

## **One example of activity successfully implemented based on strategic plan.**

Renewable energy sources are of clean, inexhaustible and increasingly competitive energy. There are different from fossil fuels principally in their diversity, abundance and potential for use anywhere on the planet, but above all in that they produce neither greenhouse gases – which cause climate change – nor polluting emissions. Their costs are also falling and at a sustainable rate, whereas the general cost trend for fossil fuels is in the opposite direction in spite of their present volatility. So the solar power plant was installed in PRE's SVIT the year of 2015. The plant has capacity of 100KW with latest inverter technology. The plant is designed & erected by TATA Solar Ltd, Mumbai. The total cost of plant is more than 1 crores in that some amount is subsidies by government of Maharashtra. The solar system consisting Solar modules, module mounting structure, array junction box, Inverter AC distribution board. The solar power plant consisting two different capacity solar array modules.

### **1. 68 KW SPV Grid Connected system:-**

It consist of 267 PV modules, 02 grid tie inverter for 30 KWp array, MPPT range 480V to 800V DC, Three phase output (Delta make RPI Series) with data logger.

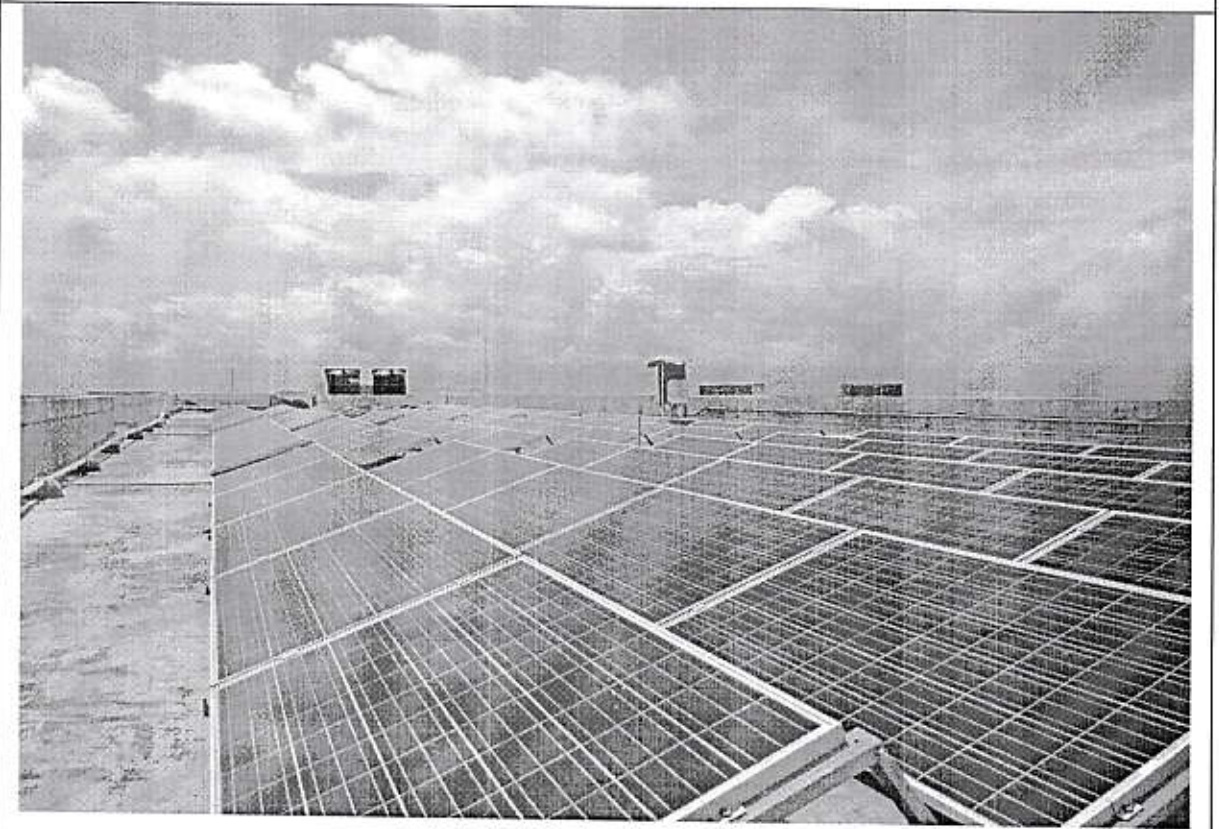
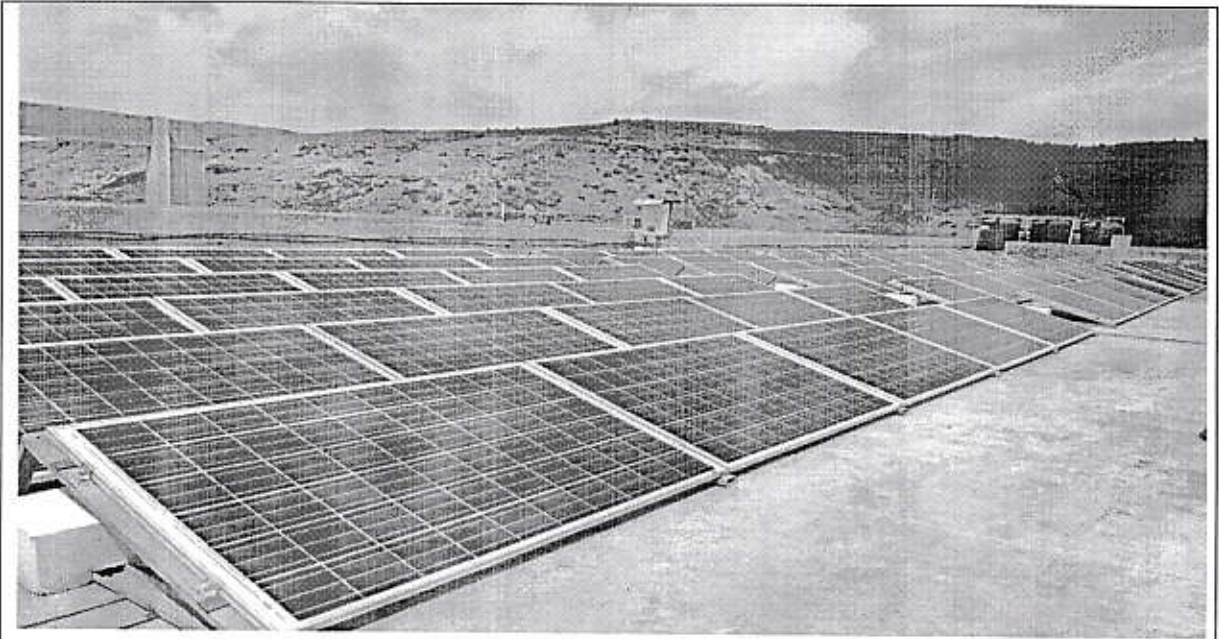
### **2. 32 KW p SPV Grid connected System:-**

