



Anandi Shikshan Prasarak Mandal Sanchalit
ANANDI B. PHARMACY COLLEGE,
Kalambe Tarf Kale, Tal: Karveer, Dist: Kolhapur-416205 (M. S.) India
Approved by PCI New Delhi, Recognized by DTE, Mumbai, Govt. of Maharashtra,
Affiliated to Shivaji University, Kolhapur
Email: anandipharmacycollege02@gmail.com



Criterion 07




Institutional Values and Best Practices

Key indicator 7.1 Institutional values and social responsibilities

7.1.2 The Institution has facilities and initiatives for

1. Alternate sources of energy and energy conservation measures
2. Management of the various types of degradable and nondegradable waste
3. Water conservation
4. Green campus initiatives
5. Disabled-friendly, barrier free environment

Data Verified by:

 IQAC Coordinator	
 Principal	



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Criterion 07

Institutional Values and Best Practices

Key indicator 7.1

Institutional values and social responsibilities

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7.1.2

**Bills for the purchase of equipment's
for the facilities created under this
metric**



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7.1 Institutional Values and Social Responsibilities



INDEX

Sr. No.	Details	Page No.
1	Quotation for Solar	1-7
2	Bill of Wheelchair	8
3	Bill of Dustbin	9



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Vardhan Engineering



Project Name	MR SATISH DESAI SIR
Project Address	KALE KALAMBE, KOLHAPUR
Project Capacity	6 Kwp
Proposal Submitted By	Vardhan Engineering
Office Address	931, E-Ward, Shahupuri 5th Lane, Kolhapur
Contact Numbers	Shridhar Patil : 9975316408
Date	19-06-2024

Vardhan Engineering
Office: 931 E-Ward, Shahupuri 5th lane, kolhapur- 416001
Contact Details. Shridhar Patil : 99 75 31 6408, Shrikant Patil : 98 50 61 6408 Email :
vardhanenergy@outlook.com





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To,
MR SATISH DESAI SIR.

SUBJECT: Proposal for a turnkey installation of 6 KWp System of Grid Tied Rooftop Solar Photovoltaic System.

Dear Sir,

We are pleased to submit this proposal for a turnkey installation of a grid-tied photovoltaic system to harness solar energy. Cognizant of the electricity requirements, we propose a state of the art, highly efficient and reliable grid-tied solar solution for your building.

Vardhan Engineering, is an end-to-end solution provider of solar based products. Vardhan Solar Energy focuses on providing turnkey solar energy solutions from concept to commissioning of solar power projects and further operating and maintaining them throughout the life time of the project. We design and install solar power systems for businesses to help reduce their energy bills, sustain the quality of their environment and shape the future of energy production and conservation.

Generating energy from renewable resources is the passion that drives Vardhan Solar Energy. It is with this passion that we aim to work and provide solar solutions for our customers. The multidisciplinary team maintains a stringent control on the quality of project execution.

Highly skilled technical workforce, optimum use of technology to reduce downtime, providing high-end long term Operation and Maintenance services are few of the key strengths of Vardhan Engineering.

Yours Faithfully,

Mr. Shridhar Patil
Vardhan Engineering

Vardhan Engineering
Office: 931 E-Ward, Shahupuri 5th lane, kolhapur- 416001
Contact Details. Shridhar Patil : 99 75 31 6408, Shrikant Patil : 98 50 61 6408 Email:vardhanenergy@outlook.com





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Scope of the Work:

Scope of Work includes the Engineering, Procurement and Construction of the works (EPC works), involved in the proposed Solar Photovoltaic Power Plant.

This consists of the design, engineering, manufacturing, procurement, supply of materials to site, project management, unloading of materials at site, storage at site, handling of material at site, installation of all mechanical equipment, cabling & appurtenances, instrumentation and electrical system and other equipment within the scope of ARPL, as detailed in this section.

The scope includes the pre-commissioning and commissioning work for the equipment up to the Net-Meter. This proposal from ARPL is for installation of solar system with utilities as detailed in this document.

Scope of the Proposal

- 1 Solar Module (Monocrystalline-1ec Certifide)
- 2 Inverter (with remote monitoring), Distribution Board, Juxtion Boxes, Cables
- 3 Earthing for Solar Modules and Inverters
- 4 System Installtion and MSEDCL Comissioning
- 5 Supply of Net Meter MSEDCL Liasoning with Permission
- 6 Project Management

Bill of Material

Technical Specification for Project	
Capacity	5 Kwp
Solar PV Panels	As Per Option Selected
Inverter	As Per Option Selected
Support Structer for System	Allu/GP
Cables	DC Solar Cables AC Solar Cables
Area Required	600 Sq. Ft
Protection	DCDB Meter ACDB Meter Earthing
Weights	LA- As per IEC Standard
Warranty	
Product	25 Years for Solar PV Modules
Inverter	7 Years for Inverter

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System Components			
Components	Description	Qty	
		WP	Nos
Solar PV Modules	Mon crystalline modules manufactured as per IEC standards. The capacity of the module will be selected depending upon the available of the material without affecting the system size and performance.	575	10
Power Conditioning Unit Grid Feed Inverter	Converts direct current (DC) into alternating current (AC) suitable for injecting into an electrical power grid, normally 120V RMS at 60 Hz or 240V RMS at 50 Hz. They are used between solar panels and the grid. In order to inject electrical power efficiently and safely into the grid. Grid tie inverter helps in accurately match the voltage and phase of the grid sine wave AC waveform. It is also designed to quickly disconnect from the grid of the utility grid goes down. This is requirement of NEC requirement so that no line worker is harmed.	6	1 Nos
Support structure	Provide support to solar PV Module	As Required	
Cabling, Power Accessories and Controller	Conforming to electrical standards and sizes as per requirement of the system	As Required	
Grounding for PV modules	Treated Earthing Pits 50mm dia* 3mtr. Cu bonded Earth Rods with back fill compounds as per the requirement of safety standards. (GI Strip 25 X 3 mm/ Allu. conductor for plant earthing.)	1 Set	
Lightning and Surge	Lightning conductors as per requirement of safety standards	1 Set	
Electrical accessories	Interconnections, array to junction boxes, junction boxes to DCDB, DCDB to PCU etc. will be selected to keep voltage drop and losses to minimum.	1 Set	
Energy Meter	The inverter shall have a built in meter that tracks energy production and displays it on the small LED screen. The display can be used to determine real time production, daily production and yearly production.	1 Nos	

