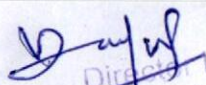


Audit recommendations regarding Energy		
Sr. No	Recommendations made in the audit report	Actions taken by the university (with document proof)
1	<u>Avoid Power factor Penalties.</u> DUPVNL . All Non- domestic loads HT connection consumers are charged on the basis of KVAh and not kWh. So in this type tariff is power factor is not maintained at appropriate level, client end up paying indirect penalty due to higher KVAh units for same real power that is kWh. as the power factor goes bad electricity bill increases automatically without penalty word actually appearing in Utility Bill, It is recommended to improve power factor of installation of 0.99 for energy savings and other related benefits as noted	We have installed power factor control panels to improve the power factor of our installation towards .99.
2	Below you'll find a list of benefits in descending order of the potential financial impact on your utility bill.	
a.	A lower power factor causes a higher current flow for a given load. As the line current increases the voltage drop in the conductor power factor, the voltage drop in the conductor is reduced, improving the voltage at the equipment.	We are having reduced voltage drop in the conductors and receiving improved voltage due to improved power factor by our P.F. control panels.


 Director IQAC
 GLA University, Mathura

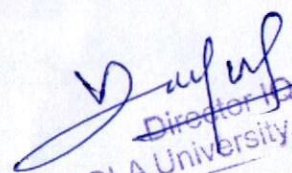
b.	Power factor correction can be extremely beneficial as the contract demand is in kVA. Benefits include everything from reduced demand charges on your power system to increased load carrying capabilities in your existing circuits and overall reduced power systems losses.	We also getting reduced the contract demands in KVA. Redulting increase load carying capacity of system.
c.	Increase load carrying capabilities in Exting Circuits an Equipment i.e. Transformers, DG sets UPS. Etc. Loads Drawing reacting power also demand reactive current, installing power factor correction capacitors at the end of existing circuits near the inductive loads reduces the current carried by each circuit. The reduction in current flow resulting from improved power	Due to improved P.F Through our P.F. panels reduces the current flow in the circuits which allow the circuits to carry new loads , So we can save the costing of updatation distributio system the registive losses in ciurcuts also reduced due to improve P.F.
d.	Reduced Power System Losses.	
	Althoug the Financial Return from conductor loss reduction alone in not sufficient to justify the installation of capacitors. It is sometimes an attractive additional benefit: especially in older plants with long feeders or in field pumping operations.	Due to the improved power factor it reduced by which we got finacial return benefits also.
	Comfort Air -conditioning	
1	Use of ceiling fans along with Air conditioning for saving energy used in Air conditioning.	We are practising this
2	Window type and split type AC units timely Periodicaly Maintenance and cleaning of filters.	Periodic and preventive maintenance are being carreid out by our self.
3	Inter active Effect all top roofs be provided with reflective china tiles for better comfort The terraces which already have Solar PV installations are not required to be provided with such tiles.	We have installed Solar PV power system at our various building at roof tops.
4	Renewalble Energy Solar Photovolatie- Already installed and operating Well.	Yes, Already installed and operating fine.
5	Set point temprature of AC's.	
6	Automatic closing of doors.	Yes, Most of doors are required with Aut doors closures.


 Director IQAC
 GLA University, Mathura

7	Cleaning of filters- filters should be periodically cleaned to reduced resistance and for effective cooling	Our team of HVAC already maintaining perioduc cleaning of filters,
8	Wet Service-Twice annually due to increased use of AC's due to global warning.	We during same.
9	Condition of Insulation of Refreigerant piping should be checked and kept under good condition. Mondey menace acan also lead to damaged piping and insulation.	we have installed electrica wire fencing at our most of location and building to prevent monkey menace.
10	Refrigerant- AC's purchased in future should be with environment Friendly refrigerant.	Yes
	Lighting	
1	Occupancy Sensors may be considered to be provided for common toilet and Corridors with control of exhaust fans also throught exhaust fans. 85% of lights in common area should be controlled with Occupancy sensors.	We are installing the sensor in tiles and common areas in first phase and it is coninue in process up to complete of all the concern areas.
2	Automatic Switching on/off of lightingfor external lighing with Astronomical swithc be provided.	Under process
3	Swithing off 50% of external lighting during late hours be condidered.	We have condiderd and implementing
	Pumping system	
	Automation of pumping system be considered for saving of Energy.	Most of Feeding water feeding water pump are equiped with automation water control sensor and continoue in process.
	Renewable Energy System	
	For enhancement of genration during time of failure of grid, an arrangement can be made by installation of PLC so that in such case if demand exceeds genration, the Solar PV can genrate electricity and the same is utilized for internal consumption thereby reducing use of elctricity from Genrator which is genrated @ 22.00 per unit.	We have almost 1 M. W. on Grid Roof top P.V. Solar grid system at Various building in campus.
	Bentilation of Electrical Equipment Rooms	


