

**SNJB (Jain Gurukul's)**  
**K.K.H. Abad Arts, S.M.G. Lodha Commerce & S.P.H. Jain Science College**  
**Neminagar, Chandwad-423101, Dist.-Nashik, Maharashtra**



Establishment  
27/11/1928

(Affiliated to Savitribai Phule Pune University) Id. No.PU/NS/AC/015/1970

(02556) Off. 252125 Res.252126 Tel. Fax:02556-252125

• P. O. Box No.: 6 • E-mail : [alccchandwad@yahoo.co.in](mailto:alccchandwad@yahoo.co.in)

• Website : [www.acschandwadcollege.com](http://www.acschandwadcollege.com)

DST-FIST Funded (2018-19)

UGC-NSQF Courses (B.Voc. & CC)

Best College Award by Savitribai Phule Pune University (2015-16)

**7.1.3 Renewable Energy Source**

**INDEX**

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### Percentage of Power Requirement by Renewable Energy Source



Chemistry Department Building Solar Panel



New Building Solar Panel



**Physics Department Building Solar Panel**



**Executive Summary of Solar Energy**



Latitude: 20.331583  
Longitude: 74.238547  
Elevation: 781.26m  
Accuracy: 2.5m  
Time: 05-15-2019 10:50

Powered by NoteCam

**Battery House**



Latitude: 20.334213  
Longitude: 74.239685  
Elevation: 797.26m  
Accuracy: 3.7m  
Time: 05-15-2019 11:07  
Note: Phy top

Powered by NoteCam

**Solar Water Heater Boys Hostel**



Latitude: 20.334227  
Longitude: 74.239703  
Elevation: 803.46m  
Accuracy: 2.5m  
Time: 05-15-2019 11:08  
Note: Phy top

**Solar Water Heater Boys Hostel**



Latitude: 20.333507  
Longitude: 74.238081  
Accuracy: 122.4m  
Time: 02-07-2019 13:18  
Note: girls hostel

**Solar Water Heater Girls Hostel**



**Solar Water Heater Girls Hostel**

**SNJB (Jain Gurukul's)**  
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**Energy Generated by college Solar Rooftop**

Sr.No	Month	MSEB Unit(KWH)	Solar Unit(KWH)	Annual power Requirement of College(KWH)
1	April	989	2967	<b>36,896</b>
2	May	863	2012	
3	June	438	1751	
4	July	722	2165	
5	August	1372	3526	
6	September	280	1500	
7	October	800	900	
8	November	100	1600	
9	December	263	998	
10	January	330	3700	
11	February	310	3502	
12	March	1800	4008	
<b>Total</b>		<b>8267</b>	<b>28,629</b>	

$$\text{Formula} = \frac{\text{Annual Power Requirement By Renewable energy sources}}{\text{Annual power Requirement}}$$

$$= 28629 / 36896$$

$$= \mathbf{77.59\% \text{ solar}}$$





**FOURTH PARTNER ENERGY PRIVATE LIMITED**

Reg. Office & Operations :

Fourth Partner House, Plot No. N46, H. No. 4-9-10, HMT Nagar,  
Hyderabad, Telangana – 500076

Tel : +91-40-27158865, Fax No 040-48529389

E-Mail: info@fourthpartner.com / Website : www.fourthpartner.com

CIN No. U40108TG2010PTC070806

Date 30<sup>th</sup> January 2019

To  
SNBJ's K K H A Arts, SMGL Comm. & SPHJ Science  
Chandwad Dist,  
Nashik,  
Maharashtra.

**RECEIPT**

We here by confirm and acknowledge the receipt of Rs.6,64,697/- (Rupees Six Lakh Sixty-Four Thousand Six Hundred and Ninety-Seven Only) towards full payment in connection to Invoice Number TSI/10-18/169 Dt. 12-10-2018 for 7 Kwp Solar Power Project.

Thanking You,

Yours Faithfully,  
For FOURTH PARTNER ENERGY PRIVATE LIMITED

*Se. S. S. S.*

Authorized Signatory





**PROJECT COMPLETION REPORT FOR SOLAR POWER PLANT**

Sr. No.	Component	Observation
1	<b>Work Order No.</b>	547/ALTC/2017-18
	Work Order Date / Date of advance	17-01-2018
2	<b>Category: - Govt. / Private Sector</b>	Private Sector
	Site / Location with complete address	KKHA Arts, SMGL Commerce & SPHJ Science College, Chandwad, Dist. NAsik
	Latitude, Longitude	20.335301, 74.236937
3	<b>Capacity of System Installed</b>	07 kW (Off Grid)
4	<b>Specifications of the Modules</b>	
	Type of Modules (Multi / Mono)	Multi
	Make of Modules	Vikram Solar
	Year of Manufacturing	2017
	Wattage	325 Wp
	No. of Modules	22
	Module Efficiency	16.72%
	No. of Series & Parallel Combinations	4 Strings of 5 Panels Each + 2 Panels
	Tilt of Modules	20 degrees approx.
	IEC Certificates	IEC 61215, IEC 61701
	Weather Imported or Indigenous	Indigenous
	RFID Tag is pasted inside or outside	Inside
	Type of RFID	Laminated Inbuilt
5	<b>PCU</b>	
	Make	Consul Neowatt
	Rating	7.5 kVA
	Type of Charge Controller / MPPT	MPPT
	Capacity of Inverter	7.5 kW
	Year of Manufacturing	2017
	AC Output	1-Phase
	Type	Off-Grid



	Weather Indigenous or Imported	Indigenous
6	<b>Structures</b>	
	Tracking or Non-tracking	Non-tracking
	Indigenous or Imported	Indigenous
7	<b>Cables Make &amp; Size</b>	Solar DC Cable – 4sqmm Leoni
	Voltage of Cable	1100 VDC
8	<b>Distribution Box</b>	Both DC & AC
9	Earthing & Protection	Provided
	Lightening Arrestor	Existing

For Fourth Partner Energy Pvt. Ltd.



Shitanshu Kamani,  
Corporate Development





**FOURTH PARTNER ENERGY PVT LTD**

Reg Office: 4-1-938, Flat No.703 & 704, Krishna Apts, Tilak Road, Abids, Hyderabad-1, INDIA  
Factory: Plot No: N46, H.No:4-9-10, HMT Nagar, Hyderabad-500076  
T : +91-40-64631123 | E-mail : info@fourthpartner.co | Website : www.fourthpartner.co  
CIN No:U40108AP2010PTC070806

08/10/2018

The Principal  
K.K.H.A. Arts, S.M.G.L. Commerce & S.P.H.J. Science College  
Chandwad, Dist. Nashik - 423101

Subject: Regarding the Completion of Project and the 5 years of O&M for the Solar Rooftop Plant.

Dear Sir,

With reference to the above project for execution of 7 kW Solar Rooftop Off-Grid Plant at your institution, we would like to hereby inform that the project has been installed and commissioned successfully. Further, as per the proposal and the PO, the Operations and Maintenance for the 5 years shall be provided to your institution by our channel partner. The contact details of our Channel Partner for the same are as below:

Name: Durgesh Maru  
Contact No: 9923855387  
Email: durgesh.maru@gmail.com

We herewith congratulate you for adopting a green and clear source of energy.

Thanking You,

For Fourth Partner Energy Pvt. Ltd.



Shitanshu Kamani,  
Corporate Development





**Jain Irrigation Systems Ltd.**

Address Jain Energy Park, Jain Valley, Shirsol Road, Post Box No.20 Jalgaon 425001

Contact No.

State Name and Code Maharashtra (27) Contact No. 0257-2260033/44

TAX INVOICE

**Details of Receiver (Billed to):** 20018853

Name SHRI NEMINATH JAIN  
BRAHMACHARYASHRAM  
Address CHNADWAD, JAIN CHIRUKIT,  
NEMINAGAR, CHANDWAD  
CHNADWAD NASHIK-423101

State Name and Code MAHARASHTRA (27)

GSTIN No.:

Contact No. 02556-252122252150

**Details of Consignee (Shipped to):**

Name SHRI NEMINATH JAIN  
BRAHMACHARYASHRAM  
Address CHNADWAD, JAIN CHIRUKIT,  
CHNADWAD NASHIK-423101

State Name and Code MAHARASHTRA (27)

GSTIN No.:

Contact No. 02556-252122252150

IN. DOC. No./Date 1401436240 / 27.06.2017

Order No./Date 6001515304 / 27.06.2017

D.C. No. 8002264914

Trans. Name

Vehicle No.

LR/RR No.

Terms of Payment Payment after Installation

SAC/HSN	Item Code	Description of Goods	Qty.		Rate Per Unit	Total Value	Disc. (%)	Tax Rate (%)	Taxable Value
			Nos.	Unit					
	FXSHCLTGH85X3X100	FIX ST GPSP.SHET TLING FLT SP CER85X3X100	545						
	HNBW10X90MMSS	HEX NUT BOLT & WASHER M10 X 90MM SS	2190						
	HNBW12X40MMSS	HEX NUT BOLT & WASHER M12 X 40MM SS	2760						
	MODULECLAMPSS60X40	MODULE CLAMP SS 60 X 40	5210						
	NUTBOLTSSM6X20	NUT BOLT SS ANTI THEFT M6 X 20 MM	5320						
	ROUMS12X6MTR	ROUND BAR - M.S.12 MM X 6 MTR	850	M					
	SPACERGH112X78	SPACER GH 15MMX 78MM A CLASS	2180						
	SPRGLGH.PCHG15MX60	MODULE MTPURLIN LGLPCHANNEL GH5000X60MM	56						
	TRBPROCLAMP50X50	TRACKER BOX PIPE ROTATING CLAMP 50 X 50	1090						
	UNUTBOLT12X55X172	UNUT BOLT 12 X 55 X 172MM WITH WASHER	1090						

Total 24,500,0000

Amount in words

Two Crore Forty Five Lakh Rupees Only

Remarks PO No : 20031803

Total Taxable Value 24,500,000.00

Registered Office : Jain Plastic Park, N.H.No.6 Bambhori, Jalgaon- Maharashtra, India-425 001.

Principal Place of Business: Jain Plastic Park, Post Box no-72 Jalgaon. 425001 ) & Maharashtra (27) Maharashtra

GSTIN No. : 27AAACJ7163QIZY

PAN No. AAACJ7163Q

CIN No. L29120 Mh1986 PLC 042028

For Terms & Conditions Please see overleaf. E. & O.E.

Place of supply (State Code & Name) MAHARASHTRA (27)

Place of delivery MAHARASHTRA (27)

Plant Code: 1302

Grand Total

24,500,000.00

Customer care cell:

E-mail: customercare@jains.com

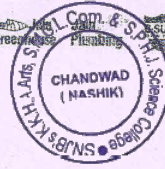
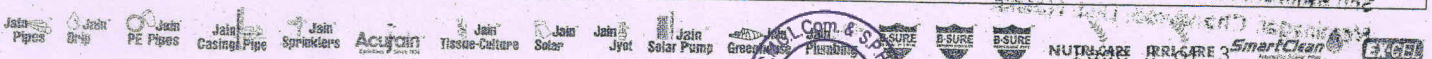
Division Toll Free Number  
Tissue Culture 1800 599 1000  
Plumbing 1800 599 2000

Division Toll Free Number  
Solar & Agri Pumps 1800 599 3000  
MIS, SIS, PFS & Pipe 1800 599 5000

Prepared by

Checked by

Authorized by





**Jain Irrigation Systems Ltd.**

Address Jain Energy Park, Jain Valley, Shirsol Road, Post Box No.20 Jalgaon 425001

Contact No.

State Name and Code Maharashtra (27) Contact No. 0257-2260033/44

TAX INVOICE

**Details of Receiver (Billed to):** 20018833

Name SHRI NEMINATH JAIN  
BRAHMACHARYASHRAM  
Address CHNADWAD, JAIN GHRIKUTI,  
NEMINAGAR, CHANDWAD  
CHNADWAD NASHIK-423101

State Name and Code MAHARASHTRA (27)

GSTIN No.:

Contact No. 02556-252122252150

**Details of Consignee (Shipped to):**

Name SHRI NEMINATH JAIN  
BRAHMACHARYASHRAM  
Address CHNADWAD, JAIN GHRIKUTI,  
CHNADWAD NASHIK-423101

State Name and Code MAHARASHTRA (27)

GSTIN No.:

Contact No. 02556-252122252150

IN. DOC. No./Date 1401436240 / 27.06.2017

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D.C. No. 8002264914

Trans. Name

Vehicle No.

LR/RR No.

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SAC/HSN	Item Code	Description of Goods	Qty.		Rate Per Unit	Total Value	Disc. (%)	Tax Rate (%)	Taxable Value
			Nos.	Unit					
	FXSHCLTGH85X3X100	FIX ST GPSP SHET TLING FLT SP CER 85X3X100	545						
	HNBW10X90MMSS	HEX NUT BOLT & WASHER M10 X 90MM SS	2190						
	HNBW12X40MMSS	HEX NUT BOLT & WASHER M12 X 40MM SS	2760						
	MODULECLAMPSS60X40	MODULE CLAMP SS 60 X 40	5210						
	NUTBOLTSSM6X20	NUT BOLT SS ANTI THEFT M6 X 20 MM	5320						
	ROUMS12X6MTR	ROUND BAR - M.S.12 MM X 6 MTR	850	M					
	SPACERGIP112X78	SPACER GI 15MMX 78MM A CLASS	2180						
	SPRRLGLPCHG15MX60	MODULE MIPURLIN LGLPCHANNEL GH5000X60MM	56						
	TRBPROCLAMP50X50	TRACKER BOX PIPE ROTATING CLAMP 50 X 50	1090						
	UNUTBOLT12X55X172	UNUT BOLT 12 X 55 X 172MM WITH WASHER	1090						
<b>Total</b>									<b>24,500,0000</b>

Amount in words

Two Crore Forty Five Lakh Rupees Only

Remarks PO No : 20031803

Total Taxable Value 24,500,000.00

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Principal Place of Business: Jain Plastic Park, Post Box no-72 Jalgaon. 425001 ) & Maharashtra (27) Maharashtra

GSTIN No. : 27AAACJ7163Q1ZY

PAN No. AAACJ7163Q

CIN No. L29120 Mh1986 PLC 042028

For Terms & Conditions Please see overleaf. E. & O.E.

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Place of delivery MAHARASHTRA (27)

Plant Code: 1302

Grand Total

24,500,000.00

Customer care cell:

E-mail: customercare@jains.com

Division Tissue Culture 1800 599 1000  
Plumbing 1800 599 2000

Division Solar & Agri Pumps 1800 599 3000  
MIS, SIS, PFS & Pipe 1800 599 5000

Prepared by

Checked by

Authorised by





**Jain Irrigation Systems Ltd.**

Address Jain Energy Park, Jain Valley, Shirsol Road, Post Box No.20 Jalgaon 425001

TAX INVOICE

Contact No.

State Name and Code Maharashtra (27) Contact No. 0257-2260033/44

**Details of Receiver (Billed to):** 20018883

Name SHRI NEMINATH JAIN  
BRAHMACHARYASHRAM  
Address CHNADWAD, JAIN CHURUKIT,  
NEMINAGAR, CHANDWAD  
CHNADWAD NASHIK-423101

State Name and Code MAHARASHTRA (27)

GSTIN No.:

Contact No. 02556-252122252150

**Details of Consignee (Shipped to):**

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BRAHMACHARYASHRAM  
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CHNADWAD NASHIK-423101

State Name and Code MAHARASHTRA (27)

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IN. DOC. No./Date 1401436240 / 27.06.2017

Order No./Date 6001515304 / 27.06.2017

D.C. No. 8002264914

Trans. Name

Vehicle No.

LR/RR No.

