



7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation measures.

- a. Solar energy
- b. Biogas plant
- c. Wheeling to the Grid
- d. Sensor-based energy conservation
- e. Use of LED bulbs/ power efficient equipment

HEI Input: Any 3 of the above

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**Geotagged photo for Alternative source of Energy and Energy Conservation**

Indore Institute of Science and Technology uses solar energy with a total capacity of 13 KW. The solar cell is situated at four different places like Staff quarter, boy's hostel, girl's hostel, and Canteen. Total power requirement on monthly basis is 383.93 KW (Refer below table for calculation). As well as for saving energy we used LED lights so that power is going to save and used AC with 5-star rating for energy saving.

**Solar Water heater at Boys Hostel**



**Capacity = 3 KW**

**Solar Water heater at Girls Hostel**



**Capacity = 3 KW**

**Solar Water heater at Staff Quarter**



**Capacity = 2 KW**

**Solar Water heater at Canteen**



**Capacity = 5 KW**



**Geotagged photo for Use of LED bulbs/ power efficient equipment**



Various locations in IIST Campus Building using LED.





Load Calculation and Light Summary of IIST Campus



INDORE INSTITUTE OF SCIENCE AND TECHNOLOGY INDORE  
Approved by AICTE, New Delhi & Affiliated to RGPV, Bhopal

Location	2x2 LED 36 Watt	20 WATT LED TUBELIGHT	36 WATT TUBELIGHT	75 WATT FAN	75 WATT FAN	28 WATT FAN	POWER WATT	EX FAN	CELL D 20 WATT	CELL U 8.5 WATT	AC	LAMP 100 WATT	METAL LIGHT 400 WATT	METAL LIGHT 250 WATT	METAL LIGHT 150 WATT	3 ASCH LIGHT	3000 LIGHT T	FOOT LIGHT	SOLAR PANEL	LED LIGHT 120 Watt	LED LIGHT 200 Watt
A Block	122	55	160	190	43	74	8	14								264	6				
B Block	48	23	93	178	0	76	7	15								258	3	42			
C Block	166	53	109	192	43	67	4	13								68	12				
Caravan			70	63	0	21	5												54w		
Girls Hostel			115	64	0	36													34w		
Boys Hostel			144	100	0	49			97	144		1							36w		
Staff Flat			8	68	0	111	1	1	86										24w		
Guest House			2	9	0	20	4		52												
Other			32	12	0	3	5		54												
Total	376	131	733	836	90	425	34	57	134	144		16	2	5	6	595	38	42		20	8
	43536	2620	26388	62700	2520	0900	2550	1392	5780	1392	85500	1600	600	1750	900	3925	696	6300	0	2400	1600
Total K.Watt	13536	262	26388	6270	252	638	255	1392	578	1392	855	16	0.8	1.25	0.9	8.925	0.696	6.3	0	2.4	1.6
Per Phase																					

234887  
78.299





# INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE

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## Bills for Alternative source of Energy and Energy Conservation

### Bills for Solar System

#### Shail Educational & Welfare Society 2010-11

Pithampur by-Pass Road

Indore

Financial Year 2009-10

#### Journal Register

1-Apr-2010 to 31-Mar-2011

Date	Particulars	Vch Type	Vch No.	Debit Amount	Page 1 Credit Amount
27-11-2010	Hostel Equipments Rawat Industries Bill No. 33 dt. 18-11-10 of Rawat industries towards purchase Solar Water Heater - 1000 LPD (Q) 1 System for Girls Hostel. Vide GRN No. SEWS/10-11/1837 dt. 18-11-10 against ShailP O/09-10/285 dt. 29-09-10 for ac.	Journal	JV-11/136	1,83,000.00	1,83,000.00
27-11-2010	Office Equipments Rawat Industries Bill No. 34 dt. 18-11-10 of Rawat industries towards purchase Solar Water Heater - 1500 LPD (Q) 1 System for Staff Quater. Vide GRN No. SEWS/10-11/1838 dt. 18-11-10 against ShailP O/10-11/295 dt. 05-10-10 for ac.	Journal	JV-11/140	2,74,500.00	2,74,500.00