It consist of 127 PV modules, 01 grid tie inverter for 30 KWp array, MPPT range 480V to 800V DC, Three phase output (Delta make RPI Series) with data logger.

The system is on load grid connected system. The operating temperature range is  $-20^{\circ}\text{C}$  to  $-60^{\circ}\text{C}$ , full power up to  $40^{\circ}\text{C}$ . And plant is installed with MPPT system, so due to this power generation increased and nominal power range is 30KVA- 50 KVA. Inverter are with advanced technology which gives reliable power output with THD  $< 3\%$  and maximum efficiency in the range of  $98.2\% - 98.6\%$ . The plant is fully automated of advanced online communicating system with data logger system of TATA solar portal. After installation the electric power is feed to MSEDCL through ABT based net metering system. The plant is fully equipped with protective switchgears & personal safety. And in the year of 2017 the underground distribution system is erected for power distribution. Due to this the T & D losses minimized in compared with overhead distribution system. The power factor also increased. The plant is regularly control, analyzed & maintained by electricians & wireman's. Now SVIT fulfilling the 100 KW demand of MSEDCL through renewable energy and we are playing most important role in the field of green energy.



Photos





**Pravara Rural Education Society's**  
**SIRVISVESVARAYA INSTITUTE OF TECHNOLOGY, NASHIK**

A/P: CHINCHOLI, Tal: Sinnar, Dist: Nashik (M.S.)