Terms of Payment Payment after Installation

SAC/HSN	Item Code	Description of Goods	Qty.		Rate Per Unit	Total Value	Disc. (%)	Tax Rate (%)	Taxable Value
			Nos.	Unit					
	HEXNUTBOLT318X314	HEX NUT WITH BOLT 9.53X19.05MM	10						
	INSULATOR	INSULATOR	100						
	JSPearthKIT	JAIN SOLAR PUMP EARTHING KIT	60						
	MOPVPANELCLE	MOP FOR PV PANEL CLEANING	6						
	PVCABLE4SQ1CBK	PV CABLE 4 SQ 1 CORE BLACK	500						
	PVCABLE4SQ1CRE	PV CABLE 4 SQ 1 CORE RED	1500						
	SPCBTRSLG150X50	CABLE TRAY SUPPORT GI LADDER 50X50X2.6MM	10						
	SPVM6SD7200M310	JAIN JYOT - 156MC,310 WATT PV MODULE	1292						
	SURPRODEAC3PH40KA	SURGE PROTECT DEVICE AC SIDE 3PHASE 40KA	4						
	INVERT40KVAGRIDIN	INVERTER 40KVA GRID INTERACTIVE	9						
	REFUSOLDCCB934P210	DC CONNECTION BOX 934P2101850	9						
	ANGLEGP40X40X3	ANGLE GPSP 40 X 40 X 3 MM	545						
	CENTERPINMS	CENTER PIN MS AS PER DRAWING	545						
	FMCCLAGHW67T3200	FRAME SUPRT C CLAMP GPSP SHET 200X67X3MM	400						
	FXCRGILC0804C24P3	FIX ST CNTR RALE GPSP LIPCH 60X40X4300X2	66						
	FXCRGILC0804C26P0	FIX ST CNTR RALE GPSP LIPCH 60X40X6000X2	389						
	FXLGCGLC1107G30P7	FX STND LIP CHANNEL PREGAL LEG 750X 3MM	545						
	FXLGCGLC1207C30P3	FX STND LIP CHANNEL PREGAL LEG 345X 3MM	545						
	FXMBCGLC1207C31P0	FIX ST MAIN BEAM GPSP LIPCH 80X50X1000X3	545						
	FXSHCLTGH150X1X187	FIX ST GPS SH TLING FLT C SPCLR150X1X187	545						
<b>Total</b>									

Amount in words

Remarks PO No : 20031803

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PAN No. AAACJ7163Q

CIN No. L29120 Mh1986 PLC 042028

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Place of supply (State Code & Name) MAHARASHTRA (27)

Place of delivery MAHARASHTRA (27)

Plant Code: 1302

Grand Total

Customer care cell:

E-mail: customercare@jains.com

Division Toll Free Number  
Tissue Culture 1800 599 1000  
Plumbing 1800 599 2000

Division Toll Free Number  
Solar & Agri Pumps 1800 599 3000  
MIS, SIS, PFS & Pipe 1800 599 5000



Prepared by

Checked by

Authorized by



**CURRENT CONSUMPTION DETAILS**

Reading Date	KWH	KVAH	RKVAH (LAG)	RKVAH (LEAD)	KW (MD)	KVA (MD)
Current 04-06-2018	38441.000	38961.000	2120.000			39.800
Previous 05-05-2018	30702.000	31084.000	1523.000			
Difference	7739.000	7877.000	597.000			
Multiplying Factor	5.0000	5.0000	5.0000		5.000	5.0000
Consumption	38695.000	39385.000	2985.000			199.000
Add if L. T. Metering	0.000	0.000	0.000		0.000	0.000
Adjustment -Solar Units	-14450.000	0.000	0.000			
Assessed Consumption	0.000	0.000	0.000			0.000
Total Consumption	24245.000	39385.000	2985.000			199.000

**BILLING DETAILS**

				Amount in Rs.		
Billed Demand (KVA)	227	@ Rs.		270	Demand Charges	61,290.00
Assessed P.F.		Avg. P.F.		.997	Wheeling Charges @ 0.82 Rs/U	19,880.90
Billed P.F.	.997	L.F.		15	Energy Charges	2,19,902.15
Consumption Type	Units	Rate		Charges Rs.	TOD Tariff EC	-10,783.50
Industrial	0	9.07		0.00	FAC @ 28 Ps/U	6,768.60
Residential	0	5.82		0.00	Electricity Duty	0.00
Commercial	24,245	9.07		219,902.15	Other Charges	0.00
E.D. on (Rs.)	Rate %			Amount Rs.	Tax on Sale @ 8 Ps/U	1,939.60
	9.3				P.F. Penal Charges / P.F.Incentive	-20,795.47
	16				Charges For Excess Demand	0.00
	21					0.00
TOD Tarrifs	Rate (Rs/Unit)	Units	Demand	Charges Rs.	Debit Bill Adjustment	0.00
0000 Hrs-0600 Hrs & 2200 Hrs-2400 Hrs	1.50	14,405	104.00	21,607.50	TOTAL CURRENT BILL	2,78,222.28
0600 Hrs-0900 Hrs & 1200 Hrs-1800 Hrs	0.00	0	182.00	0.00	Current Interest 04/06/2018	0.00
0900 Hrs-1200 Hrs	0.80	0	199.00	0.00	Principal Arrears	-1.85
1800 Hrs-2200 Hrs	1.10	9,840	113.00	10,824.00	Interest Arrears	0.00
Amount In Words	₹ TWO LAKH SEVENTY-EIGHT THOUSAND TWO HUNDRED TWENTY ONLY				Total Bill Amount (Rounded) Rs.	2,78,220.00
					Delayed Payment Charges Rs.	3,477.78
					Amount (Rounded) Payable After 19-06-2018 (Amount Rounded to Nearest Rs. 10/-)	281700

Toll Free Numbers of 24 X 7 Call Center of MSEDCL are changed. Consumers can dial any of the toll free numbers i.e. 1912, 1800-102-3435, 1800-233-3435 to reach MSEDCL Call-Center.

Total Solar Generation Units : 44270; Rooftop Solar Units Export : 14450. Import : 38695. Adjusted : 14450. Bank : 0; Rooftop Solar Capacity : 400 KW; Cr Adj. Rs. 3515 of type PROMPT PAYMENT DISCOUNT :

PROMPT DISCOUNT Rs. 2763 IF PAID ON OR BEFORE 11-JUN-18:

Tariff Revised w.e.f 04-04-2018

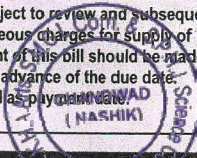
Solar unit used  
 Generation 44270  
 Tr to MSEB 14450  
29820

MSEB unit used  
 Import 38695  
 from solar 14450  
24245

Total unit 29820 + 24245 = 54065

**CONDITIONS**

- The total bill amount of the bill may be remitted by a Crossed Demand Draft/Cheque drawn in favor of " Maharashtra State Electricity Distribution Co. Ltd." Whenever Security Deposit is demanded separate Cheque / Bank Draft should be sent.
- The current bill is payable within fifteen days from the date of issue of the bill. Even if there is any discrepancy in the bill or any other clarification needed, consumers are requested to pay the billed amount in full provisionally or under protest subject to review and subsequent adjustment, so that payment of delayed payment charges is avoided.
- This bill is issued subject to the provision of the "Conditions and Miscellaneous charges for supply of Electrical Energy" of the company.
- Please quote the Consumer Number on the back of the Cheque. The payment of this bill should be made at Company's office only.
- If the cheque is sent by post, the same should be posted three clear days in advance of the due date.
- If paid by Cheque/DD/Pay Order, then the Realization date will be considered as payment date.



**Hon. Secretary  
Trust Board**

**Collection Hours : 10-30 to 16-00 Hours ( Except on Bank Holidays, Sunday, 2nd & 4th Saturdays)**



# Maharashtra State Electricity Distribution Co. Ltd

**BILL OF SUPPLY FOR THE MONTH OF JUN 2018** 201806659588808  
 GSTIN: 27AAECM2931K12B Website: www.mahadiscom.in HSN CODE: 27160000

NASIK URBAN CIRCLE 595 CHANDWAD DN 601 D CHANDWAD SUB-DIVN. 254 1

Consumer No. 059739009400 M/S NEMINA  
 Consumer Name M/S NEMINATH JAIN BRAHMACHARYA ASHRAM  
 Address : NEMINAGAR CHANDWAD DIST  
 NASIK

BILL DATE	06-07-2018	2,66,220.00
DUE DATE	20-07-2018	
IF PAID UPTO	12-07-2018	2,63,570.00
IF PAID AFTER	20-07-2018	2,69,540.00

Last Receipt No./Date 0000007624 / 07-06-2018  
 Last Month Payment 2,75,460.00

Village : NEMINAGAR Pin Code : 422303 Scale/Sector : Small Scale

Email ID : tatiykd@gmail.com

Mobile No.: 9273909860 Meter No. : 055 - X0364377 Activity :  
 Tariff 146 HT-IX B Connected Load (KW) : 500.00 Seasonal Load Shed Ind OTHER  
 Urban/Rural Flag : R Express Feeder Flag : No  
 Contract Demand (KVA) : 350 50% of Con. Demand(KVA) 175.00 Feeder Voltage (KV) : 11 LIS Indicator :

DTC old trf HT-IX B

Date of Connection : 19-08-1998 Category : PUBL SERVICES OTH GSTIN :  
 Supply at: HT Elec. Duty 49 PART H PAN : AABTS8423J  
 Prev. Highest (Mth) SEP Bill Demand (KVA) 303  
 Security Deposit Held Rs. 6,65,000.00 Addl. S.D. Demanded Rs. 0.00  
 Bank Guarantee Rs. : 0.00 S.D. Arrears Rs. : 0.00

Maintain Harmonics distortion within limit as prescribed by IEEE STANDARD 519-1992 to avoid penalty

Avail Power factor incentives up to 7% maintaining power factor above 95% to 100%

Avail load factor incentive up to 15 % by maintaining constant load profile.

Avail 1% prompt payment discount by paying bills within prompt payment date.

### BILLING HISTORY

Bill Month	Units	Bill Demand(KVA)	Bill Amount
MAY-18	24,245	227	2,78,222
APR-18	32,900	227	3,54,138
MAR-18	28,765	227	3,11,546
FEB-18	11,840	227	1,67,010
JAN-18	26,920	227	2,96,877
DEC-17	56,199	227	5,58,517
NOV-17	62,904	227	6,11,877
OCT-17	59,515	253	5,66,081
SEP-17	79,907	303	7,68,409
AUG-17	68,011	216	6,74,062
JUL-17	67,907	201	6,21,549
JUN-17	55,966	188	5,80,385

**CUSTOMER CARE Toll Free No.**  
 1912, 1800-233-3435,  
 1800-102-3435

IGRC: Internal Grievance Redressal Forum, Vidyut Bhavan, Bytco Point, Nashik Road 422101, Phone - 02532462491  
 In case of non-redressal of grievance here, consumer may make his representation to below forum  
 CGRF: Consumer Grievance Redressal Forum, Kharbanda Park, 1st Floor, Room No 115-118, Dwarka, Nashik 422011, Phone - 02536526484

**PAID AND**  
 Dt. 11-7-18  
**CANCELLED**

For making Energy Bill payment through RTGS/NEFT mode, use following details  
 o Beneficiary Name: MSEDCL  
 o Beneficiary Account Number: MSEDCL01059739009400  
 o IFS Code: YESB0CMSNOC (fifth character is zero and tenth character is "O")  
 o Name of Bank: Yes Bank  
 o Name of Branch: CMS NATIONAL OPERATING CENTRE MMR

Disclaimer: Please use above bank details only for payment against consumer number mentioned in beneficiary account number.

Chief Engineer(Commercial)  
 E. & O.E. and subject to conditions

*pharvat*

आवा जवीन  
 औद्योगिक वीज जोडणी  
 अधिक सुलभतेने

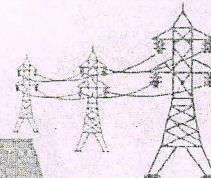
Ease of doing business

सहीन वीज जोडणीसाठी  
 गरज केवळ दोनच दस्तऐवजाची

माहिती हक्क / यादिकांचा पुरावा

सिवात सहीन केवळ प्रमाणपत्र

सर्व गकिया ऑनलाईन (जव अर्थ, विपार जोड्या राणा)



संपर्क :

महावितरणच्या [www.mahadiscom.in](http://www.mahadiscom.in)  
 या संकेतस्थळावरील ग्राहक वेब स्वयंसेवा  
 किंवा महावितरण मोबाईल ॲपचा वापर करावा

### Important Message

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- o Submit / update your E-mail id and mobile number to Circle office for prompt alerts through SMS.
- o Submit / update your PAN and GSTIN to circle office with copies of PAN and GSTIN for verification.
- o Special desk is operational for HT Consumers, please contact [htconsumer@mahadiscom.in](mailto:htconsumer@mahadiscom.in) for any clarification / query or grievance.





### CURRENT CONSUMPTION DETAILS

Reading Date	KWH	KVAH	RKVAH (LAG)	RKVAH (LEAD)	KW (MD)	KVA (MD)
Current 05-07-2018	45326.000	45864.000	2303.000			
Previous 04-06-2018	38441.000	38961.000	2120.000			31.100
Difference	6885.000	6903.000	183.000			
Multiplying Factor	5.0000	5.0000	5.0000			
Consumption	34425.000	34515.000	915.000		5.000	5.0000
LT Metering	0.000	0.000	0.000			155.500
Adjustment-Solar Units	-11700.000	0.000	0.000		0.000	0.000
Assessed Consump	0.000	0.000	0.000			
Total Consumption	22725.000	34515.000	915.000			0.000
						156.000

### BILLING DETAILS

			Amount in Rs
Billed Demand (KVA)	227 @ Rs.	270	Demand Charges 61,290.00
Assessed P.F.	Avg. P.F.	1.000	Wheeling Charge @ 0.82 Rs/U 18,634.50
Billed P.F.	L.F.	13	Energy Charges 2,06,115.75
Consumption Type			TOD Tariff EC -11,283.00
Industrial	0 @ 9.07	0.00	FAC @ 42 Ps/U 9,544.50
Residential	0 @ 5.82	0.00	Electricity Duty
Commercial	22,725 @ 9.07	206,115.75	Other Charges 0.00
E.D. on (Rs.)	Rate %	Amount Rs.	Tax on Sale @ 8 Ps/U 1,818.00
	9.3		P.F. Penal Charges/P.F. Inc. -19,901.12
	16		Charges For Excess Demand 0.00
	21		

TOD Zone	Rate	Units	Demand	Charges Rs.
0000 Hrs-0600 Hrs & 2200 Hrs-2400 Hrs	-1.50	13,385	79.00	20,077.50
0600 Hrs-0900 Hrs & 1200 Hrs-1800 Hrs	0.00	1,345	156.00	0.00
0900 Hrs - 1200 Hrs	0.80	0	127.00	0.00
1800 Hrs-2200 Hrs	1.10	7,995	89.00	8,794.50

Amount in Words

**TWO LAKH SIXTY-SIX THOUSAND TWO HUNDRED TWENTY ONLY**

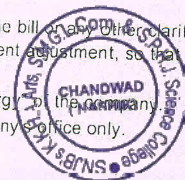
Debit Bill Adjustment	0.00
<b>TOTAL CURRENT BILL</b>	<b>2,66,218.63</b>
Current Interest 05/07/2018	0.00
Principle Arrears	-2.57
Interest Arrears	0.00
<b>Total Bill (Rounded) Rs.</b>	<b>2,66,220.00</b>
Delayed Payment Charges Rs.	3,327.73
Amount Payable After 20-07-2018	269540
Amount Rounded to Nearest Rs.(10/-)	

Total Solar Generation Units : 40680; Rooftop Solar Units Export : 11700, Import : 34425, Adjusted : 11700, Bank : 0; Rooftop Solar Capacity : 400 KW  
 Cr Adj. Rs. 2763 of type PROMPT PAYMENT DISCOUNT  
 \*\*\*\* PROMPT DISCOUNT Rs. 2644 IF PAID ON OR BEFORE 12-JUL-18;

Tariff Revised w.e.f 01-04-2018

### CONDITIONS

- The total bill amount of the bill may be remitted by a Crossed Demand Draft/Cheque drawn in favor of "Maharashtra State Electricity Distribution Co. Ltd." Whenever Security Deposit is demanded separate Cheque/Bank Draft should be sent.
- The current bill is payable within fifteen days from the date of issue of the bill. Even if there is any discrepancy in the bill and other clarification needed, consumers are requested to pay the billed amount in full provisionally or under protest subject to review and subsequent adjustment, so that payment of delayed
- This bill is issued subject to the provision of the "Conditions and Miscellaneous charges for supply of Electrical Energy of the Company".
- Please quote the Consumer Number on the back of the Cheque. The payment of this bill should be made at Company Office only.
- If the cheque is sent by post, the same should be posted three clear days in advance of the due date.
- If paid by Cheque/DD/Pay Order, then the Realization date should be considered as payment date.