#### Shail Educational & Welfare Society

Opp. IIM, Pithampur Road, INDORE

#### Solar Power Plant

Ledger Account

*Solair Power Plant*

1-Apr-2021 to 31-Mar-2022

Date	Particulars	Vch Type	Vch No.	Debit	Page 1 Credit
25-2-2022	To Mine Teknology New Ref. JV/02/89 Invoice no.- 81 dt. 20.01.2022 Payble to Mine Teknology towards Purchase Solar Plant (01 Nos.) & Battery (04 nos.) vide GRN no.- 431 dt. 03.02.2022 & PO no.- 266 dt. 29.12.2021 as per details attached	Journal	JV/02/89	3,10,544.00	
				3,10,544.00	
By	Closing Balance				3,10,544.00
				3,10,544.00	3,10,544.00

#### Bill for solar water heater & solar plant





# INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE

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## Bills for LED Lights

### Indore Institute of Science and Technology 22-23

Opp. BM Pithampur Road, INDORE

### Repair & Maint. Electricals

Ledger Account

1-Apr-2022 to 31-Mar-2023

Date	Particulars	Vch Type	Vch No.	Debit	Page 1 Credit
28.3.2023	To: <b>Shail Educational &amp; Welfare Society,</b> Bill no: 8859 dt 16.02.23, Durgam District Engineer, Purchase SSK PAB & SSK SD high (24) 988 dt 02.07.23 PO 494 dt 11.07 23.	Journal	JV/03/185	66,434.00	
				66,434.00	
	By: <b>Closing Balance</b>				66,434.00
				<b>66,434.00</b>	<b>66,434.00</b>

For Indore Institute of Science and Technology

*[Signature]*  
(G.M. Finance)





# INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE

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## DYNATECH ENGINEERS

B-22 New Siyaganj, Pathar Godown Road, Indore (MP) 452007

Tel: 0731-2548828, 4056586

Mob: 9109911124, 9109911126

Email: info@dynatechengineers.com / Web: www.dynatechengineers.com

GSTIN : 23AANPT5954B1ZK

Designee (Ship to)

**HAIL EDUCATIONAL AND WELFARE SOCIETY**

Indore (IIST College)

INDORE (M.P.)

Estb Name

Madhya Pradesh Code 23

Agee (Bill to)

**HAIL EDUCATIONAL AND WELFARE SOCIETY**

Indore (M.P.) (College)

INDORE (M.P.)

Estb Name

Madhya Pradesh Code 23

Invoice No

DE/2022-23/8559

Date: 15/7

Transport

LR/MTR No

Date

Destination

INDORE

Customer PO No

SEWS/PO/22-23/456

Date: 15/7

E-Way Bill No

Contact No

9827614809

S	Description	Make	HSN/SAC	GST%	Qty	Per	Prch	Disc	Rate	Am
1	SOYI-PAD-4400-6K-5K SOYI-Led 2x2 Panel 36W CW	SINRA	54054000	18%	25	NOS	1,140.00		1,140.00	29.50
2	55W-30 280X200-5LM-6500K 55W-LED 3000LM 280X200-5LM	RTSE	84234990	18%	200	NOS	134.00		134.00	26.80

*Handwritten notes:*  
 IIST Electrical Maintenance  
 A. B. G. J. S. J.  
 Addressing  
 APPROVED  
 21/7/23



*Handwritten:* Dishon

SGST 9%	56.10
CGST 9%	5.06
<b>Grand Total</b>	<b>5.06</b>
	<b>66.43</b>

INR Sixty Six Thousand Four Hundred Thirty Four Only

Invoice	IGST	CGST	SGST	Total
66,430.00	5,978.70	5,978.70	5,978.70	84,365.40
<b>Total</b>	<b>66,430.00</b>	<b>5,978.70</b>	<b>5,978.70</b>	<b>78,387.40</b>

INR Ten Thousand One Hundred Thirty Four Only

Bank: PUSKAR NATU 7566169003  
 Account No: 7566935150  
 Branch: 7566145890

- Terms & Conditions**
- In case of unique return 500/- charges will be charged.
  - Interest@10% will be charged after 30 Days.
  - Check your GSTIN on Bill, we won't hold any liability after.
  - Cash Payment without Receipt will not be accepted.
  - S.E.A.O.E.