 Director IQAC
 GLA University, Mathura

1	Ventilation of Electrical Equipment rooms and UPS room is not up to mark and due to higher temprature indide electrical rooms and UPS room area there are additional losses and higher energy consumption of UPS there by de-rating it substantially. There is no mechanical ventilation provided.	All the UPS rooms and Electrical equipments Rooms are equiped with heavy duty exhaust fan for temp. ventilations.
2	The batteries an UPS are installed side by side and due to ventilation not provided the fumes from batteries re-circulate in closed space and thereby reduce the life of equipment and reduction of mean time between failure and reducing reliablity of operation.	
3	Ventilation of all equipemnt rooms is required to be revisited, and per design proper ventilation is required to be provided.	We have maintained the proper ventilation required months.
	Awareness of staff	
1	Ovel -all Awareness of working staff is required to be enhanced for improving the practices of Energy consurvation.	For Energy consurvation awareness and inhancing of working staff we train our staff by seminar and workshops conducted by ourselfe, time to time


 Director IPAC
 GLA University, Mathura

विश्वविद्यालय में स्थापित सोलर प्लान्ट द्वारा जनरेट किये गये सोलर यूनिट का विवरण

ग्रिड में एक्सपोर्ट किये गये सोलर यूनिट का विवरण							मासिक विद्युत बिलों में सोलर यूनिट एडजस्टमेंट का विवरण			
दिनांक	मिछली रीडिंग	दिनांक	वर्तमान रीडिंग	कुल खपत यूनिट	मल्टीफ़ैक्टर (एम0एफ0)	कुल सोलर यूनिट्स	विद्युत बिल माह	विद्युत बिल में कुल खर्च हुये यूनिट	एडजस्ट किये गये सोलर पावर यूनिट्स	शेष सोलर पावर यूनिट्स का विवरण
02/04/2018	0	31/03/2019	22391	22391	20	447820	अक्टूबर 2019	342270	247740	200080
							नवम्बर 2019	261820	200080	0
31/03/2019	22391	31/05/2020	52706.5	30315.5	20	606310	मई 2020	72010	72010	534300
							जून 2020	119400	119400	414900
							जुलाई 2020	145900	145900	269000
							अगस्त 2020	134680	134680	134320
							सितम्बर 2020	142260	134320	0
31/05/2020	52706.5	02/01/2021	75097.5	22391	20	447820	दिसम्बर 2020	122820	122820	325000
							जनवरी 2021	274870	274870	50130
							फरवरी 2021	185950	50130	0
02/01/2021	75097.5	01/04/2021	84115.5	9018	20	180360	मार्च 2021	186590	180360	0
01/04/2021	84115.5	01/05/2021	88869.5	4754	20	95080	अप्रैल 2021	152290	95080	0
01/05/2021	88869.5	01/10/2021	102613	13743.5	20	274870	सितम्बर 2021	501920	274870	0
01/10/2021	102613	02/11/2021	103410	797	20	15940	अक्टूबर 2021	442610	15940	0
						2068200				

Dr. HARIOM SHARMA
Maintenance
GLA University, Mathura

04-2021

REGD A/C

DAKSHINANCHAL VIDYUT VITRAN NIGAM LIMITED

Electricity Distribution Division- (II) KOSI KALAN

NO

/ EDD(II) / KOSI

Dated

Bill Cum Notice For Large & Heavy Power Consumer

REVISED BILL

To,
M/s- GLNA & JPGLA INSTITUTE
CHOUIMUHAMonth- Nov-21 Voltage 11KV
Contracted Load in KVA 1500
75% OF CONTRACTED LOAD IN KVA 1125
Rate Schedule H.V.-1
Meter No. XC413775
Security Deposited

