

SICES Degree College of Arts, Science and Commerce,
Chikloli, Jambhul Phata, Ambarnath (W)

Q1: 7.3.1

Institutional Distinctiveness

Utilization of Solar Energy and Minimization of energy consumption (LED installation)

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: लोकसत्ता ठाणे

ठाणे, मंगळवार, ६ ऑक्टोबर २०१५

३

सौरऊर्जेतून महाविद्यालयात प्रकाशवाटा

प्रतिनिधी, अंबरनाथ

काळानुसार अपारंपरिक ऊर्जेचा मार्ग अनुसरत येथील साऊथ इंडियन (एसआयसीईएस) महाविद्यालयाने सौर वीज प्रकल्प कार्यान्वित केला असून त्याद्वारे ५३ किलोवॉट वीजनिर्मिती होते. महाविद्यालयामे एकूण ६० ते ७० किलोवॉट विजेची आवश्यकता असते. सौर प्रकल्पामुळे त्यांच्या महावितरणकडून येणाऱ्या विलयत ८० टक्के बचत होणार आहे. ठाणे जिल्ह्यातील महाविद्यालयांमध्ये राबविण्यात आलेल्या प्रकल्पांपैकी हे सर्वात मोठे सौरऊर्जा निर्मिती केंद्र आहे. अलीकडेच या प्रकल्पाचे उद्घाटन करण्यात आले. अंबरनाथ पोलीस ठाण्याचे वरिष्ठ पोलीस निरीक्षक विलास सोनावणे, संस्थेचे अध्यक्ष के. एम. एस. नायर, उपाध्यक्ष डॉ. गोपालन, महाविद्यालयाचे प्राचार्य डॉ. अरुण पाटील, दीपसन एनर्जी कंपनीचे दीपक रेवणकर आदी मान्यवर उपस्थित होते.



या सौरऊर्जा प्रकल्पात बॅटरी न वापरता थेट विद्युत प्रवाह खेळविण्यात आला आहे. फारशी देखभाल दुरुस्तीची आवश्यकता नसणाऱ्या या प्रकल्पातून किमान २५ वर्षे विनाखंड वीजनिर्मिती होईल, असा दावा हा प्रकल्प साकारणारे दीपसन एनर्जीचे रेवणकर यांनी केला.

आपल्याकडे नैसर्गिक स्रोत उपलब्ध असून त्यांचा योग्य वापर करण्यासाठी एसआयसीईएस महाविद्यालयाने पुढाकार घेतला ही स्वागतार्ह बाब आहे. असे उद्घाटक वरिष्ठ पोलीस निरीक्षक विलास सोनावणे या वेळी म्हणाले. तसेच वाढत्या लोकसंख्येच्या तुलनेत

इंधनाचा पुरवठा कमी होत असून अशा परिस्थितीत सौरऊर्जेचा अधिकार्थिक वापर आवश्यक आहे. समाजासाठी व देशासाठी ही महत्त्वाची बाब असून आतापासूनच असे प्रकल्प सुरू केल्यास भविष्यात आपण वीज विकत देऊ शकतो, असे संस्थेचे अध्यक्ष नायर या वेळी म्हणाले.

05/03/2021
IQAC COORDINATOR

SICES DEGREE COLLEGE OF ARTS, SCIENCE & COMMERCE
Jambhul Phata, Ambernath (W)



INVITATION



The Management of SICE Society, Ambarnath cordially invites you to the inaugural function of

53KW_p SOLAR PV POWER PLANT

by our Chief Guest

Mr. Vilas Sonawne

(Sr. Police Inspector, Ambarnath West)

in the presence of Guest of Honour

Dr. T. P. Madhu Nair

(Principal, Nirmala Memorial Foundation

Degree College of Commerce & Science,

Dean Faculty of Commerce University of Mumbai)

-: Venue : -

**SICES Degree college of Arts, Science & Commerce,
K.B. Road, Jambhul Phata, Chikhlioli,
Ambarnath (W)-421 505.**

-: Date & Time : -

26th September 2015 at 10.30 a.m.

Welcomed by,

Managing Committee SICE Society



**DEEPSUN
ENERGY PVT. LTD.**

Save Energy | Save Earth | Go Green



SICES Degree Coll... ✕

JAMBHUL PHATA KAL...
AMBARNATH (WEST), ...

19.19°N, 73.22°E



SICES College
Ambarnath West
सिसेस कॉलेज
अंबरनाथ वेस्ट



Activate Windows
Go to Settings to activate Windows



Ambarnath, Maharashtra, India

N.S.N. Research Centre for Nanotechnology and Bionanotechnology, SICES
College, Jambhul Phata, Ambarnath (W), Dattanagar, Ambarnath, Maharashtra
421505, India

Lat N 19° 11' 26.47241"

Long E 73° 13' 5.5947"

22/10/20 05:09 PM



Ambarnath, Maharashtra, India

N.S.N. Research Centre for Nanotechnology and Bionanotechnology, SICES
College, Jambhul Phata, Ambarnath (W), Dattanagar, Ambarnath, Maharashtra
421505, India

Lat N 19° 11' 26.57245"

Long E 73° 13' 6.2657"

22/10/20 05:14 PM

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD.

MAHAVITARAN

RECEIPT

448662

Recpt. No. : 44866

SP/T-1102/0314

054002

Date: 29-01-2016

Collection Centre

014755006-Badlapur west sdn cc06

Name of Circle

Kalyan Circle - II

Consumer No.

021920006067

/PC:0/BU:4755

Received From

M/S. SAUTH INDIAN CHILDRENS EDUCATI

The sum of ₹ (In Words) Rs One Thousand Rupees Only

By : DD

No. : 021707

Dated : 29-01-2016

₹ 1000.0

Bank Name

00000033-

BANK OF INDIA

BKID0000072

Processing Fee For Shifting Ch

IFSC Code

Ver No:6.5.8

Not material apply

For M.S.E.D.Co. Ltd.

Cashier

Registered Office : Plot No. G-9, Prakashgad, Prof. Anant Kanekar Marg, Bandra (E), Mumbai-400 051.

In connection with

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION COMPANY LIMITED
O&M SUBDIVISION BADLAPUR-W

AE/BDL (W) / TECH / 90

DATE - 14.3.16

To,
The Executive Engineer,
M.S.E.D.C.L.
Kalyan (R) Div.

Sub:- TFR i/r of M/s South Indian education society for approval of net metering arrangements. (Cons. No. 021920006067)

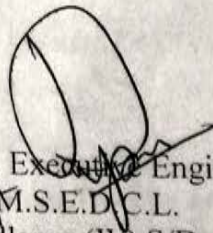
Ref:- TFR received from JE Manjarli on dt. 11.03.2016

In connection with above subject, please find enclosed herewith TFR i/r of M/s South Indian education society for approval of net metering arrangements. (Cons. No. 021920006067). Details of the same are as below,

1. Sanctioned load of existing conn: 73.90 Kw
2. Solar Power Plant Capacity: 53.1 KWp
3. Existing transformer Details: 1. Capacity: 315 KVA
2. Name: Siddharth Nagar
3. DTC code: 4149001

Consumer has paid processing charges of Rs.1000/- and the proposed net metering is technically feasible

This is for your information and needful action please.


Dy. Executive Engineer,
M.S.E.D.C.L.
Badlapur (W) S/Dn.

No. EE/KLN (R) / Tech/ R LS-LT/

No/ 0 1 4 5 1

Date: 1 APR 2016

To,
The Dy.Ex. Engineer
M.S.E.D.C.Ltd.,
Badlapur (W) S/Dn.

Sub: - Release of Roof Top Solar-PV system 53.1 KW load
to M/s.South Indian Children's Education Society
S.No.105A, H.No.23, Near Fatima High school,
Badlapur (W), Tal – Ambernath, Dist.Thane.

Ref.: 1) Load Sanction No.01 dt. 19.03.16
2) DYEE/BDL(W)Tech/214 dt.04.04.2016

With reference to load sanction given vide this office letter under reference no.(1) you are instructed to release Roof Top Solar-PV system 53.1 KW load to M/s.South Indian Children's Education Society S.No.105A, H.No.23, Near Fatima High school, Badlapur (W), Tal – Ambernath, Dist.Thane. The load details is as below -

Existing Load	Solar Load
73.90	53.1 KW

The applicant paid the necessary charges as under.

S.No.	Particulars	Amount Rs.	Money Receipt No.	Date
1	Meter Testing fee	1000/-	4490843	04.04.2016
2	Misc. charges	145.9/-	4490843	04.04.2016
	Total	1146/-		

Connection is to be released by observing all the formalities as per MSEDCL rules and regulations.

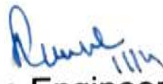
List of documents -

- | | | |
|--|---|-----------|
| 1. Wiring Test report for 53.1 KW load | - | Submitted |
| 2. FQ & payment receipt xerox | - | Submitted |

...2...

Before release of this connection, please confirm that:-

- a. All the dues / outstanding arising on account of assessment etc. should be got cleared from the consumer.
- b. Further you are requested to prepare the ASSET Card before charging the installation and inform to this office accordingly
- c. Collect the necessary documents such as capacitor test report, manufactures equipment test certificates.
- d. All relevant NOCs & documents should be collect.
- e. Observe all conditions given in sanction letter.
- f. Connection will be released after charging of proposed transformer.
- g. Before release of this connection recover all pending arrears as per MSEDCLs rule.


Executive Engineer
Kalyan (R) Division

Copy submitted to-

The Executive Engineer, Testing Division, Kalyan.

-- you are requested to arrange to test the meter & other equipments and give consent to release the connection.

Copy to :

M/s.South Indian Children's Education Society

S.No.105A, H.No.23, Near Fatima High school, Badlapur (W),

Tal – Ambernath, Dist.Thane

-- You are requested to contact our Dy.Ex. Engineer, Badlapur (W) Sub Division for further necessary action to avail the power supply as above.

2. Dy.Manager, F&A/C, Kalyan (R) Dn.

3. Asst. Engr. Manjarli Section,



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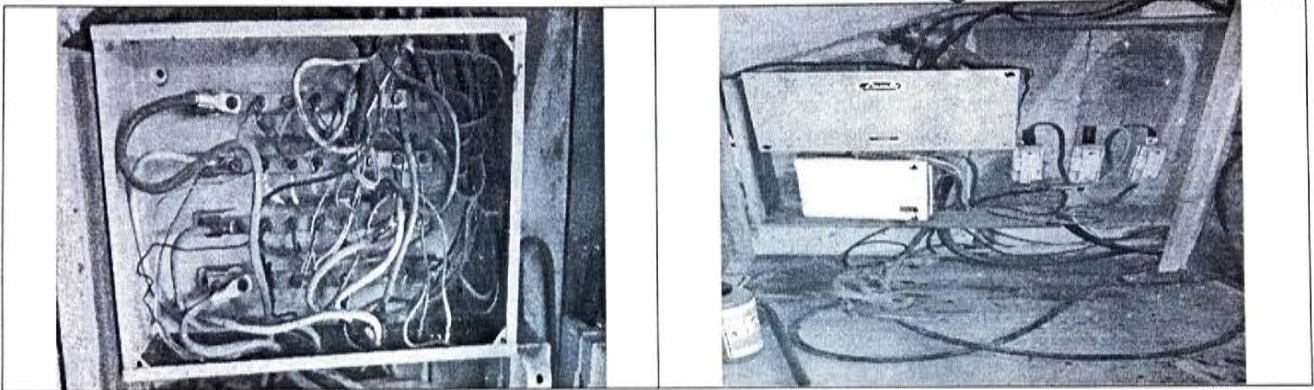
To, The Chairman
South Indian Children Education Society
SICES College ,Jambhul Road
Ambarnath

Date: - 27th July 2015

Dear Sir

It was observed while Installation and Commissioning of Solar Power Plant that the Electrical power distribution is not in good condition. Electrical short circuit can happen any time. As shown in the photo below

Present situation in the college



So for precaution and to have safety measure in the college and solar power plant, we would like to install on urgent basis an MCCB Electrical Distribution panel with ELCB and all other safety features in the MCCB panel.

This panel will have following material AC Power Distribution Panel Board with ELCB, MCB, and Change over MCB Switch, KWH Meter.

This panel will be installed at the room available next to MSEB Meter Installed.

To installed above MCCB panel the cost of the Solar PV Power Plant Project will increases by Rs.1, 43,000.00/- (One Lac Forty Three Thousand only).

We request you to sanction this amount as early as possible.

It will take around 3 Week to Installed this Electrical Panel.

Thanks & Regards

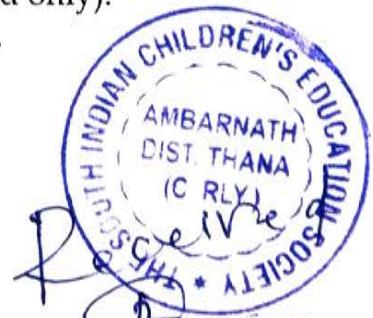
Yours Faithfully

For Deepsun Energy Pvt. Ltd.

Deepak Revankar

9881245204

deepsunenergy@gmail.com



The company you can grow greener with

W-111, Anand Nagar MIDC, Additional Ambarnath. Dist Thane. 421 502,
Maharashtra. Tel: 0251 260 5656 email: deepsunenergy@gmail.com

Date: - 15th August 2015

To, The Chairman
South Indian Children Education Society
SICES College, Jambhul Road
Ambarnath

Sub: Solar Power Plant

Dear Sir,


We have completed Supply, Installation & Commissioning of **53100 Wp** Solar PV Power Plant. Power generation from solar power plant has being started.

We have submitted a cumulative invoice of Rs. 47,00,000/- (Invoice No.: 001, Dated 06th August 2015) and against which you account section has deducted 1% TDS and balance amount we have received.

As per the invoice, Under 94 C TDS deductions is not applicable to us i.e. supply of material, So I request you to refund us the above deducted amount.

Thanks & Regards

Yours Faithfully


For Deepsun Energy Pvt. Ltd.
Deepak Revankar
9881245204
deepsunenergy@gmail.com





The company you can grow greener with

W-111, Anand Nagar MIDC, Additional Ambarnath. Dist Thane. 421 502.
Maharashtra. Tel: 0251 260 5656 email:deepsunenergy@gmail.com

To,
The President
South Indian Children Education Society.
Subhash Wadi
Ambernath

Sub: 50 KWp Solar Power Plant at Jambhul College

Dear Sir,

We have completed solar PV Panel Installation at the above site and starting electrical wiring and installation of solar inverter tomorrow. We request you to please give us second installation of Rs 10 Lac.

Sir for 50 KWp solar power plant we are installing

Solar panel of 295 Wp,

Total 170 Numbers

Total Wattage $295 \times 170 = 50150$ Watts i.e. 50 KWp,

- Our Structural design for above solar PV panel supports for 180 Numbers of solar panel
- Our Solar Inverter (30 KW & 20 KW 2 No's) can also support excess solar power input up to 15%

By installing 10 numbers of more solar panel we can get 2950 Wp more power

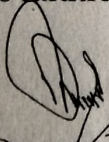
College has to pay only the cost of the panel 2950 Wp *Rs. 50 per Wp = Rs1,47,500.00/-

With your permission can we installed 10 numbers of more solar PV panel

- No excess electrical wiring or any electronics is required is to support additional solar panel.

Thanking you,

Yours faithfully,



27/12/15

For Deepsun Energy P. Ltd.
(Deepak Revankar)



Received


Date: 31-08-2015

To, The Chairman
South Indian Children Education Society
SICES College ,Jambhul Road
Ambernath

Sub: Installation And Commissioning Certificate of 53.1 KWp Solar Power Plant

Respected Sir

We have Installed and commissioned 53100 Wp Grid Tied Solar Power Plant.

- Date of Completion of Project: 31.08.2015
- Date of Put to Use: 31.08.2015

Following material and equipment's were used

- Solar Panel : Waaree Make 295 Watts 180 Numbers Total Capacity 53.100 KWp
- Inverter: Delta Make 30KW & 20 KW RPI Grid Tied Inverter
- Structure: Per Galvanized MS Steel
- Junction Box: For AC & DC with SPD and, Fuse, MCB,
- Cable: Armed Cable for AC side 3.5 Core 35 Sq.MM
Uniflex Rodent Resistance in DC Side 4 Sq. MM
- Civil Work done as per the requirement
- DC Earthing done as per the requirement
- MCCB Ac Distribution Box

All the Material used is as per the MNRE guidelines

M/S Delta Power, Engineer has visited on 17th July 2015 and commissioned the Inverter and checked all the parameters and was satisfactory for installation.

Solar Power Plant has started power generation from 20th July 2015 was under inspection and the result are satisfactorily

Thanking You
Yours Faithfully


For Deepsun Energy Pvt. Ltd.
(Deepak Revankar)



Received
Revathy.
31/8/15

The company you can grow greener with

ACKNOWLEDGEMENT

Received an Application from **SOUTH INDIAN CHILDRENS EDUCATION SOCIETY (SICES)** for connectivity/installation of Roof-top Solar PV System of capacity of **53.1 KWp** as per details below :—

Date of Receipt	Applicant's Name	Application Number	Existing Consumer No.	Capacity of Roof-top Solar PV System
(1)	(2)	(3)	(4)	(5)
21 th Dec 2015	SOUTH INDIAN CHILDRENS EDUCATION SOCIETY (SICES)		021920006067	53.1 KWp

Date :



(Signature and Designation of Authorized Officer)

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION COMPANY LIMITED
O&M SUBDIVISION BADLAPUR-W

Ref: DY. EE/BDL (W)/TECH/

207

DATE -

2/4/16

To,
The Executive Engineer,
M.S.E.D.C.L.
Testing Division


Sub: - Regarding testing of Solar PV net meter i/r of M/s SICES degree collage of arts science and comers, Chikhaloli , Badlapur-W, Tal:- Ambermath.

Ref:- 1) Est. Sanction No:- EE/KLN_R/TECH/Solar Energy/2015-16/ BDL-W-01
DT:19.03.2016.

In connection with above subject, you are requested to Solar PV net meter i/r of M/s SICES degree collage of arts science and comers, Chikhaloli , Badlapur-W, Tal:- Ambermath. Details of the same CTs are as follows

1	meter make	Secure
	meter Sr. No	X0057741
	Ratio	100/5 A

This is for your information and n.a. please.


Dy. Executive Engineer,
M.S.E.D.C.L.
Badlapur (W) S/Dn.

Copy s. w. r. to:-The Executive Engineer Kalyan-R Div-----For information please

copy to : M/s SICES degree collage ---
for information please

OFFICE OF DEPUTY EXECUTIVE ENGINEER BADLAPUR-W SUB DIVISION

Room No. 3, Water Supply Colony, DattaChowk, Near Flyover Bridge, Badlapur(W),

Pin Code no. - 421503,

Ph No. 2674645 WebSite www.mahadiscom.in

Email :sdo4755@ho.mahadiscom.in, sdo4755@rediffmail.com, bu4755@gmail.com.