Your Current Outstanding as of Now : 77,005.90 Dr

For Bank Debit  
 Bank: HDFC BANK LTD  
 A/c No: 50200017051742  
 IFSC Code: HDFC0003855

For IIST/IMP/IMP  
*Handwritten signature*



*Handwritten:* Address 21/7/23



**Shail Educational & Welfare Society 17-18**  
Opp. IIM, Pithampur Road, INDORE

LED

**Journal Register**

1-Apr-2017 to 31-Mar-2018

Date	Particulars	Vch Type	Vch No.	Debit Amount	Page 1
					Credit Amount
31-3-2018	Electrical Fittings & Fixtures E Smart Energy Solutions Pvt Ltd Bill No.149 dt 1.3.2018 payable to Esmart Energy Solutions Pvt.Ltd. towards LED Street light - 45 Watt ( 8 Nos.), 85 W(10 Nos.),Led Street light 120W (18 Nos.) vide GRN No 644 dt 13.3.2018 as per shail/p.o /17-18/834 dt 9.2.2018.	Journal	JV/03/114	6,33,920.00	6,33,920.00

**Shail Educational & Welfare Society**  
Opp. IIM, Pithampur Road, INDORE

**E Smart Energy Solutions Pvt Ltd**  
Ledger Account

1-Apr-2019 to 31-Mar-2020

Date	Particulars	Vch Type	Vch No.	Debit	Page 1
					Credit
28-2-2020	By Repair & Maint. Electricals Agst Ref BP/01/26 invoice 165 dt 10.12.19 LED Street Light 100 W Qty 5 nos @ 11807 Settled advance E smart energy solutions Pvt Ltd GRN-898 dt 16.12.2019.	Journal	JV/02/154	65,000.00 Cr	65,000.00
To	Closing Balance			65,000.00	65,000.00
				65,000.00	65,000.00







# INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE

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**RECEIVED**

**INDORE INSTITUTE OF SCIENCE & TECHNOLOGY**  
 VICE CHANCELLOR  
 CAMPUS OFFICE  
 C/10, KANHAJI STATION ROAD, INDORE-472 002  
 INDIA

**MAHARAJA EDUCATIONAL & WELFARE SOCIETY**  
 CHAIRMAN  
 MAHARAJA EDUCATIONAL & WELFARE SOCIETY  
 C/10, KANHAJI STATION ROAD, INDORE-472 002  
 INDIA

**MAHARAJA EDUCATIONAL & WELFARE SOCIETY**  
 CHAIRMAN  
 MAHARAJA EDUCATIONAL & WELFARE SOCIETY  
 C/10, KANHAJI STATION ROAD, INDORE-472 002  
 INDIA