2/11/2021	1/10/2021							
Present Reading	Previous Reading	Unit Consumed	Meter MF	Unit Consumed MF	Export Unit Consumed 2/11/2021	Billed Unit	Billable Demand KVA	Average Power Factor For the Month
KWH / KVAH	KWH / KVAH							
634219	612089	22131	20	442610	15940	426670	1753.2	0.96
634219	612088.5	22131	20	442610	15940	426670		

1- Rate Charges

(a) Demand charged @ Rs.430.00 per KVA / KW per Month

Unit Charge: 8.32 UNIT 2500
Unit Charge: 8.68 UNIT 424170

TOTAL 4456471.60

350566.77

217752.00

5024.79

44564.72

TOTAL 4985250.44

4985250.44

4985250

GRAND TOTAL
NET PAYABLELAST DATE - 19/11/2021
Discont Dt. - 26/11/2021

Bill Clerk

D.A.

A.E.

Executive Engineer
EDD-II KOSI
KOSI KALANcopy to concerning S.D.O. with the remark that the supply be
payment is not made within 7 days from the date of payment.

नोट- यदि बिल में कोई त्रुटि पाई जाती है तो नियमानुसार ठीक कर दी जायेगी ।

नोट- बिल का भुगतान खण्ड कार्यालय में किया जायेगा ।

Mar - 2021

Electricity Distribution Division- (II) KOSI KALAN

/ EDD(II) / KOSI

Dated: _____

NO

Bill Cum Notice For Large & Heavy Power Consumer

REVISED BILL

To
M/s. GLNA & JPOLA INSTITUTE
CHOUHUA

Month: Apr-21
Contracted Load in KVA
76% OF CONTRACTED LOAD IN KVA
Rate Schedule -
Motor No -
Security Deposited

Voltage

11KV
1600
1125
H.V.-1
XC413775

1/4/2021	1/3/2021	Unit	Motor	Unit	Export Unit	Billed	Billable	Average
Present	Previous	Consumed	MF	Consumed	Consumed	Unit	Demand	Power Factor
KWH / KVAH	KWH / KVAH			MF	1/4/2021		KVA	For the Month
546975	537546	9330	20	186590	180300	6230	1125	0.95
546975	537645.5	9330	20	186590	180360	6230		

Rate Charges:-

(a) Demand charged @ Rs.430.00 per KVA / KW per Month

Unit Charge: 8.32 UNIT 2600
Unit Charge: 8.68 UNIT 3730

TOTAL

Rs.
483750.00
20800.00
32376.40
536926.40
40269.48

- Electricity duty charged 7.5% On Electricity Charges.
- Regulatory Surcharge 2.84% On EC Charges.
- Regulatory Surcharge 4.28% On EC Charges.
- Exc Dmd Penalty over contracted dmd up to 10%
- Exc Dmd Penalty over contracted dmd above 10%
- Load factor rbt for all consumption over 398-432
- Load factor rbt for all consumption over 432-504
- Load factor rbt for all consumption excess 504
- Interest on Security deposited @ 6% per Annum.
- Other Charges - Add- TCS Charges
- Other Charges - Less 1 % Rebate

(430X2)

TOTAL

5369.26
571826.62

- Arrears up to last month
- Last payment
- Arrears for current month of
- Late payment surcharge

GRAND TOTAL
NET PAYABLE

571826.62
571827

LAST DATE - 18-04-2021
Discont Dt. - 25-04-2021

Bill Clerk

D.A.

A.E.

Executive Engineer
EDD-II KOSI
KOSI KALAN

copy to concerning S.D.O. _____ with the remark that the supply be
payment is not made within 7 days from the date of payment.