For any complaint regarding electricity contact MSEDCL's toll free customer care.

S.I.C.E. SOCIETY'S
DEGREE COLLEGE OF ARTS, SCIENCE AND COMMERCE

SCIENCE FACULTY GRANT-IN-AID

Affiliated to the University of Mumbai

Regd. No: NGC/2009/(152/09)/Mashi-4 Dt.11/08/20009

Jambhul Phata, Chikholi, Ambarnath (W)-421505.

E-mail:sicesdegreecollege@gmail.com

Tel:0251-2685264, 2689946

JDHE College Code: T- 4/4

University College Code:961

Ref:SICES/MSEB/925/2015-16

Date: 2nd April 2016

To,
 The Dy. Executive Engineer
 Badlapur West Sub Division Office
 Maharashtra State Electricity Distribution Co. Ltd
 Badlapur
 Dist Thane

Sub: Offering Solar PV Net METER for Testing

Dear Sir,

As per your sanction letter for installation of NET METER for, SICES Degree College of Arts, Science and Commerce, Jambhul Phata Chikholi Ambarnath West

Letter Reference no: EE/KLN/N0.01171 on dated 19th March 2016

Load Sanction Order Number: EE/KLN/Tech/Solar Energy/2015-16/BDL(W)-01 Dt:19/3/2016

Make: SECURE

Meter Serial Number: X0057741

We have procured NET Meter From SECURE Company, Specification Sheet Attached.
 100A/5A 3 phase 4 wire CT operated Net Meter.

We offer this meter and request you to do Meter Testing as per your standards and
 Installed as early as possible.

And request to do the needful.

Thanking you.



Dr. Harshal M. Bachhav

I/c Principal

S.I.C.E.S. Degree College of Arts, Science & Commerce
 Ambarnath - 421 505

METER TEST CERTIFICATES

Serial number : X0057741

voltage : 240V CT Ratio : 100/5A Accuracy Class : 0.5s Ref. standard : IS:14697

- 1. AC VOLTAGE TEST :- PASS
- 2. TEST OF NO LOAD CONDITION :- PASS
- 3. TEST OF STARTING CURRENT CONDITION :- PASS
- 4. INSULATION RESISTANCE TEST :- PASS
- 5. POWER CONSUMPTION :- PASS
- 6. TEST OF METERS CONSTANTS :- PASS
- 7. LIMIT OF ERROR

7(a) Conditions-Vref = 240V Ib = 5A Amb. Temp. = 27 +/- 2 Deg. C Relative Humidity < 70%.
 7(b) Errors shown in the tables are given after accounting the error of reference meter.
 7(c) Reference meter serial no. 8TLT1008 class 0.2S traceable to national & international standards.

IMPORT MODE ERRORS

(d) %Active Errors(Balance Mode 3p4w)				(e) %Reactive Errors(Balance Mode 3p4w)			
Load % Ib	0.5 Lag	0.8 Lead	UPF	Load % Ib	0.5 Lag	0.8 Lead	
200	0.00	-0.04	-0.03	200	+0.06	+0.02	
100	0.15	0.01	0.06	100	0.03	0.09	
10	0.08	0.02	0.03	10	0.00	0.10	
5			0.01				
2	0.02	0.02					
1			0.17				

EXPORT MODE ERRORS

(d) %Active Errors(Balance Mode 3p4w)				(e) %Reactive Errors(Balance Mode 3p4w)			
Load % Ib	0.5 Lag	0.8 Lead	UPF	Load % Ib	0.5 Lag	0.8 Lead	
200	0.07	0.00	0.02	200	-0.02	0.08	
100	0.16	0.04	0.08	100	0.05	0.10	
10	0.14	0.01	0.04	10	0.00	0.14	
5			0.03				

Date :- 26/03/2016

This is computer generated test certificate no signature required



Badlapur, Maharashtra, India

Kalyan - Badlapur Rd, Dattanagar, Badlapur,

Maharashtra 421505, India

Lat N 19° 11' 1.27284"

Long E 73° 13' 10.50528"

22/10/20 05:17 PM



**DEEPSUN
ENERGY PVT. LTD.**

Save Energy | Save Earth | Go Green

To,
The President
South Indian Children Education Society,
Subhash Wadi
Ambernath

Sub: 50 KWp Solar Power Plant at Jambhul College

Dear Sir,
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Sir for 50 KWp solar power plant we are installing
Solar panel of 295 Wp,
Total 170 Numbers
Total Wattage $295 \times 170 = 50150$ Watts i.e. 50 KWp,

- Our Structural design for above solar PV panel supports for 180 Numbers of solar panel
- Our Solar Inverter (30 KW & 20 KW 2 No's) can also support excess solar power input up to 15%

By installing 10 numbers of more solar panel we can get 2950 Wp more power
College has to pay only the cost of the panel $2950 \text{ Wp} \times \text{Rs. } 50 \text{ per Wp} = \text{Rs}1,47,500.00/-$

- With your permission can we installed 10 numbers of more solar PV panel
- No excess electrical wiring or any electronics is required is to support additional solar panel.

Thanking you,

Yours faithfully,

2/7/2015

For Deepsun Energy P. Ltd.
(Deepak Revankar)



W-111, Anand Nagar MIDC, Additional Ambarnath. Dist Thane. 421 502.
Maharashtra. email:deepsunenergy@gmail.com, Phone:- (0251) 2605656



**DEEPSUN
ENERGY PVT. LTD.**

Save Energy | Save Earth | Go Green

Date: - 15th August 2015

To, The Chairman
South Indian Children Education Society
SICES College, Jambhul Road
Ambarnath

Sub: Solar Power Plant

Dear Sir,

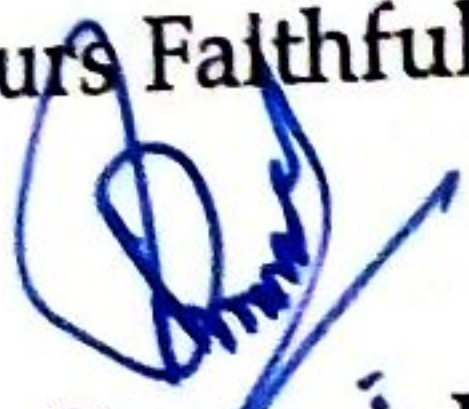
We have completed Supply, Installation & Commissioning of 53100 Wp Solar PV Power Plant. Power generation from solar power plant has being started.

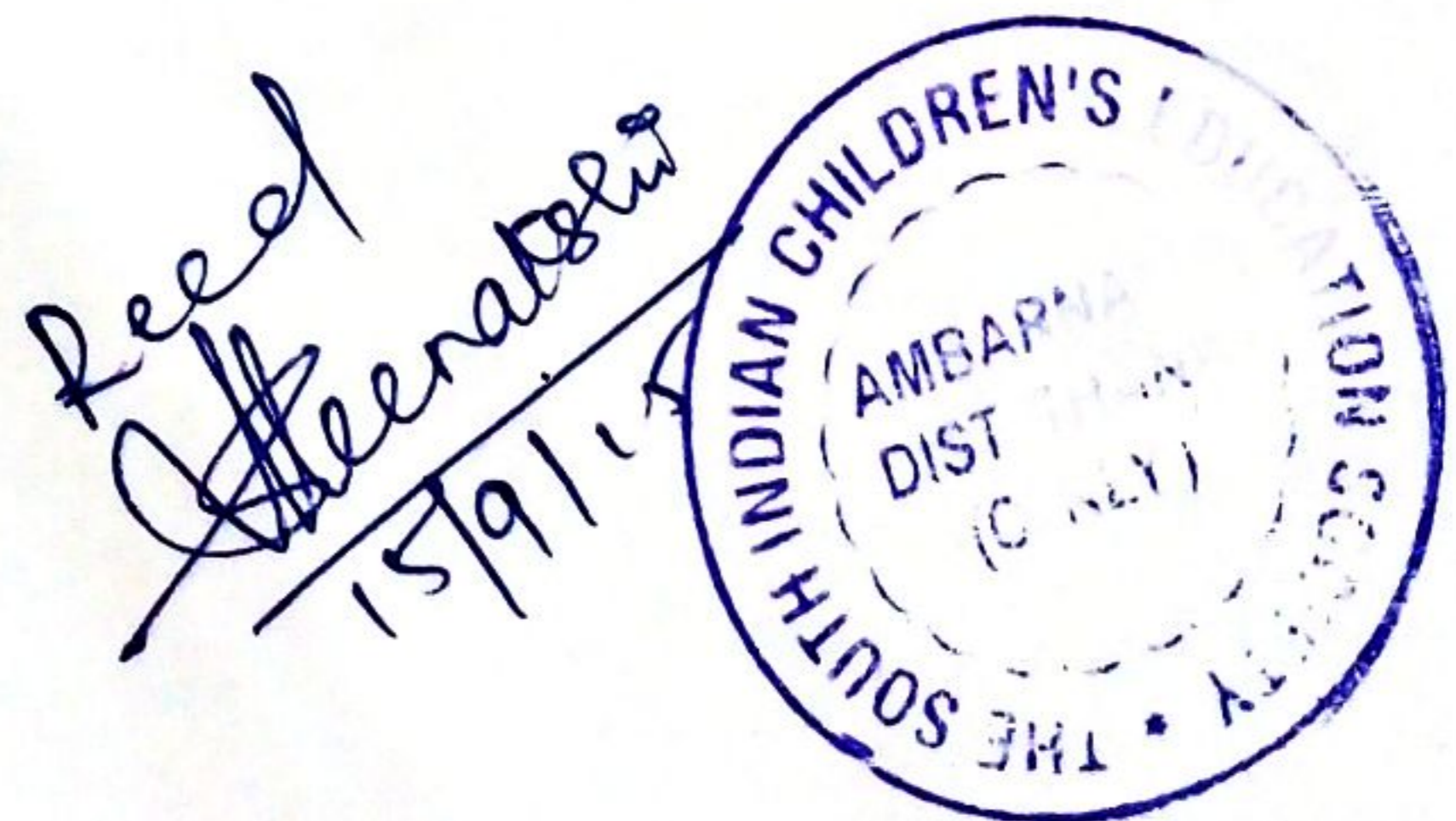
We have submitted a cumulative invoice of Rs. 47,00,000/- (Invoice No.: 001, Dated 06th August 2015) and against which you account section has deducted 1% TDS and balance amount we have received.

As per the invoice, Under 94 C TDS deductions is not applicable to us i.e. supply of material, So I request you to refund us the above deducted amount.

Thanks & Regards

Yours Faithfully


For Deepsun Energy Pvt. Ltd.
Deepak Revankar
9881245204
deepsunenergy@gmail.com



The company you can grow greener with

W-111, Anand Nagar MIDC, Additional Ambarnath. Dist Thane. 421 502.
Maharashtra. Tel: 0251 260 5656 email:deepsunenergy@gmail.com

Date: 31-08-2015

To, The Chairman
South Indian Children Education Society
SICES College, Jambhul Road
Ambernath

Sub: Installation And Commissioning Certificate of 53.1 KWp Solar Power Plant

Respected Sir

We have Installed and commissioned 53100 Wp Grid Tied Solar Power Plant.

- Date of Completion of Project: 31.08.2015
- Date of Put to Use: 31.08.2015

Following material and equipment's were used

- Solar Panel : Waaree Make 295 Watts 180 Numbers Total Capacity 53.100 KWp
- Inverter: Delta Make 30KW & 20 KW RPI Grid Tied Inverter
- Structure: Per Galvanized MS Steel
- Junction Box: For AC & DC with SPD and, Fuse, MCB,
- Cable: Armed Cable for AC side 3.5 Core 35 Sq.MM
Uniflex Rodent Resistance in DC Side 4 Sq. MM
- Civil Work done as per the requirement
- DC Earthing done as per the requirement
- MCCB Ac Distribution Box

All the Material used is as per the MNRE guidelines


M/S Delta Power, Engineer has visited on 17th July 2015 and commissioned the Inverter and checked all the parameters and was satisfactory for installation.

Solar Power Plant has started power generation from 20th July 2015 was under inspection and the result are satisfactorily

Thanking You
Yours Faithfully


For Deepsun Energy Pvt. Ltd.
(Deepak Revankar)




Received
Revathy
31/8/15

The company you can grow greener with

W-111, Anand Nagar MIDC, Additional Ambarnath. Dist Thane. 421 502.
Maharashtra. Tel: 0251 260 5656 email:deepsunenergy@gmail.com



**DEEPSUN
ENERGY PVT. LTD.**

Save Energy | Save Earth | Go Green

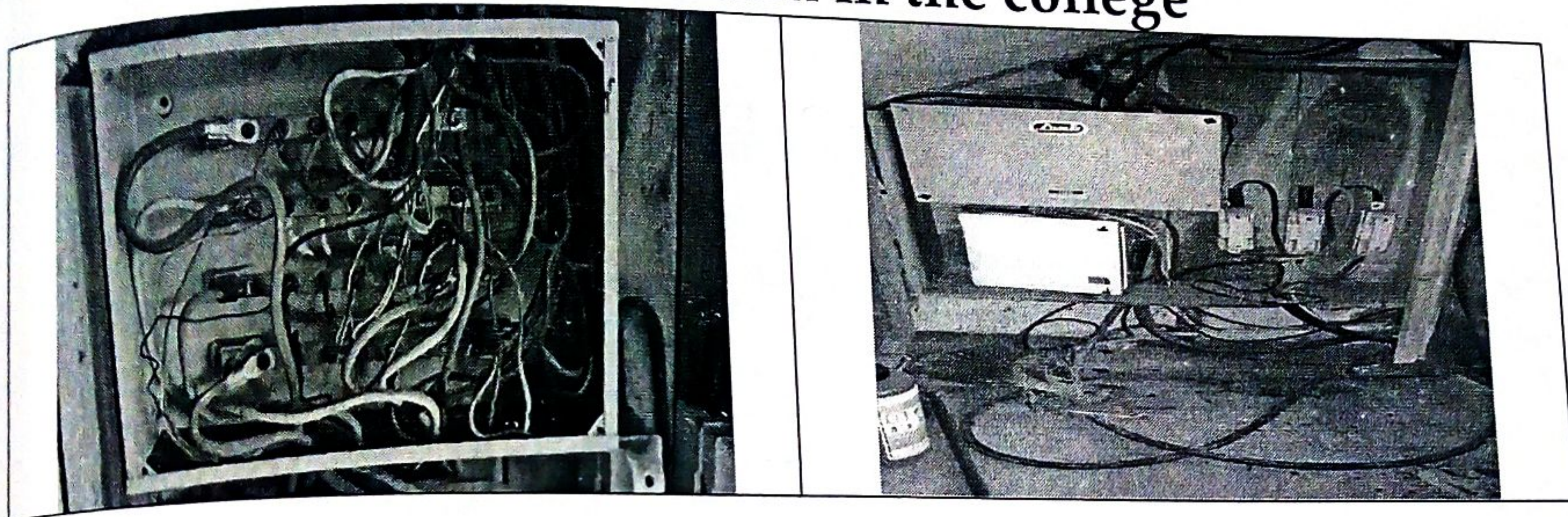
To, The Chairman
South Indian Children Education Society
SICES College, Jambhul Road
Ambarnath

Date: - 27th July 2015

Dear Sir

It was observed while Installation and Commissioning of Solar Power Plant that the Electrical power distribution is not in good condition. Electrical short circuit can happen any time. As shown in the photo below

Present situation in the college



So for precaution and to have safety measure in the college and solar power plant, we would like to install on urgent basis an MCCB Electrical Distribution panel with ELCB and all other safety features in the MCCB panel.

This panel will have following material AC Power Distribution Panel Board with ELCB, MCB, and Change over MCB Switch, KWH Meter.

This panel will be installed at the room available next to MSEB Meter Installed.

To installed above MCCB panel the cost of the Solar PV Power Plant Project will increase by Rs.1, 43,000.00/- (One Lac Forty Three Thousand only).

We request you to sanction this amount as early as possible.

It will take around 3 Week to Installed this Electrical Panel.

Thanks & Regards

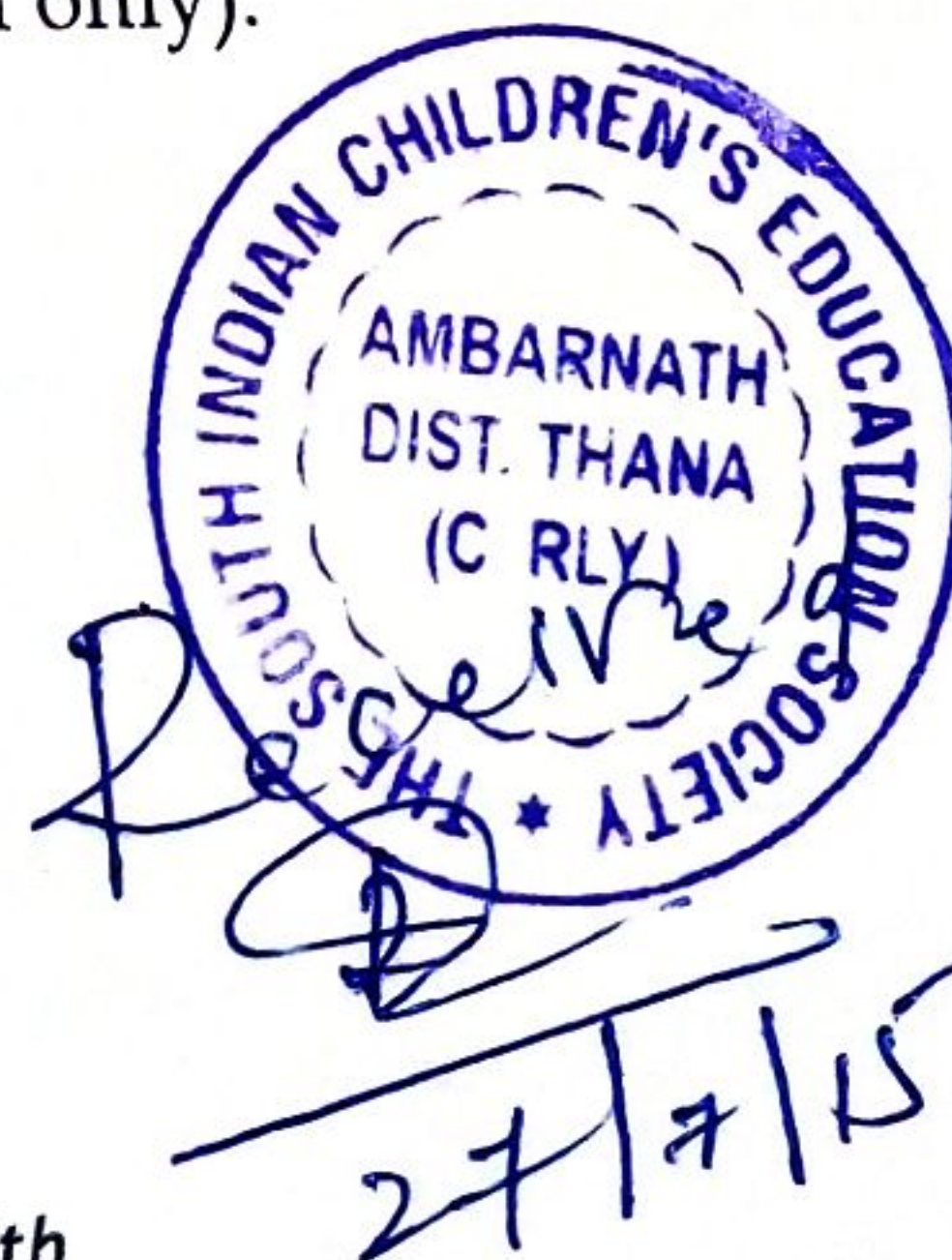
Yours Faithfully

For Deepsun Energy Pvt. Ltd.