Tel. No. (02551) 271278, 271179

Email: [svmec\\_nskch@rediffmail.com](mailto:svmec_nskch@rediffmail.com),

Fax: 271277

Website: [www.svitnashik.in](http://www.svitnashik.in)

"Affiliated to University of Pune" letter No. CA/1379 dt. 18/08/1998

Approved by AICTE, New Delhi letter No. F-740-89-308(E)/ET/96 dtd. 15/10/1996

University I D No- 052

Institute Code 5125



Ref:- SVIT/Elect./2016-2017/194

Dt.: 19/05/2016

To,  
The Superintending Engineer,  
MSEDCL,  
Urban circle, Nashik, 2<sup>nd</sup> floor, Prosper park,  
Near Shingada Talav, Nashik -01

**Sub: Work completion Report a with request to install the Net metering system**

**Ref : Your Letter no: SE/NUC/ Tech/ 001631, Dated: 20<sup>th</sup> April 2016.**

Respected sir,

With reference to above mentioned subject, we would like to inform you that we have completed the 100 KWP Solar Power project work at SVIT campus and are herewith submitting the necessary completion reports for the same as required.

Hence, we hereby request you to install the net metering system at our solar power plant at the campus at the earliest.

Kind request to do the needful for the same.

Thanking you,

**Yours faithfully,**

  
(Col.D. N. Khadse )  
Campus Director

Encl: As above





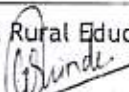



  
(Dr. G. B. Shinde)  
Principal  
Sir Visvesvaraya Institute of Technology  
Chincholi, Nashik - 422102



**TATA POWER SOLAR**Tata Power Solar Systems Limited ,  
No.78, Electronics City, Hosur Road,  
Bangalore - 560100**INSTALLATION & COMMISSIONING CERTIFICATE**

This is to certify that M/s. TATA POWER SOLAR SYSTEMS LIMITED, BANGALORE has designed, supplied, installed, commissioned and handed over the following system to our satisfaction.

Customer Order No.	PRES/SVIT/Solar Power System/2015-16/382 dtd. 03/06/15
System Capacity	100.47 KWp
Type of System	Grid Connect System – Roof Top
SO number / Project code no.	SO - 5757077, 5757078 & PC IS15032
Date of Installation & Commissioning	29/09/2015
Customer Name & Address , email ID	Pravara Rural Education Society, Pravaranagar, 413713
Site Name & Add.	Sir Vishwesharya Institute Of Technology, Chincholi, Tal. Sinnar, District - Nashik
Name of Customer Contact person	Mr. Gaikwad / Mr Badgujar / Mr. Narwade
Contact Person Phone / mobile No.	9423787430/ 9422591970
List of Trained Persons in Operation & maintenance & contact number	1 ) Dr. G.B. Shinde,                      2) Prof. K. P. Tambe 3 ) Prof. D.S. Badgujar                4 ) Prof. D.K. Chnadre 5) Mr. D.B. Narvade                    6) Mr. S.S. Walunj
User manual , drawing , Preventive Maintenance ( PM ) schedule handed over to Customer	Yes / No Scope of PM -- TPS / Customer

For Customer : Pravara Rural Education Society, Sign:  Name : Sir Visvesvaraya Institute of Technology Seal:  Date : 29/9/2015	For Tata Power Solar Systems Limited : Sign:  Name : Mr. Kamlesh Kataria Seal:  Date : 29/09/15
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"Creating Noble Minds"

PRAVARA RURAL EDUCATION SOCIETY'S

# Sir Visvesvaraya Institute of Technology, Nashik



A/p. - Chincholi - 422 102, Tal. Sinnar, Dist - Nashik (M.S.)

♦ Tel. No. (02551) 271278, 271179

♦ Fax : (02551) 271277

♦ Email : svmec\_nskch@rediffmail.com

♦ Website : www.svitnashik.in

"Affiliated to University of Pune" letter No. CA/1379 dtd. 18/08/1998

Approved by AICTE, New Delhi letter No. F - 740-89-308(E)/ET/96 dtd. 15/10/1996

University ID No. 052

Institute Code 5125



Ref. No. Recommendation for release of Subsidy to Installer /Successful bidder by owner of the SPV plant/ beneficiary under SECI Rooftop Scheme (On the letter head of the owner/beneficiary) Date: / /