नोट- यदि बिल में कोई त्रुटि पाई जाती है तो नियमानुसार ठीक कर दी जायेगी ।
नोट- बिल का भुगतान खण्ड कार्यालय में किया जायेगा ।
नोट- बिल का भुगतान केवल स्थानीय बैंक के बैंक जे अथवा क्रेडिट जे

Jan-2021

REGD A/C
DAKSHINANCHAL VIDYUT VITRAN NIGAM LIMITED

Electricity Distribution Division- (III) KOSI KALAN

/ EDD(III) / KOSI

Dated _____

Bill Cum Notice For Large & Heavy Power Consumer

REVISED BILL

GLNA & JPGLA INSTITUTE
SOLMUHA

Month- Feb-21 Voltage 11KV
Contracted Load in KVA 1500
75% OF CONTRACTED LOAD - IN KVA 1125
Rate Schedule - H.V.-1
Meter No- XC413775
Security Deposited

Present Reading	Previous Reading	Unit Consumed	Meter MF	Unit Consumed MF	Export Unit Consumed 2/1/2021	Billed Unit	Billable Demand KVA	Average Power Factor For the Month
528349	514606	13744	20	274870	325000	-50130	1125	0.84
528349	514606.5	13744	20	274870	325000	-50130		

1- Rate Charges:-

(a) Demand charged @ Rs.430.00 per KVA / KW per Month

Unit Charger 8.32 UINT 0
Chrg Charger 8.88 UINT 0

TOTAL 483750.00

- Electricity duty charged 7.5% On Electricity Charges.
- Regulatory Surcharge 2.84% On EC Charges.
- Regulatory Surcharge 4.28% On EC Charges.
- Exc Dmd Penalty over contracted dmd up to 10%
- Exc Dmd Penalty over contracted dmd above 10%
- Load factor rbt for all consumption over 396-432
- Load factor rbt for all consumption over 432-504
- Load factor rbt for all consumption excess 504
- Interest on Security deposited @ 6% per Annum.
- Other Charges - Pending May FC / FC Waiver
- Other Charges - Less 1 % Rebate

(430X2) ok
Bill checked
5,15,194.75
12-2-21

Rebate 4837.50
TOTAL 515193.75

- Arrears up to last month
- Last payment

- Arrears for current month of
- Late payment surcharge

GRAND TOTAL 515193.75
NET PAYABLE 515194

LAST DATE - 18-02-2021
Discont Dt. - 25-02-2021

B/C Clerk

D.A.

A.E.

Executive Engineer
EDD-II KOSI
KOSI KALAN

copy to concerning S.D.O. with the remark that the supply be

payment is not made within 7 days from the date of payment.

नोट - 02-01-2021 तक बकाया 50130 यूनिट सॉलर इनर्जी अगले माह समायोजित कर दी जायेगी।

नोट - बिजली का उपयोग करने वाले सभी उपकरणों का जांच करवाया जायेगा।

SEP - 2020

REGIONAL
DAKSHINANCHAL VIDYUT VITRAN NIGAM LIMITED
Electricity Distribution Division- (III) KOSI KALAN

(H.O.) KOSI
Bill C. of Notice For Large & Heavy Power Consumer
REVISED BILL

Dated: _____

To,
M/s. GLNA JPGLA INSTITUTE
CHOLMUH.

Month: Oct-20 Voltage: 11KV
Contracted Load in KVA: 1500
75% OF CONTRACTED LOAD IN KVA: 1125
Rate Schedule: H.V.-1
Motor No: XC413775
Security Deposited: _____

Present Reading	Previous Reading	Unit Consumed	Meter No.	Unit Consumed	Export Unit Consumed	Billed Unit	Billable Demand KVA	Average Power Factor For the Month
KWH KVAH	KWH KVAH			Unit	Unit			
499088	491975	7113	20	142260	134320	7940	1125	0.84
499088	491975	7113	20	142260	134320	7940		

1- Rate Charges:

(a) Demand charged @ Rs. 430.00 per KVA / KW per Month

Unit Charge	8.32 UNIT	2560
Unit Charge	8.88 UNIT	6440

TOTAL Rs. 551769.20

- Electricity duty charged 7.5% On Electricity Charges.
- Regulatory Surcharge 2.84% On EC Charges.
- Regulatory Surcharge 4.28% On EC Charges.
- Exc Dmd Penalty over contracted dmd up to 10%
- Exc Dmd Penalty over contracted dmd above 10%
- Load factor rebt for all consumption over 396-432
- Load factor rebt for all consumption over 432-500
- Load factor rebt for all consumption excess 504
- Interest on Security deposited @ 6% per Annum.
- Other Charges - Pending May T.C. / FC Waiver
- Other charges - Less 1% Rebate