Deepak Revankar

9881245204

deepsunenergy@gmail.com



The company you can grow greener with

W-111, Anand Nagar MIDC, Additional Ambarnath. Dist Thane. 421 502.
Maharashtra. Tel: 0251 260 5656 email: deepsunenergy@gmail.com

No. EE/KLN (R) / Tech/ R LS-LT/

No 0 1 4 5 1

Date : 11 1 APR 2016

To,
The Dy.Ex. Engineer
M.S.E.D.C.Ltd.,
Badlapur (W) S/Dn.

Sub: - Release of Roof Top Solar-PV system 53.1 KW load
to M/s.South Indian Children's Education Society
S.No.105A, H.No.23, Near Fatima High school,
Badlapur (W), Tal – Ambernath, Dist.Thane.

Ref.: 1) Load Sanction No.01 dt. 19.03.16
2) DYEE/BDL(W)Tech/214 dt.04.04.2016

With reference to load sanction given vide this office letter under reference no.(1) you are instructed to release Roof Top Solar-PV system 53.1 KW load to M/s.South Indian Children's Education Society S.No.105A, H.No.23, Near Fatima High school, Badlapur (W), Tal – Ambernath, Dist.Thane. The load details is as below -

Existing Load	Solar Load
73.90	53.1 KW

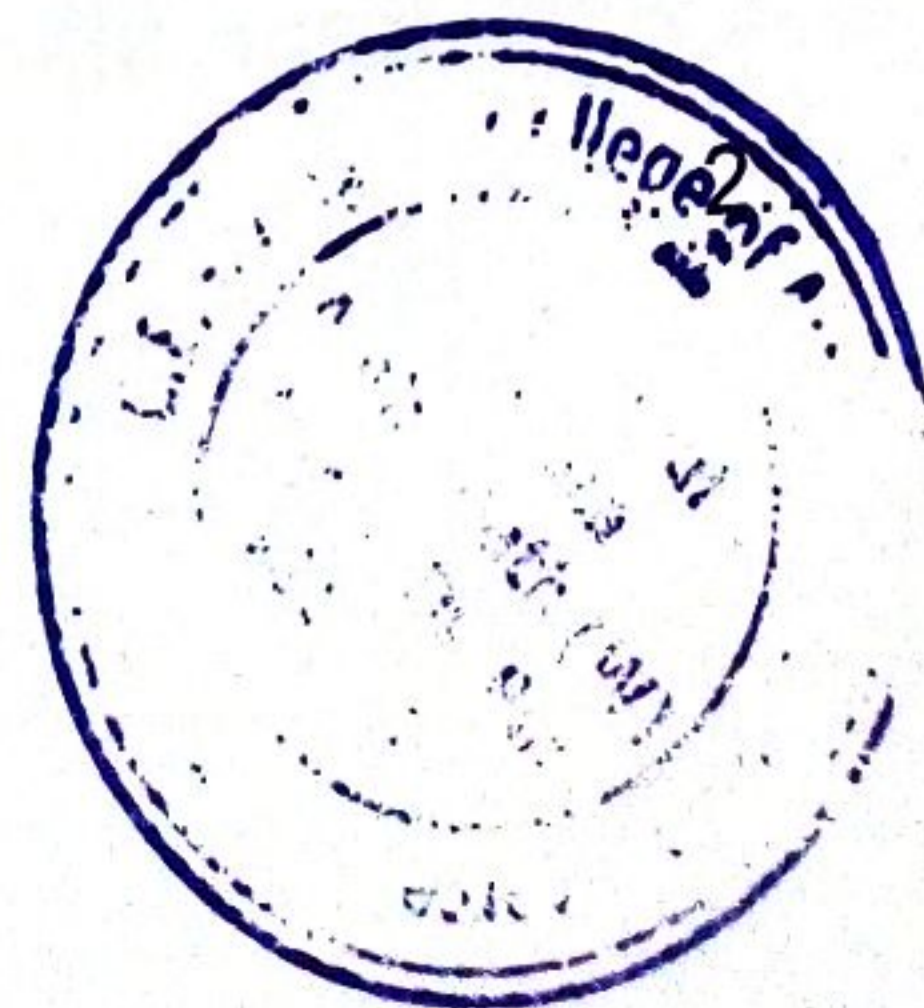
The applicant paid the necessary charges as under.

S.No.	Particulars	Amount Rs.	Money Receipt No.	Date
1	Meter Testing fee	1000/-	4490843	04.04.2016
2	Misc. charges	145.9/-	4490843	04.04.2016
	Total	1146/-		

Connection is to be released by observing all the formalities as per MSEDCL rules and regulations.

List of documents -

- | | | |
|--|---|-----------|
| 1. Wiring Test report for 53.1 KW load | - | Submitted |
| 2. FQ & payment receipt xerox | - | Submitted |



MAHARASHTRA STATE ELECTRICITY DISTRIBUTION COMPANY LIMITED
O&M SUBDIVISION BADLAPUR-W

Ref: DY. EE/BDL (W) / TECH /

207

DATE -

2/4/16

To,
The Executive Engineer,
M.S.E.D.C.L.
Testing Division


Sub: - Regarding testing of Solar PV net meter i/r of M/s SICES degree collage of arts science and comers, Chikhaloli , Badlapur-W, Tal:- Ambermath.

Ref :- 1) Est. Sanction No:- EE/KLN_R/TECH/Solar Energy/2015-16/ BDL-W-01
DT:19.03.2016.

In connection with above subject, you are requested to Solar PV net meter i/r of M/s SICES degree collage of arts science and comers, Chikhaloli , Badlapur-W, Tal:- Ambermath. Details of the same CTs are as follows

1	meter make	Secure
	meter Sr. No	X0057741
	Ratio	100/5 A

This is for your information and n.a. please.


Dy. Executive Engineer,
M.S.E.D.C.L.
Badlapur (W) S/Dn.

Copy s. w. r. to:-The Executive Engineer Kalyan-R Div-----For information please

Copy to : M/s SICES degree collage ---
for information please



OFFICE OF DEPUTY EXECUTIVE ENGINEER BADLAPUR-W SUB DIVISION
Room No. 3, Water Supply Colony, DattaChowk, Near Flyover Bridge, Badlapur(W),
Pin Code no. - 421503, Ph.No. 2674645 WebSite:www.mahadiscom.in
Email :sdo4755@ho.mahadiscom.in, sdo4755@rediffmail.com, bu4755@gmail.com.
For any complaint regarding electricity contact MSEDCL's toll free customer care.

MAHAVITARAN

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD. RECEIPT

SP/T-1102/0314
Collection Centre

054002

Rept. No. : 4490842

Name of Circle

: 014755006-Badlapur west sd/Date: 06 04-04-2016

4490842

Consumer No.

: 021920006067

/PC:0/BU:4755

Received From

: M/S. SAUTH INDIAN CHILDRENS EDUCATI

The sum of ₹ (In Words) Rs

One thousand Rupees Only

By

CASH

₹

1000.0

Dated :

Bank Name :

Meter Testing Charges

Ver No: 6.5.8
IFSC Code

For M.S.E.D.Co. Ltd.

Cashier

Registered Office : Plot No. G-9, Prakashgad, Prof. Anant Kanekar Marg, Bandra (E), Mumbai-400 051.

MAHAVITARAN

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD. RECEIPT

SP/T-1102/0314
Collection Centre

054002

Rept. No. : 4490843

Name of Circle

: 014755006-Badlapur west sd/Date: 06 04-04-2016

4490843

Consumer No.

: 021920006067

/PC:0/BU:4755

Received From

: M/S. SAUTH INDIAN CHILDRENS EDUCATI

The sum of ₹ (In Words) Rs

One Hundred forty Six Rupees

Only

By

CASH

₹

146.0

Dated :

Bank Name

Other Receipt.

Ver No: 6.5.8
IFSC Code

For M.S.E.D.Co. Ltd.

Cashier

Registered Office : Plot No. G-9, Prakashgad, Prof. Anant Kanekar Marg, Bandra (E), Mumbai-400 051.



MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD.
FIRM QUATATION / DEMAND NOTE

To, South Indian Children's Education Society,
Subhash Wadi, Ambernath-421 505.
Badlapur-W, Tal:- Ambernath

FQ No. _____

Date: 04.04.2016

L- _____

- 1 Ref No.
- 2 Estimate / L. S. No.
- 3 The amount payable at
- 4 DTC No.
- 5 Nearest consumer no.

EE/KLN R/TECH/SOLAR ENERGY/2015-16/BDL-W01 DT: 19.03.2016

Sr. no.	Particulars	Qty	Rate	Amount in
1	Type of service			
a	Single phase			
b	Three phase			
2	Total overhead length from the nearest distribution point			
3	Total Free Length admissiable			
4	Balance length chargeable at the rate of			
5	Cost of pole			
6	Other charges			
A	Toatl Cost			
B	1.3% supervision charges			
C	Service cnection charges 1.3%		Rs.	
D	Processing charges		Rs.	/-
E	Stamp charges for agreement 62.990-1		Rs.	/-
F	Security Deposite 48.100-9		Rs.	/-
G	Additional security deposite 48.100-9		Rs.	/-
H	LT CT meter Testing Fees		Rs.	/-
I	Reconnection fees 61.902-7		Rs.	1000 /-
J	Agreement Charges		Rs.	/-
k	Misc Charges (12.36 % service Tax)		Rs.	145.9 /-
	GRAND TOTAL A to I		Rs.	1146 /-

i) Note:- (work of laying the service line will be taken in hand on receipt of the above amount submitted)

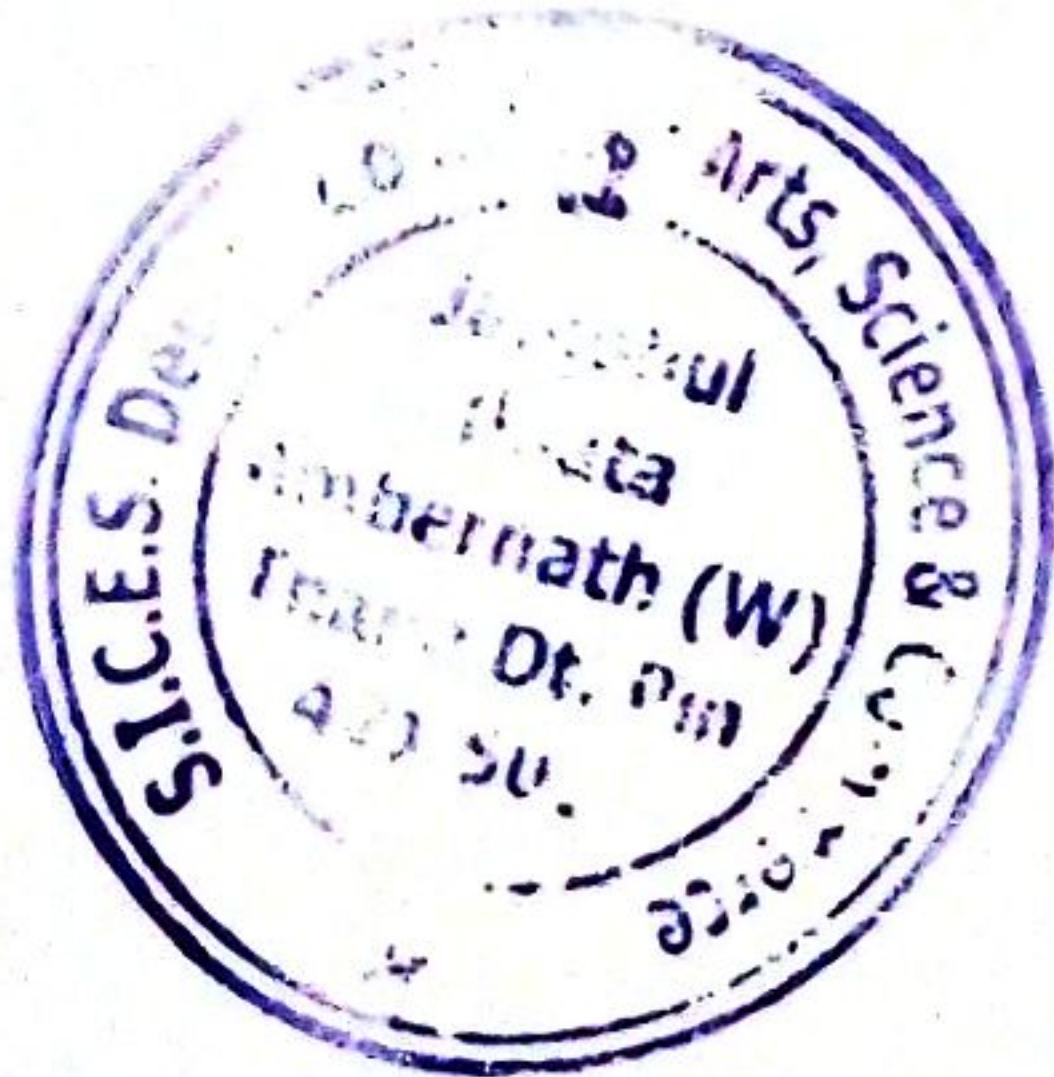
Dy. Executive Engineer
Maha Section

ii) The payment of Rupees 1146- (Rs. One Thousand One Hundred Fourty Six Rupees only) has been made vide vide money receipt no. _____ on dt. _____

iii) Forwarded to technical section on dt. _____

Bill Clector
Incharge of Billing Section

Consumer no.	21920006067
PC	0



MAHARASHTRA STATE ELECTRICITY DISTRIBUTION COMPANY LIMITED
O&M SUBDIVISION BADLAPUR-W

Ref: DY. EE/BDL (W) / TECH / ~~94~~ 214

DATE - 4.4.16

To,
The Executive Engineer,
M.S.E.D.C.L.
Testing Division

Sub: - Regarding testing of Solar PV net meter i/r of M/s SICES degree collage of arts science and commerce, Chikhaloli , Badlapur-W, Tal:- Ambermath.

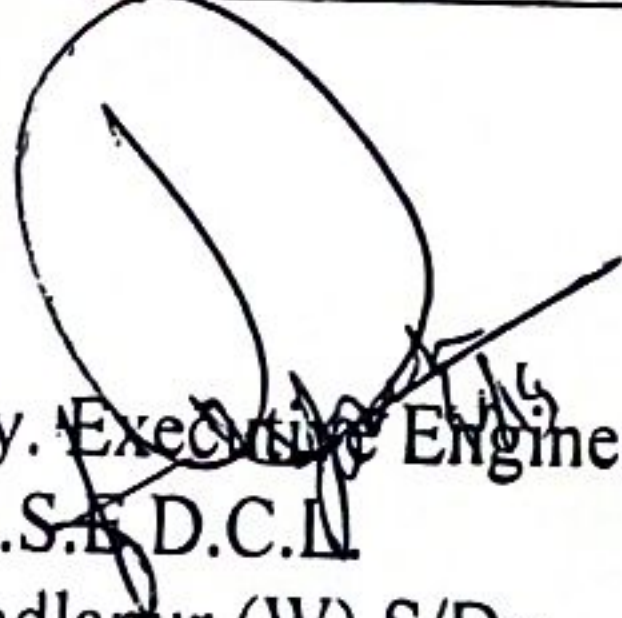
Ref:- 1) Est. Sanction No:- EE/KLN_R/TECH/Solar Energy/2015-16/ BDL-W-01
DT:19.03.2016.

In connection with above subject, you are requested to test Solar PV net meter i/r of M/s SICES degree collage of arts science and commerce, Chikhaloli , Badlapur-W, Tal:- Ambermath. Consumer has paid meter testing charges of Rs. 1146/- vide receipt no. 44908424 on dt. 04.04.2016. Details of the same are as follows

490843

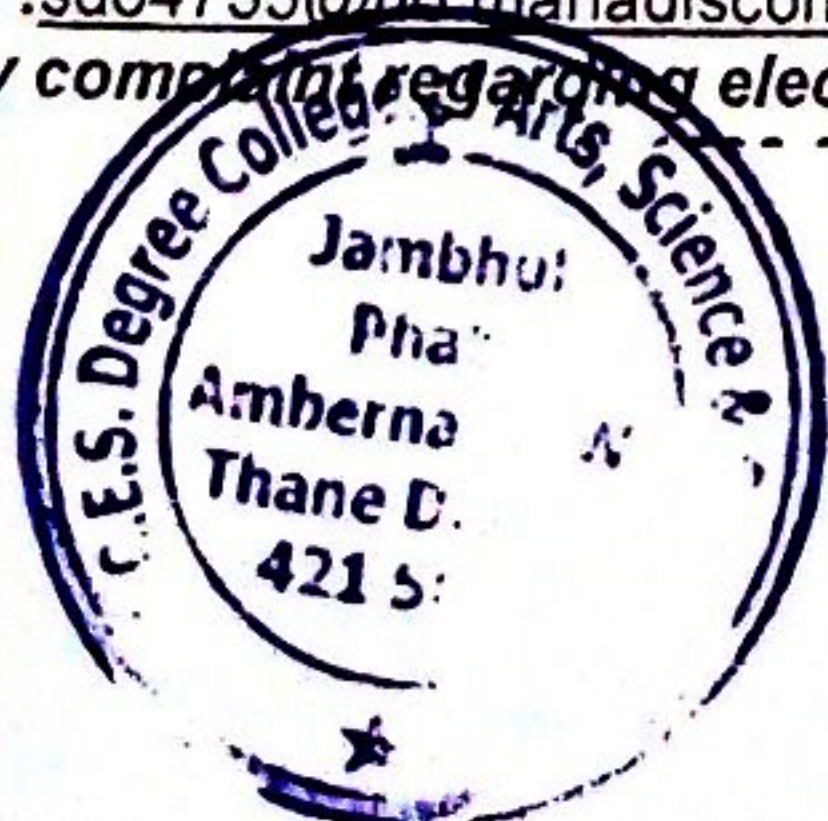
Sr. No.	Particulars	Details
1	Name of consumer	South Indian Children's Education Society,
2	Address	Subhash Wadi, Chikhaloli, Badlapur-W, Ambermath- 421 505.
3	Consumer No.	021920006067/0
4	meter make	Secure
5	meter Sr. No	X0057741
6	Ratio	100/5 A

This is for your information and n.a. please.