RFS No. SECI/Cont./SRT-IV/70/2014 Dated: 24.03.2014 Date : 29/09/2015

1	Name of the owner / beneficiary & Complete postal address	<b>Sir Visvesvaraya Institute of Technology,</b> : PO Chincholi, Tal. Sinnar, Nashik, Chincholi, Maharashtra - 422102
2	Name of the Authorized contact person (Including mobile no & Email-id)	: <b>Col(Ret) Deepak Khadse 8390901150</b> <u>Deepak.khadse@pravara.in</u> <u>Santosh.karajkar@pravara.in</u>
3	Address of SPV power plant installed	: Sir Vishwesharya Institute Of Technology, Chincholi, Tal. Sinnar, District - Nashik
4	Name of the Installer/Successful Bidder	: <b>M/s Tata Power Solar Systems Ltd.</b>
Sr. No	Component	Details
1	Actual capacity of SPV system installed (kWp)	67.5KWp
2	Whether training was provided by installer for operation and maintenance of SPV plant. Note: Operation & Maintenance (O&M) of SPV plant for 2 years shall be the responsibility of installer from the date of issue of commissioning certificate by SECI.	YES
	Whether the following documents were provided or not	
	Installation manual(SPV system), certificates, catalogue, As Built drawings for (DC SLD, AC SLD, Plant Layout, Civil & Structural drawings, SCADA drawings, Earthing drawing, Lightning drawings, Bill of Materials (BOM), Design sheet for Earthing calculations, other drawings, etc.	YES

Col(Ret) Deepak Khadse  
Pravara Educational Complex  
A/p.Chincholi, Tal.Sinnar,Dist.Nasik-422102.  
Mob.:7028836071



	Transferred all the Warrantees and Guarantees of the different components of Solar PV system to the Owner of the project.	YES
	Insurance as per RFS	YES
	Recommended list of spares by installer to Owner after 2 years of O&M.	N/A
	Date of SPV plant Synchronized with the grid	29/09/2015
	Web link for Remote monitoring of SPV plant including username & password to be provided installer to SECI and owner of SPV plant.	Portal Http: <a href="http://monitor.tatapowersolar.com/user">http://monitor.tatapowersolar.com/user</a> Username: <a href="mailto:electpres@gmail.com">electpres@gmail.com</a> Password: <a href="#">welcome1</a>
	Performance Ratio(PR) should be minimum of 75% for initial commissioning acceptance.	75 %
	Capacity utilization factor (CUF) should be certified by Owner of the plant /beneficiary during 2 years O&M period.	15 %
4	Project cost allocated by SECI is Rs. <u>63</u> / Wp for the city <u>Nashik</u> to <b>Tata Power Solar Systems Ltd.</b> (Insert the name of the successful bidder/installer)	
	Cost break up	Owner share: Rs. <u>44.1</u> / Wp SECI Share: Rs. <u>18.9</u> / Wp

**Declaration:**

1. It is to certify that all the information given above is true and correct to best of my knowledge. we are satisfied with the installation of SPV system and working satisfactorily as per above details.
2. We hereby requesting SECI for the release of subsidy amount to **M/s. Tata Power Solar Systems Ltd.** (Insert the Name of Installer/Successful bidder) as per RFS terms & conditions.
3. I solemnly declare that we including our Affiliate/Group company will not claim any subsidy using this project under any other schemes of Central/State Govt./Public sector Undertaking.

Signature of Authorized Signatory on each page: \_\_\_\_\_

Name \_\_\_\_\_

Designation  
**Col.(Retd) Deepak Khadse**  
Campus Director  
Mob.:7028836071  
Pravara Educational Complex  
A/p.Chincholi,Tal.Sinnar,Dist.Nasik-422102.

Seal: \_\_\_\_\_





Maharashtra State Electricity Distribution Co. Ltd.  
Office of the Superintending Engineer, Urban Circle, Nashik, 2<sup>nd</sup> Floor, Prosper Park,  
Near Shingada Talav, Nashik - 01.  
☎ (P) 2308001, (O) 2308003 / 4, Fax- 2500260, E-Mail: senskurban@mahadiscom.in

SE/NUC/TechT-I/

000768

Date:-

22 FEB 2016

To,

The Executive Engineer,  
M.S.E. D.C. L, Urban-II Division.  
Nashik Road.

Subject :- Technical feasibility report in r/o applicant the Principal sir  
Visveswaraya memorial engineering college , Chincholi, Sinnar,  
Nasik ( Consumer no.075949015560 ) for installation of Roof -top  
Solar PV system under net metering arrangements.

Ref:- 1 ) Consumer's application dated 18.1.2016  
2) Commercial circular no.258 dated 25.1.2016.

In connection with above cited subject, Please find attached h/w the  
application of consumer with technical details of proposed roof -top PV solar  
system.

You are requested to verify the site & submit the technical feasibility report  
as per above referred circular

  
Superintending Engineer

Nasik Urban Circle

  
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