(430732)

Bill checked ok
₹ 5,87,634.20

5517.69

TOTAL 587634.20

- Arrears up to last month
- Last payment

- Arrears for current month of
- Late payment surcharge

GRAND TOTAL
NET PAYABLE

587634.20

587634

LAST DATE: 19-10-2020
Discont DL: 26-10-2020

Bill Clerk

D.A.

A.E.

Executive Engineer
EDD-II KOSI
KOSI KALAN

copy to concerning S.D.O. _____ with the remark that the supply to
payment is not made within 7 days from the date of payment

नोट- यदि बिल में कोई त्रुटि पाई जाती है तो नियमानुसार त्रुटि कर दी जायेगी।

Jul-2020

Dated

51KV

1500

Meter No-

Security Deposited

01-03-20

01-07-20

Present Reading	Previous Reading	Unit Consumed	Meter MF	Unit Consumed MF	Export Unit Consumed 31-05-20	Import Unit	Demand KVA	Power Factor For the Month
485241	477946	7295	20	145900	414900	-269000	1125	0.91
485241	477946	7295	20	145900	414900	-269000		

1. Rate Charges:-

(a) Demand charged @ Rs. 430.00 per KVA / KW per Month

Unit Charge

R 32

UINT

Unit Charge

3.68

UINT

TOTAL

2. Electricity duty charged 7.5% On Electricity Charges.

3. Regulatory Surcharge 2.84% On EC Charges.

4. Regulatory Surcharge 4.28% On EC Charges.

4. Regulatory Surcharge 4.25 % On LC charges

5. Exc Dmd Penalty over contracted dmd up to 10%
Exc Dmd Penalty over contracted dmd above 10%

Etc Dmd Penalty over contracted bnd above 10
and for rbt for all consumption over 396-432

6. Load factor rbt for all consumption over 396-432
Load factor rbt for all consumption over 432-504

7. Load factor (lt) for all consumption over 432-504

8. Load factor rbt for all consumption excess 504
Security deposited @ 6% per Annum.

9. Interest on Security deposited @ 6% per An
 Pending May EC / EC Waiver

10- Other Charges - Pending May FC / FC Waiver
1.00 1.00 Rebate

11- Other Charges - Less 1 % Rebate

12- Arrears up to last month

13- Last payment

14- Arrears for current month of-

15- Late payment surcharge

GRAND TOTAL

NET PAYABLE

LAST DATE - 21-08-2020

Discont Dt. - 28-08-2020

Bank Clerk

D.A.

A.E.

Executive Engineer
EDD-II KOSI
KOSI KALAN

copy to concerning S.D.O.

payment is not made within 7 days from the date of payment

नोट:- यदि बिल में कोई त्रुटि पाई जाती है तो नियमानुसार ठीक कर दी जायेगी।

जेल: गिरफ्तार का भगवान स्वर्णद कार्यालय में किया जायेगा ।

Jun-2020

REGD A/C

DAKSHINANCHAL VIDYUT VITRAN NIGAM LIMITED

Electricity Distribution Division- (III) KOSI KALAN

/ EDD(III) / KOSI

Dated _____

Bill Cum Notice For Large & Heavy Power Consumer

REVISED BILL

To,
M/s- GLNA & JPGLA INSTITUTE
CHOUMUHA

Month- Jul-20
Contracted Load in KVA
75% OF CONTRACTED LOAD - IN KVA
Rate Schedule -
Meter No-
Security Deposited ✓

Voltage 11KV
1500
1125
H.V.-1
XD413775

01-07-20 01-06-20

Present Reading	Previous Reading	Unit Consumed	Meter MF	Unit Consumed MF	Export Unit Consumed	Billed Unit	Billable Demand KVA	Average Power Factor For the Month
KWH / KVAH	KWH / KVAH				31-05-20			
477946	471976	5970	20	119400	534300	-414900	1125	0.91
477946	471976	5970	20	119400	534300	-414900		