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Commercial Proposal				
Sr. No.	Particulars	Make		
1	Solar Panels	WAAREE/RENEWSYS		
2	Inverter	GROWATT		
Project/System Costing				
Sr. No.	Particulars	Per KWp Rate	System Requirement	Amount
1	Materials required for this system On - Grid Roof Top Solar Power Project. •Solar PV Modules •Balance of Plant including: 1. Structures for mounting modules 2. Inverter (Remote Monitoring) 3. Cable and ACDB 4. Earthing, LA, etc. •Installation and Commissioning •Net Metering	₹ 52,500.00	6	₹ 3,15,000.00
Sub Total				₹ 3,15,000.00
GST 13.80%				₹ 43,470.00
Total Project Costing Including GST				₹ 3,58,470.00

Payback Calculation by System Generation		
Description	Project Capacity	
Total Project Cost	₹	3,58,470.00
Unit generation Per Year		8640
Current MSEDCL Unit Rate	₹	9.50
Saving Per Year	₹	82,080.00
Payback Period (Years)		4.4 Years

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Estimated AC Unit's Generation Table For 25 Years and Saving Calculation

Years	Estimated Unit's Generation From this	Per Unit Rate	Saving Per Year	Total Saving
		Assume 10% Increasing Per Year		
1	8640	9.5	₹ 82,080.00	₹ 82,080.00
2	8639.28	9.6	₹ 82,937.09	₹ 1,65,017.09
3	8567.28	9.7	₹ 83,102.62	₹ 2,48,119.70
4	8495.28	9.8	₹ 83,253.74	₹ 3,31,373.45
5	8423.28	9.9	₹ 83,390.47	₹ 4,14,763.92
6	8351.28	10	₹ 83,512.80	₹ 4,98,276.72
7	8279.28	10.1	₹ 83,620.73	₹ 5,81,897.45
8	8207.28	10.2	₹ 83,714.26	₹ 6,65,611.70
9	8135.28	10.3	₹ 83,793.38	₹ 7,49,405.09
10	8063.28	10.4	₹ 83,858.11	₹ 8,33,263.20
11	7991.28	10.5	₹ 83,908.44	₹ 9,17,171.64
12	7919.28	10.6	₹ 83,944.37	₹ 10,01,116.01
13	7847.28	10.7	₹ 83,965.90	₹ 10,85,081.90
14	7775.28	10.8	₹ 83,973.02	₹ 11,69,054.93
15	7703.28	10.9	₹ 83,965.75	₹ 12,53,020.68
16	7631.28	11	₹ 83,944.08	₹ 13,36,964.76
17	7559.28	11.1	₹ 83,908.01	₹ 14,20,872.77
18	7487.28	11.2	₹ 83,857.54	₹ 15,04,730.30
19	7415.28	11.3	₹ 83,792.66	₹ 15,88,522.97
20	7343.28	11.4	₹ 83,713.39	₹ 16,72,236.36
21	7271.28	11.5	₹ 83,619.72	₹ 17,55,856.08
22	7199.28	11.6	₹ 83,511.65	₹ 18,39,367.73
23	7127.28	11.7	₹ 83,389.18	₹ 19,22,756.90
24	7055.28	11.8	₹ 83,252.30	₹ 20,06,009.21
25	6983.28	11.9	₹ 83,101.03	₹ 20,89,110.24

Total Saving in 25 Years

Sr. No.	Years	Total Units Generation in 25 Years	Total Saving in 25 Years
1	25 Years	196110.72	₹ 20,89,110.24

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Terms and Conditions

Delivery Time:

Delivery Will Be Made Within 6-8 Weeks After the Receipt of Your Technically & Commercially Confirmed Order Along with Advance Payment.

Validity:

Our Quotation Is Valid for 30 Days from The Date of Quotation.

Warrantee:

- A) For PV Panels – 25 Years of Linear Power Performance Warranty, 10 Years for 90%, 25 Years for 80%
- B) B) For Inverter - 7 Years of Manufacturing Warranty.

Payment:

- 30 % Advance Along with Purchase Order,
- 60 % Against Pro-Forma Invoice Before Delivery And
- 10% At Installation.

Rates:

The Rates Given Above Are All Inclusive Price.

Taxes:

Price Is Exclusive of Any Applicable Taxes. We Hope the Above Enclosed Documents Are in Line as Per Your Requirement

We hope the above enclosed documents are in line as per your requirement

For, Vardhan Engineering

Sign and Stamp,

Vardhan Engineering

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CASH / CREDIT MEMO

From : गुरुनृपा स्टोअर्स

No. : क्रमांक
Date : 03/02/2023
दिनांक

M/s. आनंदी फार्मसी कॉलेज कळंबे

QTY. संख्या	PARTICULAR विवरण	RATE दर	AMOUNT रक्कम ₹
1	डस्ट बीन	92x920	9880
2	झाडू	08x900	800
3	फिनेल	02x900	200
			TOTAL टोटल 2080

Thank You Sundaram

