



Janki Devi Bajaj Government Girls College, Kota



Self-Study Report Criterion 7

**7.1.3 Policy document on environment and energy usage
Certificate from the auditing agency**

TO WHOMSOEVER IT MAY CONCERN

CERTIFICATE

This is to certify that, in Janki Devi Bajaj Government Girls College Kota energy efficient measures have been implemented by the installation of solar panel unit and use of LED lights in the campus. The installation of solar panel and use of LED lights has made the campus nearly self-reliant. The efforts of all staff members are commendable in making the campus self-reliant in fulfilling its energy requirement.

Date 3.05.2023

Place: Kota


Signature
H.O.D. (E.A. & Engg.)
Govt. Polytechnic College
KOTA (Raj.)

SANJAY
BHARGAVA

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SANJAY BHARGAVA
Date: 2023.05.04
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JANKI DEVI BAJAJ GOVERNMENT GIRLS COLLEGE, KOTA



Energy Audit Report

- The campus has a 50 KW Solar Power on grid system. The system was established in the year 2016 under RRECL (Rajasthan Renewable Energy Corporation Limited). The system was purchased from Green Ripples Private Ltd.
- The system is working efficiently and continuously from the time of establishment.
- From June 2018 to April 2023 the system has produced 177320 units of electricity as per the record.
- Campus is becoming self-sufficient in energy generation through sustainable methods like renewable energy.
- Saving environment through efficient energy usage as well as saving energy costs for the institution.
- Maintenance of electrical/electronic equipment is done regularly in the campus to optimize the power use.
- For energy saving purpose the incandescent bulbs, CFL lamps and tube lights are being replaced by LED lights.
- Students and staff members are motivated to switch off lights, fans etc as and when they leave the room to save the energy.
- Awareness programmes are conducted for students to save the energy.
- Institute promotes the use of Star rated electric/electronic appliances like air conditioner, refrigerator etc.

Consolidation of Energy Audit Findings

	Bill Month	Units Consumed	Units produced by Solar system
1	Apr-2023	2060.00	3920
2	Mar-2023	2240.00	4140
3	Feb-2023	3320.00	1360
4	Jan-2023	3340.00	1200
5	Dec-2022	2080.00	2560
6	Nov-2022	1960.00	2580
7	Oct-2022	2460.00	2220
8	Sep-2022	3460.00	1400
9	Aug-2022	4380.00	1000
10	Jul-2022	2860.00	1720
11	Jun-2022	2280.00	3140
12	May-2022	2160.00	2280
13	Apr-2022	1700.00	3600
14	Mar-2022	1400.00	3580
15	Feb-2022	2520.00	2940
16	Jan-2022	4220.00	2080
17	Dec-2021	1860.00	2860
18	Nov-2021	1640.00	3620
19	Oct-2021	2800.00	2120
20	Sep-2021	5500.00	4500
21	Aug-2021	2141.00	0
22	Jul-2021	6060.00	14200
23	Jun-2021	2375.00	0
24	May-2021	2272.00	0
25	Apr-2021	2440.00	3560
26	Mar-2021	2080.00	3420
27	Feb-2021	2400.00	3720
28	Jan-2021	2240.00	4340
29	Dec-2020	2220.00	3740
30	Nov-2020	3140.00	3140
31	Oct-2020	2300.00	3720
32	Sep-2020	2460.00	1280
33	Aug-2020	4540.00	60
34	Jul-2020	3500.00	0
35	Jun-2020	3220.00	0
36	May-2020	6360.00	3560
37	Apr-2020	3649.00	0

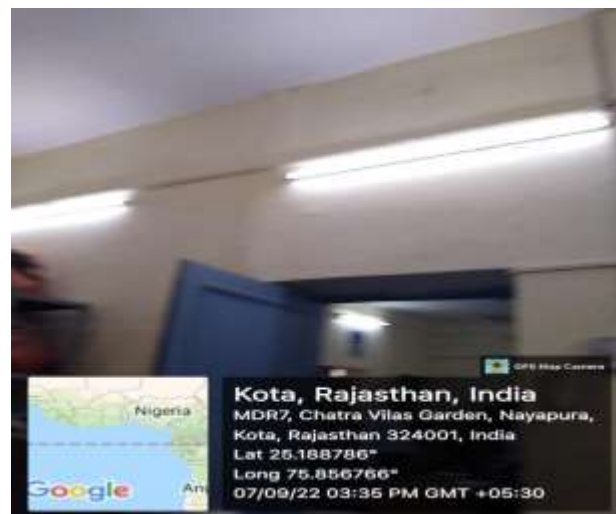
38	Mar-2020	3020.00	2860
39	Feb-2020	4420.00	2620
40	Jan-2020	3300.00	2960
41	Dec-2019	3500.00	2440
42	Nov-2019	3620.00	3040
43	Oct-2019	4120.00	1360
44	Sep-2019	1780.00	1720
45	Aug-2019	2720.00	1500
46	Jul-2019	2980.00	1840
47	Jun-2019	5660.00	3000
48	May-2019	2980.00	2900
49	Apr-2019	1260.00	4820
50	Mar-2019	1160.00	4900
51	Feb-2019	1560.00	3980
52	Jan-2019	2440.00	1120
53	Dec-2018	1940.00	6000
54	Nov-2018	1200.00	3680
55	Oct-2018	1520.00	2820
56	Sep-2018	1800.00	2220
57	Aug-2018	2700.00	1900
58	Jul-2018	2860.00	4360
59	Jun-2018	4700.00	17720
Total		168877.00	177320.00