**Collection Hours : 10-30 to 16-00 Hours (Except on Bank Holidays, Sundays, 2nd & 4th of the month)**

**MAHA**  
CIN : U40109MH2005SGC153645

BILL OF SUPPLY FOR THE MONTH OF

July - 2018

GSTIN: 27AAECM2933K1ZB

Website : www.mahadiscom.in

HSN CODE: 27160000

Consumer No. :	NASIK URBAN CIRCLE 595	CHANDWAD SUB-DIVN. 254
Consumer Name : 059739009400	M/S NEMINA	
Address :	M/S NEMINATH JAIN BRAHMACHARYA ASHRAM	
	NEMINAGAR CHANDWAD DIST	
	NASIK	
Village :	Pin Code :	
E-mail :	422303	Activity : Small Scale
Mobile No. : tatiyacd@gmail.com	Meter No. :	Seasonal :
Tariff : 9273909860	Connected Load (KVA) : 350 - X0364377	Urban/Rural Flag : Other
Contract Demand (KVA) : 146 HT-IX B	50% of Con. Demand (KVA) : 500.00	Express Feeder Flag : OTHER
	350	175.00
		11
		LIS Indicator :

DTC Date of Connection :	19-08-1998	Category : HT-IX B	GSTIN :
Supply at :		Elec. Duty : PUBL. SERVICES OTH	PAN :
ev. Highest (Mth) :		Bill Demand (KVA) : 49 PART H	AABTS8423J
Security Deposit Held Rs. : SEP		Addl. S.D. Demanded Rs. : 303	
Bank Guarantee Rs. : SD	6,65,000.00	S.D. Arrears Rs. : 0.00	

**Maintain Harmonic distortion within limit as prescribed by IEEE STANDARD 519-1992 to avoid penalty**

**Avail Power factor incentive up to 7% maintaining power factor above 95% to 100%**

**Avail load factor incentive up to 15% by maintaining constant load profile.**

**Avail 1% prompt payment discount by paying bills within prompt payment date.**

Bill Month	Units	Bill Demand (KVA)	Bill Amount
JUN-18	22,725	227	2,66,219
MAY-18	24,245	227	2,78,222
APR-18	32,900	227	3,54,138
MAR-18	28,765	227	3,11,546
FEB-18	11,840	227	1,67,010
JAN-18	26,920	227	2,96,877
DEC-17	56,199	227	5,58,517
NOV-17	62,904	227	6,11,877
OCT-17	59,515	253	5,66,081
SEP-17	79,907	303	7,68,409
AUG-17	68,011	216	6,74,062
JUL-17	67,907	201	6,21,549

**CUSTOMER CARE Toll Free No.**  
**1912, 1800-233-3435,**  
**1800-200-3435**  
**XXXXXXXXXXXXXX**

IGRC: Internal Grievance Redressal Forum, Vidyat Bhavan, Bytco Point, Nashik Road 422101, Phone - 02532462491  
In case of non-redressal of grievance here, consumer may make his representation to below forum  
CGRF: Consumer Grievance Redressal Forum, Kharbanda Park, 1st Floor, Room No 115-118, Dwarka, Nashik 422011, Phone - 02536526484

**PAID AND**  
**DL 11.8.18**  
**CANCELLED**

*(Signature)*

Chief Engineer (Commercial)  
Maharashtra State Electricity Distribution Co. Ltd.  
E. & O.E. and Subject to Conditions overleaf

For making Energy Bill payment through RTGS/NEFT mode, use following details

- Beneficiary Name: MSEDCL
- Beneficiary Account Number: MSEDCL01059739009400
- IFS Code: YESB0CMSNOC (fifth character is zero and tenth character is "O")
- Name of Bank: Yes Bank
- Name of Branch: CMS NATIONAL OPERATING CENTRE MMR

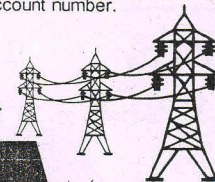
payment against consumer number mentioned in beneficiary account number.

**आता नवीन**  
**औद्योगिक वीज जोडणी**  
**अधिक सुलभतेने**

*Ease of doing business*

**नवीन वीज जोडणीसाठी**  
**गरज केवळ दोनच दस्तऐवजाची**

- \* मालकी हक्क / वाहिवाटीचा पुरावा
- \* जिल्हा उद्योग केंद्राचे प्रमाणपत्र सर्व प्रक्रिया ऑनलाईन (अर्ज भरणे, डिमांड नोटचा भरणा)



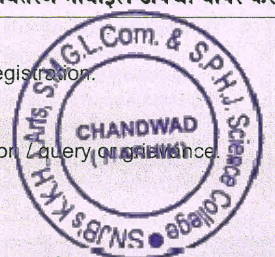
संपर्क :

महावितरणाच्या [www.mahadiscom.in](http://www.mahadiscom.in)  
या संकेतस्थळावरील ग्राहक वेब स्वयंसेवा किंवा महावितरण मोबाईल ॲपचा वापर करावा

### Important Message

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- Submit / update your PAN & GSTIN to circle office with copies of PAN & GSTIN for verification.
- Special desk is operational for HT Consumers, please contact : [htconsumer@mahadiscom.in](mailto:htconsumer@mahadiscom.in) for any clarification / query or grievance.

*(Signature)*  
**विश्वस्त**



### CURRENT CONSUMPTION DETAILS

Reading Date	KWH	KVAH	RKVAH (LAG)	RKVAH (LEAD)	KW (MD)	KVA (MD)
Current						
Previous 31-07-2018	53722.500	54281.500	2502.500		30.940	31.080
Difference 05-07-2018	45326.000	45864.000	2303.000			
Multiplying Factor	8396.500	8417.500	199.500			
Consumption	5.0000	5.0000	5.0000		5.000	5.0000
Add if L. T. Metering	41982.500	42087.500	997.500		154.700	155.400
Adjustment	0.000	0.000	0.000		0.000	0.000
Assessed Consumption <sup>-Solar Units</sup>	-3195.000	0.000	0.000			
Total Consumption	0.000	0.000	0.000			0.000

### BILLING DETAILS

Billed Demand (KVA) @ Rs.				Amount in Rs.	
Assessed P.F.	227	Avg. P.F.	270	Demand Charges	
Billed P.F.		L.F.	1.000	Wheeling Charges	61,290.00
Consumption Type	Units	Rate	Charges Rs.	Energy Charges @ 0.82 Rs/U	31,806.16
Industrial	0	9.07	0.00	TOD Tariff EC	3,51,807.16
Residential	0	5.82	0.00	FAC @ Ps/U	-10,602.30
Commercial	0	9.07	0.00	Electricity Duty <sup>1</sup>	387.88
E.D. on (Rs.)	Rate %	38.788	Amount Rs. 351807.16	Other Charges	
				Tax on Sale @ Ps/U	
				P.F. Penal Charges / P.F. Incentive	3,103.04
				Charges For Excess Demand	-30,428.22
					0.00
					0.00
TOD Tariffs	Rate (Rs/Unit)	Units	Demand	Charges Rs.	
0000 Hrs-0600 Hrs & 2200 Hrs-2400 Hrs	- 1.50	15,125	85.00	- 22,687.50	Debit Bill Adjustment
0600 Hrs-0900 Hrs & 1200 Hrs-1800 Hrs	0.00	11,598	153.00	0.00	TOTAL CURRENT BILL
0900 Hrs-1200 Hrs	0.80	3,958	155.00	3,166.40	Current Interest
1800 Hrs-2200 Hrs	1.10	8,108	101.00	8,918.80	Principal Arrears 07/08/2018
					Interest Arrears
Amount In Words	₹ FOUR LAKH SEVEN THOUSAND THREE HUNDRED SEVENTY ONLY				Total Bill Amount (Rounded) Rs.
					Delayed Payment Charges Rs.
					Amount (Rounded) Payable After (Amount Rounded to Nearest Rs. 10/-) 23-08-2018
					412480

Toll Free Numbers of 24 X 7 Call Center of MSEDCL are changed. Consumers can dial any of the toll free numbers i.e. 1912, 1800-102-3435, 1800-233-3435 to reach MSEDCL Call Center.

Total Solar Generation Units : 20470; Rooftop Solar Units Export : 3195, Import : 41983, Adjusted : 3195, Bank : 0; Rooftop Solar Capacity : 400 KW, Cr Adj. Rs. 2644 of type PROMPT PAYMENT DISCOUNT;

\*\*\*\* PROMPT DISCOUNT Rs. 4043 IF PAID ON OR BEFORE 14-AUG-18;

Tariff Revised w.e.f 01-04-2018

Solar unit used  
 Generation 20470  
 Tr to MSFB - 3195  
17275

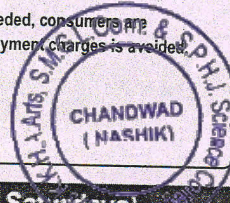
MSFB unit used

Import 41983  
 from solar - 3195  
38788

Total unit 17275 + 38788  
56063

### CONDITIONS

- The total bill amount of the bill may be remitted by a Crossed Demand Draft/Cheque drawn in favor of "Maharashtra State Electricity Distribution Co. Ltd." Whenever Security Deposit is demanded separate Cheque / Bank Draft should be sent.
- The current bill is payable within fifteen days from the date of issue of the bill. Even if there is any discrepancy in the bill or any other clarification needed, consumers are requested to pay the billed amount in full provisionally or under protest subject to review and subsequent adjustment, so that payment of delayed payment charges is avoided.
- This bill is issued subject to the provision of the "Conditions and Miscellaneous charges for supply of Electrical Energy" of the company.
- Please quote the Consumer Number on the back of the Cheque. The payment of this bill should be made at Company's office only.
- If the cheque is sent by post, the same should be posted three clear days in advance of the due date.
- If paid by Cheque/DD/Pay Order, then the Realization date will be considered as payment date.



Collection Hours : 10-30 to 16-00 Hours ( Except on Bank Holidays, Sundays, 2nd & 4th Saturdays)

Consumer No. : 059739009400	NASIK URBAN CIRCLE 595	CHANDWAD DIVN 601 D	CHANDWAD SUB-DIVN. 254
Consumer Name : M/S NEMINA	M/S NEMINATH JAIN BRAHMACHARYA ASHRAM	DUE DATE : 06-09-2018	4,90,480.00
Address : NEMINAGAR CHANDWAD DIST NASIK	Village : NEMINAGAR	IF PAID UPTO : 21-09-2018	4,85,620.00
Pin Code : 422303	E-mail : tatiyakd@gmail.com	IF PAID AFTER : 12-09-2018	4,96,610.00
Mobile No. : 9273909860	Meter No. : 055 - X0364377	Last Receipt No./Date : 21-09-2018	11-08-2018
Tariff : 146 HT-IX-B	Connected Load (KW) : 500.00	Last Month Payment : 0000010207 /	Scale / Sector : 4,03,320.00
Contract Demand (KVA) : 350	50% of Con. Demand (KVA) : 175.00	Activity : Small Scale	Seasonal :
Sanctioned Load (KW) : 500	old trf HT-IX-B	Urban/Rural Flag : R	Load Shed Ind Express Feeder Flag : OTHER
Date of Connection : 19-08-1998	Category : PUB. SERVICES OTH	Feeder Voltage (KV) : 11	LIS Indicator :
Supply at : HT	Elec. Duty : 49 PART H		
Highest (Mth) : SEP	Bill Demand (KVA) : 303		
Security Deposit Held Rs. : 6,65,000.00	Addl. S.D. Demanded Rs. : 0.00		
Bank Guarantee Rs. : 0.00	S. D. Arrears Rs. : 0.00		

Bill Month	Units	Bill Demand (KVA)	Bill Amount
JUL-18	38,788	227	4,07,364
JUN-18	22,725	227	2,66,219
MAY-18	24,245	227	2,78,222
APR-18	32,900	227	3,54,138
MAR-18	28,765	227	3,11,546
FEB-18	11,340	227	1,67,010
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AUG-17	68,011	216	6,74,062

**CUSTOMER CARE Toll Free No.**  
**1912, 1800-233-3435,**  
**1800-200-3435**  
**XXXXXXXXXXXXXX**

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**CGRF: Consumer Grievance Redressal Forum, Kharbanda Park, 1st Floor, Room No 115-118, Dwarka, Nashik 422011, Phone - 02536526484**

**Maintain Harmonic distortion within limit as prescribed by IEEE STANDARD 519-1992 to avoid penalty**

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**Avail load factor incentive up to 15% by maintaining constant load profile.**

**Avail 1% prompt payment discount by paying bills within prompt payment date.**

**PAID AND CANCELLED**  
Dt. 11/9/18

*(Signature)*

Chief Engineer (Commercial)  
Maharashtra State Electricity Distribution Co. Ltd.  
E. & O.E. and Subject to Conditions overleaf

For making Energy Bill payment through RTGS/NEFT mode, use following details  
o Beneficiary Name: MSEDCL  
o Beneficiary Account Number: MSEDCL01059739009400  
o IFS Code: YESB0CMSNOC (fifth character is zero and tenth character is "O")  
o Name of Bank: Yes Bank  
o Name of Branch: CMS NATIONAL OPERATING CENTRE MMR  
Disclaimer: Please use above bank details only for payment against consumer number mentioned in beneficiary account number.

Shree Computer Forms Pvt.Ltd.

**आता नवीन औद्योगिक वीज जोडणी अधिक सुलभतेने**

*Ease of doing business*

**नवीन वीज जोडणीसाठी गरज केवळ दोनच दस्तऐवजाची**

- \* मालकी हक्क / वाहिवाटीचा पुरावा
- \* जिल्हा उद्योग केंद्राचे प्रमाणपत्र सर्व प्रक्रिया ऑनलाईन (अर्ज भरणे, डिमांड नोटचा भरणा)

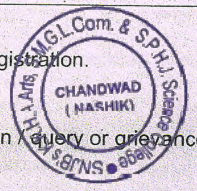
**महावितरण**

संपर्क : [www.mahadiscom.in](http://www.mahadiscom.in)  
या संकेतस्थळावरील ग्राहक वेब स्वयंसेवा किंवा महावितरण मोबाईल ॲपचा वापर करावा

**Important Message**

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- Submit / update your E-mail id and mobile number to Circle Office for receiving prompt alerts through SMS.
- Submit / update your PAN & GSTIN to circle office with copies of PAN & GSTIN for verification
- Special desk is operational for HT Consumers, please contact : [htconsumers@mahadiscom.in](mailto:htconsumers@mahadiscom.in) for any clarification / query or grievance.

