


SUNSHUBH TECHNOVATIONS PVT LTD

#402, Hill view apartment, Adarshnagar 2nd Cr, HUBLI-580 029. Karnataka, INDIA
Germany off: NeuerWeg 166, 47803 Krefeld, Dusseldorf.

WATER	ENERGY	POLLUTION	ORGANIC	
Harvesting	Efficiency	Minimize	Farming	
Conservation	Conservation	Eliminate	Worm compost	
Management	Generation	Manage	Benefits	

Regd: Certified Energy Auditors. GOI (EA 3485), Germany: Anbieter-Nr 1041388
www.sunshubhrenewables.com, Email: ceo@sunshubhrenewables.com, Ph: 94492 83505, 94490 33505
CIN : U74999KA2020PTC136321, PAN:ABECS0250Q, TAN:BLRS77362F GST No: 29ABECS0250Q1ZX

SPECIFIC ENERGY COMPUTATION CERTIFICATE

I, Mallikarjun A Kambalyal, certify that, the Energy Use data of KLE ACADEMY OF HIGHER EDUCATION AND RESEARCH, Belagavi has been verified and the specific energy has been confirmed.

The inference is drawn based on the information and energy bills made available for evaluation for the operating period upto June 2024.

Computation of Energy consumption per Unit floor area.

	Academic Year 2023	Academic Year 2024
Total Energy consumed from all Sources	16,44,464	143,62,000
Floor area as of June	1,99,322	2,15,580
Energy in KWh/Sq Mtrs	74.02	72.45
Reduction in Specific Energy demand per SqMtr over the previous year	1.57 KWh/M ²	

Reduction in Specific Energy consumption : 1.57 KWh/SqMt.

This Certificate is issued based on the documents made available by the institute.

Authorised Auditor.



Mallikarjun A. Kambalyal B.E (E&C)

Certified Energy Auditors EA-3485.

ISO 50001:2011 & ISO14001:2015 Lead Auditor
Mallikarjun A. Kambalyal
Certified Energy Auditor-EA 3485
ISO 50001:2011, ISO 14001:2015
LEAD AUDITOR



Date: 9.11.2024

SOLAR WATER HEATING PANELS

SL NO	PLACE	SOLAR WATER PANELS	ENERGY SAVED IN KWH
1	CHANAKYA HOSTEL	94	9400
2	CHARAKA HOSTEL	40	6000
3	SANGAM HOSTEL	40	6000
4	NRI HOSTEL	42	6300
5	RC HOSTEL	84	12600
6	GANGAMBIKA HOSTEL	32	4800
8	CAN HOPSTEL	32	4800
9	KARNATAKA HOSTEL	24	3600
10	NILAMBIKA HOSTEL	64	9600
11	AKKAMAHADEVI HOSTEL	64	9600
12	NURSING HOSTEL	72	10800
14	CHARITABLE HOSPITAL	179	26850
15	STAFF QUATERS	210	31500
	TOTAL	977	141850

