

# Energy Audit Report



Jalkal Vibhag Nagar Nigam  
Gorakhpur



## INVESTMENT GRADE ENERGY AUDIT REPORT

Jalkal Vibhag Nagar Nigam, Gorakhpur

Submitted by

**Energy Efficiency Services Limited**

Submitted To

**Jalkal Vibhag Nagar Nigam, Gorakhpur**

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### Summary of Project Cost Benefit Analysis

The energy saving has been calculated on the basis of energy audit activity conducted at all the sites. Consequently, feasibility of individual projects has been discussed with ULB officials and different pump manufactures. The energy saving of this project has been calculated on the basis of the technical information shared by the manufacturers (for the recommended equipment) and operating information shared by pumping station personnel. The estimated energy saving is provided in the table below:

Summary of Energy efficiency measures identified during the audit

S. No.	Energy Efficiency Measures (Replacement with Energy Efficient Pump)	Annual Energy Saving (kWh/year)	Energy Cost Saving per annum (Rs. Lakhs/year)	Investment Cost (Rs. Lakhs)	Payback period (Months)	Percentage of energy saving (%)
1	Jachha Bachha	19860.52	1.58	1.46	11	39.14
2	Premchand Park	13583.71	1.08	1.01	11	69.52
3	Marwad College	14090.41	1.12	1.46	16	30.91
4	Khoonipur OHT	41625.48	3.31	1.46	5	54.42
5	Khoonipur	30260.24	2.41	1.57	8	34.40
6	Nijampur Chowk	25116.10	2.00	1.46	9	43.99
7	Diwan Bazar	27928.55	2.22	1.46	8	47.25
8	Jafra Bazar	29208.91	2.32	1.46	8	47.71
9	Basantpur Rain Basera	12366.05	0.98	1.56	19	24.12
10	Collectry Kuchery	43345.88	3.45	1.57	5	40.30
11	Illahibagh	22281.87	1.77	1.46	10	40.42
12	Ghosipur Illahibagh	28567.16	2.27	1.46	8	47.63
13	Tiwaripur	22711.17	1.81	1.32	9	48.21
14	Commissioner Compound Old	37791.84	3.00	1.61	6	34.65
15	Suraj Kund Small	41782.47	3.32	1.17	4	72.05
16	Suraj Kund OHT	23118.19	1.84	1.61	11	24.03
17	Shubhash Nagar No. 1 OHT	34373.05	2.73	1.56	7	46.01
18	Shubhash Nagar No. 2 OHT	69026.47	5.49	1.21	3	78.02
19	Gorakhnath Mandir (Near Gate)	10163.09	0.81	1.17	17	38.54
20	Commissioner compound old near gate	53854.88	4.28	1.56	4	51.03
21	Ramgarh Tal Park no. 3	58078.07	4.62	1.32	3	64.14
22	Bhairapur OHT No.1	45598.52	3.63	1.21	4	63.58
23	Girdhar Ganj	20844.76	1.66	1.56	11	34.41
24	Andhiyari Bagh South	34936.87	2.78	1.57	7	41.90
25	Hajaripur	41209.07	3.28	1.56	6	51.22
26	Dharmshala Nalkoop	19822.58	1.58	1.32	10	42.16



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