Dy. Executive Engineer,
M.S.E.D.C.L.
Badlapur (W) S/Dn.

Copy s. w. r. to:-The Executive Engineer Kalyan-R Div-----For information please

OFFICE OF DEPUTY EXECUTIVE ENGINEER BADLAPUR-W SUB DIVISION
Room No. 3, Water Supply Colony, DattaChowk, Near Flyover Bridge, Badlapur(W),
Pin Code no. - 421503, Ph.No. 2674645 WebSite: www.mahadiscom.in
Email : sdo4755@mahadiscom.in, sdo4755@rediffmail.com, bu4755@gmail.com.
For any complaint regarding electricity contact MSEDCL's toll free customer care.



METER TEST CERTIFICATES

Serial number : X0057741

voltage : 240V CT Ratio : 100/5A Accuracy Class : 0.5s Ref. Standard : IS:14697

- 1. AC VOLTAGE TEST
- 2. TEST OF NO LOAD CONDITION :- PASS
- 3. TEST OF STARTING CURRENT CONDITION :- PASS
- 4. INSULATION RESISTANCE TEST :- PASS
- 5. POWER CONSUMPTION :- PASS
- 6. TEST OF METERS CONSTANTS :- PASS
- 7. LIMIT OF ERROR :- PASS

7(a) Conditions-Vref = 240V Ib = 5A Amb. Temp. = 27 +/- 2 Deg. C Relative Humidity < 70%.
 7(b) Errors shown in the tables are given after accounting the error of reference meter.
 7(c) Reference meter serial no. BTLT1008 class 0.2S traceable to national & international standards.

IMPORT MODE ERRORS

(d) %Active Errors(Balance Mode 3p4w)				(e) %Reactive Errors(Balance Mode 3p4w)			
Load % Ib	0.5 Lag	0.8 Lead	UPF	Load % Ib	0.5 Lag	0.8 Lead	UPF
200	0.00	-0.04	-0.03	200	0.06	0.02	
100	0.15	0.01	0.06	100	0.03	0.09	
10	0.08	0.02	0.03	10	0.00	0.10	
5			0.01				
2	0.02	0.02					
1			0.17				

EXPORT MODE ERRORS

(d) %Active Errors(Balance Mode 3p4w)				(e) %Reactive Errors(Balance Mode 3p4w)			
Load % Ib	0.5 Lag	0.8 Lead	UPF	Load % Ib	0.5 Lag	0.8 Lead	UPF
200	0.07	0.00	0.02	200	-0.02	0.08	
100	0.16	0.04	0.08	100	0.05	0.10	
10	0.14	0.01	0.04	10	0.00	0.14	
5			0.03				

Date :- 26/03/2016

This is computer generated test certificate no signature required





**S.I.C.E. SOCIETY'S
DEGREE COLLEGE OF ARTS, SCIENCE AND COMMERCE**

SCIENCE FACULTY GRANT-IN-AID

Affiliated to the University of Mumbai

Regd. No: NGC/2009/(152/09)/Mashi-4 Dt.11/08/20009

Jambhul Phata, Chikloli, Ambernath (W)-421505.

E-mail:sicesdegreecollege@gmail.com

Tel:0251-2685264, 2689946

JDHE College Code: T- 44

University College Code:961

Ref:SICES/MSEB/925/2015-16

Date: 2nd April 2016

To,
The Dy. Executive Engineer
Badlapur West Sub Division Office
Maharashtra State Electricity Distribution Co. Ltd
Badlapur
Dist Thane

Sub: Offering Solar PV Net METER for Testing

Dear Sir,

As per your sanction letter for installation of NET METER for, SICES Degree College of Arts, Science and Commerce, Jambhul Phata Chikhloli Ambernath West

Letter Reference no: EE/KLN/N0.01171 on dated 19th March 2016

Load Sanction Order Number: EE/KLN/Tech/Solar Energy/2015-16/BDL(W)-01 Dt:19/3/2016

Make: SECURE

Meter Serial Number: X0057741

We have procured NET Meter From SECURE Company, Specification Sheet Attached.
100A/5A 3 phase 4 wire CT operated Net Meter.
We offer this meter and request you to do Meter Testing as per your standards and
Installed as early as possible.
And request to do the needful.

Thanking you.



Harshal M. Bachhav
Dr. Harshal M. Bachhav

I/c Principal

S.I.C.E.S. Degree College of Arts, Science & Commerce
Ambernath - 421 505

(A Govt. of Maharashtra Undertaking)

CIN: U40109MH200SSGC153645

Office of the Executive Engineer,

Maharashtra State Electricity Distribution Company Limited

O&M Kalyan Rural Division, "Tejashree", 4th Floor, Jahangir Maidan, Karnik Road, Kalyan (West) 421 301

Tel: 321584 (O) Ext. 401, E-mail :- eekalyanr@gmail.com

Ref. EE/KLN@/Tech/

No 01171

Dated -

19 MAR 2016

To,
M/s. South Indian Children's Education Society
at village Chikhloli, Jambhul Road, Badlapur (W),
Tal - Ambernath, Dist. Thane

Sub :- Sanction for Roof Top Solar-PV System under Net-Metering at above address.

- Ref:-**
- 1) Technical Feasibility DYEE/T/90 Dt. 14.03.2016.
 - 2) Existing Consumer No. 021920006067 (LT I)
 - 3) DTC Code No: - 4149001.
 - 4) Application received Date. 18.12.2015.

In exercise of the Maharashtra State Electricity Regulatory Commission circular no.258, ref. No.Comm./CP/Net-metering/3051 dt.25.01.2016 & their notification (Net Metering for Roof-top Solar Photo Voltaic Systems) Regulations, 2015 on 10th September, 2015 & subsequent guidelines of MSEDCL for installation of Solar PV systems on Rooftop or any mounting structure by the existing/new consumers of MSEDCL in their premises for captive use purpose, the undersigned is pleased to sanction the load for Solar PV at above mentioned address.

Particulars	Solar PV load	Maximum Demand (KVA)	Purpose.
New		--	(Roof Top Solar-PV System)
Existing	73.90 KW	--	
Solar	53.1 KW	--	
TOTAL		--	

This sanction for Roof Top Solar-PV System is subject to the following conditions:

1. Validity: - The validity of this sanction is for a period of six months from date of issue. You are ensuring to make necessary payment within the validity and ensure that you receive power/load within a period of six months thereafter. You will have to avail the load/supply within stipulated period as per the applicable tariff.
2. The sanction load of existing consumer 021920006067 is 73.90 KW & (LT-I) Commercial tariff is applicable for the same.
3. Payments:- The Please arrange to make the payments as detailed below.

4.		Amount in Rupees.
S.N.	Particulars	
		0.00
1	LT Agreement Charges.	1000.00
2	Registration Fee for Roof Top Net Metering	1000.00
	Grand Total in Rupees.	
	Rupees Five Hundred Only.	

5. The cumulative capacity of all Rooftop Solar PV systems under net metering arrangements connected to a particular Dist Transformer shall not exceed 40% of its rated capacity.

6. The variation in the capacity of the solar PV system shall be allowed within a range of 5%.

7. Metering: - The Metering will be provided by MSEDCL.

8. Voltage Level:-

Voltage level	Threshold limit of Rooftop Solar PV system
230/240 V(1 Φ)	Less than 8 kW/40 A
400/415 V(3 Φ)	Less than 150kW/187 KVA (in Municipal Corporation areas) Less than 80kW/100 KVA (in other areas)
11kV and above	Above 150KW/187 KVA and less than 1000 KVA (in Mumbai Metropolitan Region) Above 80 kW/100 KVA and less than 1000 KVA (in other areas)

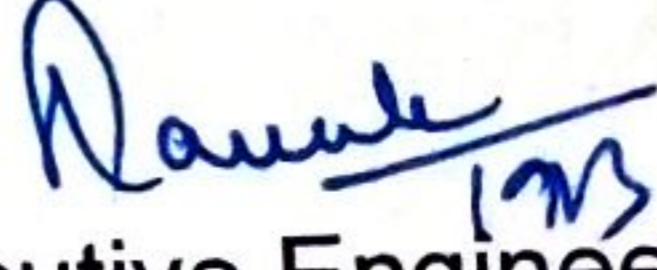
9. Net Metering Arrangement" means an arrangement under which a Roof-top Solar PV System with Net Meter installed at an Eligible Consumer's premises delivers surplus electricity, if any, to the Distribution Licensee (i.e. MSEDCL) after setting off the quantum of electricity supplied by such Licensee during the applicable Billing Period.

10. The consumer may install or enhance the capacity of or upgrade the rooftop Solar PV systems at different locations within same premises, however the total capacity of such systems within the same premises shall not exceed the individual capacity limits as above.

11. Agreement:- The Consumer shall enter into a Net Metering Connection Agreement after approval of connectivity of the Roof-top Solar PV System with the distribution network but before the start of actual generation from the System. The consumer is required to execute stamped agreement as per prescribed agreement from. The cost of the stamp will be borne by Consumer only.

12. Validity of Payment: - The validity for payment is Thirty (i.e. 30) days from sanction.
13. The said load (i.e. 53.1 KW) is accorded for Roof Top Solar-PV System under Net-Metering purpose only.
14. Acceptance: - Please arrange to submit your acceptance in writing for the above terms and conditions. On completion of the above formalities, further action for extending Roof Top Solar-PV System under Net-Metering. In case of any doubt/difficulty or clarification needed, you are requested to note the requirements/formalities carefully and arrange to comply deficiencies, if any, before making payment in your own interest, so as to avoid any inconvenience/delay.
15. Load Sanction No. EE/KLN®/Tech/Solar Energy / 2015-16 / BDL (W)/ 01
dt.19.03.2016

Thanking You.


Executive Engineer
MSEDCL, Kalyan Rural Division

Copy to:-

1. The Dy.Ex.Engineer, MSEDCL, O&M Sub Division, Badlapur (W).
.....For Your Information.
2. Asst.Engineer, Manjarli Section

Copy to:-

The Dy. Manager (Revenue), MSEDCL, O&M Division, Kalyan Rural Division

For Ambarnath Jai-Hind Co-op. Bank Ltd., Ambarnath
Ambarnath

Authorised Signatory

AMBARNATH JAI-HIND BANK LTD
AMBARNATH, 42, LOKMANYA
TILAK PATH
AMBARNATH (WEST) - 421 501
D-5/STP(V)/C.R.1084/01/09/645-48/09

भारत 31455 SPECIAL ADHESIVE महाराष्ट्र
186303 MAR 17 2016
ZERO ZERO ZERO ZERO TWO ZERO ZERO 11:21
R.0000200/- PB6610
INDIA STAMP DUTY MAHARASHTRA

Net Metering Connection Agreement

This Agreement is made and entered into Kalyan on this 18th March 2016 between the Eligible Consumer "South Indian Children Education Society" Junior College SICES having premises at Jambhul Road, Ambarnath (E) and Consumer No.021920006067 as the first Party,

AND

The Distribution Licensee "Maharashtra State Electricity Distribution Co. Ltd." MSEDCL (hereinafter referred to as 'the Licensee') and having its Registered Office at Tejashree Building Kalyan as second Party of this Agreement;

Whereas, the Eligible Consumer has applied to the Licensee for approval of a Net Metering Arrangement under the provisions of the Maharashtra Electricity Regulatory Commission (Net Metering for Roof-top Solar Photo Voltaic Systems) Regulations, 2015 ('The Net Metering Regulations') and sought its connectivity to the Licensee's Distribution Network ;

And whereas, the Licensee has agreed to provide Network connectivity to the Eligible Consumer for injection of electricity generated from its Roof-top Solar PV System of 53.1 KWp kilowatts;

Both Parties hereby agree as follows:-

1. Eligibility:

The Roof-top Solar PV System meets the applicable norms for being integrated into the Distribution Network, and that the Eligible Consumer shall maintain the System accordingly for the duration of this Agreement.

2. Technical and Inter-connection Requirements:

2.1 The metering arrangement and the inter-connection of the Roof-top Solar PV System with the Network of the Licensee shall be as per the provisions of the Net Metering Regulations and the technical standards and norms specified by the Central Electricity Authority for connectivity of distributed generation resources and for the installation and operation of meters.

2.2 The Eligible Consumer agrees, that he shall install, prior to connection of the Roof-top solar PV system to the network of the Licensee, an isolation device (both automatic and in built within inverter and external manual relays); and the Licensee shall have access to it if required for the repair and maintenance of the Distribution Network.

2.3 The Licensee shall specify the interface/inter-connection point and metering point.

2.4 The Eligible Consumer shall furnish all relevant data, such as voltage, frequency, circuit breaker, isolator position in his System, as and when required by the Licensee.

3. Safety:

3.1 The equipment connected to the Licensee's Distribution System shall be compliant with relevant International (IEEE/IEC) or Indian Standards (BIS), as the case may be, and the installation of electrical equipment shall comply with the requirements specified by the Central Electricity Authority regarding safety and electricity supply.

3.2 The design, installation, maintenance and operation of the Roof-top Solar PV System shall be undertaken in a manner conducive to the safety of the Roof-top Solar PV System as well as the Licensee's Network.

3.3 If, at any time, the Licensee determines that the Eligible Consumer's Roof-top Solar PV System is causing or may cause damage to and/or results in the Licensee's other consumers or its assets, the Eligible Consumer shall disconnect the Roof-top Solar PV System from the distribution Network upon direction from the Licensee, and shall undertake corrective measures at his own expense prior to re-connection.

3.4 The Licensee shall not be responsible for any accident resulting in injury to human beings or animals or damage to property that may occur due to back-feeding from the Roof-top Solar PV System when the grid supply is off. The Licensee may disconnect the installation at any time in the event of such exigencies to prevent such accident.

4. Other Clearances and Approvals:

The Eligible Consumer shall obtain any statutory approvals and clearances that may be required, such as from the Electrical Inspector or the municipal or other authorities, before connecting the Roof-top Solar PV System to the distribution Network.

5. Period of Agreement, and Termination:

This Agreement shall be for a period for 20 years, but may be terminated Prematurely

(a) By mutual consent; or

(b) By the Eligible Consumer, by giving 30 days' notice to the Licensee ;

(c) By the Licensee, by giving 30 days' notice, if the Eligible Consumer breaches any terms of this Agreement or the provisions of the Net Metering Regulations and does not remedy such breach within 30 days, or such other reasonable period as may be provided, of receiving notice of such breach, or for any other valid reason communicated by the Licensee in writing.

6. Access and Disconnection:

6.1 The Eligible Consumer shall provide access to the Licensee to the metering equipment and disconnecting devices of Roof-top Solar PV System, both automatic and manual, by the Eligible Consumer.

6.2 If, in an emergent or outage situation, the Licensee cannot access the disconnecting devices of the Roof-top Solar PV System, both automatic and manual, it may disconnect power supply to the premises.

6.3 Upon termination of this Agreement under Clause 5, the Eligible Consumer shall disconnect the Roof-top Solar PV System forthwith from the Network of the Licensee.

7. Liabilities:

7.1 The Parties shall indemnify each other for damages or adverse effects of either party's negligence or misconduct during the installation of the Roof-top Solar PV System, connectivity with the distribution Network and operation of the System.

7.2 The Parties shall not be liable to each other for any loss of profits or revenues, business interruption losses, loss of contract or goodwill, or for indirect, consequential, incidental or special damages including, but not limited to, punitive or exemplary damages, whether any of these liabilities, losses or damages arise in contract, or otherwise.

8. Commercial Settlement:

8.1 The commercial settlements under this Agreement shall be in accordance with the Net Metering Regulations.

8.2 The Licensee shall not be liable to compensate the Eligible Consumer if his Rooftop Solar PV System is unable to inject surplus power generated into the Licensee's Network on account of failure of power supply in the grid/Network.

8.3 The existing metering System, if not in accordance with the Net Metering Regulations, shall be replaced by a bi-directional meter (whole current/CT operated) or a pair of meters (as per the definition of 'Net Meter' in the Regulations), and a separate generation meter may be provided to measure Solar power generation. The bi-directional meter (whole current/CT operated) or pair of meters shall be installed at the inter-connection point to the Licensee's Network for recording export and import of energy.

8.4 The uni-directional and bi-directional or pair of meters shall be fixed in separate meter boxes in the same proximity.

8.5 The Licensee shall issue monthly electricity bill for the net metered energy on the scheduled date of meter reading. If the exported energy exceeds the imported energy, the Licensee shall show the net energy exported as credited Units of electricity as specified in the Net Metering Regulations, 2015. If the exported energy is less than the imported energy, the Eligible Consumer shall pay the Distribution Licensee for the net energy imported at the prevailing tariff approved by the Commission for the consumer category to which he belongs.

9. Connection Costs:

The Eligible Consumer shall bear all costs related to the setting up of the Roof-top Solar PV System, excluding the Net Metering Arrangement costs.

10. Dispute Resolution:


10.1 Any dispute arising under this Agreement shall be resolved promptly, in good faith and in an equitable manner by both the Parties.

10.2 The Eligible Consumer shall have recourse to the concerned Consumer Grievance Redressal Forum constituted under the relevant Regulations in respect of any grievance regarding billing which has not been redressed by the Licensee.

In the witness where of Shri. KMS Nair for and on behalf of Eligible Consumer and Shri. S V Tawade for and on behalf of MSEDCL agree to this agreement and the parties here to have exacted in presents the day and year first above written

Signed and delivered by

Shri. S V Tawade. Executive Engineer

Signature 
17/3/16
Executive Engineer
M.S.E.D. C.L. (R) Div. Kalyan
(MSEDCL)

On behalf of the "Maharashtra State Electricity Distribution Co. Ltd." (MSEDCL)
Kalyan

In the presence of

1) Name: Shri Surendra D. Dange


Signature 
17/3/16
Dy. Exe. Engineer
M.S.E.D.C. Ltd.
Kalyan (R) Div. Kalyan.

2) Name: Shri

Signature _____

Signed and delivered by

❖ Name of the consumer : Shri.KMS Nair

Signature 


President "South Indian Children Education Society" (SICES) Ambernath
For and on behalf of Eligible Consumer

In the presence of

1) Name: Shri Deepak R. Revankar

Signature 

2) Name: Shri Jitendra J. Saindane

Signature 

❖ The consumer shall disclose his full identity by stating whether and Individual, Firm, Corporation, Education institution.

S.I.C.E.S. DEGREE COLLEGE OF ARTS, SCIENCE & COMMERCE

Date : 20-11-2015

Name Of The Party : MSEDCL
 Account Head : Office Expenses A/c
 Allocation : Electricity Bill from 10/10/15 to 10/11/15
 Authority / P.O. : Passed in Committee Meeting

Sr. No.	Challan Details		Bill Details		Amt.	Deduction		Total	Net Amount
	Nos.	Date	Nos.	Date		Dis.			
	Consumer no. 021920006067				61,840.00				
					61,840.00				61,840.00

Rupees:- Sixty One Thousand Eight Hundred and Forty Only

Prepared By
Rajiv

Verified By
[Signature]
 Principal

The above mentioned bill has been verified by the undersigned & as such recommended for payment.