SOLAR ENGERY IN THE CAMPUS

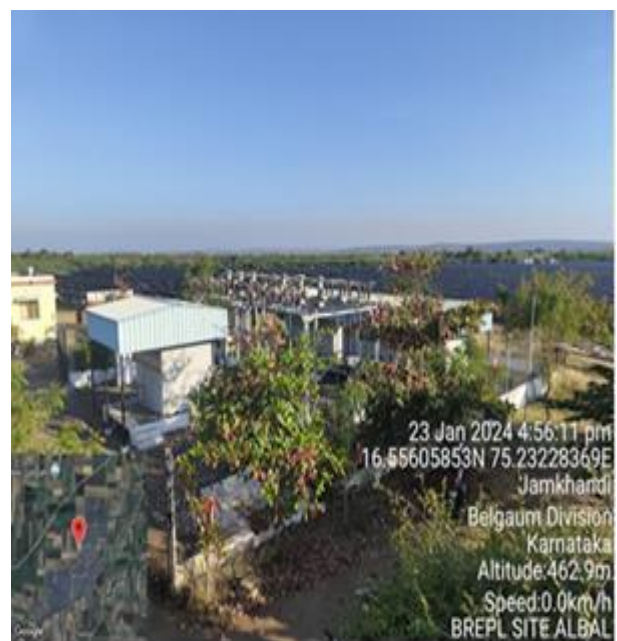
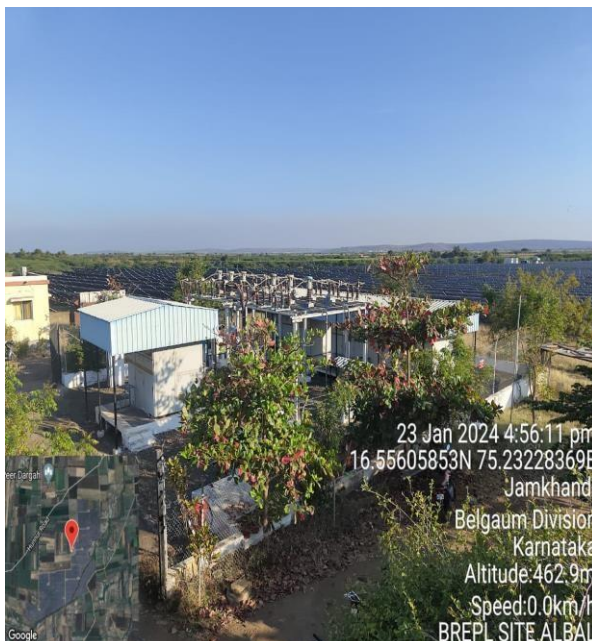


BIOGAS PLANT



1.

WHEELING TO THE GRID



SENSOR-BASED ENERGY CONSERVATION





JNMC Solar Power Plant - Annual Energy Production Report

Location: Belgaum, India

Period Covered: September 2023 to August 2024

System Capacity: 640 kWp

Overview

This report provides a snapshot of the energy generated by the JNMC Solar Power Plant over one year 2023-24.

Key Highlights

Total Recorded Generation: 802252 kWh

- **Expected Generation:** 1,216,482 kWh (from PVsyst model)
 - **System Performance Ratio (PR):** 75.54%
 - The Performance Ratio (PR) reflects the system's efficiency in real-world conditions. The PR of 75.54% indicates that the plant's actual performance captures about three-quarters of its potential efficiency, influenced by factors like seasonal weather, system maintenance, and environmental conditions.
-

Monthly Generation - Actual vs Expected (kWh)

Month	Actual Generation
July 2023	43299 kWh
August	62998 kWh
September 2023	56,208 kWh
October 2023	72,498 kWh
November 2023	60,863 kWh
December 2023	62,587 kWh

January 2024	66,114 kWh
February 2024	64,346 kWh
March 2024	76,410 kWh
April 2024	73,668 kWh
May 2024	75,833 kWh
June 2024	50,558 kWh
July 2024	36,870 kWh
Total	802252 kWh

Sunlight and Performance

- Average Effective Sunlight:** 5.9 hours/day
 The effective sunlight hours refer to the average daily hours with optimal sunlight levels, based on local weather and irradiation data for Belgaum.

Observations and Insights

- Production Levels:**
 The actual generation over the year was lower than expected by about 38%. This may be due to weather variability, shading, maintenance downtimes, or unexpected system losses.
 - Monthly Performance:**
 - Highest Generation Month:** May 2024 (75,833 kWh recorded).
 - Lowest Generation Month:** July 2024 (36,870 kWh recorded), likely impacted by monsoon cloud cover.
 - System Efficiency:**
 The Performance Ratio (PR) of 75.54% reflects typical system losses. Seasonal maintenance, fine-tuning of the PV modules, and consistent monitoring can help improve PR over time.
-

Summary

This report highlights the real-world performance of the JNMC Solar Power Plant. The recorded generation data offers insights into the seasonal trends in energy production and helps identify months where efficiency can be optimized.