**LED Bill**

Sl. No.	Description	Rate	Quantity	Amount
1	LED Bulb (10W)	100.00	100	10000.00
2	LED Bulb (15W)	150.00	100	15000.00
3	LED Bulb (20W)	200.00	100	20000.00
4	LED Bulb (25W)	250.00	100	25000.00
5	LED Bulb (30W)	300.00	100	30000.00
6	LED Bulb (35W)	350.00	100	35000.00
7	LED Bulb (40W)	400.00	100	40000.00
8	LED Bulb (45W)	450.00	100	45000.00
9	LED Bulb (50W)	500.00	100	50000.00
10	LED Bulb (55W)	550.00	100	55000.00
11	LED Bulb (60W)	600.00	100	60000.00
12	LED Bulb (65W)	650.00	100	65000.00
13	LED Bulb (70W)	700.00	100	70000.00
14	LED Bulb (75W)	750.00	100	75000.00
15	LED Bulb (80W)	800.00	100	80000.00
16	LED Bulb (85W)	850.00	100	85000.00
17	LED Bulb (90W)	900.00	100	90000.00
18	LED Bulb (95W)	950.00	100	95000.00
19	LED Bulb (100W)	1000.00	100	100000.00
20	LED Bulb (105W)	1050.00	100	105000.00
21	LED Bulb (110W)	1100.00	100	110000.00
22	LED Bulb (115W)	1150.00	100	115000.00
23	LED Bulb (120W)	1200.00	100	120000.00
24	LED Bulb (125W)	1250.00	100	125000.00
25	LED Bulb (130W)	1300.00	100	130000.00
26	LED Bulb (135W)	1350.00	100	135000.00
27	LED Bulb (140W)	1400.00	100	140000.00
28	LED Bulb (145W)	1450.00	100	145000.00
29	LED Bulb (150W)	1500.00	100	150000.00
30	LED Bulb (155W)	1550.00	100	155000.00
31	LED Bulb (160W)	1600.00	100	160000.00
32	LED Bulb (165W)	1650.00	100	165000.00
33	LED Bulb (170W)	1700.00	100	170000.00
34	LED Bulb (175W)	1750.00	100	175000.00
35	LED Bulb (180W)	1800.00	100	180000.00
36	LED Bulb (185W)	1850.00	100	185000.00
37	LED Bulb (190W)	1900.00	100	190000.00
38	LED Bulb (195W)	1950.00	100	195000.00
39	LED Bulb (200W)	2000.00	100	200000.00
40	LED Bulb (205W)	2050.00	100	205000.00
41	LED Bulb (210W)	2100.00	100	210000.00
42	LED Bulb (215W)	2150.00	100	215000.00
43	LED Bulb (220W)	2200.00	100	220000.00
44	LED Bulb (225W)	2250.00	100	225000.00
45	LED Bulb (230W)	2300.00	100	230000.00
46	LED Bulb (235W)	2350.00	100	235000.00
47	LED Bulb (240W)	2400.00	100	240000.00
48	LED Bulb (245W)	2450.00	100	245000.00
49	LED Bulb (250W)	2500.00	100	250000.00
50	LED Bulb (255W)	2550.00	100	255000.00
51	LED Bulb (260W)	2600.00	100	260000.00
52	LED Bulb (265W)	2650.00	100	265000.00
53	LED Bulb (270W)	2700.00	100	270000.00
54	LED Bulb (275W)	2750.00	100	275000.00
55	LED Bulb (280W)	2800.00	100	280000.00
56	LED Bulb (285W)	2850.00	100	285000.00
57	LED Bulb (290W)	2900.00	100	290000.00
58	LED Bulb (295W)	2950.00	100	295000.00
59	LED Bulb (300W)	3000.00	100	300000.00
60	LED Bulb (305W)	3050.00	100	305000.00
61	LED Bulb (310W)	3100.00	100	310000.00
62	LED Bulb (315W)	3150.00	100	315000.00
63	LED Bulb (320W)	3200.00	100	320000.00
64	LED Bulb (325W)	3250.00	100	325000.00
65	LED Bulb (330W)	3300.00	100	330000.00
66	LED Bulb (335W)	3350.00	100	335000.00
67	LED Bulb (340W)	3400.00	100	340000.00
68	LED Bulb (345W)	3450.00	100	345000.00
69	LED Bulb (350W)	3500.00	100	350000.00
70	LED Bulb (355W)	3550.00	100	355000.00
71	LED Bulb (360W)	3600.00	100	360000.00
72	LED Bulb (365W)	3650.00	100	365000.00
73	LED Bulb (370W)	3700.00	100	370000.00
74	LED Bulb (375W)	3750.00	100	375000.00
75	LED Bulb (380W)	3800.00	100	380000.00
76	LED Bulb (385W)	3850.00	100	385000.00
77	LED Bulb (390W)	3900.00	100	390000.00
78	LED Bulb (395W)	3950.00	100	395000.00
79	LED Bulb (400W)	4000.00	100	400000.00
80	LED Bulb (405W)	4050.00	100	405000.00
81	LED Bulb (410W)	4100.00	100	410000.00
82	LED Bulb (415W)	4150.00	100	415000.00
83	LED Bulb (420W)	4200.00	100	420000.00
84	LED Bulb (425W)	4250.00	100	425000.00
85	LED Bulb (430W)	4300.00	100	430000.00
86	LED Bulb (435W)	4350.00	100	435000.00
87	LED Bulb (440W)	4400.00	100	440000.00
88	LED Bulb (445W)	4450.00	100	445000.00
89	LED Bulb (450W)	4500.00	100	450000.00
90	LED Bulb (455W)	4550.00	100	455000.00
91	LED Bulb (460W)	4600.00	100	460000.00