1- Rate Charges:-

(a) Demand charged @ Rs.430.00 per KVA / KW per Month

Unit Charges 8.32 UNIT 0
Unit Charges 8.68 UNIT 0

TOTAL 483750.00
36281.25

- Electricity duty charged 7.5% On Electricity Charges.
- Regulatory Surcharge 2.84% On EC Charges.
- Regulatory Surcharge 4.28% On EC Charges.
- Exc Dmd Penalty over contracted dmd up to 10%
- Exc Dmd Penalty over contracted dmd above 10% (430X2)
- Load factor rbt for all consumption over 396-432
- Load factor rbt for all consumption over 432-504
- Load factor rbt for all consumption excess 504
- Interest on Security deposited @ 6% per Annum.
- Other Charges - Pending May FC / FC Waiver
- Other Charges - Less 1 % Rebate

645000 483750 161250 + 161250
4837.50

TOTAL 676443.75

12- Arrears up to last month

13- Last payment

1-
2-

14- Arrears for current month of

15- Late payment surcharge

GRAND TOTAL

NET PAYABLE

Am't Recd's Am't
Adj'd

LAST DATE - 25-07-2020

Discont Dt. - 01-08-2020

Bill Clerk

D.A.

A.E.

Executive Engineer
EDD-II KOSI
KOSI KALAN

copy to concerning S.D.O. with the remark that the supply be

payment is not made within 7 days from the date of payment.

यदि बिजली का बिल जमा नहीं किया जाता है तो नियमानुसार ठीक कर दी जायेगी।

DAXSHINANCHAL VIDYUT VITRAN NIGAM LIMITED

Electricity Distribution Division (III) KOSI KALAN

1 DD(III) KOSI

Date: _____

Bill Cum Notice For Large & Heavy Power Consumer

REVISED BILL

LNA & JPGLA INSTITUTE
MUNDA

Month: Nov-19

Voltage

11KV

Contracted Load in KVA

1500

75% OF CONTRACTED LOAD IN KVA

1125

Rate Schedule -

H.V.-1

Meter No-

XD413775

Security Deposited

Present Reading	Previous Reading	Unit Consumed	Meter MF	Unit Consumed MF	Export Unit Consumed 31-12-18	Billed Unit	Billable Demand KVA	Average Power Factor For the Month
403031	385918	17114	20	342270	247740	94530	1174.4	0.90
403031	385917.5	17114	20	342270	247740	94530		

1- Rate Charges:-

(a) Demand charged @ Rs.430.00 per KVA / KW per Month

Unit Charges	8.32	UINT	2500
Unit Charges	8.68	UINT	92030

TOTAL 1324612.40
99345.93

- Electricity duty charged 7.5% On Electricity Charges
- Regulatory Surcharge 2.84% On EC Charges
- Regulatory Surcharge 4.28% On EC Charges
- Exc Dmd Penalty over contracted dmd up to 10%
- Exc Dmd Penalty over contracted dmd above 10% (430X2)
- Load factor rbt for all consumption over 396-432
- Load factor rbt for all consumption over 432-504
- Load factor rbt for all consumption excess 504
- Interest on Security deposited @ 6% per Annum
- Other Charges - Less 1 % Rebate

₹ 14,10,712 =

TOTAL 1410712.21

- Arrears up to last month
- Last payment

- Arrears for current month of
- Late payment surcharge

GRAND TOTAL
NET PAYABLE

1410712.21
1410712

LAST DATE - 22-11-2019
Discont Dt. - 29-11-2019

Bill Clerk

D.A.

A.E.

Executive Engineer
EDD-II KOSI
KOSI KALAN

copy to concerning S.D.O.

payment is not made within 7 days from the date of payment.

नोट- बकाया Export Unit 200080 KVAH अगले माह समायोजित की जायेगी।

नोट- बिल का भुगतान खण्ड कार्यालय में किया जायेगा।

नोट- बिल का भुगतान केवल स्थानीय बैंक के चेक से अथवा ड्राफ्ट से किया जायेगा।

247740- सोलर थ्रुनेट रजिस्ट्र होने के उपरान्त -
Revised Bill बना रहे