*(Signature)*  
**विश्वस्त**



Email: info@shreecomputerforms.com

### CURRENT CONSUMPTION DETAILS

Reading Date	KWH	KVAH	RKVAH (LAG)	RKVAH (LEAD)	KW (MD)	KV
Current 31-08-2018	63861.500	64482.000	2901.500		33.140	
Previous 31-07-2018	53722.500	54281.500	2502.500			
Difference	10139.000	10200.500	399.000			
Multipling Factor	5.0000	5.0000	5.0000		5.000	5.0000
Consumption	50695.000	51002.500	1995.000		165.700	166.600
Add if L. T. Metering	0.000	0.000	0.000		0.000	0.000
Adjustment -Solar Units	-3525.000	0.000	0.000			
Assessed Consumption	0.000	0.000	0.000			0.000
Total Consumption	47170.000	51003.000	1995.000		166.000	167.000

### BILLING DETAILS

Amount in Rs.

Billed Demand (KVA)	227	@ Rs.	270	Demand Charges	61,290.00
Assessed P.F.		Avg. P.F.	.999	Wheeling Charges @ 0.82 Rs/U	38,679.40
Billed P.F.	.999	L.F.	19	Energy Charges	4,27,831.90
Consumption Type	Units	Rate	Charges Rs.	TOD Tariff EC	-12,952.20
Industrial	0	9.07	0.00	FAC @ 18 Ps/U	8,490.60
Residential	0	5.82	0.00	Electricity Duty	0.00
Commercial	47,170	9.07	427,831.90	Other Charges	0.00
E.D. on (Rs.)	Rate %	Amount Rs.		Tax on Sale @ 8 Ps/U	3,773.00
	9.3			P.F. Penal Charges / P.F.Incentive	-36,633.78
	16			Charges For Excess Demand	0.00
	21				0.00
TOD Tarrifs	Rate (Rs/Unit)	Units	Demand	Charges Rs.	
0000 Hrs-0600 Hrs & 2200 Hrs-2400 Hrs	- 1.50	18,688	95.00	28,032.00	Debit Bill Adjustment
0600 Hrs-0900 Hrs & 1200 Hrs-1800 Hrs	0.00	13,435	166.00	0.00	TOTAL CURRENT BILL
0900 Hrs-1200 Hrs	0.80	4,910	167.00	3,928.00	Current Interest 05/09/2018
1800 Hrs-2200 Hrs	1.10	10,138	105.00	11,151.80	Principal Arrears
					Interest Arrears
					Total Bill Amount (Rounded) Rs.
					4,90,480.00
Amount In Words	₹ FOUR LAKH NINETY THOUSAND FOUR HUNDRED EIGHTY ONLY			Delayed Payment Charges Rs.	6,130.99
				Amount (Rounded) Payable After (Amount Rounded to Nearest Rs. 10/-)	21-09-2018
					496610

Toll Free Numbers of 24 X 7 Call Center of MSEDCL are changed. Consumers can dial any of the toll free numbers i.e. 1912, 1800-102-3435, 180 233-3435 to reach MSEDCL Call Center.

Total Solar Generation Units : 31080; Rooftop Solar Units Export : 3525, Import : 50695, Adjusted : 3525, Bank : 0; Rooftop Solar Capacity : 400 KW Cr Adj. Rs. 4043 of type PROMPT PAYMENT DISCOUNT ;

\*\*\*\* PROMPT DISCOUNT Rs. 4867 IF PAID ON OR BEFORE 12-SEP-18;

Tariff Revised w.e.f 01-04-2018

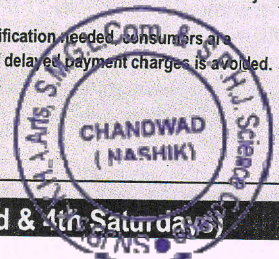
Solar unit used  
Generation 31080  
 To to MSFB - 3525  
27555

MSEB unit used  
 Import 50695  
 from solar 3525  
47170

Total Unit 27555 + 47170 = 74725

### CONDITIONS

1. The total bill amount of the bill may be remitted by a Crossed Demand Draft/Cheque drawn in favor of " Maharashtra State Electricity Distribution Co. Ltd." Whenever Security Deposit is demanded separate Cheque / Bank Draft should be sent.
2. The current bill is payable within fifteen days from the date of issue of the bill. Even if there is any discrepancy in the bill or any other clarification needed, consumers are requested to pay the billed amount in full provisionally or under protest subject to review and subsequent adjustment, so that payment of delayed payment charges is avoided.
3. This bill is issued subject to the provision of the "Conditions and Miscellaneous charges for supply of Electrical Energy" of the company.
4. Please quote the Consumer Number on the back of the Cheque. The payment of this bill should be made at Company's office only.
5. If the cheque is sent by post, the same should be posted three clear days in advance of the due date.
6. If paid by Cheque/DD/Pay Order, then the Realization date will be considered as payment date.



Collection Hours : 10-30 to 16-00 Hours ( Except on Bank Holidays, Sundays, 2nd & 4th Saturdays)

## Maharashtra State Electricity Distribution Co. Ltd.

**MAHA**  
CIN : U40109MH2005SGC153645

BILL OF SUPPLY FOR THE MONTH OF

SEP 2018

201809659593823

GSTIN: 27AAECM2933K1ZB

Website : www.mahadiscom.in

HSN CODE: 27160000

Consumer No. : 059739009400	Consumer Name : M/S NEMINA	Address : NEMINAGAR CHANDWAD DIST NASIK	NASIK URBAN CIRCLE 595	CHANDWAD DN 601 D	CHANDWAD SUB-DIVN 254
Village : NEMINAGAR	Pin Code : 422303	BILL DATE 08-10-2018 ₹ 7,74,580.00			
		DUE DATE 22-10-2018 ₹ 7,71,710.00			
		IF PAID UPTO 15-10-2018 ₹ 7,71,710.00			
		IF PAID AFTER 22-10-2018 ₹ 7,84,260.00			
		Last Receipt No./Date : 0009377908 / 11-09-2018			
		Last Month Payment : 4,85,649.50			
		Scale / Sector : Small Scale			

Bill No. 771710

E-mail : tatiyakd@gmail.com	Activity :
Mobile No. : 9273909860	Meter No. : 055 - X0364377
Tariff : 146 HT-IX B	Connected Load (KW) : 500.00
Contract Demand (KVA) : 350	50% of Con. Demand (KVA) : 175.00
Sanctioned Load (KW) : 500	old trf HT-IX B
Date of Connection : 19-08-1998	Category : PUBL. SERVICES OTH
Supply at : HT	Elec. Duty : 49 PART H
Prev. Highest (Mth) : OCT	Bill Demand (KVA) : 253
Security Deposit Held Rs. : 6.65,000.00	Addl. S.D. Demanded Rs. : 0.00
Bank Guarantee Rs. : 0.00	S. D. Arrears Rs. : 0.00

Activity :	Seasonal :	Load Shed Ind :	OTHER
Urban/Rural Flag :	R	Express Feeder Flag :	No
Feeder Voltage (KV) :	11	LIS Indicator :	

Maintain Harmonic distortion within limit as prescribed by IEEE STANDARD 519-1992 to avoid penalty

Avail Power factor incentive up to 7% maintaining power factor above 95% to 100%

Avail load factor incentive up to 15% by maintaining constant load profile.

Avail 1% prompt payment discount by paying bills within prompt payment date.

Bill Month	Units	Bill Demand (KVA)	Bill Amount
AUG-18	47,170	227	4,90,480
JUL-18	38,788	227	4,07,364
JUN-18	22,725	227	2,66,219
MAY-18	24,245	227	2,78,222
APR-18	32,900	227	3,54,138
MAR-18	28,765	227	3,11,546
FEB-18	11,840	227	1,67,010
JAN-18	26,920	227	2,96,877
DEC-17	56,199	227	5,58,517
NOV-17	62,904	227	6,11,877
OCT-17	59,515	253	5,66,081
SEP-17	79,907	303	7,68,409

CUSTOMER CARE Toll Free No.  
1912, 1800-233-3435,  
~~1912-233-3435~~

IGRC: Internal Grievance Redressal Forum, Vidyut Bhavan, Bytco Point, Nashik Road 422101, Phone - 02532462491  
In case of non-redressal of grievance here, consumer may make his representation to below forum  
CGRF: Consumer Grievance Redressal Forum, Kharbanda Park, 1st Floor, Room No 115-118, Dwarka, Nashik 422011, Phone - 02536526484

PAID AND  
Dt. 11/10/18  
CANCELLED

For making Energy Bill payment through RTGS/NEFT mode, use following details

- Beneficiary Name: MSEDCL
- Beneficiary Account Number: MSEDCL01059739009400
- IFS Code: YESB0CMSNOC (fifth character is zero and tenth character is "0")
- Name of Bank: Yes Bank
- Name of Branch: CMS NATIONAL OPERATING CENTRE MMR

Disclaimer: Please use above bank details only for payment against consumer number mentioned in beneficiary account number.

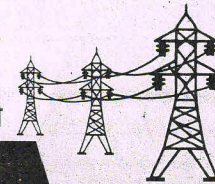
Chief Engineer (Commercial)  
Maharashtra State Electricity Distribution Co. Ltd.  
E. & O.E. and Subject to Conditions overleaf

आता नवीन  
औद्योगिक वीज जोडणी  
अधिक सुलभतेने

Ease of doing business

नवीन वीज जोडणीसाठी  
गरज केवळ दोनच दस्तऐवजाची

- मालकी हक्क / वाहिवाटीचा पुरावा
  - जिल्हा उद्योग केंद्राचे प्रमाणपत्र
- सर्व प्रक्रिया ऑनलाईन (अर्ज भरणे, डिमांड नोटचा भरणा)



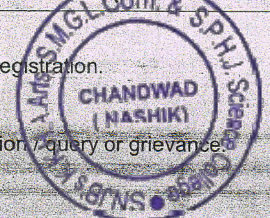
संपर्क :

महावितरणाच्या [www.mahadiscom.in](http://www.mahadiscom.in)  
या संकेतस्थळावरील ग्राहक वेब स्वयंसेवा  
किंवा महावितरण मोबाइल ॲपचा वापर करावा

## Important Message

- Consumers can pay online using Net banking, Credit/Debit cards at <https://wss.mahadiscom.in/wss/wss> after registration.
- Submit / update your E-mail id and mobile number to Circle Office for receiving prompt alerts through SMS.
- Submit / update your PAN & GSTIN to circle office with copies of PAN & GSTIN for verification.
- Special desk is operational for HT Consumers, please contact : [htconsumers@mahadiscom.in](mailto:htconsumers@mahadiscom.in) for any clarification / query or grievance.

विश्वस्त  
महानगर नवीन ब्राह्मचर्याश्रम



### CURRENT CONSUMPTION DETAILS

Reading Date	KWH	KVAH	RKVAH (LAG)	RKVAH (LEAD)	KW (MD)	KVA (MD)
Current 30-09-2018	71152.000	71786.000	3013.500	4835.000	41.840	42.140
Previous 31-08-2018	63861.500	64482.000	2901.500	4688.500		
Difference	7290.500	7304.000	112.000	146.500		
Multiplying Factor	5.0000	5.0000	5.0000	5.0000	5.000	5.0000
Consumption	36452.500	36520.000	560.000	732.500	209.200	210.700
Add if L. T. Metering	0.000	0.000	0.000	0.000	0.000	0.000
Adjustment -Solar Units	-16390.000	0.000	0.000	0.000		
Assessed Consumption	0.000	0.000	0.000	0.000		
Total Consumption	20063.000	36520.000	560.000	733.000	209.000	211.000

### BILLING DETAILS

				Amount in Rs.		
Billed Demand (KVA)	211	@ Rs.	350	Demand Charges	73,850.00	
Assessed P.F.		Avg. P.F.	.999	Wheeling Charges @ 0.78 Rs/U	15,649.14	
Billed P.F.	.999	L.F.	14	Energy Charges	1,93,607.95	
Consumption Type	Units	Rate	Charges Rs.	TOD Tariff EC	-6,046.50	
Industrial	0	9.65	0.00	FAC @ 51 Ps/U	10,232.13	
Residential	0	5.73	0.00	Electricity Duty	60,331.48	
Commercial	20,063	9.65	193607.95	Other Charges	0	
E.D. on (Rs.)	Rate %	Amount Rs.		Tax on Sale @ 8 Ps/U	1,605.04	
	9.3			P.F. Penal Charges / P.F.Incentive	0.00	
	16			Charges For Excess Demand	0.00	
	21	60331.47			0.00	
2,87,292.72						
TOD Tariffs.	Rate (Rs/Unit)	Units	Demand	Charges Rs.		
0000 Hrs-0600 Hrs & 2200 Hrs-2400 Hrs	- 1.50	10,686	98.00	- 16,029.00	Debit Bill Adjustment	4,25,386.81
0600 Hrs-0900 Hrs & 1200 Hrs-1800 Hrs	0.00	303	211.00	0.00	TOTAL CURRENT BILL	7,74,616.05
0900 Hrs-1200 Hrs	0.80	0	161.00	0.00	Current Interest 06/10/2018	0.00
1800 Hrs-2200 Hrs	1.10	9,075	121.00	9,982.50	Principal Arrears	-34.20
					Interest Arrears	0.00
Amount In Words	₹ SEVEN LAKH SEVENTY-FOUR THOUSAND FIVE HUNDRED EIGHTY ONLY				Total Bill Amount (Rounded) Rs.	7,74,580.00
Electricity Duty Sept 2016					Delayed Payment Charges Rs.	9,682.70
					Amount (Rounded) Payable After 22-10-2018 (Amount Rounded to Nearest Rs. 10/-)	784260

Toll Free Numbers of 24 X 7 Call Center of MSEDCL are changed. Consumers can dial any of the toll free numbers i.e. 1912, 1800-102-3435, 1800-233-3435 to reach MSEDCL Call Center.

Total Solar Generation Units : 45210; Rooftop Solar Units Export : 16390, Import : 36453, Adjusted : 16390, Bank : 0; Rooftop Solar Capacity : 400 Kw., Cr Adj. Rs. 4867 of type PROMPT PAYMENT DISCOUNT ; Dr Adj. Rs. 425386.81 of type Past Billing(Current Financial Year); included in the bill;; OLD PERIOD RATIO : 0 NEW PERIOD RATIO : 1; IND UNITS OLD : 0 COM UNITS OLD : 0 DOM UNITS OLD : 0 IND UNITS NEW : 0 COM UNITS NEW : 20063 DOM UNITS NEW : 0;

\*\*\*\* PROMPT DISCOUNT Rs. 2873 IF PAID ON OR BEFORE 15-OCT-18;

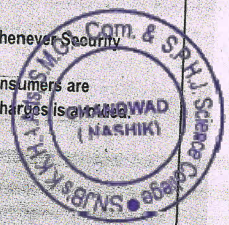
Tariff Revised w.e.f 01-09-2018  
solar unit used  
 Generation 45210  
 To to MSERB 16390  
28820

MSERB unit used  
 Import 36453  
 from solar 16390  
20063

Total unit 28820 + 20063 = 48883

### CONDITIONS

1. The total bill amount of the bill may be remitted by a Crossed Demand Draft/Cheque drawn in favor of " Maharashtra State Electricity Distribution Co. Ltd." Whenever Security Deposit is demanded separate Cheque / Bank Draft should be sent.
2. The current bill is payable within fifteen days from the date of issue of the bill. Even if there is any discrepancy in the bill or any other clarification needed, consumers are requested to pay the billed amount in full provisionally or under protest subject to review and subsequent adjustment, so that payment of delayed payment charges is avoided.
3. This bill is issued subject to the provision of the "Conditions and Miscellaneous charges for supply of Electrical Energy" of the company.
4. Please quote the Consumer Number on the back of the Cheque. The payment of this bill should be made at Company's office only.
5. If the cheque is sent by post, the same should be posted three clear days in advance of the due date.
6. If paid by Cheque/DD/Pay Order, then the Realization date will be considered as payment date.