Signature I
[Signature]
 0827/11

Treasurer
[Signature]

Signature II
[Signature]
 President

Secretary

Request No.

Date:-

Bank:- Axis Bank

A/c. No.910010018687133

Receiver's Signature

Unit	Rate %	Amount Rs.
Residential	0	0.00
Commercial	0	0.00
E.D. on (Rs.)	9.3	0.00
	16	0.00
	21	8035.62
Total		38,264.88

Other Charges	U.00
Tax on Sale @ 9.04 Ps/U	189.30
P.F. Penal Charges / P.F. Incentive	15,688.60
Charges For Excess Demand	0.00
	0.00
Debit Bill Adjustment	195.87
TOTAL CURRENT BILL	62,374.27
Current Interest 16/11/2015	1.42
Principal Arrears	0.03
Interest Arrears	0.00
Total Bill Amount (Rounded) Rs.	62,380.00
Delayed Payment Charges Rs.	1,247.49
Amount (Rounded) Payable After 04-12-2015	63620.00

in words) Rupees **SIXTY - TWO THOUSAND THREE HUNDRED EIGHTY ONLY**

Security Deposit Head Rs. 74,000.00
 Addl. S.D. Demanded Rs. 0.00
 S. D. Arrears Rs. 0.00

CUSTOMER CARE
 Toll Free No. : 1800-233-3435
 1800-200-3435

BILL MONTH	OCT-15	SEP-15	AUG-15	JUL-15	JUN-15	MAY-15
UNITS	2,586	2,796	3,352	3,136	1,952	2,676
AMOUNT	66,304	50,000	62,000	61,178	37,000	47,900

www.flyvsar.com
 9422235898
 bookings@flyvsar.com

PTO
[Signature]
 Chief Engineer (Commercial)
 Maharashtra State Electricity Distribution Co. Ltd
 F & O.F.





S. I. C. E. SOCIETY'S DEGREE COLLEGE OF ARTS, SCIENCE AND COMMERCE

SCIENCE FACULTY (GRANT - IN - AID)
Affiliated to the University of Mumbai

Jambhul Phata, Chikhlioli, Ambarnath (West) - 421 505. Tel. : 0251-2685264
E-mail : helpdesk@sicessocietyambarnath.com E-mail : sicesdegreecollege@gmail.com
Website : sicessocietyambarnath.com

Date: 21th December 2015

To,
The Executive Engineer
Testing Division, Tejashree Building, Ground Floor Circle Office
Maharashtra State Electricity Distribution Co. Ltd
Kalyan West, Dist Thane

Sub: Solar PV Net Metering METER Approval (under Roof-top Solar PV System)
Ref: Sanction Letter EE / KLN@ / Tech / 01171 Dated on 19th March 2016

Dear Sir,

We, SICES Degree College of Arts, Science and Commerce, Jambhul Phata Chikhlioli Ambarnath West are your consumer, Details as follow:

- Consumer Name: **South Indian Children's Education Society (SICES)**
- Consumer Number : 021920006067
- Meter Number :055_MSP22910
- Sanction Load: 73.90 KW.

We has installed solar power plant of capacity 53.1 KWp on our building terrace recently, and we had applied for the facility of NET METERING for roof top solar system. Received your approval & sanction letter, copy attached & we have already paid registration fees.

As per our market study for NET METER we had a concluded that only SECURE company is manufacturing and supplying Net Meter in India. For our case we required 100A/5A 3 phase 4 wire CT operated Net Meter.

Specification sheet of above Secure Net Meter is attached.

We require your approval to buy above meter and supply for testing in your department. And request to do the needful

Thanking you.

Deepak Revankar

In-charge for Solar Project SICES





**S. I. C. E. SOCIETY'S
DEGREE COLLEGE OF ARTS, SCIENCE AND COMMERCE**

SCIENCE FACULTY (GRANT - IN - AID)
Affiliated to the University of Mumbai

Jambhul Phata, Chikhlioli, Ambarnath (West) - 421 505. Tel. : 0251-2685264
E-mail : helpdesk@sicessocietyambarnath.com E-mail : sicesdegreecollege@gmail.com
Website : sicessocietyambarnath.com

Ref: SICES/MSEB/ /2015-16

Date: 01/04/2016

To,

Dy. Ex. Engineer
M.S.E.D.L
Badlapur (W)

Sub:- Sanction for Energy meter for rooftop Pv Solar System

Sir, We have Procure Energy meter For our solar power plant at, our college Building as per your letter Reference Ref. EE/KLN®/ No. 01171 on dated 19 th March 2016,

Load Sanction No. EE/KYN®/Tech/Solar Energy/2015-16/BDL (W)/01 dt. 19/03/2016

Make :- SECURI

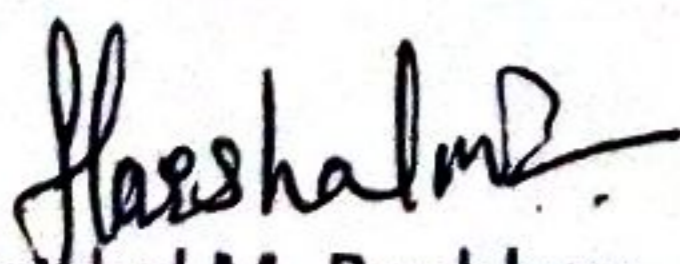
Serial No.:- X0057741

Copy of Test report is attached,

Please do the needful as early as possible,

Thanking you

Regards,


Dr. Harshal M. Bachhav

I/c Principal

S.I.C.E.S. Degree College of Arts, Science & Commerce
Ambarnath - 421 505





S.I.C.E. SOCIETY'S
DEGREE COLLEGE OF ARTS, SCIENCE AND COMMERCE
SCIENCE FACULTY (GRANT - IN - AID)
Affiliated to the University of Mumbai

JDHE Code: T-44
University Code: 961

Jambhul Phata, Chikholi, Ambarnath (W)-421505. Dist. Thane (MS) Tel : 0251-2685264, 2689946
E-mail: sicescollege@gmail.com Website: www.sicescollege.edu.in

07/10/2020

SICESC/3597/2020-21

To:
The Deputy Engineer/Accountant,
MSEDCL,
Badlapur

Sub : Issue of inflated bill

Consumer No : 021920006067

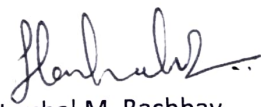
Sir,

This is to inform you that we have installed solar panel of 50 KW capacity (30 KW + 20 KW) in our college and have been receiving the bill with Solar Net Meter Banking details. We had paid the electric bill up to the month of Feb 2020. In the month of March 2020, we had received a bill of Rs. 19,780/- for billing of 444 units & with 4222 units in our Solar Bank. From the month of March 2020, our college is in lockdown due to Covid-19 pandemic. During this period till to date our solar panel is continuously working and we haven't consumed any extra units due to the lockdown. In the month of Aug'2020 we received a bill of Rs. 1,13890/- against 1237 units and with 8772 units in our Solar Bank. But in this bill, the previous banking units in the Solar Bank are shown as zero. This is not possible as during this period our college was in continuous lockdown and how come the units in our solar bank is reduced from 4222 units to zero units within 5 months without any consumption. After that in the month of Sept'2020, we received a bill of Rs. 1,34,670/- against 241 units and with 8772 units in our solar bank.

Sir, we request you to kindly rectify the inflated bill issued to us in the month of August 2020 and send us the correct bill with proper Solar Net Banking units for making the payment at the earliest.

Thanking you,

Yours faithfully,


Dr. Harshal M. Bachhav,

Incharge Principal

I/c Principal

S.I.C.E.S. Degree College of Arts, Science & Commerce
Ambarnath - 421 505



8/10/2020

SICES Degree College of Arts, Science and Commerce,
Chikloli, Jambhul Phata, Ambarnath (W)

The summary of units consumption as per the MSEDCL monthly bills

Year	Sr. No.	Month	Units	
			Consumed	Electricity Bill
2015	1	January	3038	57865
	2	February	3458	63668
	3	March	3200	24180
	4	April	4922	79897
	5	May	2676	47900
	6	June	1952	37659
	7	July	3136	61178
	8	August	3352	63763
	9	September	2796	56736
	10	October	2586	66394
	11	November	2094	62374
	12	December	1514	27647
2016	13	January	1420	28097
	14	February	1500	30619
	15	March	1756	30010
	16	April	1798	26121
	17	May	816	14786
	18	June	352	12060
	19	July	2476	31565
	20	August	3120	61078
	21	September	4220	43968
	22	October	386	22123
	23	November	0	7260
	24	December	0	7260

[Signature]
05/03/2021
IQAC COORDINATOR
SICES DEGREE COLLEGE OF ARTS, SCIENCE & COMMERCE
Jambhul Phata, Ambarnath (W)

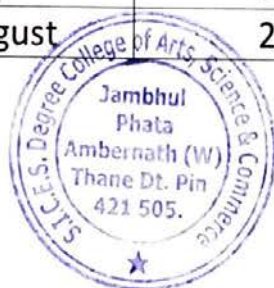


2017	25	January	66	11863
	26	February	0	7260
	27	March	1074	18401
	28	April	252	10583
	29	May	138	9443
	30	June	128	9607
	31	July	88	9155
	32	August	320	11267
	33	September	174	9827
	34	October	170	9758
	35	November	192	10061
	36	December	184	9977
2018	37	January	216	10359
	38	February	154	9763
	39	March	158	9777
	40	April	182	10566
	41	May	125	10444
	42	June	102	9838
	43	July	984	17476
	44	August	606	14456
	45	September	202	13986
	46	October	171	13767
	47	November	214	19273
	48	December	192	18991
2019	49	January	217	19396
	50	February	210	19149
	51	March	165	18659
	52	April	262	20488
	53	May	231	20266
	54	June	249	19799
	55	July	1534	34239
	56	August	2256	40728

(Signature) 05/05/2021

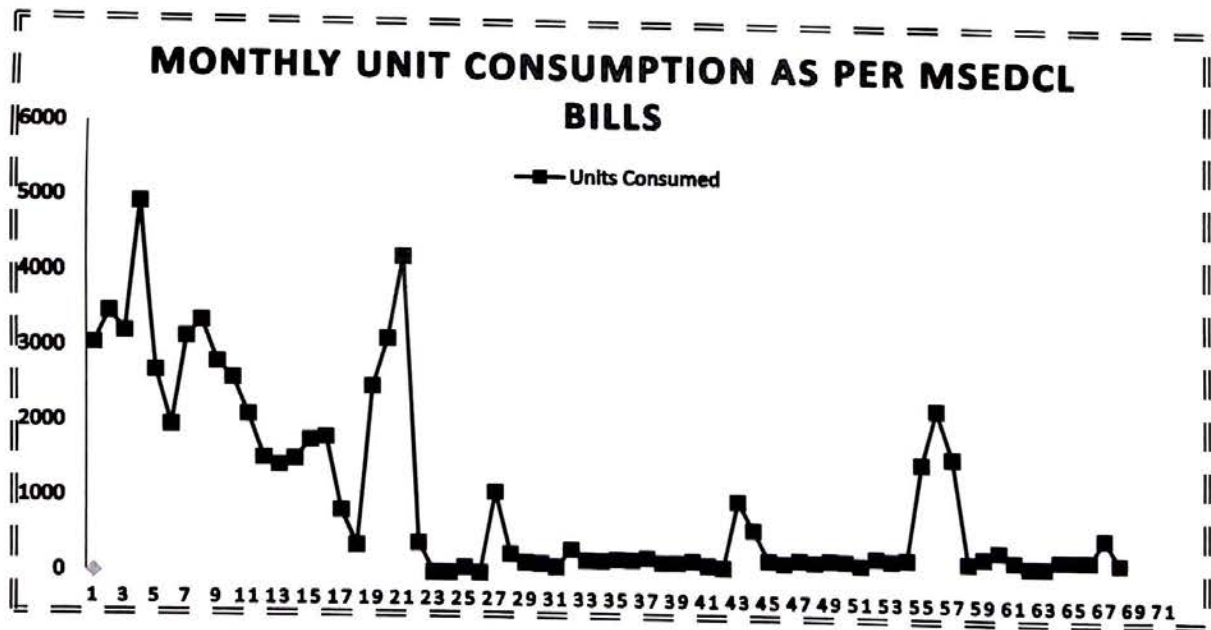
IQAC COORDINATOR

SICES DEGREE COLLEGE OF ARTS, SCIENCE & COMMERCIAL
Jambhul Phata, Ambarnath (W)



	57	September	1617	34957
	58	October	218	19727
	59	November	289	21041
	60	December	381	22167
2020	61	January	252	20572
	62	February	177	19597
	63	March	177	19529
	64	April	272	23895
	65	May	272	23895
	66	June	272	21859
	67	July	565	18191
	68	August	242	19580

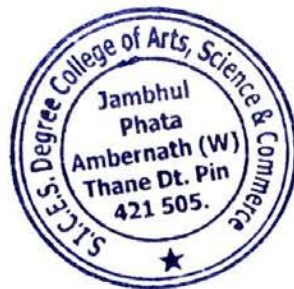
The graphical representation of the month wise electricity unit consumption

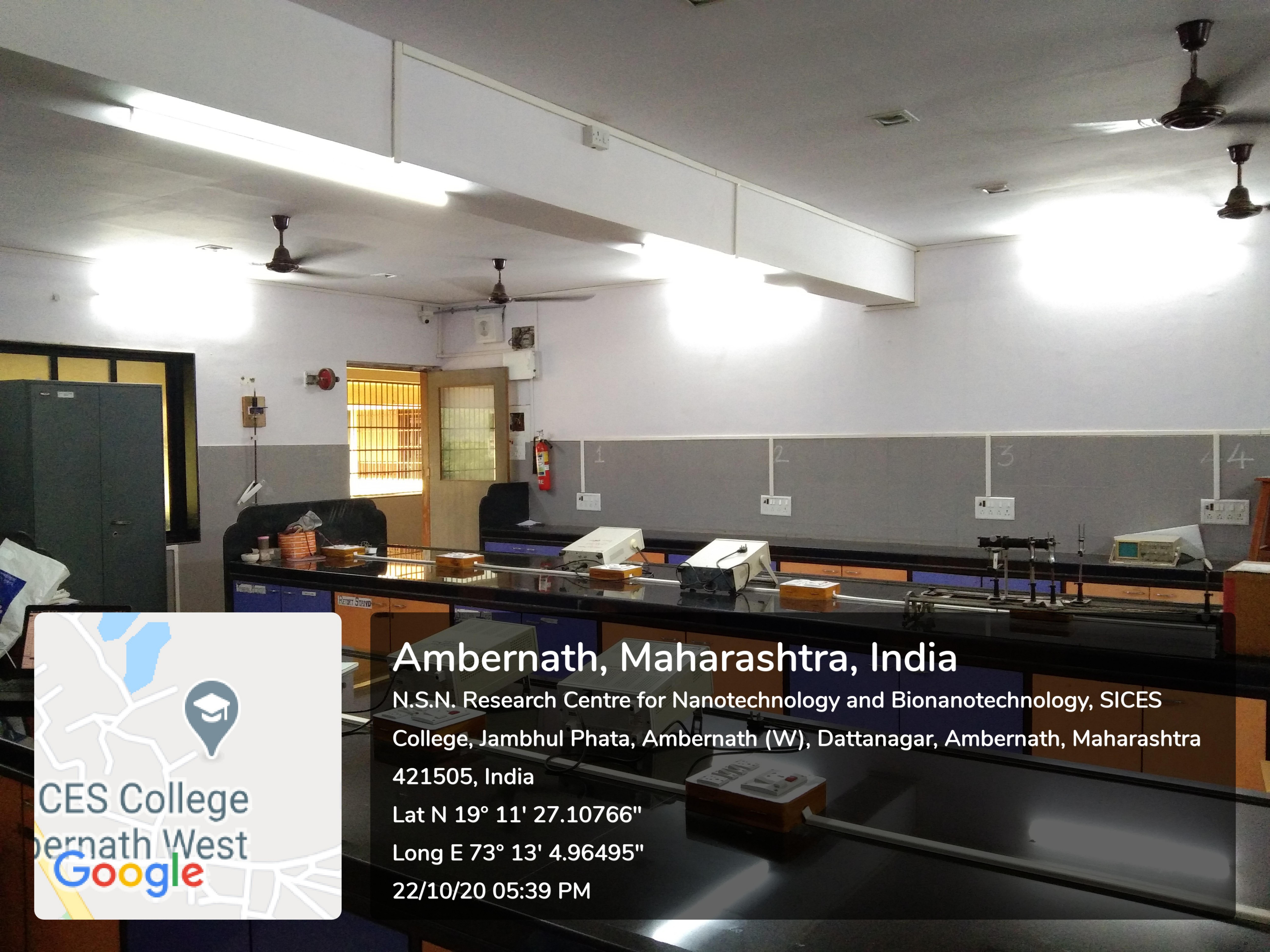


(Signature)
19/10/2020

IQAC COORDINATOR

SICES DEGREE COLLEGE OF ARTS, SCIENCE & COMMERCE
Jambhul Phata, Ambernath (W),





Ambarnath, Maharashtra, India

N.S.N. Research Centre for Nanotechnology and Bionanotechnology, SICES
College, Jambhul Phata, Ambarnath (W), Dattanagar, Ambarnath, Maharashtra
421505, India

Lat N 19° 11' 27.10766"

Long E 73° 13' 4.96495"

22/10/20 05:39 PM

LED TUBELIGHTS



Ambernath, Maharashtra, India

N.S.N. Research Centre for Nanotechnology and Bionanotechnology, SICES
College, Jambhul Phata, Ambernath (W), Dattanagar, Ambernath, Maharashtra
421505, India

Lat N 19° 11' 27.9654"

Long E 73° 13' 4.93752"

22/10/20 05:38 PM



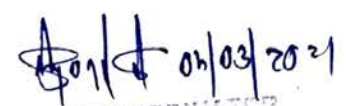
Electricals Sales & Service Amc,s

1st Floor, Room no,104, Section27 Glamour tower, Ulhasnagar East. Hello:-9322088081.