- The energy audit was conducted in Janki Devi Bajaj Govt Girls College, Kota, Rajasthan. On the basis of the bills received and their analysis it was found that the total energy utilized by the institution from June 2018 to April 2023 was approximately 168877.00 units.
- The main source of power is the electricity purchased from Kota Electricity Distribution Limited (KEDL). The institution has already implemented many measures to decrease the dependence on conventional power.
- The institution has installed 50 KW solar plant connected with on grid system. This solar power system produced 177320 units of electricity from June 2018 to April 2023 which made college self-sufficient in energy generation through sustainable methods like renewable energy.

Solar Power System in the College



LED tube-lights



Star rated appliances



Latest Electricity Bill



PAN: AARC55JRP
GST: 06AARC5510P1Z0

Kota Electricity Distribution Limited

(A Distribution Franchisee of JVVNL)

https://cesenathari.co.in



Email: kedl@rpg.in

Helpline 0141-3532000 7230044001, 7230044002

CIN: U40100WB2012PLC181283

KNO 2107 3300 8312 THE PRINCIPLE GIRLS COLLEGE N - MAIN GATE B-III KOTA Mob : 7442324074 E-mail : jdbnllge@gmail.com	Bill Month APR-2023	Sub-division : AEN(B3,KOTA)
	Due Date 14-04-2023	Bill No. : 2107330002109555
Units 2060	Bill Date : 05-04-2023	Service / Bill Status : Regular / Regular
	Total Payable by Due Date (₹) -4841	Bill Period : 1.0000

Previous Payable (₹)	Payment Made (₹)	Arrears (₹)	Current Bill (₹)	Adjustment Amt (₹)	Total Payable by Due Date (₹)	Current LPS (₹)	Payable after Due Date (₹)
-3497.12		(=) -3497.12	(+) 18614.07	-19958.20	-4841	0.00	-4841

Electricity Bill Details			Amount (₹)
Energy Charge			13922.00
Unit	Rate (₹)	Total (₹)	
30	4.75	237.50	
100	6.50	650.00	
150	7.33	1099.50	
200	7.65	1530.00	
1860	7.45	12402.00	
Fixed / Demand Charges			400.00
Fuel Surcharge*			2387.60
Power Factor Surcharge (+/-)			-95.53

Reader / Account No	8079/0001	Tariff Category	DOMESTIC
Sanctioned Load	65.00 KW	Tariff Code	1000G
Connected Load	65.00 KW	Locality	URBAN
Contract Demand KVA		Meter Phase / Type	3 / KWELKVA/KVA
Avg. Monthly Cons (PFY)	2278	Supply Voltage	400 V
Security Deposit (₹)	100.00	Metering Voltage	400 V
Consumer PAN		Meter Status	OK
Billing Demand		Meter Security (₹)	0.00
Feeder Code	11F1005586	Power Factor	0.962
DT Code		Solar Generation	
Pole Code		Route Sequence	131

Bank details for Payment through RTGS / NEFT
Beneficiary / IFSC Code : KEDL / ICIC0001104
Account Number : KOTA210733008312

Sundry Adjustment Code & Description	Amount (Rs.)
079 Power Pur. from Solar (SSPVs) Generators (3920 units)	-19958.2
Current Bill	18614.07
Sundry Adjustment	-19958.2
Total Adjustment	-19958.20

*FS.FY21-22Q3 @0.12p/u 1/1 Instl=926.40 **FS.FY21-22Q4 @0.19p/u 1/1 Instl=1067.80 **FS.FY21-22Q4 @0.07p/u 3/90 Instl=303.40