Collection Hours : 10-30 to 16-00 Hours ( Except on Bank Holidays, Sundays, 2nd & 4th Oct )

3492291-1  
 22-2016  
 31/9/2018

Consumer No. 059739009400	M/S NEMINA	BILL DATE	10-11-2018	11,90,330.00
Consumer Name M/S NEMINATH JAIN BRAHMACHARYA ASHRAM		DUE DATE	24-11-2018	
Address : NEMINAGAR CHANDWAD DIST NASIK		IF PAID UPTO	16-11-2018	11,84,770.00
		IF PAID AFTER	24-11-2018	12,05,210.00
		Last Receipt No./Date	0000012457 / 11-10-2018	
		Last Month Payment		7,71,710.00
Village : NEMINAGAR	Pin Code : 422303	Scale/Sector	: Small Scale	

Email ID : tatiyakd@gmail.com	Activity :			
Mobile No.: 9273909860	Meter No. : 055 - X0364377	Seasonal	Load Shed Ind	OTHER
Tariff 146 HT-IX B	Connected Load (KW) : 500.00	Urban/Rural Flag : R	Express Feeder Flag :	No
Contract Demand (KVA) : 350	50% of Con. Demand(KVA) 175.00	Feeder Voltage (KV) : 11	LIS Indicator :	
Sanctioned Load (KW) : 500	old trf HT-IX B			

Date of Connection : 19-08-1998	Category : PUBL. SERVICES OTH	GSTIN :
Supply at: HT	Elec. Duty 06 PART B	PAN : AABTS8423J
High. Highest (Mth) SEP	Bill Demand (KVA) 211	
Security Deposit Held Rs. 6,65,000.00	Addl. S.D. Demanded Rs. 0.00	
Bank Guarantee Rs. : 0.00	S.D. Arrears Rs. : 0.00	

Maintain Harmonics distortion within limit as prescribed by IEEE STANDARD 519-1992 to avoid penalty

Avail Power factor incentives up to 7% maintaining power factor above 95% to 100%

Avail load factor incentive up to 15 % by maintaining constant load profile.

Avail 1% prompt payment discount by paying bills within prompt payment date.

BILLING HISTORY			
Bill Month	Units	Bill Demand(KVA)	Bill Amount
SEP-18	20,063	211	7,74,616
AUG-18	47,170	227	4,90,480
JUL-18	38,788	227	4,07,364
JUN-18	22,725	227	2,66,219
MAY-18	24,245	227	2,78,222
APR-18	32,900	227	3,54,138
MAR-18	28,765	227	3,11,546
FEB-18	11,840	227	1,67,010
JAN-18	26,920	227	2,96,877
DEC-17	56,199	227	5,58,517
NOV-17	62,904	227	6,11,877
OCT-17	59,515	253	5,66,081

**CUSTOMER CARE Toll Free No.**  
 1912, 1800-233-3435,  
 1800-102-3435

IGRC: Internal Grievance Redressal Forum, Vidyut Bhavan, Bytco Point, Nashik Road 422101, Phone - 02532462491

In case of non-redressal of grievance here, consumer may make his representation to below forum

CGRF: Consumer Grievance Redressal Forum, Kharbanda Park, 1st Floor, Room No 115-118, Dwarka, Nashik 422011, Phone - 02536526484

**PAID AND**

**DT. 15/11/18  
 CANCELLED**

Making Energy Bill payment through RTGS/NEFT mode, use following details  
 o Beneficiary Name: MSEDCL  
 o Beneficiary Account Number: MSEDCL01059739009400  
 o IFS Code: YESB0CMSNOC (fifth character is zero and tenth character is "O")  
 o Name of Bank: Yes Bank  
 o Name of Branch: CMS NATIONAL OPERATING CENTRE MMR

Disclaimer: Please use above bank details only for payment against consumer number mentioned in beneficiary account number.

Chief Engineer(Commercial)  
 E. & O.E. and subject to conditions

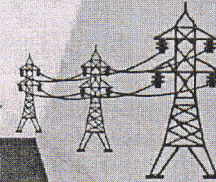
*Sharad*

**आता नवीन  
 औद्योगिक वीज जोडणी  
 अधिक सुलभतेने**

*Ease of doing business*

**नवीन वीज जोडणीसाठी  
 गरज केवळ दोनच दस्तऐवजाची**

- \* मालकी हक्क / वाहिवाटीचा पुरावा
  - \* जिल्हा उद्योग केंद्राचे प्रमाणपत्र
- सर्व प्रक्रिया ऑनलाईन (अर्ज भरणे, डिमांड नोटचा भरणे)



संपर्क :

महावितरणाच्या [www.mahadiscom.in](http://www.mahadiscom.in)  
 या संकेतस्थळावरील ग्राहक वेब स्वयंसेवा  
 किंवा महावितरण मोबाईल ॲपचा वापर करावा

**Important Message**

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- o Submit / update your E-mail id and mobile number to Circle office for receiving prompt alerts through SMS.
- o Submit / update your PAN and GSTIN to circle office with copies of PAN and GSTIN for verification.
- o Special desk is operational for HT Consumers, please contact : [htconsumer@mahadiscom.in](mailto:htconsumer@mahadiscom.in) for any clarification / query or grievance.







# Maharashtra State Electricity Distribution Co. Ltd

**BILL OF SUPPLY FOR THE MONTH OF OCT 2018**

201810759596475

GSTIN:27AAECM2933K1ZB

Website:www.mahadiscom.in

HSN CODE:27160000

NASIK URBAN CIRCLE 595

CHANDWAD DN 601 D

CHANDWAD SUB-DIVN. 254

1

Consumer No. 059739009400	M/S NEMINA	BILL DATE 10-11-2018	11,90,330.00
Consumer Name M/S NEMINATH JAIN BRAHMACHARYA ASHRAM		DUE DATE 24-11-2018	
Address : NEMINAGAR CHANDWAD DIST NASIK		IF PAID UPTO 16-11-2018	11,84,770.00
		IF PAID AFTER 24-11-2018	12,05,210.00
		Last Receipt No./Date 0000012457 / 11-10-2018	
		Last Month Payment	7,71,710.00
Village : NEMINAGAR	Pin Code : 422303	Scale/Sector : Small Scale	

Email ID : tatiyakd@gmail.com	Activity :			
Mobile No.: 9273909860	Meter No. : 055 - X0364377	Seasonal	Load Shed Ind	OTHER
Tariff 146 HT-IX B	Connected Load (KW) : 500.00	Urban/Rural Flag : R	Express Feeder Flag :	No
Contract Demand (KVA) : 350	50% of Con. Demand(KVA) 175.00	Feeder Voltage (KV) : 11	LIS Indicator :	
Sanctioned Load (KW) : 500	old trf HT-IX B			

Date of Connection : 19-08-1998	Category : PUBL. SERVICES OTH	GSTIN :
Supply at: HT	Elec. Duty 06 PART B	PAN : AABTS8423J
High (Mth) SEP	Bill Demand (KVA) 211	
Security Deposit Held Rs. 6,65,000.00	Addl. S.D. Demanded Rs. 0.00	
Bank Guarantee Rs. : 0.00	S.D. Arrears Rs. : 0.00	

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CUSTOMER CARE Toll Free No.  
1912, 1800-233-3435,  
1800-102-3435

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PAID AND  
Dt. 15/11/18  
CANCELLED

- Making Energy Bill payment through RTGS/NEFT mode, use following details
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  - Beneficiary Account Number: MSEDCL01059739009400
  - IFS Code: YESB0CMSNOC (fifth character is zero and tenth character is "O")
  - Name of Bank: Yes Bank
  - Name of Branch: CMS NATIONAL OPERATING CENTRE MMR

Disclaimer: Please use above bank details only for payment against consumer number mentioned in beneficiary account number.

Chief Engineer(Commercial)  
E. & O.E. and subject to conditions

**आता नवीन औद्योगिक वीज जोडणी अधिक सुलभतेने**

*Ease of doing business*

**नवीन वीज जोडणीसाठी गरज केवळ दोनच दस्तऐवजाची**

- \* मालकी हक्क / वाहिवाटीचा पुरावा
- \* जिल्हा उद्योग केंद्राचे प्रमाणपत्र

सर्व प्रक्रिया ऑनलाईन (अर्ज भरणे, डिमांड नोटचा भरणा)

संपर्क :  
महावितरणच्या [www.mahadiscom.in](http://www.mahadiscom.in)  
या संकेतस्थळावरील ग्राहक वेब स्वयंसेवा किंवा महावितरण मोबाईल अ‍ॅपचा वापर करावा

### Important Message

- Consumers can pay online using Net Banking, Credit/Debit cards at <https://wss.mahadiscom.in/wss/wss> after registration.
- Submit / update your E-mail id and mobile number to Circle office for receiving prompt alerts through SMS.
- Submit / update your PAN and GSTIN to circle office with copies of PAN and GSTIN for verification.
- Special desk is operational for HT Consumers, please contact : [htconsumer@mahadiscom.in](mailto:htconsumer@mahadiscom.in) for any clarification / query or grievance.



### CURRENT CONSUMPTION DETAILS

Reading Date	KWH	KVAH	RKVAH (LAG)	RKVAH (LEAD)	KW (MD)	KVA (MD)
Current 31-10-2018	82062.500	82727.500	3251.500	15450.500	46.400	47.020
Previous 01-10-2018	71152.000	71786.000	3013.500	13479.500		
Difference	10910.500	10941.500	238.000	1971.000		
Multiplying Factor	5.0000	5.0000	5.0000	5.0000	5.000	5.0000
Consumption	54552.500	54707.500	1190.000	9855.000	232.000	235.100
LT Metering	0.000	0.000	0.000	0.000	0.000	0.000
Adjustment-Solar Units	-11523.000	0.000	0.000	0.000		
Assessed Consump	0.000	0.000	0.000	0.000		0.000
Total Consumption	43030.000	54708.000	1190.000	9855.000	232.000	235.000

### BILLING DETAILS

				Amount in Rs
Billed Demand (KVA)	235	@ Rs.	350	Demand Charges 82,250.00
Assessed P.F.		Avg. P.F.	.980	Wheeling Charge @ 0.78 Rs/U 33,563.40
Billed P.F.	.980	L.F.	21	Energy Charges 4,15,239.50
Consumption Type	Units	Rate	Charges Rs.	TOD Tariff EC -15,952.00
Industrial	0	9.65	0.00	FAC @ 96 Ps/U 41,308.80
Residential	0	5.73	0.00	Electricity Duty 1,16,846.04
Commercial	43,030	9.65	415239.50	Other Charges 0.00
E.D. on (Rs.)	Rate %	Amount Rs.		Tax on Sale @ 8 Ps/U 3,442.40
	9.3			P.F. Penal Charges/P.F. Inc. 0.00
	16			Charges For Excess Demand 0.00
5,56,409.70	21	116846.04		
TOD Zone	Rate	Units	Demand	Charges Rs.
0000 Hrs-0600 Hrs & 2200 Hrs-2400 Hrs	- 1.50	20,300	117.00	30,450.00
0600 Hrs-0900 Hrs & 1200 Hrs-1800 Hrs	0.00	9,549	224.00	0.00
0900 Hrs - 1200 Hrs	0.80	0	235.00	0.00
1800 Hrs-2200 Hrs	1.10	13,180	134.00	14,498.00
Debit Bill Adjustment				5,13,635.25
TOTAL CURRENT BILL				11,90,333.39
Current Interest 05/11/2018				0.00
Principle Arrears				-1.15
Interest Arrears				0.00
Total Bill (Rounded) Rs.				11,90,330.00
Delayed Payment Charges Rs.				14,879.17
Amount Payable After 24-11-2018				1205210
				Amount Rounded to Nearest Rs.(10/-)
Amount in Words	ELEVENLAKH NINETY THOUSAND THREE HUNDRED THIRTY ONLY			

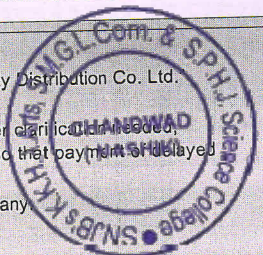
Total Solar Generation Units : 45950; Rooftop Solar Units Export : 11523, Import : 54553, Adjusted : 11523, Bank : 0; Rooftop Solar Capacity : 400 KW; Cr Adj. Rs. 2873 of type PROMPT PAYMENT DISCOUNT ; Dr Adj. Rs. 513635.25 of type Past Billing (Current Financial Year); included in the bill; \*\*\*\* PROMPT DISCOUNT Rs. 5564 IF PAID ON OR BEFORE 16-NOV-18;

Tariff Revised w.e.f 01-09-2018

#### CONDITIONS

- The total bill amount of the bill may be remitted by a Crossed Demand Draft/Cheque drawn in favor of "Maharashtra State Electricity Distribution Co. Ltd. Whenever Security Deposit is demanded separate Cheque/Bank Draft should be sent.
- The current bill is payable within fifteen days from the date of issue of the bill. Even if there is any discrepancy in the bill or any other clarification needed, consumers are requested to pay the billed amount in full provisionally or under protest subject to review and subsequent adjustment, so that payment is not delayed.
- This bill is issued subject to the provision of the "Conditions and Miscellaneous charges for supply of Electrical Energy" of the company.
- Please quote the Consumer Number on the back of the Cheque. The payment of this bill should be made at Company's office only.
- If the cheque is sent by post, the same should be posted three clear days in advance of the due date.
- If paid by Cheque/DD/Pay Order, then the Realization date should be considered as payment date.

**Collection Hours : 10-30 to 16-00 Hours ( Except on Bank Holidays, Sundays, 2nd and 4th Saturdays)**





**PowerTech Energy Solutions**  
Conserve to Consume

# Energy & Green Audit Report Of SNJB's Karmveer Keshavlalji Harakchandji Abad ARTS, Shriman Motilalji Giridharilalji Lodha COMMERCE and Shriman P.H. Jain SCIENCE College, Chandwad, Nashik



Submitted By

**PowerTech Energy Solutions**

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Mumbai Office: Shop No.39, Gokul Nagri 1, Thakur Complex, 90 Feet Road, Kandivali (E), Mumbai. 400101  
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[www.ptesolutions.co.in](http://www.ptesolutions.co.in)

## ENERGY & GREEN AUDIT COMPLETION CERTIFICATE

This is to certify that following utility has carried out Energy & Green Audit as per guidelines laid down in The Energy Conservation Act, 2001 in the month of January 2019

<b>Name of the Installation</b>	SNJB's Karmveer Keshavlalji Harakchandji Abad ARTS, Shriman Motilalji Giridharilalji Lodha COMMERCE and Shriman P.H. Jain SCIENCE College, Chandwad, Nashik
<b>Details of Facilities Audited</b>	Main college building including laboratories, libraries, etc.
<b>Date of Energy and Green Audit</b>	08 January 2019
<b>Name of Certified Energy Auditor</b>	Mr. Swapnil Gaikwad
<b>Certification No.</b>	EA 20121
<b>Validity of the Certificate</b>	07 January 2019



Signature of Auditor



## Executive Summary – Energy Audit

Sr. No	Area	Proposed Action	Expected Result	Monthly Energy Savings in kWh	Annual Reduction in CO <sub>2</sub> emission in Tons	Monthly Cost Savings in Rs	Investment in Rs.	Payback Period in Months
1	Lighting	R Replace the existing 36 W FTL tube lights into 18 W LED tubes	<ul style="list-style-type: none"> <li>• Total No. of light fittings = 37 Nos.</li> <li>• Total No. of Light fitting presently operated= 37 Nos.</li> <li>• Total No. of light fittings to be replace= 37 Nos.</li> <li>• Present Energy Consumption = 204 kWh</li> <li>• Expected Energy Consumption = 102kWh</li> <li>• Total Energy Saved per Month = 204-102= 102 kWh</li> </ul>	102	0.99	854	14060	16.4
2	Ceiling Fan	Replace existing 78 watt conventional ceiling fans with 40 watt energy efficient fans	<ul style="list-style-type: none"> <li>• Total No. of ceiling fans present = 142 Nos.</li> <li>• Total No. of ceiling fans presently operated= 142 Nos.</li> <li>• Total No. of ceiling fans to be replace= 142 Nos.</li> <li>• Present Energy Consumption = 1139kWh</li> <li>• Expected Energy Consumption = 579 kWh</li> <li>• Total Energy Saved per Month = 1139-579= 579 kWh</li> </ul>	579	4.6	4618	255600	55
<b>Total</b>				<b>681</b>	<b>5.59</b>	<b>5472</b>	<b>269600</b>	<b>71.4</b>

## Executive Summary – Green Audit

Sr.No	Area	Observations	Remark
1	Tree Plantation	College has carried out tree plantation activity. Several type of trees has been planted by students and staffs	Good initiative taken by college toward green campus
2	Use of renewable energy – Solar PV system for power generation	Solar PV system of 7.2 kW has been installed by college to generate the electricity from solar energy. It helps to reduce 7.8 tons of CO2 emission annually	Good initiative taken by college towards use of renewable energy
3	Rain Water Harvesting	Rain water harvesting system is developed by college. It helps to save the water and use for future use	Good initiative taken by college towards water conservation
4	Vermicomposting Plant	College has developed vermicompost plant which is managed by Botany department. Generated compost is used for tress, gardening in college camps	Good imitative taken by college towards solid waste management
5	E waste Management	At present, E -waste generated by college collected or distributed to other required departments	College shall ensure that e-waste generated by them is channelised through collection centre or dealer of authorised producer or dismantler or recycler
6	Plastic and Paper free campus	Till date, college has not issued any notification for plastic free and paper free campus. However staff and students are taking initiatives to reduce the use of plastic and papers in college campus	Management should make policy to avoid the use of plastic and paper wherever possible and publish to the student's staffs, etc.