HANDING OVER CERTIFICATE

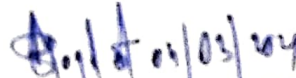
CLIENT	S.I.C.E.S SOCIETY.	
PROJECT	SICES COLLEGE -AMBERNATH	
CONSULTANT		
VENDORS	RADHE KRISHNA TRADERS.	
P.O REFERENCE NUMBER	SICES/165/2018-19	
This is to certify that ELECTRCAL SUPPLY AND INSTALLATION WORK has been successfully completed and tested and ready for Handing over.		
Description of works: - Supply, installation, Testing & commissioning of ELECTRCAL WORK OF S.I.C.E.S COLLEGE.		
	Client	Contractor
	Handed over by	Taking Over
Name	Mr.Devadasan K. Cheeroth.	Mr. Latish Bhatia
Signature		For. RADHE KRISHNA TRADERS  Proprietor
Date	26/07/2019	26/07/2019

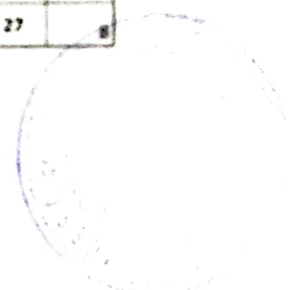



IGAC COORDINATOR
 SICES DEPT. OF ELECTRICALS & SERVICES COMMITTEE
 Janabhal Estate, Ambernath (M)

Basement floor installation report

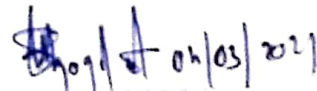
	15 M Plaster	15 M Back box	18 M Plaster	18 M surface box	6 A switch	6 A socket	16 A socket	12 M plate	12 M surface box	Indicator	16 A Modular MCCB	1 M fan regulator	16 A switch	Ceiling fan	18 W tubelight	1 M black plate	Combine box	8 module box	8 module plate	3 module plate	3 module box	hanging light
1 Room no.4(LAB)			1	1	16		15			1	1		15	4	12					15	15	
2 Room no.5(LAB)			2	2	26		12			2	2		12	6	20		4			10	10	
3 Room no.3(LAB)			1	1	15		6			1	1		6	5	11			2	2	2	2	
4 Electric panel room					4	1	1	1	1				1		2							
5 Class No.1					7	1		1	1		1			3	2							
6 Sports/Gym			1	1	14	1				1	1				6							8
7 Passage Area																						
8 Block 1A			1	1	18	1				1	1			4	8							
9 Block 1B	1	1			14					1	1			5	9		1					
10 Block 2			1	1	15					1	1			6	8		2					
11 Block 3			1	1	15					1	1			6	8		2					
12 Passage Area 1					4		1				1		1		1			1	1			
14 Passage Area 2					6	1	1	1	1		1		1		4							
Total	1	1	8	8	149	4	36	3	3	9	12	0	36	39	95	0	9	1	3	27	27	8


 IQAC COORDINATOR
 UNIVERSITY OF JERUSALEM



GROUND FLOOR INSTALLATION REPORT

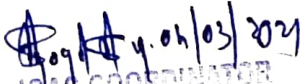
Description	15 M plate	16 M back box	18 M plate	18 M surface box	6 A switch	6 A socket	16 A socket	12 M plate	12 M surface box	Indicator	16 A Modular MCB	1 M fan regulator	16 A switch	Ceiling fan	18 w Tubelight	1 M black plate	Combine box	8 module box	8 module plate	4 module plate	4 module box	6 M plate	6 M surface box	3 M plate	3 M surface box	hanging line	2 x2 panel	18 w panel	15 W panel
1 Room no. 4(B, Office)			1	1	22	19	6	4	4	6	4		7	2	7			3	3	1	1			1	1				
2 Room no. 6(Library)	1	1	1	1	16		3			2	2		3	4	8														
3 Room no. 7(A)			1	1	12	1				1	1			4	9		1												
4 Room no. 7(B)			1	1	14	1				1	1			4	9		1												
5 Gymkhana Room no. 1					26			2	2	2	2			4	8											6			
6 Inhabitor			1	1	122	106	4	7	7	2	2		4	8	11			13	13			26	26	4	4				
YCMOU study center					7	2	95	32	32	1	1		92	2	4			1	1					1	1				
7 Degree office			2	2	86	48	14	12	5	9	11	8	13	12				2	2	8		6		5	4	8	6	11	
8 Passage Area						16	2	1	1	1	2		4	2	9									1	1				
Security room			1	1	5	1	2						2	1	2														
9 Total	1	1	8	8	310	194	126	58	51	25	26	8	125	43	67	0	2	16	19	9	1	32	26	12	11	6	8	6	11

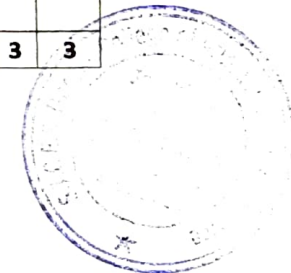

 IQAC/CC/2021
 04/03/2021
 S OCS DEGREE COLLEGE
 Jamnagar



FIRST FLOOR INSTALLATION REPORT


		16 M Plate	16 M Back box	18 M Plate	18 M surface box	6 A switch	6 A socket	16 A socket	12 M plate	12 M surface box	Indicator	16 A Moduler MCB	1 M fan regulator	16 A switch	Ceiling Fan	18 w tubelight plate	Combine box 1 M black	4 M plate	4 M surface box	8 M plate	8 m plate	
1	Room No.11(8A)					9			1	1	1	1			3	6	1					
2	Room No.11(8B)					6					1	1			2	4	1			1	1	
3	Block no.9					8	1		1	1	1	1			2	4	1					
4	Room no.12					8	1		1	1	1	1			2	4	1					
5	Room no.13					8	1		1	1	1	1			2	4	1					
6	Room no.14	1	1	2	2	28	11	0			2	2	7	0	7	14	1			1	1	
7	Room no.15					8	1		1	1	1	1			3	4	1					
8	Room no.16					8	1		1	1	1	1			2	4	1					
9	Block no.12					8	1		1	1	1	1			2	4	1					
10	Block no.13A			1	1	14	1				1	1			5	9	1					
11	Block no.13B	1	1			14	1				1	1			4	8	1					
12	Block no.5(Room no.18)	1	1			13					1	1			4	9	1					
13	Block no.6(Room no.19)	1	1			13					2	2			4	8	1					
14	Block no.7(Room no.19A)					19			2	2	2	2			6	12	1					
15	Passage 1					6	1		1	1	1	1		1		6						
16	Passage 2					3		1			1	1		1		3				1	1	
17	Boys Toilet					1										1						
18	Girls Toilet					1										1						
	Total	4	4	3	3	175	20	1	10	10	19	19	7	2	48	105	14			3	3	


 LOAD COORDINATOR
 SICES DEGREE COLLEGE OF ENGINEERING & TECHNOLOGY
 Jambhal Road, Jambhal (G)



THIRD FLOOR INSTALLATION REPORT

class room	16 M Plate	16 M Back box	18 M Plate	18 M surface box	6 A switch	6 A socket	16 A socket	12 M plate	12 M surface box	Indicator	16 A Moduler MCB	1 M fan regulator	16 A switch	Ceiling Fan	18 w tubelight	1 M black plate	Combined box	8 module plate	8 module box
Room no 35	12		2		96	78	34			14	14	14	34	6	8		1		
Room no 33 B	7				21	21	7			7	7		7	2	2				
Room no 36			1	1	9	1	1						1	4	4				
Room no 37	1		1	1	15	6	4			2	2		1		4				
Room no 38	11		1	1	33	33	14			11	12	1	14	1	4				
Room no 39	6				25	18	10	2	2	7	7		10	2	7		3		
Room no 40	9				33	27	9			10	10		9	2	4		1	1	1
Room no 41	9				33	27	9			10	10		9	2	4		1	1	1
Room no 43	11	2	1	1	47	34	11			11	2		11	5	8		2		
Room no 44	9	1			36	24	12	1	1	10	10		12	4	8		2		
Room no 45	23	9			83	63	21			23	23		21	4	13		1		
passage 1					3					1	1				3			1	1
passage 2					7		1	1	1	1	1		1		6		1		
Girls toilet															1				
Boys toilet															1				
Total	98	12	6	4	441	332	133	4	4	107	99	15	130	32	77		12	3	3


 05/03/2021
 ICAC



RADHE KRISHNA TRADERS

Electricals Sales & Service Amc,s

1st Floor, Room no,104, Section27 Glamour tower, Ulhasnagar East. Hello:-9322088081.


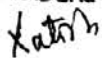
COMPLETION CERTIFICATE

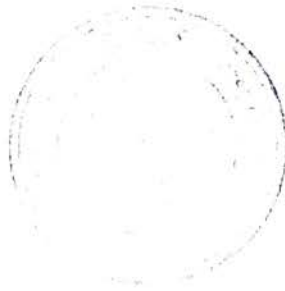
CLIENT	S.I.C.E.S SOCIETY.
PROJECT	SICES COLLEGE -AMBERNATH
CONSULTANT	
VENDORS	RADHE KRISHNA TRADERS.
P.O REFERENCE NUMBER	SICES/165/2018-19
DEFECTS LIABILITY PERIOD	12 Months

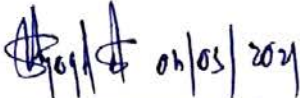
This is to certify that **ELECTRCAL SUPPLY AND INSTALLATION WORK** has been successfully completed by RADHE KRISHNA TRADERS and tested and ready for Handing over.

Description of works: -

Supply, installation, Testing & commissioning of **ELECTRCAL WORK OF S.I.C.E.S COLLEGE.**

	Client	Contractor
	Taking Over	Handed over by
Name	Mr.Devadasan K. Cheeroth.	Mr. Latish Bhatia
Signature		 OF RADHE KRISHNA TRADERS Proprietor
Date		





06/05/2021
IQAC COORDINATOR
SICES DEGREE COLLEGE, AMBERNATH
Jambhale VT, Dist. Nashik, Maharashtra

TAX INVOICE

(Original for recipient)

RADHE KRISHNA TRADERS 104,1st Floor ,Section 27 Glamour tower, Ulhasnagar East .0251-2581378.	Invoice no: 07/19-03	Dated: 27-07-2019
	Delivery note	
S.I.C.E.S COLLEGE, SICES SOCIETY, Ambernath. MH	Buyer Order No SICES/165/2018-19	Dated:
	Dispatched through	Destination

Sr.	Particular of Item	Unit	Quantity	HSN	U/Rate	Amount
1	Polycab 1 sqmm wire	9 Bundle	2700	8544	8.50 ✓	22,950.00
2	Polycab1.5 FR wire	62 Bundle	18600	8544	12.50 ✓	2,32,500.00
3	Polycab2.5 FR wire	28 Bundle	8400	8544	21.60 ✓	1,81,440.00
4	Polycab4 FR wire	31 Bundle	6200	8544	29.75 ✓	1,84,450.00
5	Polycab10 FR wire	15 Bundle	1500	8544	81.00 ✓	1,21,500.00
6	Polycab3 CORE 2.5 ARMOURED	Mtr	87	8544	105.00 ✓	9,135.00
7	Orient Arctic Air 70-75W High Speed fan	Nos	211	84	1650.00 ✓	3,48,150.00
8	Pressfit 25 mm PVC conduit	21Bundle	2100	3917	25.50 ✓	53,550.00
9	Pressfit 25mm 2 way jb	10 box	400	3917	20.25 ✓	8,100.00
10	Pressfit 25mm 3 way jb	12 box	480	3917	22.25 ✓	10,680.00
11	Pressfit 25mm 4 way jb	4 box	80	3917	24.25 ✓	1,940.00
12	Pressfit 25mm coupling	2 box	80	3917	3.85 ✓	308.00
13	Pressfit 25mm slip type bend	22 box	1100	3917	7.00 ✓	7,700.00
14	Pressfit 25mm pvc saddle	31 box	3100	3917	5.60 ✓	17,360.00
15	LEGRAND 4WAY ETPN DB	Nos	10	8536	3361.00	33,610.00
16	LEGRAND 6WAY SPN DB	Nos	01	8536	4150.00 ✓	4,150.00
17	LEGRAND 8WAY SPN DB	Nos	10	8536	4980.00 ✓	49,800.00
18	LEGRAND20A SP MCB	Nos	165	8536	178.00 ✓	29,370.00
19	LEGRAND32A DP MCB	Nos	25	8536	535.00 ✓	13,375.00
20	LEGRAND 40A DP MCB	Nos	11	8536	861.00 ✓	9,471.00
21	LEGRAND 100A 4pole MCCB	Nos	16	8536	6733.00 ✓	1,07,728.00
22	Anchor Roma 18 Module surface box	Nos	45	8538	124.00 ✓	5,580.00
23	Anchor Roma 18 m MODULAR PLATE	Nos	134	8538	116.00 ✓	1,55,44.00
24	Anchor Roma 8 module PLATE	Nos	41	8538	92.00 ✓	3,772.00
25	Anchor Roma 8 module surface box	Nos	28	8538	65.00 ✓	1,820.00
26	Anchor Roma 6 m MODULAR PLATE	Nos	41	8538	50.00 ✓	2,050.00
27	Anchor Roma 6 M SURFACE BOX	Nos	35	8538	46.00 ✓	1,610.00

	Anchor Roma 4 M MODULAR PLATE	Nos	18	8538	233.00 ✓	4,194.00
	Anchor Roma 4 module surface box	Nos	18	8538	189.00 ✓	3,402.00
	Anchor Roma 3M SURFACE BOX	Nos	38	8538	127.00 ✓	4,826.00
	Anchor Roma 3 M MODULAR PLATE	Nos	39	8538	71.00 ✓	2,769.00
	Anchor Roma 12m SURFACE BOX SQUIRE	Nos	81	8538	79.00 ✓	6,399.00
	Anchor Roma 12 m MODULAR PLATE	Nos	88	8538	201.00 ✓	17,688.00
	Anchor Roma 6 AMP SWITCHES	Nos	1251	8536	44.00 ✓	55,044.00
	Anchor Roma 16A SWITCHES	Nos	309	8536	102.00 ✓	31,518.00
36	Anchor Roma 6/16A SOCKET	Nos	909	8536	172.00 ✓	1,56,348.00
27	Anchor Roma 20A SOCKET	Nos	48	8536	178.00 ✓	8,544.00
38	Anchor Roma 10A MODULAR SP MCB	Nos	179	8536	155.00 ✓	27,745.00
39	Anchor Roma INDICATOR	Nos	174	8536	65.00 ✓	11,310.00
	2way enclosure	Nos	04	8536	391.00 ✓	1,564.00
41	Anchor Roma HOLDER straight	Nos	16	8536	27.00 ✓	4,32.00
42	Syska 18w LED batten	Nos	433	9405	310.00 ✓	1,34,230.00
				Net Amount	:	19,43,656.00
				SGST 9%	:	1,62,848.00
				CGST 9%	:	1,62,848.00
				SGST 6%	: On Syska led lights	8,054.00
				CGST 6%	: ON Syska led lights	8,054.00
Grand Total						22,85,460.00
GST NO:- 27ALKPBS297P2ZC Terms & Conditions : 1. Goods once sold will not be Taken back. 2.This invoice is for the goods forwarded on Your account and risk.				For RADHE KRISHNA TRADERS For RADHE KRISHNA TRADERS  Authorized Signatory		

Energy Audit Report
S.I.C.E.S. Degree College of Arts, Science & Commerce

Report

On

ENERGY AUDIT

For

S.I.C.E.S. Degree College of Arts, Science & Commerce,
Ambernath (W)

Prepared

By

Senergy Consultants Pvt Ltd
Mumbai

December - 2020



Email: scpl@senergy.co.in

Helping You to Conserve Energy

Phone: 022 2555 3297



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Harshali
I/c Principal
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Ambernath - 421 505.

Energy Audit Report
S.I.C.E.S. Degree College of Arts, Science & Commerce

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Email: proj@senergy.co.in

Phone: 022 2555 3297

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[Signature]
5/3/20
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S.I.C.E.S. Degree College of Arts, Science & Commerce
Ambarnath - 421 505.

Energy Audit Report
S.I.C.E.S. Degree College of Arts, Science & Commerce

I Introduction

Energy Audit was undertaken at SICES Degree College of Arts, Science & Commerce, Jambhul Phata, Ambernath West, Thane 421 505, during the month of December 2020.

The organization is very keen to optimize energy cost wherever possible and to further optimize energy consumption and identify opportunities for energy saving, M/s Senergy Consultants Pvt Ltd was assigned to carry out Energy Audit of the premises.

This Audit Report presents the analysis of the data collected, observations made at the facility and is governed by the objectives, scope of work, methodology etc. discussed in the ensuing paragraphs.

Team:

The team members of the audit study.

- Mr. Ravindra Datar
- Mr. Nitesh Kharche

Acknowledgment:

We wish to express our gratitude towards Dr Harshal Bachhav for having given us the opportunity for conducting the study and the support provided during the study.

We are also thankful to Dr Shrikant Chavan for extending the necessary help and co-operation from their side.



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II

Executive Summary

The premises were evaluated against the various criteria laid down by the National Assessment and Accreditation Council (NAAC). The major observations are

1. Electrical System & Bills
 - a. The average cost of the power procured from electricity board is Rs 69.18/- per kWh.
 - b. The power factor was observed to be lower than unity during most of the period, leading to power factor penalty & higher power cost. It is suggested to improve & maintain the power factor at unity to reduce the power costs.
 - c. The contract demand is higher. It is suggested to reduce the contract demand from 82.22 kVA to 25 kVA after consideration of the future expansion, which can reduce the charges of billed demand and electricity duty.
 - d. There is solar energy system is installed on college rooftop for power generation.

2. Lighting System
 - a. The usage of natural lighting has been maximized.
 - b. Energy efficient light fittings have been installed at all locations.
 - c. The fans with standard efficiency have been provided wherever required. It is suggested to considering possibility of replacing the fans with high efficiency fans with BLDC motors may be ascertained; especially while making new purchases.
 - d. The fans & lights are switched off when not in use.

3. Air Conditioning System
 - a. The air conditioners are switched off, when not in use.
 - b. The hall temperature was observed to be 24 to 26 °C; which are standard values.
 - c. The system is properly maintained.

Potential Saving Area:

Major savings can be achieved by

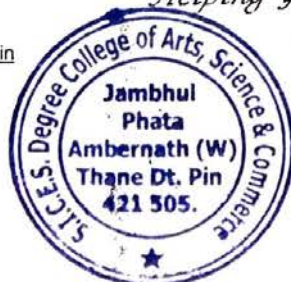
1. Improving and maintaining power factor at unity.
2. Reducing contract demand from 82.22 KVA to 25 KVA.

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III

Electrical System & Bill

Electricity Bill

The electricity for the entire premises is supplied by Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL) connection. The details of energy consumption with costs are as under.

Consumer Name: M/S South Indian Children's Education Society		Consumer No.: 021920006067			
Tariff Category: LT-X A III (VII A III revised Apr'20)		Maharashtra State Electricity Distribution Co. Ltd			
Meter No.: 055-X007741		Contract Demand: 82.22 KVA			
Description	Unit	Nov-19	Dec-19	Jan-20	Average
Energy Consumption	KWH	289	381	252	307
Maximum Demand	KVA	15	22	10	16
Billed Demand	KVA	33	33	33	33
Power Factor		0.130	0.150	0.130	0.137
PF Incentives	Rs	0	0	0	0
PF Penalty	Rs	5115	5280	5003	5133
Demand Penalty	Rs	0	0	0	0
Demand Charges	Rs	10659	10659	10659	10659
Bill	Rs	21011	22167	20572	21260
Cost	Rs/KWH	72.81	58.18	81.63	69.18

The average cost of the power procured from electricity board is Rs 69.18/ per kWh

Power Factor:

The higher power factor entails substantial incentive and reduces maximum demand; while penalty is slapped if the power factor drops below 0.95.