Date: 08-11-2024

Place: Hyderabad

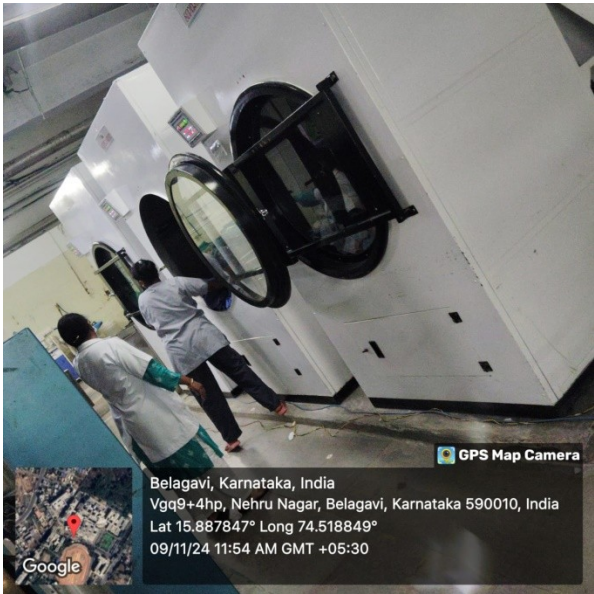
Report Prepared by:

Mustfiez Desai (Site Engineer)

Signed By:

Rahul Kodali (Head of Operations)







KLE ACADEMY OF HIGHER EDUCATION AND RESEARCH

(Formerly known as KLE University)

[Declared as Deemed-to-be-University u/s 3 of the UGC Act, 1956 vide Government of India Notification No F.9-19/2000-U.3(A)]
Accredited 'A' Grade by NAAC Placed in Category 'A' by MHRD (GoI)

Office of the Registrar, KLE University.
JNMC Campus, Nehru Nagar, Belagavi-590 010, Karnataka State, India
☎: 0831-2444444 FAX: 0831-2493777 Web: http://www.kleuniversity.edu.in E-mail: info@kleuniversity.edu.in

Ref No: 209

Dated: 27-5-2024

To,
Shrinidhi Enterprises,
D.No-2-1-7/7, Shop No.2,
Manasa Residency, Chilimbi, Urwa,
Mangalore-575006
Ph-0824-2459152

Sub:- Supply of Blue Star Make Water Cooled Screw
Model:LCW1-290V1047-49 to KLE New Cancer Hospital, Belagavi.

Ref :- 1. Your quotation No. Nil dated:10.01.2023

Sir,
With reference to the above, we are pleased to release purchase order for Supply of Blue star make Water Cooled VFD Screw Chiller to KLE New Cancer Hospital, Belagavi, already approved rate of 5445000/ 2990 =18775.86 per TR for KLES New Cancer Hospital Belagavi.

No	Description	Qty	Rate / TR	Amount
1	Supply of Blue star make AHRI Certified 290TR Capacity Water Cooled VFD Screw Chiller package unit, Model:LCW1-290V1047-49 to KLE NEW CANCER HOSPITAL,BELAGAVI	1 no	Rs.18775.86/-	5445000/-

Terms and conditions:-

- The total quoted price is F.O.R Hospital site inclusive of all taxes, duties, transit insurance, unloading, installation, testing and commissioning.
- Warranty: Warranty period will be three years from the date of commissioning, which includes guarantee against manufacturing defects and comprehensive maintenance including labour and wpare parts.
- Up time Guarantee: You will guarantee the performance of the system for 95% of the operational time, which will be calculated on the basis of Hospital machine operation of the system every day for entire 365 days in the year. Any breakdown shall be attended within 4 hous of intimation.

To
KLE Academy of Higher Education & Research, BELAGAVI
FINANCE SECTION
29 MAY 2024
Inward No.....209.....Sign.....

OFFICE OF THE REGISTRAR
KLE Academy of Higher Education & Research, BELAGAVI
27 MAY 2024
Inward No.....209.....Sign.....



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- 4 Delivery period:- Chiller shall be supplied within 10-12 weeks from the date of receipt of order with advance payment or else penalty in between 0.5% to 2% of order value per wor will be levied.
- 5 Payment 50% advance with order, 40% against proforma invoice before dispatch and balance 10% against performance Bank Guarantee for a period of one year.
- 6 All legal transactions are subject to Belagavi jurisdiction only.

Kindly acknowledge the receipt and expendite the supply.

Thanking you,

Yours faithfully,

[Signature]
EXECUTIVE ENGINEER,
KAHER
(K.L.E.University) Belagavi

Yours faithfully,

[Signature]
REGISTRAR,
KAHER
(K.L.E.University) Belagavi

Copy fwcs to Finance Officer, KAHER Belagavi with request an advance payment Rs.2722500.00 to the firm under information to this office

BILL AMOUNT	CGST	SGST	Net amount
2232450 /-	245025 /-	245025 /-	2722500/-

Sir,
Signature please