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## **Acknowledgement**

PowerTech Energy Solutions extends gratitude to SNJB's Karmveer Keshavlalji Harakchandji Abad ARTS, Shriman Motilalji Giridharilalji Lodha COMMERCE and Shriman P.H. Jain SCIENCE College, Chandwad, Nashik for extending us the opportunity to conduct the Energy & Green Audit.

We are thankful to the professors & supporting staff of the college for their transparency & consistent support in sharing relevant information and for providing data about policies and projects along with their other valuable information. This report would have not been possible without their support.

The study team would like to acknowledge the following distinguished personnel's of Sir Visvesvaraya Institute Of Technology in person for the diligent involvement and cooperation.

Prof. Dr. G.H.Jain

Principal

Prof. Madhukar P. Zanje

Department of Mathematics



### About College

Shri. Neminath Jain Brahmacharyashrams Karmvir Keshavlalji Harakchandji Abad Arts and Shriman Motilalji Girdharilalji Lodha Commerce College, Chandwad was established in 1970. It is affiliated to University of Pune and is recognized under 2f and 12b. It caters to the educational needs of students dwelling in rural areas around Chandwad taluka. It provides graduation courses in Arts and Commerce. In the academic year 2010-11 it opened up avenue for graduation in Science.

At present, students can opt for B.A. with any of the following special subjects- History, Economics, Politics, Marathi and English. The subject Geography is taught at general level. Along with those courses the college has introduced Self Employment based Short term courses for girl students and women in the town. There is a separate gymnasium for boys and girls.

The college has been sanctioned an N.S.S. unit with 250 volunteers. The departments organizing curricular, co-curricular, student's welfare and social activities are as follows.

Commerce Association, Social Sciences Association, Literary Association, Students' welfare Association, Girls Forum, Soft Skills Development Centre, National Service Scheme and Gymkhana Association etc.

The College signed collaboration with Nigeria University, Nigeria for Research, Development and Academic interactions in the field of nanotechnology in April 2014. Dr. G.E. Patil, Department of Physics represented India in 6th HOPE Meeting with Nobel Laureates which was held in Tokyo, JAPAN in March, 2014.

### Mission

"Our ultimate aim is to link education with the entire society so that underprivileged and economically disadvantaged students are benefited and they could become self-reliant, ethically strong and law-abiding citizens."

### Vision

To achieve academic excellence, material and spiritual development of the students, to strengthen rational and scientific attitude among them and to make them well competent.

## Energy Audit

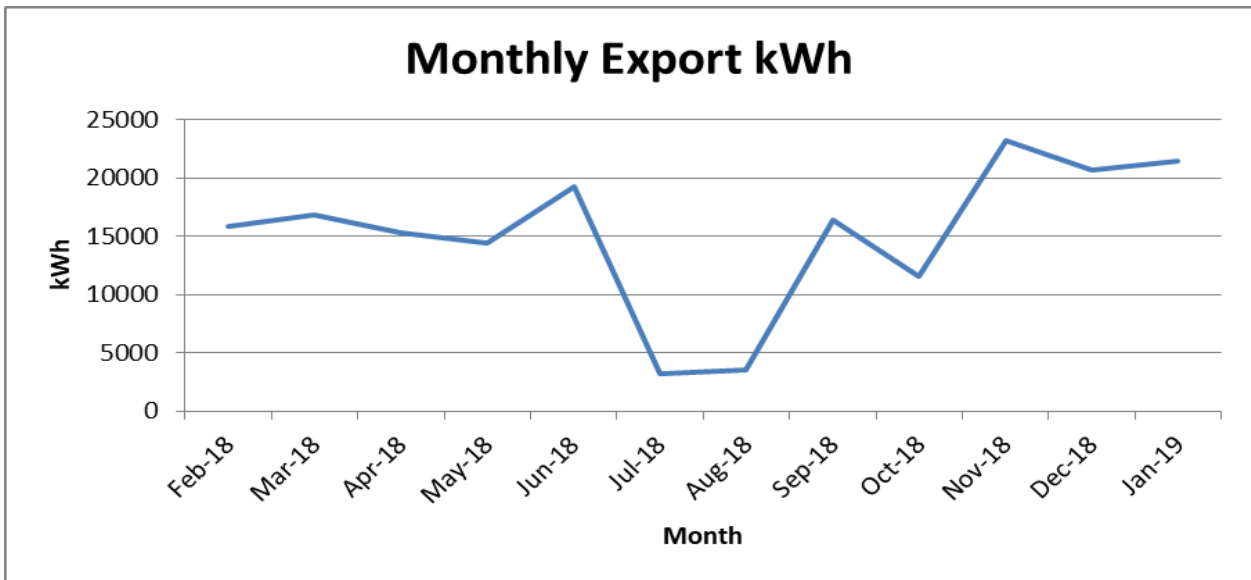
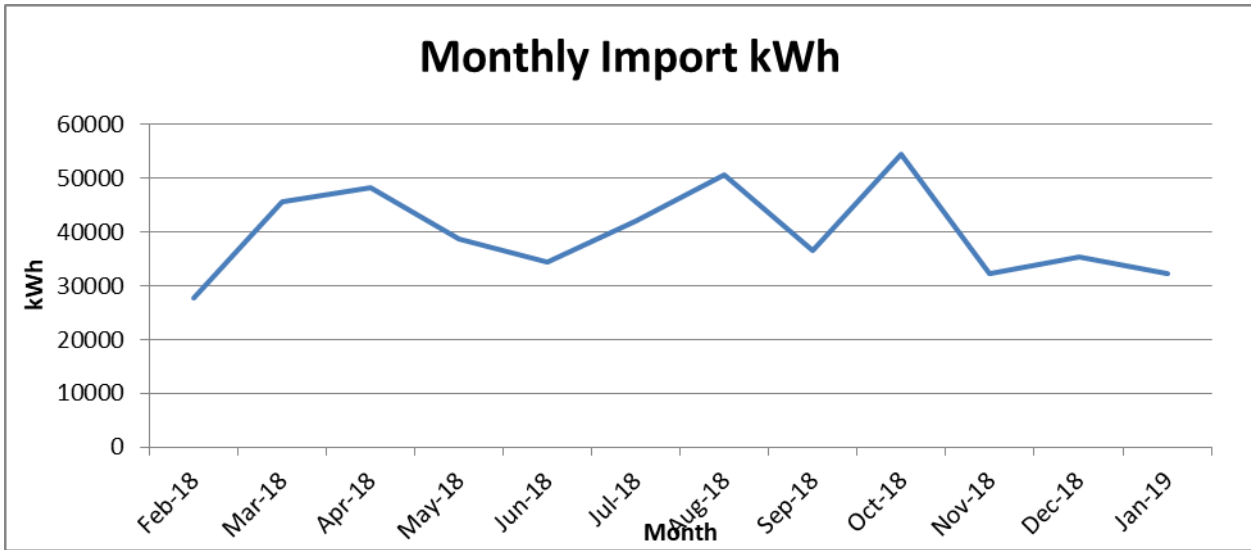
An energy audit is an inspection, survey and analysis of energy flows, for energy conservation in a building, process or system to reduce the amount of energy input into the system without negatively affecting the output(s). In commercial and industrial real estate, an energy audit is the first step in identifying opportunities to reduce energy expense and carbon footprints.

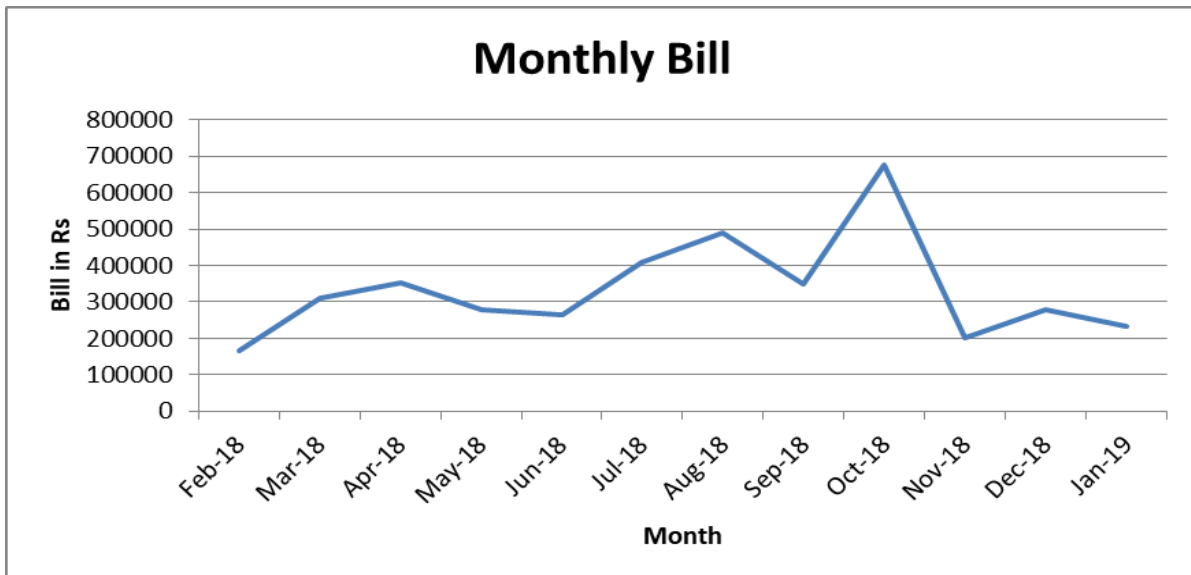
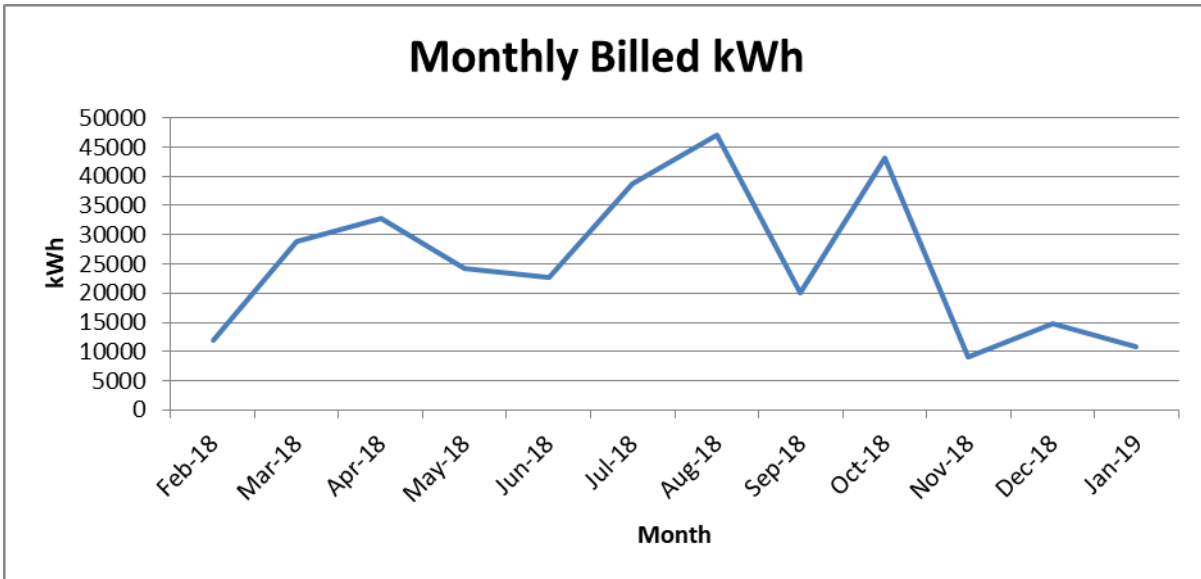
### Electricity Bill Analysis

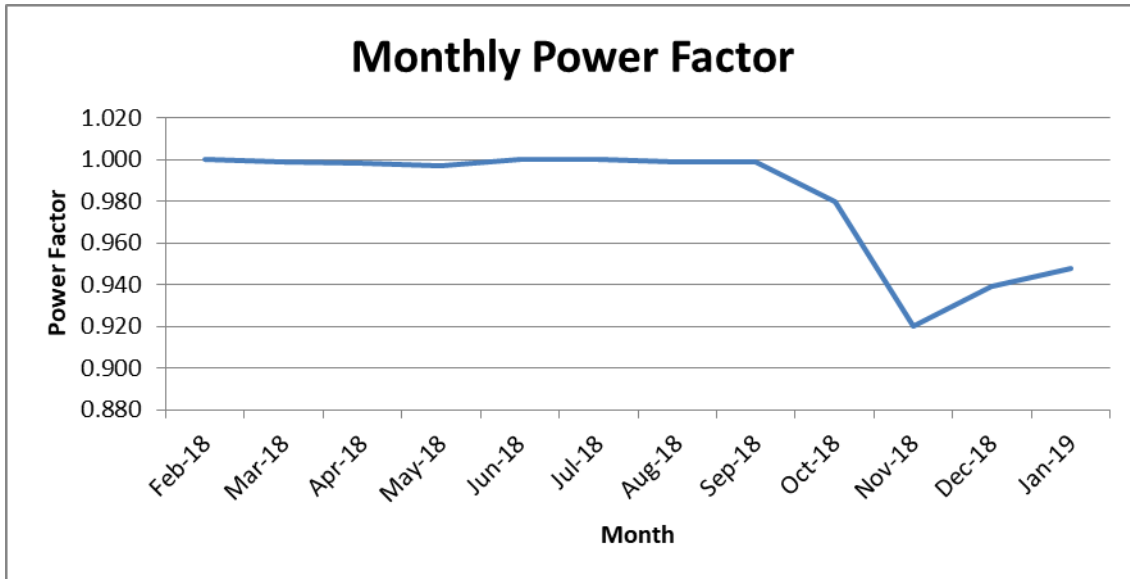
At present, one electricity meter is there for all campus