The power factor was observed to be around 0.14. It is suggested to maintain unity power factor on continuous basis which can maximize the saving and reduce the power costs.

The incentive is paid on the entire current bill amount including charges for energy, maximum demand, fuel adjustment charges (FAC) and reliability charges but excluding taxes and duties.

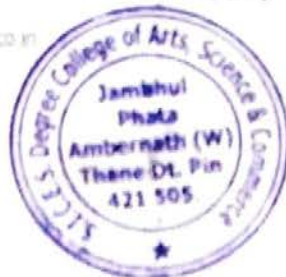
The incentive structure for power factor is as under.

Sr No	Power factor	Power Factor Range	Incentive
1	0.96	0.955 to 0.964	0.5%
2	0.97	0.965 to 0.974	1.0%
3	0.98	0.975 to 0.984	1.5%
4	0.99	0.985 to 0.994	2.5%
5	1.00	0.995 to 1.000	3.5%

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The penalty structure for power factor is as under.

Sr No	Power factor	Power Factor Range	Penalty
1	0.89	0.885 to 0.894	1.0%
2	0.88	0.875 to 0.884	1.5%
3	0.87	0.865 to 0.874	2.0%
4	0.86	0.855 to 0.864	2.5%
5	0.85	0.845 to 0.854	3.0%
6	0.84	0.835 to 0.844	3.5%
7	0.83	0.825 to 0.834	4.0%
8	0.82	0.815 to 0.824	4.5%
9	0.81	0.805 to 0.814	5.0%

Maximum Demand:

If recorded demand is more than 65% of Contract demand then billed demand is 65% of recorded demand and If recorded demand is less than 65% of Contract demand then billed demand is 40% of contract demand.

The recorded maximum demand was observed to be below 22 KVA.

Saving Potential by Reducing Contract Demand from 82.22 KVA to 25 KVA and Maintaining Power Factor at Unity

Description	Unit	Nov-19	Dec-19	Jan-20	Average
Maximum Demand	KVA	13.1	18.7	8.7	13.5
Billed Demand	KVA	10.0	12.2	10.0	10.7
Demand Charges	Rs	7622	6904	7622	7382
Electricity Duty	Rs	1601	1450	1601	1550
PF Penalty	Rs	5115	5280	5003	5133
Total	Rs	9222	8354	9222	8933

It is suggested to install automatic power factor correction system (APFC) with minimum rating of individual capacitor for fine controlling of power factor and reduce the contract demand from 82.22 kVA to 25 kVA after consideration of the future expansion, which can reduce the charges of billed demand and electricity duty.

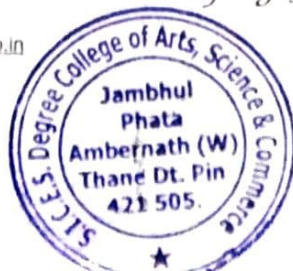
The expected savings shall be around Rs 1.07 Lakh per year.

The investment shall not be more than Rs 50,000/-. The payback period shall be around 5.6 months.

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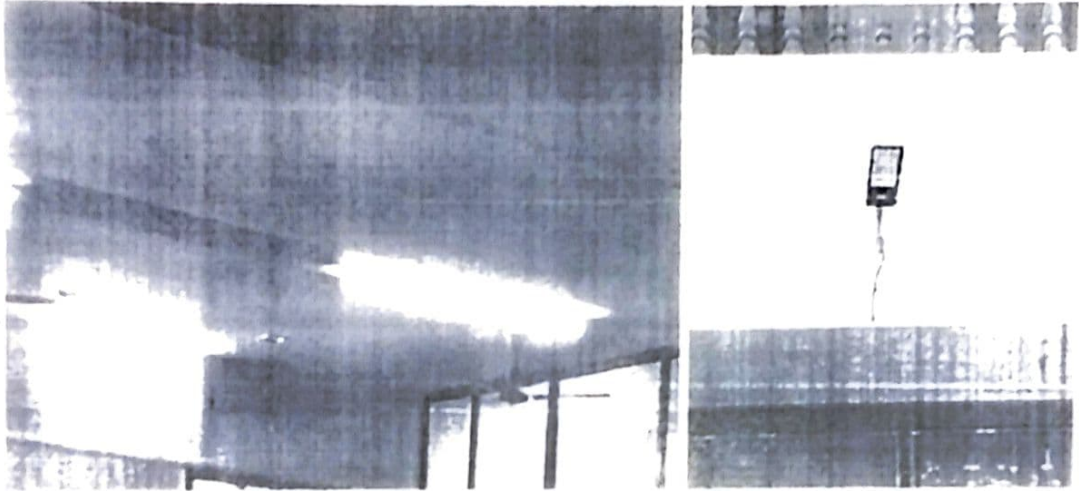


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S.I.C.E.S. Degree College of Arts, Science & Commerce

IV Lighting System

Institute has replaced all conventional lights with energy efficient LED lights.



The details are as under.

Location	LED Tube Light
	18 W
Ground Floor	
Gymkhana Room No.2	8
Passage Area	9
Security Room	2
Basement	
Electrical Panel Room	2
Class No.1	2
Passage Area-1	5
Passage Area-2	4
First Floor	
Room No.13	4
Room No.16	4
Passage 1	6
Passage 2	3
Boys Toilet	1
Girls Toilet	1
Second Floor	
Room No.35	8
Room No.33B	2

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Energy Audit Report
S.I.C.E.S. Degree College of Arts, Science & Commerce

Location	LED Tube Light	
	18 W	
Room No.36		4
Room No.37		4
Room No.38		4
Room No.39		7
Room No.40		4
Room No.41		4
Room No.43		8
Room No.44		8
Room No.45		13
Passage 1		3
Passage 2		6
Girls Toilet		1
Boys Toilet		1
Third Floor		
Room No.20		6
Room No.21		4
Room No.22		4
Room No.23		4
Room No.24		4
Room No.25		4
Room No.26		4
Room No.27		4
Room No.28		4
Room No.29		4
Room No.30		14
Room No.31		8
Room No.32		8
Library		12
Passage 1		3
Passage 2		6
Girls Toilet		1
Boys Toilet		1

The efficacy of LED lamps is 100 to 140 lumen per watt as against 80-90 for TFLs; 60 to 70 for PLs, 10 to 15 for GLS and 50 to 60 for MV lamps. The light emittance of LED is typically 120 to 140° Cone as against 360° for all the other fittings. It is therefore possible to save 30 to 60% energy by replacing various lamps with LED.

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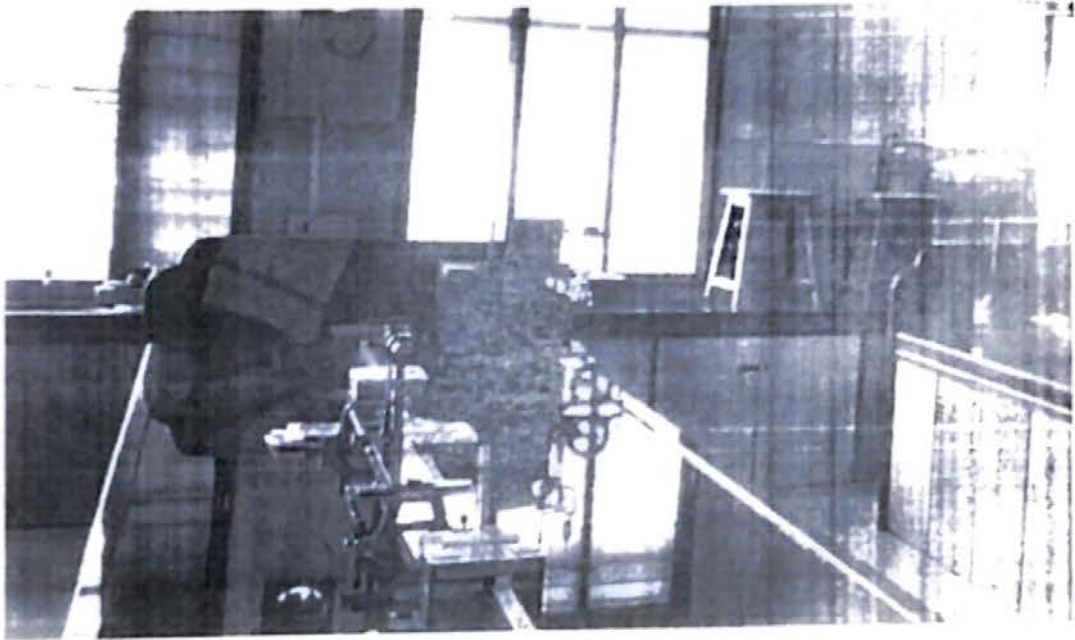


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Illumination Level

- The illumination level is generally as per the norms; the illumination level is higher mainly due to usage of day light.



- The use of daylight has been maximized through windows.
- The lamps are strategically located to optimize usage of day light.
- The practice of switching off the lamps in the unoccupied areas has been followed.
- It is not economical to provide occupancy sensors for the class rooms due to lesser light fitting and practice of switching off the lamps during unoccupied area.
- There are no major improvements / saving potential in this area.



Energy Audit Report
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V

Air Conditioners

Air conditioning system is basically provided to maintain comfortable ambience inside the premises by maintaining the temperature (and relative humidity, at times) at appropriate levels. The performance of human being is optimal at the temperature of 24 ± 2 °C and at relative humidity (RH) of $60 \pm 5\%$.

The warmer and humid air from the premises is drawn and fed to the Air Conditioning System by a circulating fan. This air is chilled in an evaporator by vaporizing the refrigerant and is distributed throughout the conditioned area. The refrigerant is pressurized by a compressor and subsequently cooled and condensed by an air-cooled condenser. The compressor and condenser are placed in an outdoor unit, located on the external side of the premise. While the circulating fan and evaporator is placed in an indoor unit located inside the premises.

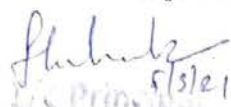
The details are as under.

Location	Type	Capacity	Quantity
Ground Floor Office	Split	1.5 Ton	2
CS Lab	Split	1.5 Ton	2
IT Lab	Split	1.5 Ton	2
Auditorium	Split	1.5 Ton	4

Observations:

- The air conditioners are switched off, when not in use.
- The hall temperature was observed to be 24 to 26 °C; which are standard values.
- The overall condition of indoor as well as outdoor units is satisfactory.



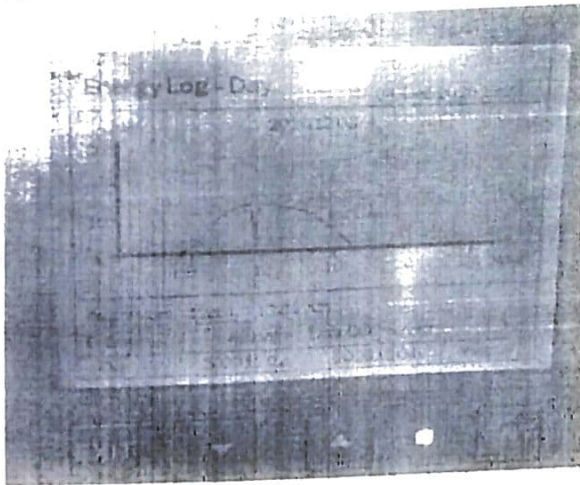
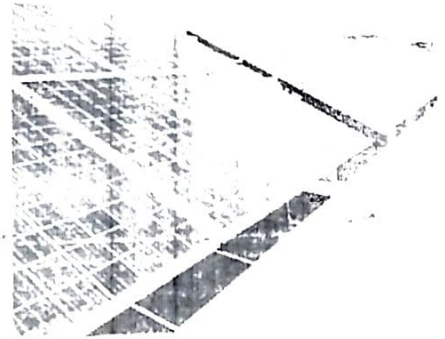
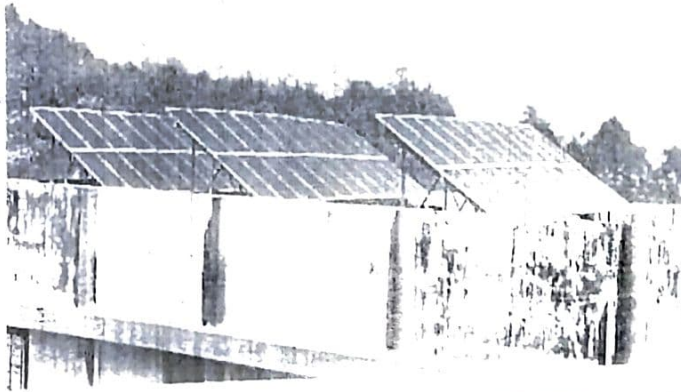

 Jambhul Phata
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S.I.C.E.S. Degree College of Arts, Science & Commerce

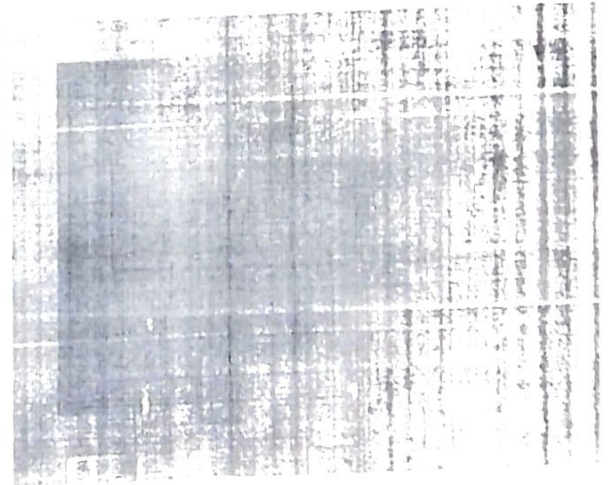
VI Renewable Energy

Solar Photovoltaic:

The organization has installed solar energy system with NET metering as there is enough space available on roof. The total installed capacity of solar energy system is 53 kW.



Meter 1 - Solar System



Meter 2 - Solar System

The total solar power generation is 158 kWh for 03rd December 2020.

Solar Thermal:

There is no application of solar thermal system and does not find attractive in this case.

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Green and Environment Audit Report
S.I.C.E.S. Degree College of Arts, Science & Commerce

Report

On

GREEN & ENVIRONMENT AUDIT

For

S.I.C.E.S. Degree College of Arts, Science & Commerce
Ambarnath (W)

Prepared

By

Senergy Consultants Pvt Ltd
Mumbai

December - 2020



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Email: proj@senergy.co.in

Phone: 022-2555-1291

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Green and Environment Audit Report
S.I.C.E.S. Degree College of Arts, Science & Commerce

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Ambernath - 421 505.

I Introduction

Green & Environment Audit was undertaken at SICES Degree College of Arts, Science & Commerce, Jambhul Phata, Ambernath West, Thane 421 505, during the month of December 2020.

The organization is very keen to promote green culture wherever possible, as a commitment towards better environment and conservation of energy. A lot of efforts have already been put up to bring down the carbon footprint. To further optimize consumption and identify saving opportunities, M/s Senergy Consultants was assigned to carry out Green & Environment Audit of the premises.

This Audit Report presents the analysis of the data collected, observations made at the facility and is governed by the objectives, scope of work, methodology etc. discussed in the ensuing paragraphs.

Team:

The team members of the audit study.

- Mr. Ravindra Datar
- Mr. Nitesh Kharche

Acknowledgment:

We wish to express our gratitude towards Dr Harshal Bachhav for having given us the opportunity for conducting the study and the support provided during the study.

We are also thankful to Dr Shrikant Chavan for extending the necessary help and co-operation from their side.



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II

Executive Summary

The premises were evaluated against the various criterions laid down by the National Assessment and Accreditation Council (NAAC).

The major observations are

1. Air Quality & Ventilation
 - a. The air ventilation is adequate.
 - b. Several indoor and outdoor plants have been installed to improve air quality.

2. Water Quality & Conservation
 - a. The water supplied by the Municipal Corporation is used for drinking after purification; which is a common practice in and around Mumbai & Navi Mumbai.
 - b. A borewell water is used for other applications like toilets flushing, washing of utensils, etc.
 - c. Water purifiers are provided at convenient locations.
 - d. The various water conservation measures are initiated, and the water consumption is generally within the norms.

3. Waste Management
 - a. The generation of waste is minimized through use of electronic communication and effective waste management system.
 - b. The waste water is disposed of through common drainage system, which is usual practice in and around Mumbai.
 - c. The organic waste converted in to manure in a composting pit, which is used for inhouse plants.

4. Infrastructure usage
 - a. The on-campus movement is distributed with multiple entrances as well as staircases.
 - b. There is adequate parking space for vehicles/four wheelers. However, almost all the students and many of the faculty members avail public transport system which is very convenient due to proximity to railway station and bus services.
 - c. There are adequate fire extinguishers located at key areas. The college has initiated appropriate measures to meet the safety requirement.

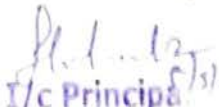
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- d. The draining system for washrooms is efficient and effective.
- e. No seepages were observed in the building premises.

5. Green IT culture

- a. Energy efficient computers and laptops have been procured.
- b. In most of the cases, the computers are switched off, when not in use.
- c. Electronic communication is encouraged to minimize usage of papers.
- d. Most of the papers are reused for doubled sided printing.


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III

Electrical System

Gadget List

Lamps:

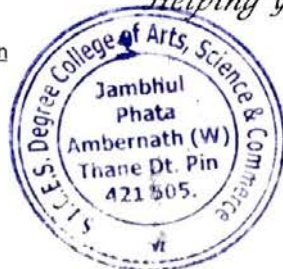
Location	LED Tube Light
	18 W
Ground Floor	
Gymkhana Room NO.2	8
Passage Area	9
Security Room	2
Basement	
Electrical Panel Room	2
Class No.1	2
Passage Area-1	5
Passage Area-2	4
First Floor	
Room No.13	4
Room No.16	4
Passage 1	6
Passage 2	3
Boys Toilet	1
Girls Toilet	1
Second Floor	
Room No.35	8
Room No.33B	2
Room No.36	4
Room No.37	4
Room No.38	4
Room No.39	7
Room No.40	4
Room No.41	4
Room No.43	8
Room No.44	8
Room No.45	13
Passage 1	3
Passage 2	6
Girls Toilet	1
Boys Toilet	1
Third Floor	
Room No.20	6
Room No.21	4
Room No.22	4

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Location	LED Tube Light
	18 W
Room No.23	4
Room No.24	4
Room No.25	4
Room No.26	4
Room No.27	4
Room No.28	4
Room No.29	4
Room No.30	14
Room No.31	8
Room No.32	8
Library	12
Passage 1	3
Passage 2	6
Girls Toilet	1
Boys Toilet	1

Ceiling Fans:

Location	Ceiling Fan
	48 W
Ground Floor	
Gymkhana Room NO.2	4
Degree Office	12
Passage Area	2
Security Room	1
Basement	
Class No.1	3
First Floor	
Room No.13	2
Room No.16	2
Second Floor	
Room No.35	6
Room No.33B	2
Room No.36	4
Room No.38	1
Room No.39	2
Room No.40	2
Room No.41	2
Room No.43	5
Room No.44	4
Room No.45	4
Third Floor	
Room No.20	3
Room No.21	2
Room No.22	2

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Location	Ceiling Fan
	48 W
Room No.23	2
Room No.24	2
Room No.25	3
Room No.26	2
Room No.27	2
Room No.28	2
Room No.29	2
Room No.30	6
Room No.31	4
Room No.32	4
Library	6

Air Conditioners:

Location	Type	Capacity	Quantity
Ground Floor Office	Split	1.5 Ton	2
CS Lab	Split	1.5 Ton	2
IT Lab	Split	1.5 Ton	2
Auditorium	Split	1.5 Ton	4

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IV Environmental System

ventilation & Air Quality

- The air ventilator is adequate.
- Several indoor & outdoor plants have been installed to improve air quality.



