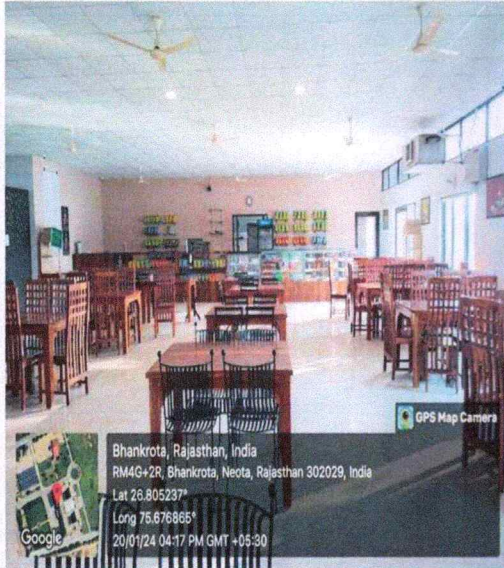
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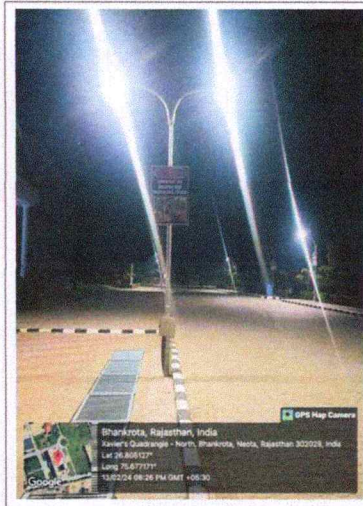
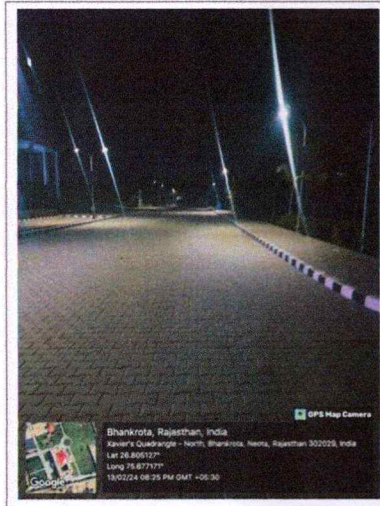
USE OF LED BULBS



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LED STREET LIGHTS



LED STREET LIGHTS

NUMBER OF LED BULBS

Name of Item	Quantity
Corridor round LED Lights (18 W)	235
Square Lights (40 W)	57
Tube lights (20 W)	866
Total	1158

USE OF ENERGY CONSERVATION APPLIANCES



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ENERGY SAVING APPLIANCES



Bhankrota, Rajasthan, India
RMA40-2R Xavier's Quadrangle - North, Bhankrota, Neeta, Rajasthan 302028, India
Lat 26.8165157°
Long 75.6776905°
15/02/24 08:54 AM GMT +05:30



Bhankrota, Rajasthan, India
RMA40-2R Xavier's Quadrangle - South, Bhankrota, Neeta, Rajasthan 302028, India
Lat 26.804957°
Long 75.677690°
15/02/24 08:57 AM GMT +05:30



Bhankrota, Rajasthan, India
RMA40-2R Xavier's Quadrangle - South, Bhankrota, Neeta, Rajasthan 302028, India
Lat 26.8053°
Long 75.677701°
15/02/24 08:51 AM GMT +05:30

LED CONSERVATION MONITORS

One factor in the energy conservation was the **installation of LED computer monitors** in the libraries, computer labs and offices.



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USE OF POWER EFFICIENT EQUIPMENTS LED – TFT MONITORS



Bhankrota, Rajasthan, India
RM4G+2R, Bhankrota, Neota, Rajasthan 302029, India
Lat 26.805237°
Long 75.676865°
20/01/24 03:25 PM GMT +05:30



Bhankrota, Rajasthan, India
RM4G+2R, Bhankrota, Neota, Rajasthan 302029, India
Lat 26.805237°
Long 75.676865°
20/01/24 02:58 PM GMT +05:30

LED MONITORS


Principal



LIST OF LED MONITORS

PLACE	ITEM	QUANTITY
Computer Lab 1	LED Monitors	49
Computer Lab 2	LED Monitors	55
Computer Lab 3	LED Monitors	54
Computer Lab 4	LED Monitors	40
Office	LED Monitors	37
Studio	LED Monitors	4
Library	LED Monitors	26
Total		228

Principal

St. Xavier's College, Jaipur
Nevta-Mahapura Road, Jaipur

info@sxcjpr.edu.in



7.1.2

ENERGY CONSERVATION BY USE OF SENSOR BASED EQUIPMENTS




SENSOR BASED SYSTEMS

The implementation of sensor-based systems for water tanks and lighting has led to significant reductions in water consumption and electricity, respectively.

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WATER TANK SENSOR



Latitude: 26.834208
Longitude: 75.759492
Elevation: 422.07±2.0 m
Accuracy: 944.7 m
Time: 05-01-2024 15:40
Note: water sensor
Powered by Aardium

MOTION SENSOR LIGHT

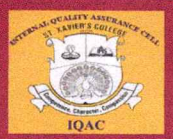


OPS Map Camera
Bhankrota, Rajasthan, India
Xavier's Quadrangle - North, Bhankrota, Neota, Rajasthan 302029, India
Lat 26.805127°
Long 75.877171°
12/02/24 08:35 AM GMT +05:30
Google



7.1.2

ARCHITECTURAL DESIGN NATURALLY LIT SPACES



ARCHITECTURAL DESIGN - NATURALLY LIT SPACES

- The **architectural design** of the building prioritizes ample natural lighting and cross ventilation to minimize the need for artificial lighting and cooling.



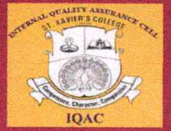
NATURAL LIGHT WITHIN THE CAMPUS

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NATUTALLY LIT SPACES

Principal