Bill analysis for consumer number 059739009400 shown below

Electricity Bill - Maharashtra State Electricity Distribution Co. Ltd						
<b>CONSUMER : M/S NEMINATH JAIN BRAHMACHARYA</b>						
<b>CONSUMER NO. :059739009400</b>						
<b>UTILITY : MSEDCL</b>						
<b>INCOMING VOLTAGE : 22 kv</b>						
<b>TARIFF : 146 HT-IX B</b>						
<b>CONNECTED LOAD (KW) : 500.00 KW</b>						
<b>CONTRACT DEMAND (KVA) :350.00</b>						
<b>50% OF CONTRACT DEMAND(KVA) : 175</b>						
MONTH	Import kWh	Export kWh	Billed KWH	PF	BILL(Rs)	Rate (Rs./kWh)
Feb-18	27635	15795	11840	1.000	167010.2	6.04
Mar-18	45635	16870	28765	0.999	311546.1	6.83
Apr-18	48245	15345	32900	0.998	354138.1	7.34
May-18	38695	14450	24245	0.997	278222.3	7.19
Jun-18	34425	19258	22725	1.000	266218.6	7.73
Jul-18	41983	3195	38788	1.000	407363.7	9.70
Aug-18	50695	3525	47170	0.999	490479.5	9.68
Sep-18	36453	16390	20063	0.999	349229.2	9.58
Oct-18	54553	11523	43030	0.980	676698.1	12.40
Nov-18	32243	23208	9035	0.920	201597.5	6.25
Dec-18	35318	20630	14688	0.939	277520.7	7.86
Jan-19	32173	21413	10760	0.948	233163.5	7.25
<b>Total</b>	<b>478053</b>	<b>181602</b>	<b>304009</b>		<b>4013188</b>	<b>8.39</b>
<b>Average</b>	<b>39838</b>	<b>15134</b>	<b>25334</b>	<b>0.982</b>	<b>334432</b>	







### Observations

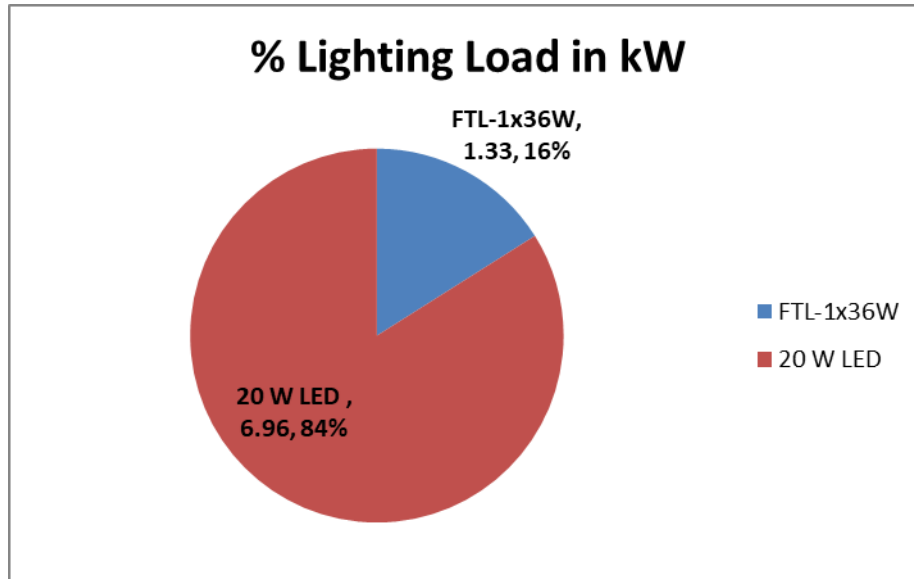
- Monthly average energy consumption is 39838 kWh
- Monthly average maximum demand is 76 kVA
- Monthly average power factor is 0.981 which can be improved to unity
- Monthly average electricity bill is Rs./- 3,34,432 only
- Avg. unit rate is 8.39 Rs./kWh

## Connected Load List – Lighting

Area	Type	Total Qty	On Qty	UF	Wattage	Daily Op hr	Load
Electronic Science	FTL-1x36W	1	1	1	36	6	0.036
Electronic Science	LED - 20W	9	9	1	20	6	0.18
Mathematics	FTL-1x36W	1	1	1	36	6	0.036
Mathematics	LED - 20W	2	2	1	20	6	0.04
Chemistry	FTL-1x36W	5	5	1	36	6	0.18
Chemistry	LED - 20W	60	60	1	20	6	1.2
Physics	FTL-1x36W	4	4	1	36	6	0.144
Physics	LED - 20W	28	28	1	20	6	0.56
Botony	FTL-1x36W	4	4	1	36	6	0.144
Botony	LED - 20W	39	39	1	20	6	0.78
Science Building	FTL-1x36W	5	5	1	36	6	0.18
Science Building	LED - 20W	40	40	1	20	6	0.8
Commercial Lab	FTL-1x36W	1	1	1	36	6	0.036
Commercial Lab	LED - 20W	2	2	1	20	6	0.04
Geography	FTL-1x36W	1	1	1	36	6	0.036
Geography	LED - 20W	4	4	1	20	6	0.08
Arts, Commerce & Science Building	FTL-1x36W	8	8	1	36	6	0.288
Arts, Commerce & Science Building	LED - 20W	123	123	1	20	6	2.46
Library	FTL-1x36W	2	2	1	36	6	0.072
Library	LED - 20W	18	18	1	20	6	0.36
Pricipal office	FTL-1x36W	2	2	1	36	6	0.072
Pricipal office	LED - 20W	4	4	1	20	6	0.08
Gynmasium	FTL-1x36W	2	2	1	36	6	0.072
Gynmasium	LED - 20W	10	10	1	20	6	0.2
DMLT	FTL-1x36W	1	1	1	36	6	0.036
DMLT	LED - 20W	9	9	1	20	6	0.18
<b>Total</b>		<b>385</b>	<b>385</b>				<b>8.292</b>

### Type wise lighting distribution in college

Type	Qty	Power in kW	%
FTL-1x36W	37	1.33	16%
20 W LED	348	6.96	84%



**Connected Load List – Fan**

Area	Type	Total Qty	On Qty	UF	Wattage	Daily Op hr.	Load
Electronic Science	Ceiling fan	7	7	1	78	4	0.546
Mathematics	Ceiling fan	2	2	1	78	4	0.156
Chemistry	Ceiling fan	18	18	1	78	4	1.404
Physics	Ceiling fan	19	19	1	78	4	1.482
Botany	Ceiling fan	0	0	1	78	4	0
Science Building	Ceiling fan	32	32	1	78	4	2.496
Commercial Lab	Ceiling fan	0	0	1	78	4	0
Geography	Ceiling fan	0	0	1	78	4	0
Arts, Commerce & Science Building	Ceiling fan	48	48	1	78	4	3.744
Library	Ceiling fan	8	8	1	78	4	0.624
Principal office	Ceiling fan	1	1	1	78	4	0.078
Gymnasium	Ceiling fan	5	5	1	78	4	0.39
DMLT	Ceiling fan	2	2	1	78	4	0.156
<b>Total</b>		<b>142</b>	<b>142</b>				<b>11.076</b>



## Energy Saving Measure 1 – Replacement of conventional lighting system into LED

Area	Type	Total Qty	On Qty	UF	Wattage	Daily Op hr.	Load	Mthly Kwh	Change	New Wattage	New Load	Mthly Kwh	Saving Kwh	Saving Rs	Unit Rate	Inv	Payback
Electronic Science	FTL-1x36W	2	2	1	36	6	0.072	11.016	1x18W Led Tube light	18	0.036	5.508	5.508	46.21212	380	760	16.4
Mathematics	FTL-1x36W	1	1	1	36	6	0.036	5.508	1x18W Led Tube light	18	0.018	2.754	2.754	23.10606	380	380	16.4
Chemistry	FTL-1x36W	13	13	1	36	6	0.468	71.604	1x18W Led Tube light	18	0.234	35.802	35.802	300.3788	380	4940	16.4
Physics	FTL-1x36W	7	7	1	36	6	0.252	38.556	1x18W Led Tube light	18	0.126	19.278	19.278	161.7424	380	2660	16.4
Botany	FTL-1x36W	8	8	1	36	6	0.288	44.064	1x18W Led Tube light	18	0.144	22.032	22.032	184.8485	380	3040	16.4
Science Building	FTL-1x36W	9	9	1	36	6	0.324	49.572	1x18W Led Tube light	18	0.162	24.786	24.786	207.9545	380	3420	16.4
Commercial Lab	FTL-1x36W	1	1	1	36	6	0.036	5.508	1x18W Led Tube light	18	0.018	2.754	2.754	23.10606	380	380	16.4
Geography	FTL-1x36W	2	2	1	36	6	0.072	11.016	1x18W Led Tube light	18	0.036	5.508	5.508	46.21212	380	760	16.4
Arts, Commerce &	FTL-1x36W	27	27	1	36	6	0.972	148.716	1x18W Led	18	0.486	74.358	74.358	623.8636	380	10260	16.4

## Energy & Green Audit Report

Area	Type	Total Qty	On Qty	UF	Wattage	Daily Op hr.	Load	Mthly Kwh	Change	New Wattage	New Load	Mthly Kwh	Saving Kwh	Saving Rs	Unit Rate	Inv	Payback
Science Building									Tube light								
Library	FTL-1x36W	12	12	1	36	6	0.432	66.096	1x18W Led Tube light	18	0.216	33.048	33.048	277.2727	380	4560	16.4
Principal office	FTL-1x36W	2	2	1	36	6	0.072	11.016	1x18W Led Tube light	18	0.036	5.508	5.508	46.21212	380	760	16.4
Gymnasium	FTL-1x36W	4	4	1	36	6	0.144	22.032	1x18W Led Tube light	18	0.072	11.016	11.016	92.42424	380	1520	16.4
DMLT	FTL-1x36W	2	2	1	36	6	0.072	11.016	1x18W Led Tube light	18	0.036	5.508	5.508	46.21212	380	760	16.4
<b>Total</b>		<b>90</b>	<b>90</b>				<b>3.24</b>	<b>496</b>			<b>1.62</b>	<b>248</b>	<b>248</b>	<b>2080</b>		<b>34200</b>	<b>16.4</b>

## **Lighting Recommendation -1**

Replace the existing 36 W FTL tube lights into 18 W LED tubes

- Total No. of light fittings = 37 Nos.
- Total No. of Light fitting presently operated= 37 Nos.
- Total No. of light fittings to be replace= 37 Nos.
- Present Energy Consumption = 204 kWh
- Expected Energy Consumption = 102 kWh
- Total Energy Saved per Month =  $204 - 102 = 102$  kWh
- Total Saving = 102 kWh
- Monetary Savings = Rs.854
- Investment = Rs.14060
- Simple Payback period = 16.4 Months

## Energy Saving Measure 2 – Replacement of conventional ceiling fans with energy efficient ceiling fans

Area	Type	Total Qty	On Qty	UF	Wattage	Daily Op hr.	Load	Mthly Kwh	Change	New Wattage	New Load	Mthly Kwh	Saving Kwh	Saving Rs	Unit Rate	Inv	Payback
Electronic Science	Ceiling fan	7	7	1	78	4	0.546	56	40W Ceiling Fan	40	0.28	29	27	228	1800	12600	55
Mathematics	Ceiling fan	2	2	1	78	4	0.156	16	40W Ceiling Fan	40	0.08	8	8	65	1800	3600	55
Chemistry	Ceiling fan	18	18	1	78	4	1.404	143	40W Ceiling Fan	40	0.72	73	70	585	1800	32400	55
Physics	Ceiling fan	19	19	1	78	4	1.482	151	40W Ceiling Fan	40	0.76	78	74	618	1800	34200	55
Botany	Ceiling fan	0	0	1	78	4	0	0	No change	40	0	0	0	0	1800	0	#DIV/0!
Science Building	Ceiling fan	32	32	1	78	4	2.496	255	40W Ceiling Fan	40	1.28	131	124	1041	1800	57600	55
Commercial Lab	Ceiling fan	0	0	1	78	4	0	0	No change	40	0	0	0	0	1800	0	#DIV/0!
Geography	Ceiling fan	0	0	1	78	4	0	0	No change	40	0	0	0	0	1800	0	#DIV/0!
Arts, Commerce & Science Building	Ceiling fan	48	48	1	78	4	3.744	382	40W Ceiling Fan	40	1.92	196	186	1561	1800	86400	55
Library	Ceiling fan	8	8	1	78	4	0.624	64	40W Ceiling Fan	40	0.32	33	31	260	1800	14400	55
Principal office	Ceiling fan	1	1	1	78	4	0.078	8	40W Ceiling Fan	40	0.04	4	4	33	1800	1800	55

## Energy & Green Audit Report

Area	Type	Total Qty	On Qty	UF	Wattage	Daily Op hr.	Load	Mthly Kwh	Change	New Wattage	New Load	Mthly Kwh	Saving Kwh	Saving Rs	Unit Rate	Inv	Payback
Gymnasium	Ceiling fan	5	5	1	78	4	0.39	40	40W Ceiling Fan	40	0.2	20	19	163	1800	9000	55
DMLT	Ceiling fan	2	2	1	78	4	0.156	16	40W Ceiling Fan	40	0.08	8	8	65	1800	3600	55
<b>Total</b>		<b>142</b>	<b>142</b>				<b>11.076</b>	<b>1130</b>			<b>5.68</b>	<b>579</b>	<b>550</b>	<b>4618</b>		<b>255600</b>	<b>55</b>

### Fan Recommendation 1

Replace existing 75 watt conventional ceiling fans with 40 watt energy efficient fans

- Total No. of ceiling fans present = 142 Nos.
- Total No. of ceiling fans presently operated= 142 Nos.
- Total No. of ceiling fans to be replace= 142 Nos.
- Present Energy Consumption = 1139kWh
- Expected Energy Consumption = 579 kWh
- Total Energy Saved per Month = 1139-579= 579 kWh
- Total Saving = 579 kWh
- Monetary Savings = Rs.4618
- Investment = Rs. 255600
- Simple Payback period = 55 Months

## Requirements of NAAC

### Alternative Energy Initiative

Percentage of power requirement met by renewable energy sources

= (Power requirement met by renewable energy sources / Total power requirement) X 100

= (181602/478053) X 100

**= 37.98%**

### Percentage of lighting power requirement met through LED bulbs

Percentage of lighting power requirement met through LED bulbs

= (Lighting power requirement met through LED bulbs / Total lighting power requirement) X 100

= (6.96/8.29)

**= 84 %**

## **Green Audit**

Green audit was initiated with the beginning of 1970s with the motive of inspecting the work conducted within the organizations whose exercises can cause risk to the health of inhabitants and the environment. It exposes the authenticity of the proclamations made by multinational companies, armies and national governments with the concern of health issues as the consequences of environmental pollution. It is the duty of organizations to carry out the Green Audits of their ongoing processes for various reasons such as; to make sure whether they are performing in accordance with relevant rules and regulations, to improve the procedures and ability of materials, to analyze the potential duties and to determine a way which can lower the cost and add to the revenue. Through Green Audit, one gets a direction as how to improve the condition of environment and there are various factors that have determined the growth of carrying out Green Audit. Some of the incidents like Bhopal Gas Tragedy (Bhopal; 1984), Chernobyl Catastrophe (Ukraine; 1986) and Exxon-Valdez Oil Spill (Alaska; 1989) have cautioned the industries that setting corporate strategies for environmental security elements have no meaning until they are implemented.

Green Audit is assigned to the Criteria 7 of NAAC, National Assessment and Accreditation Council which is a self-governing organization of India that declares the institutions as Grade a, Grade B or Grade C according to the scores assigned at the time of accreditation.

The intention of organizing Green Audit is to upgrade the environment condition in and around the institutes, colleges, companies and other organizations. It is carried out with the aid of performing tasks like waste management, energy saving and others to turn into a better environmental friendly institute.