- It has been a general practice to switch off the fans & lights in an unoccupied area.

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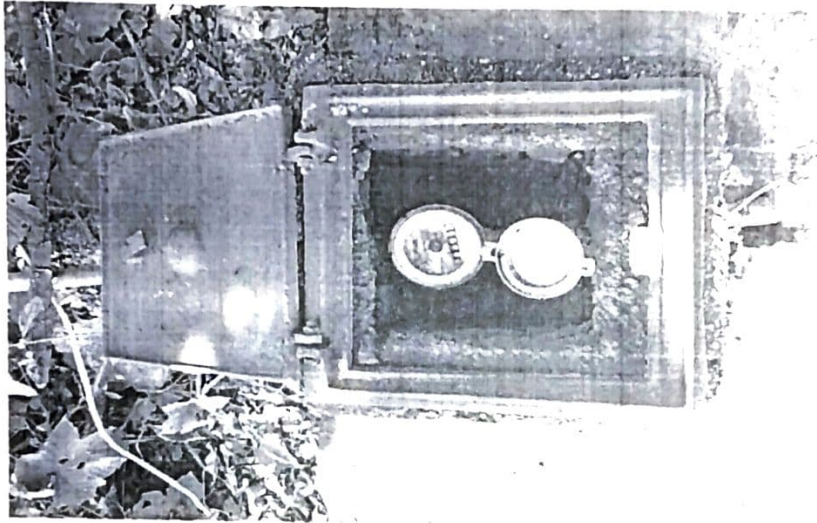
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V Water Management

Consumption Pattern:

The water supplied by the municipal corporation is used only for drinking; while borewell water is used for other applications like toilets, washing of utensils and other requirements.

The incoming water from the municipal corporation is metered.



The consumption pattern was analyzed by the water bills. The details are as under.

Municipal Water

There is one municipal water connection for College Campus. The details are as under.

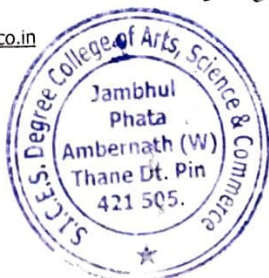
Period	Days	Consumption	Amount	Cost
		KL	Rs	Rs/KL
Consumer No. 13030				
14/11/2019 to 14/01/2020	61	102	2713	26.60
14/09/2019 to 14/11/2019	61	102	2713	26.60
14/07/2019 to 14/09/2019	62	103	2740	26.60
14/03/2019 to 14/05/2019	61	102	2713	26.60
14/01/2019 to 14/03/2019	59	98	2372	24.20


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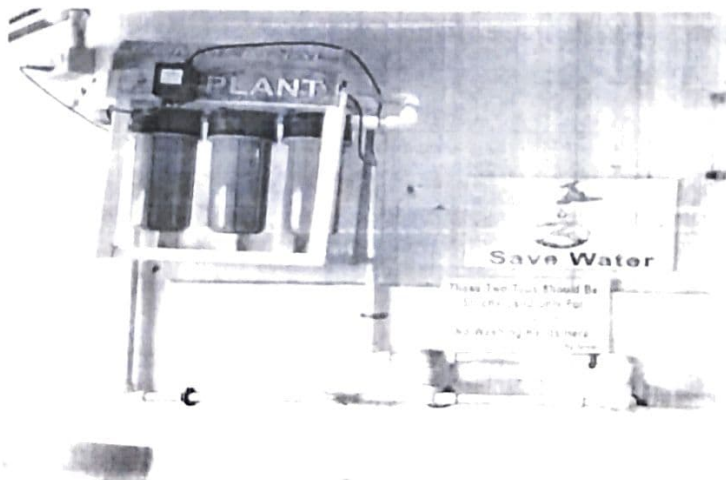
There are about 839 students and staff members. The specific water consumption was computed based on the number of persons and working days. The details are as under.

Period	Days	Consumption	Specific Consumption
		KL	L/Day/Person
Consumer No. 13030			
14/11/2019 to 14/01/2020	61	102	1.99
14/09/2019 to 14/11/2019	61	102	1.99
14/07/2019 to 14/09/2019	62	103	1.98
14/03/2019 to 14/05/2019	61	102	1.99
14/01/2019 to 14/03/2019	59	98	1.98
Overall	304	507	1.99

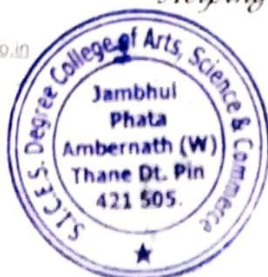
The consumption is generally within the norms.

Water Purifiers:

The water purifiers are installed on each floor and bottled water is not used in the campus.



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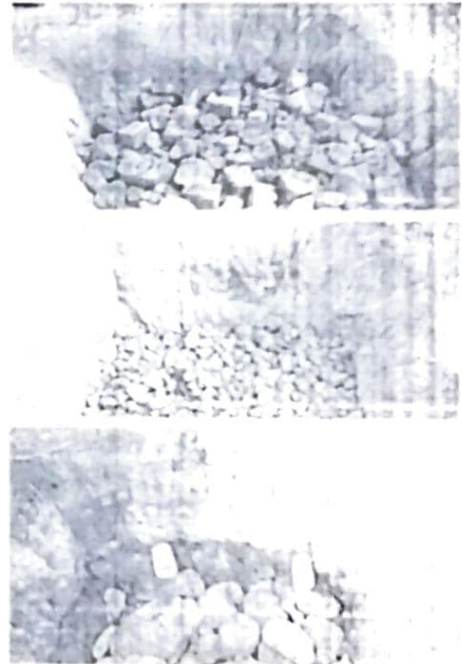
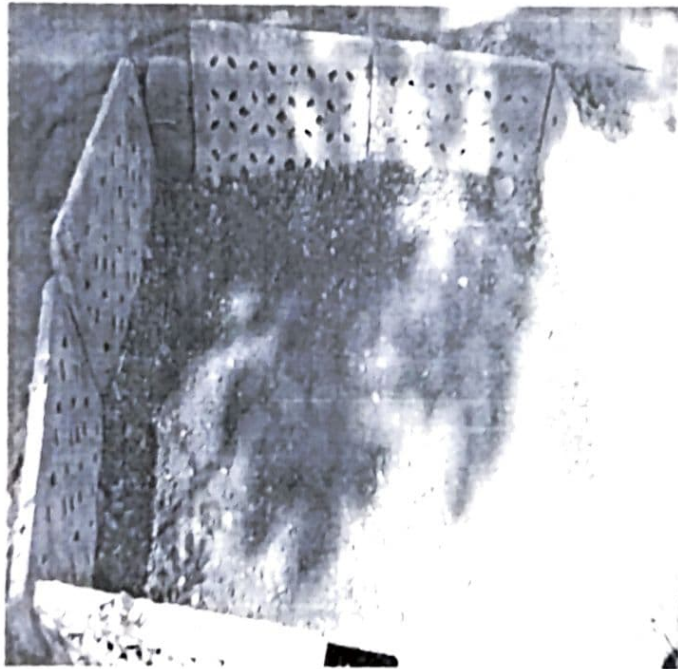
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Rain Water Harvesting:

The rain water from the terrace area of the college building is being drained in to municipal storm water system through requisite ducts and pipes.

However, considering proximity to the seashore, rain water harvesting may not be practical

There is a provision to recharge the ground water by Water Soaking Pit near garden area.



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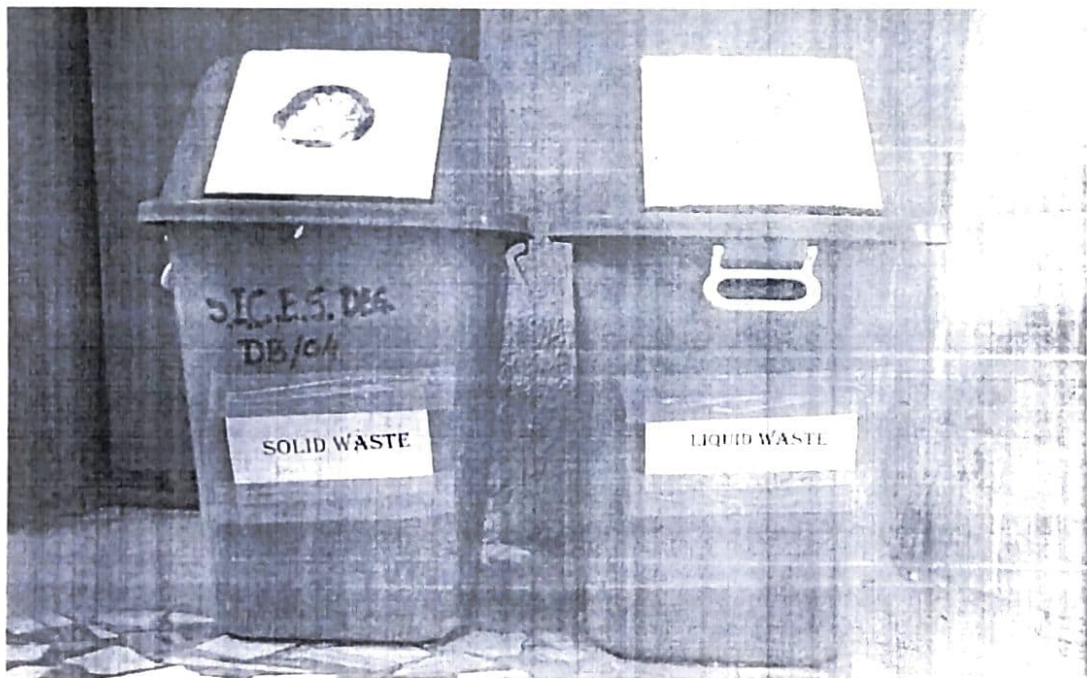
VI Waste Generation & Management

Sewage & Waste Water:

The sewage is fed in to the municipal drainage. This is a common practice and the municipal corporation which charges cess towards the sewage charges.

Solid Waste:

The organic as well as inorganic waste is segregated in the college premises and disposed of through Municipal system.



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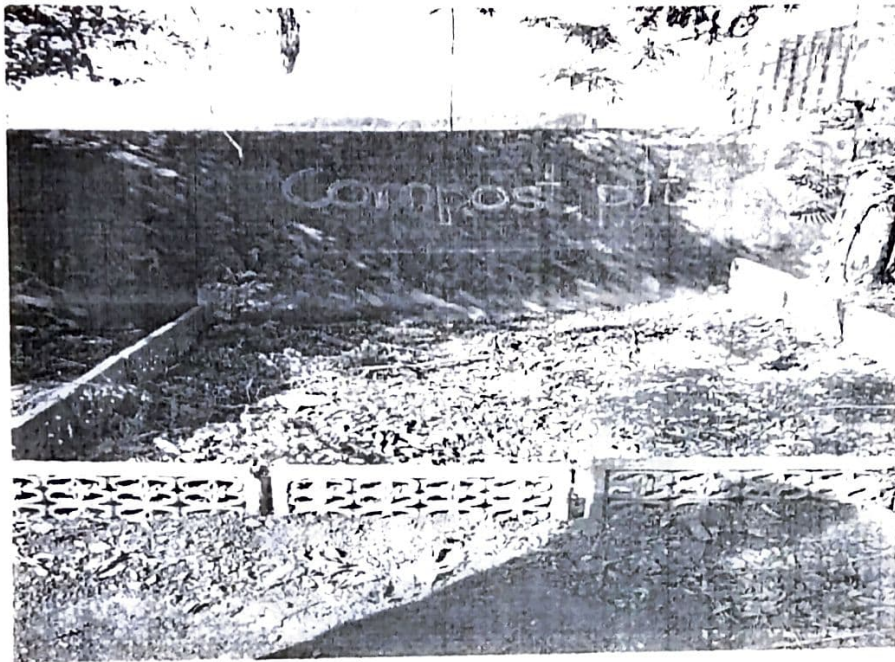
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The organic waste converted in to manure in a composting pit, which is used for inhouse plants.



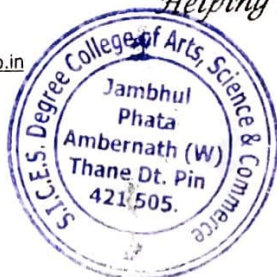
Electronic waste collected is handed over to scrap collector/ Environmental Consultant.

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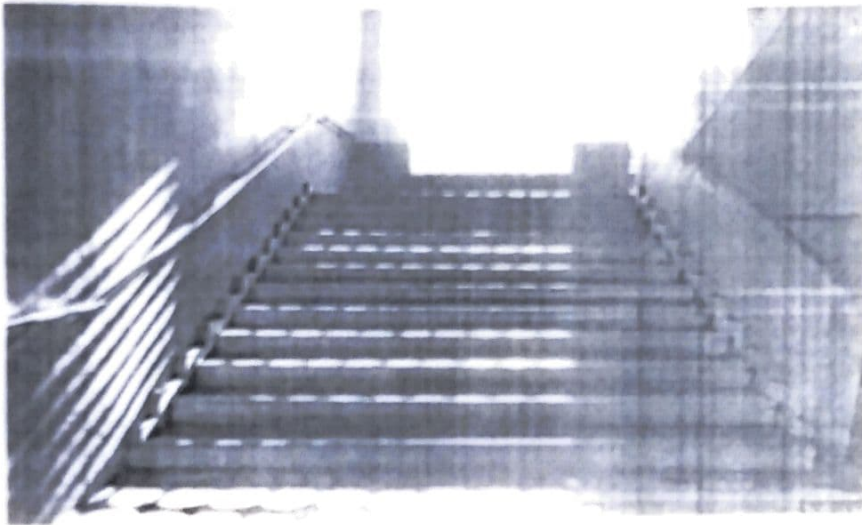
Jambhul Phata
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VII Infrastructure & Safety

Movement on-campus (Distributed / non-distributed leading to crowds)

The premises are provided with multiple staircases with necessary entrances to ensure quick and effective movement normal as well as emergency conditions.



Parking space:

There is adequate parking space for vehicles/four wheelers. However, almost all the students and many of the faculty members avail public transport system which is very convenient due to proximity to railway station and bus services.

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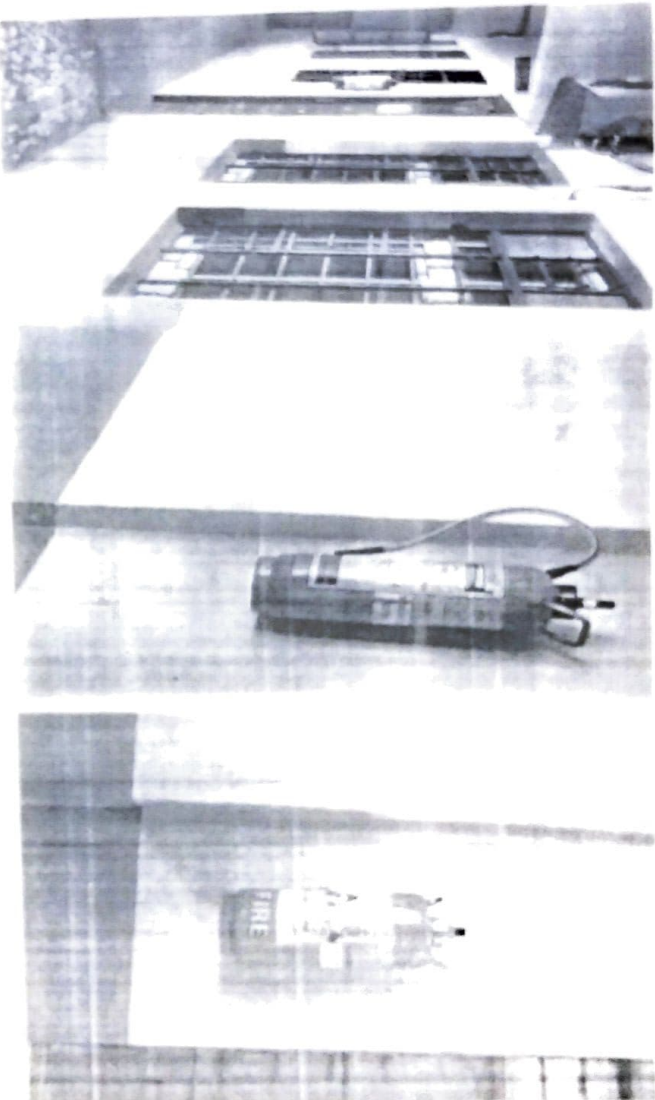


Shrihari
5/3/21
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Fire-fighting & fire escape system:

There are efficient fire extinguishers in the premises, which are checked / refilled as per the schedule.



The premise is provided with multiple staircases with requisite entrances to ensure quick and effective evacuation in emergency conditions.

Draining system:

The drains from the washrooms are connected to the municipal drainage, which is a common practice in the colleges in and around Mumbai.

It is neither feasible nor practical to segregate the drains, install a sewage treatment plant and recycle the treated water for toilet flushing and / or gardening.

Seepage in the building:

The premise was visually inspected for seepages.

No seepages were observed in any of the places.

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Phone: 022 2558 5202

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M. K. Joshi
The Principal
S.I.C.E.S. Degree College of Arts, Science & Commerce
Aheri, Math (W) Thane, Dist. Pal

VIII Green Culture

Computers/Laptops:

1. The LED / LCD monitors & Laptops has been procured, which are energy efficient
2. These monitors are not only energy efficient but also generate minimal heat and cut down on a significant amount of energy.

Recommendations:

The following steps may be initiated to further enhance efficiency of the systems

1. An efficient power management system may be incorporated to
 - a. Switch off the display if not in use.
 - b. Put the computer in Sleep mode / switching off the machines, if not used for prolonged period
2. Optimize brightness of the screen.
3. Discourage use of screen savers, which has similar power consumption.

Paper-less communication:

The major internal as well as external communication is through electronic medium.

Re-using one sided paper for printing:

It was observed that two side printing / printing on the back side of used paper in more than 80% of the cases.



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Email: GTO@SENERGY.CO.IN

Phone: 022 2555 3297

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