92	LED Bulb (465W)	4650.00	100	465000.00
93	LED Bulb (470W)	4700.00	100	470000.00
94	LED Bulb (475W)	4750.00	100	475000.00
95	LED Bulb (480W)	4800.00	100	480000.00
96	LED Bulb (485W)	4850.00	100	485000.00
97	LED Bulb (490W)	4900.00	100	490000.00
98	LED Bulb (495W)	4950.00	100	495000.00
99	LED Bulb (500W)	5000.00	100	500000.00
100	LED Bulb (505W)	5050.00	100	505000.00
101	LED Bulb (510W)	5100.00	100	510000.00
102	LED Bulb (515W)	5150.00	100	515000.00
103	LED Bulb (520W)	5200.00	100	520000.00
104	LED Bulb (525W)	5250.00	100	525000.00
105	LED Bulb (530W)	5300.00	100	530000.00
106	LED Bulb (535W)	5350.00	100	535000.00
107	LED Bulb (540W)	5400.00	100	540000.00
108	LED Bulb (545W)	5450.00	100	545000.00
109	LED Bulb (550W)	5500.00	100	550000.00
110	LED Bulb (555W)	5550.00	100	555000.00
111	LED Bulb (560W)	5600.00	100	560000.00
112	LED Bulb (565W)	5650.00	100	565000.00
113	LED Bulb (570W)	5700.00	100	570000.00
114	LED Bulb (575W)	5750.00	100	575000.00
115	LED Bulb (580W)	5800.00	100	580000.00
116	LED Bulb (585W)	5850.00	100	585000.00
117	LED Bulb (590W)	5900.00	100	590000.00
118	LED Bulb (595W)	5950.00	100	595000.00
119	LED Bulb (600W)	6000.00	100	600000.00
120	LED Bulb (605W)	6050.00	100	605000.00
121	LED Bulb (610W)	6100.00	100	610000.00
122	LED Bulb (615W)	6150.00	100	615000.00
123	LED Bulb (620W)	6200.00	100	620000.00
124	LED Bulb (625W)	6250.00	100	625000.00
125	LED Bulb (630W)	6300.00	100	630000.00
126	LED Bulb (635W)	6350.00	100	635000.00
127	LED Bulb (640W)	6400.00	100	640000.00
128	LED Bulb (645W)	6450.00	100	645000.00
129	LED Bulb (650W)	6500.00	100	650000.00
130	LED Bulb (655W)	6550.00	100	655000.00
131	LED Bulb (660W)	6600.00	100	660000.00
132	LED Bulb (665W)	6650.00	100	665000.00
133	LED Bulb (670W)	6700.00	100	670000.00
134	LED Bulb (675W)	6750.00	100	675000.00
135	LED Bulb (680W)	6800.00	100	680000.00
136	LED Bulb (685W)	6850.00	100	685000.00
137	LED Bulb (690W)	6900.00	100	690000.00
138	LED Bulb (695W)	6950.00	100	695000.00
139	LED Bulb (700W)	7000.00	100	700000.00
140	LED Bulb (705W)	7050.00	100	705000.00
141	LED Bulb (710W)	7100.00	100	710000.00
142	LED Bulb (715W)	7150.00	100	715000.00
143	LED Bulb (720W)	7200.00	100	720000.00
144	LED Bulb (725W)	7250.00	100	725000.00
145	LED Bulb (730W)	7300.00	100	730000.00
146	LED Bulb (735W)	7350.00	100	735000.00
147	LED Bulb (740W)	7400.00	100	740000.00
148	LED Bulb (745W)	7450.00	100	745000.00
149	LED Bulb (750W)	7500.00	100	750000.00
150	LED Bulb (755W)	7550.00	100	755000.00
151	LED Bulb (760W)	7600.00	100	760000.00
152	LED Bulb (765W)	7650.00	100	765000.00
153	LED Bulb (770W)	7700.00	100	770000.00
154	LED Bulb (775W)	7750.00	100	775000.00
155	LED Bulb (780W)	7800.00	100	780000.00
156	LED Bulb (785W)	7850.00	100	785000.00
157	LED Bulb (790W)	7900.00	100	790000.00
158	LED Bulb (795W)	7950.00	100	795000.00
159	LED Bulb (800W)	8000.00	100	800000.00
160	LED Bulb (805W)	8050.00	100	805000.00
161	LED Bulb (810W)	8100.00	100	810000.00
162	LED Bulb (815W)	8150.00	100	815000.00
163	LED Bulb (820W)	8200.00	100	820000.00
164	LED Bulb (825W)	8250.00	100	825000.00
165	LED Bulb (830W)	8300.00	100	830000.00
166	LED Bulb (835W)	8350.00	100	835000.00
167	LED Bulb (840W)	8400.00	100	840000.00
168	LED Bulb (845W)	8450.00	100	845000.00
169	LED Bulb (850W)	8500.00	100	850000.00
170	LED Bulb (855W)	8550.00	100	855000.00
171	LED Bulb (860W)	8600.00	100	860000.00
172	LED Bulb (865W)	8650.00	100	865000.00
173	LED Bulb (870W)	8700.00	100	870000.00
174	LED Bulb (875W)	8750.00	100	875000.00
175	LED Bulb (880W)	8800.00	100	880000.00
176	LED Bulb (885W)	8850.00	100	885000.00
177	LED Bulb (890W)	8900.00	100	890000.00
178	LED Bulb (895W)	8950.00	100	895000.00
179	LED Bulb (900W)	9000.00	100	900000.00
180	LED Bulb (905W)	9050.00		