### **Goals of Green Audit**

- The objective of carrying out Green Audit is securing the environment and cut down the threats posed to human health.
- To make sure that rules and regulations are taken care of
- To avoid the interruptions in environment that are more difficult to handle and their correction requires high cost.
- To suggest the best protocols for adding to sustainable development

### Benefits of Green Audit

- It would help to shield the environment
- Recognize the cost saving methods through waste minimizing and managing
- Point out the prevailing and forthcoming complications
- Authenticate conformity with the implemented laws
- Empower the organizations to frame a better environmental performance
- It portrays a good image of a company which helps building better relationships with the group of stakeholders
- Enhance the alertness for environmental guidelines and duties



## Initiatives by College towards Sustainable Environment

### Tree Plantation

Tree-planting is the process of transplanting tree seedlings, generally for forestry, land reclamation, or landscaping purpose. It differs from the transplantation of larger trees in arboriculture, and from the lower cost but slower and less reliable distribution of tree seeds.

In silviculture the activity is known as reforestation, or afforestation, depending on whether the area being planted has or has not recently been forested. It involves planting seedlings over an area of land where the forest has been harvested or damaged by fire, disease or human activity. Tree planting is carried out in many different parts of the world, and strategies may differ widely across nations and regions and among individual reforestation companies. Tree planting is grounded in forest science, and if performed properly can result in the successful regeneration of a deforested area. Reforestation is the commercial logging industry's answer to the large-scale destruction of old growth forests, but a planted forest rarely replicates the biodiversity and complexity of a natural forest.

Because trees remove carbon dioxide from the air as they grow, tree planting can be used as agro engineering technique to remove CO<sub>2</sub> from the atmosphere. Desert greening projects are also motivated by improved biodiversity and reclamation of natural water systems, but also improved economy and social welfare due to increased number of jobs in farming and forestry.

College has planted the trees campus area to make it more environments friendly. Below are the some records, photos which shows the



## Energy & Green Audit Report

### Details of Tree Plantation

Sr.No.	Botanical Name	Common Name	Family	Habit
<b>Angiosperms</b>				
1	<i>Polyalthia longifolia</i>	Ashoka	Annanaceae	Tree
2	<i>Bombax ceiba</i>	Cotton silk tree	Malvaceae	Tree
3	<i>Ficus religiosa</i>	Peepal	Moraceae	Shrub
4	<i>Lantana camara</i>	Ghaneri	Verbenaceae	Shrub
5	<i>Pithecellobium dulce</i>	Vilayati chinch	Fabaceae	Tree
6	<i>Withania somnifera</i>	Ashwagandha	Solanaceae	Herb
7	<i>Spathodea campanulata</i>	Pichkari	Bignoniaceae	Tree
8	<i>Calotropis procera</i>	Rui	Apocynaceae	Shrub
9	<i>Caesalpinia pulcherrima</i>	Shakhansur	Fabaceae	Shrub
10	<i>Cassia siamea</i>	Kashid	Fabaceae	Tree
11	<i>Catharanthus roseus</i>	Sadafuli	Apocynaceae	Herb
12	<i>Azadirachta indica</i>	Neem	Meliaceae	Tree
13	<i>Bauhinia racemosa</i>	Apta	Fabaceae	Shrub
14	<i>Canna indica</i>	Kardal	Cannaceae	Herb
15	<i>Jasmine sambac</i>	Mogra	Oleaceae	Herb
16	<i>Citrus lemon</i>	Lemon	Rutaceae	Shrub
17	<i>Ficus glomerata</i>	Umber	Moraceae	Tree
18	<i>Leucaena leucosaphala</i>	Subabhul	Fabaceae	Tree
19	<i>Bambusa vulgaris</i>	Bamboo	Poaceae	Herb
20	<i>Asparagus racemosus</i>	Shatavari	Asparagaceae	Herb
21	<i>Phyllanthus niruri</i>	Bhuiawala	Phyllanthaceae	Tree
22	<i>Santalum album</i>	Chandan	Santalaceae	Tree
23	<i>Ziziphus jujuba</i>	Bor	Rhamnaceae	Tree
24	<i>Murraya coenigii</i>	Curry leaves	Rutaceae	Tree
25	<i>Tinospora cordifolia</i>	Gulvel	Menispermaceae	Climber
26	<i>Hibiscus rosasinensis</i>	Hibiscus	Malvaceae	Shrub
27	<i>Tectona grandis</i>	Teak	Verbinaceae	Tree

**Energy & Green Audit Report**

<b>Sr.No.</b>	<b>Botanical Name</b>	<b>Common Name</b>	<b>Family</b>	<b>Habit</b>
28	Rosa indica	Rose	Rosaceae	Shrub
29	Psidium guajava	Gauva	Myrtaceae	Tree
30	Magnifera indica	Mango	Anacardiaceae	Tree
31	Casurina equisetifolia	Suru	Casurinaceae	Tree
32	Oscimum sanctum	Tulsi	Lamiaceae	Herb
33	Tobernmontena divarticantana	Chandani	Apocynaceae	Tree
34	Solanum surattense	Kantkari	Solanaceae	Creeping
35	Mentha piperita	Pudina	Lamiaceae	Herb
36	Chrysanthemum morifolium	Shevanti	Asteraceae	Herb
37	Morus alba	Tuti	Moraceae	Tree
38	Ixora coccinea	Ixora	Rubiaceae	Shrub
39	Solanum nigrum	Black night shade	Solanaceae	Herb
40	Aegle marmelos	Bael	Rutaceae	Tree
41	Annona squamosa	Custard	Annonaceae	Tree
42	Punica granatum	Pomergranate	Lythraceae	Shrub
43	Terminalia catapa	Almond	Combrytaceae	Tree
44	Clitoria ternatea	Gokarn	Fabaceae	Herb
45	Tecoma stans		Bignoniaceae	Shrub
46	Zea mays	Maize	Poaceae	Grass
47	Triticum aestivum	Wheat	Poaceae	Grass
48	Ficus benghalensis	Fig	Moraceae	Tree
49	Nyctanthus arbortensis	Parijatak	Verbenaceae	Tree
50	Delonix regia	Gulmohor	Fabaceae	Tree
51	Maytenus sengalensis	Henkal	Celastraceae	Shrub
52	Tradescantia spathacea	Rhoebud	Commelinaceae	Herb
53	Datura metal	Kala Dhotra	Solanaceae	Herb
54	Datura stromium	Dhotra	Solanaceae	Herb
55	Milingtonia hortensis	Buch	Bignoniaceae	Tree

**Energy & Green Audit Report**

Sr.No.	Botanical Name	Common Name	Family	Habit
56	Nerium oleander	Kaner	Apocynaceae	Shrub
57	Nerium sps	Kaner	Apocynaceae	Shrub
58	Nerium sps	Kaner	Apocynaceae	Shrub
59	Nerium sps	Kaner	Apocynaceae	Shrub
60	Eucalyptus globules	Nilgiri	Myrtaceae	Tree
61	Syzium cumini	Jambhul	Myrtaceae	Tree
62	Chromolenaodorata		Asteraceae	Herb
63	Plumeria rubra	Chapha	Apocynaceae	Tree
64	Hemerocalis fulva	Spider lily	Asphodelaceae	Herb
65	Hymenocalis caribaea	White lily	Amaryllidaceae	Herb
66	Cordyline fruticosa	Red drecenae	Asparagaceae	Herb
67	Ailanthus excelsa	Maharukh	Simaroubaceae	Herb
68	Acalypha indica		Euphorbiaceae	Herb
69	Tamarindus indicus	Chinch	Fabaceae	Tree
70		Sursuri	Asteraceae	Herb
71	Acalypha wilkesiana	Copper leave	Euphorbiaceae	Shrub
72	Bauhnia purpurea	Kanchan	Fabaceae	Tree
73	Centipeda minima		Asteraceae	Herb
74	Anemone sp.			
75	Albizzia saman			
<b>Ornamental Plant</b>				
1	Durant rapens	Duranta	Verbenaceae	Shrub
2	Ficus benjamina	Weeping fig	Moraceae	Tree
3	Cynadon dactylon	Durva	Poaceae	Runner
4	Euphorbia cotinifolia	Smoke tree	Euphorbiaceae	Shrub
5	Ficus benjamina varigata	Starlight	Moraceae	Tree
6	Solenostemon scuteloides		Lamiaceae	Herb
7	Asparagus setaces		Asparagaceae	Climbing
8	Dieffenbachia seguine	Dumbcane	Araceae	Herb

**Energy & Green Audit Report**

Sr.No.	Botanical Name	Common Name	Family	Habit
9	Dracena marginata	Draceana	Asparagaceae	Herb
10	Dracena sps.	Draceana	Asparagaceae	Herb
<b>Cactus</b>				
1	Echeveria elegans	Chick & hen	Crassulaceae	Herb
2	Aloe barbadensis	Aloe	Liliaceae	Herb
3	Euphorbia tricauli	Firestick	Euphorbiaceae	Herb
4	Sansevieria	Snake Plant		Herb
5	Euphorbia maculate	Prostrate	Euphorbiaceae	Creeping
6	Euphorbia	Saber	Euphorbiaceae	Shrub
7	Opuntia stricta	Opuntia	Cactaceae	Shrub
8	Euphorbia milli		Euphorbiaceae	Herb
9	Bryophyllum daigremonitum	Panfuti	Crassulaceae	Herb
<b>Gymnosperms</b>				
1	Thuja orientalis	Thuja	Cupressaceae	Shrub
2	Aurocaria heterphylla	Christmas tree	Aurocaraceae	Tree
3	Cycus revoluta	cycas	Cycadaceae	Shrub
<b>Pteridophytes</b>				
1	Asplenium trichomanes	Fern	Aspleniaceae	Herb

<b>Algae</b>					
Sr.No.	Genus	Phylum	Class	Order	Family
1	Nostoc	Cyanophyta	Cyanopsidaceae	Nosocales	Nostocaceae
2	Spirogyra	Charophyta	Zygnematophyceae	Zygnematales	Zygnemataceae
3	Botrydium	Xanthophyta	Xanthophyceae	Botrydiales	Botrydiaceae
4	Anabena	Cyanophyta	Hormogoneae	Nostocales	Nostocaceae
<b>Fungi</b>					
1	Polyoporus	Basidiomycota	Agricomycetes	Polyporales	Polyporaceae

## Energy & Green Audit Report

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2	Cercospora	Ascomycota	Dothideomycetes	Capnodiales	Mycosphaerellaceae
3	Rhizopus	Zygomycota	Mycotina	Mucorales	Mucoraceae
4	Mucor	Zygomycota	Mucromycotina	Mucorales	Mucoraceae
5	Albugo	Heterocanta	Oomycetes	Peronosporales	Albuginaceae

### Use of Solar PV System for power Generation

College has installed 7.2 kW solar PV plant to generate the electricity through solar energy. Solar power plant is generating almost 9700 units annually which results in reduction of 7.8 Tons of CO<sub>2</sub> emission

Following are the some actual images of installed solar PV plant



## Rain Water Harvesting

Rain water which is accumulated on terrace of different building is getting utilised by means of rain water harvesting system. Water from the various buildings is transferred to the main well

Following are the same images of actual system





Vermicomposting Plant

College has taken initiative to compost the daily solid waste by means of vermicompost plant. It generates the valuable compost which has been utilized in college campus garden area

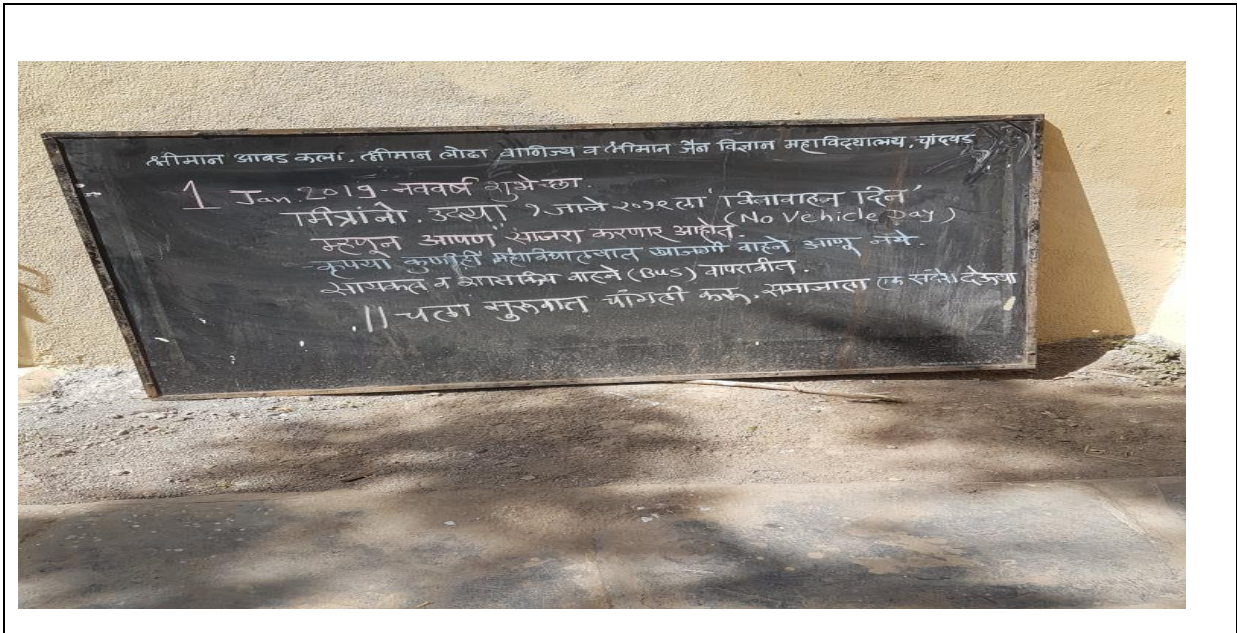
Following are the some actual photographs of vermicomposting plant





### No Vehicle Day

College has taken initiative and celebrated no vehicle day in college on 01 January 2019. It helps help students and staff understand the importance of environmental protection and be mindful about saving energy.



### Scope for Improvement

#### E Waste Management

Electronic waste or e-waste describes discarded electrical or electronic devices. Used electronics which are destined for reuse, resale, salvage, recycling, or disposal are also considered e-waste. Informal processing of e-waste in developing countries can lead to adverse human health effects and environmental pollution.

Electronic scrap components, such as CPUs, contain potentially harmful components such as lead, cadmium, beryllium, or brominated flame retardants. Recycling and disposal of e-waste may involve significant risk to health of workers and communities in developed countries and great care must be taken to avoid unsafe exposure in recycling operations and leaking of materials such as heavy metals from landfills and incinerator ashes.

College need to have E-waste management policy and all the E-waste disposals generated in the college campus should be disposed/ reuse as per standard procedures/norms

#### The environmental impact of the processing of different electronic waste components

<b>E-Waste Component</b>	<b>Process Used</b>	<b>Potential Environmental Hazard</b>
Cathode ray tubes (used in TVs, computer monitors, ATM, video cameras, and more)	Breaking and removal of yoke, then dumping	Lead, barium and other heavy metals leaching into the ground water and release of toxic phosphor
Printed circuit board (image behind table – a thin plate on which chips and other electronic components are placed)	De-soldering and removal of computer chips; open burning and acid baths to remove metals after chips are removed.	Air emissions and discharge into rivers of glass dust, tin, lead, brominated dioxin, beryllium cadmium, and mercury
Chips and other gold plated components	Chemical stripping using nitric and hydrochloric acid and burning of chips	PAHs, heavy metals, brominated flame retardants discharged directly into rivers acidifying fish and flora. Tin and lead contamination of surface and groundwater. Air emissions of brominated dioxins, heavy metals, and PAHs
Plastics from printers, keyboards, monitors, etc.	Shredding and low temp melting to be reused	Emissions of brominated dioxins, heavy metals, and hydrocarbons
Computer wires	Open burning and stripping to remove copper	PAHs released into air, water, and soil.

**Plastic Free and Paper Free Campus**

Concept of plastic free and paper free campus can be successfully implemented in the college. Management need to take initiative to make the policy for same. It will help to do reduce the use of plastic and papers which will be a good contribution towards sustainable environment