Meter No	Unit	Current Reading	Current Reading Date	Previous Reading	Previous Reading Date	Reading Difference	MF	Trans. Loss	Chgt (₹)
XB493346	KWH	10111.00	01-04-2023	10000.00	01-03-2023	103	20.0	0	2060
XB493346	KVAH	10666.00	01-04-2023	10559.00	01-03-2023	107	20.0	0	2140
XB493346	KVA	0.5500	01-04-2023		01-03-2023		20.0	0.0000	11.0000
XB493346	KWH (E)	10267	01-04-2023	10071	01-03-2023	196	20	0	3920
Solar Mtr XB471578	KWH	0	04-04-2023	0	04-03-2023	0	20	0	0

Last 12 months Consumption	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
	1700	2160	2280	2860	4380	3460	2460	1960	2080	3340	3320	2240

Assistant Revenue Officer of sub-division B3 (Mob: 9116155199) is your Customer Account Manager.

Record of Solar energy produced from KEDL

RNO: 210733008312

Name : THE PRINCIPLE GIRLS COLLEGE Sanctioned Load : 65.00 K

RESET					
K. No.	YYYYMM	Meter No	Prev. Export Reading	Curr. Export Reading	Total Export Consumption
210733008312	202304	XB493346	10071	10267	3920
210733008312	202303	XB493346	9864	10071	4140
210733008312	202302	XB493346	9796	9864	1360
210733008312	202301	XB493346	9736	9796	1200
210733008312	202212	XB493346	9608	9736	2560
210733008312	202211	XB493346	9479	9608	2580
210733008312	202210	XB493346	9368	9479	2220
210733008312	202209	XB493346	9298	9368	1400
210733008312	202208	XB493346	9248	9298	1000
210733008312	202207	XB493346	9162	9248	1720
210733008312	202206	XB493346	9005	9162	3140
210733008312	202205	XB493346	8891	9005	2280
210733008312	202204	XB493346	8711	8891	3600
210733008312	202203	XB493346	8532	8711	3580
210733008312	202202	XB493346	8385	8532	2940
210733008312	202201	XB493346	8281	8385	2080
210733008312	202112	XB493346	8138	8281	2860
210733008312	202111	XB493346	7957	8138	3620
210733008312	202110	XB493346	7851	7957	2120
210733008312	202109	XB493346	7626	7851	4500
210733008312	202108	XB493346	7626	7626	0
210733008312	202107	XB493346	6916	7626	14200
210733008312	202106	XB493346	6916	6916	0
210733008312	202105	XB493346	6916	6916	0
210733008312	202104	XB493346	6738	6916	3560
210733008312	202103	XB493346	6567	6738	3420
210733008312	202102	XB493346	6381	6567	3720
210733008312	202101	XB493346	6164	6381	4340
210733008312	202012	XB493346	5977	6164	3740
210733008312	202011	XB493346	5820	5977	3140
210733008312	202010	XB493346	5634	5820	3720
210733008312	202009	XB493346	5570	5634	1280
210733008312	202008	XB493346	5567	5570	60
210733008312	202007	XB493346	5567	5567	0
210733008312	202006	XB493346	5567	5567	0
210733008312	202005	XB493346	5389	5567	3560
210733008312	202004	XB493346	5389	5389	0
210733008312	202003	XB493346	5246	5389	2860
210733008312	202002	XB493346	5115	5246	2620
210733008312	202001	XB493346	4967	5115	2960
210733008312	201912	XB493346	4845	4967	2440
210733008312	201911	XB493346	4693	4845	3040
210733008312	201910	XB493346	4625	4693	1360
210733008312	201909	XB493346	4539	4625	1720
210733008312	201908	XB493346	4464	4539	1500

210733008312	201907	XB493346	4372	4464	1840
210733008312	201906	XB493346	4222	4372	3000
210733008312	201905	XB493346	4077	4222	2900
210733008312	201904	XB493346	3836	4077	4020
210733008312	201903	XB493346	3591	3836	4900
210733008312	201902	XB493346	3392	3591	3980
210733008312	201901	XB493346	3336	3392	1120
210733008312	201812	XB493346	3036	3336	6000
210733008312	201811	XB493346	2852	3036	3680
210733008312	201810	XB493346	2711	2852	2820
210733008312	201809	XB493346	2600	2711	2220
210733008312	201808	XB493346	2505	2600	1900
210733008312	201807	XB493346	2287	2505	4360
210733008312	201806	XB493346	1401	2287	17720

Verified.


 23/04/23.
 Assistant Revenue Officer
 Sub-Divisional Office B-11.
 P.29 C-2000/1/2023

SANJAY
 BHARGAVA

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 SANJAY BHARGAVA
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