



Swami Keshvanand Institute of Technology, Management & Gramothan

Approved by AICTE, Ministry of HRD, Government of India
Recognized by UGC under Section 2(f) of the UGC Act, 1956
Affiliated to Rajasthan Technical University, Kota

Installation Report of 400 kW roof top and 500 kW captive Solar Power Plant

📍: RAMNAGARIA (JAGATPURA), JAIPUR-302017 (RAJASTHAN), INDIA

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Introduction

Sunlight, or solar energy, can be used directly for heating and lighting homes and businesses, for generating electricity, and for hot water heating, solar cooling, and a variety of other commercial and industrial uses. Most critical, given the growing concern over climate change, is the fact that solar electricity generation represents a clean alternative to electricity from fossil fuels, with no air and water pollution, no global warming pollution, no risks of electricity price spikes, and no threats to our public health.

Renewable energy solar PV system of 900 kW consisting of 400 kW solar PV roof-top plants and a dedicated 500 kW solar PV based captive plant installed at Kolayat, Bikaner, Rajasthan. The solar power generation will annually generate nearly 14 lakh units of electricity cutting 1150 tons of CO emissions that shall contribute towards saving nearly 34000 trees annually.

The plants were established by Rays Power Experts Ltd. The Roof top 400KW Solar Power Plant at SKIT was inaugurated on Tuesday, 20 Oct., 2015 by Shri Gajendra Singh, Honorable Minister of Industry, Rajasthan and Shri Pushpendra Singh Honorable Minister of Energy, Rajasthan.

OVERALL CAPACITY: 400 kW/ 1322 Modules / 7 Invertors /1667 Unit Per Day Generation.

Photos of Roof Top Solar Power Plant





Captive Solar Power Plant at Kolayat





Block Wise Capacity of Roof Top Solar Power Plant

Block Name	No of Modules	Total Capacity (KW)	Inverter Capacity (KW)	ACDB (KW)
Sir M. Visvesvaraya Block	120	37.2	30	
Nirvana Boys Hostel	360	108	90	100
Dhanwantri Block	180	54	50	54
Vishvakarma Block	200	65	50	60
Noran Girls Hostel	60	18.6	35	24
Vikram Sarabhai Block	360	108	90	72

400 किलोवाट के सोलर पावर प्लांट से चलेगा इंस्टीट्यूट

सिटी रिपोर्टर • जगतपुरा स्थित स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी, मैनेजमेंट एवं ग्रामोत्थान में मंगलवार को रूफ टॉप सोलर पावर प्लांट का उद्घाटन किया गया। इसके साथ ही एस्केआईटी राज्य का पहला इंस्टीट्यूट बन गया है, जिसमें 400 किलोवाट का नेट मीटर सोलर पावर प्लांट लगाया गया है। कार्यक्रम के चीफ गेस्ट उद्योग मंत्री गजेंद्र सिंह ने कहा कि सोलर ग्रीन पावर है जिसकी हमें फ्यूचर में बहुत जरूरत है। कुछ सालों पहले जहां इसकी कीमत 18 रुपए प्रति यूनिट थी, वह अब 6 रुपए से भी नीचे आ गई है।

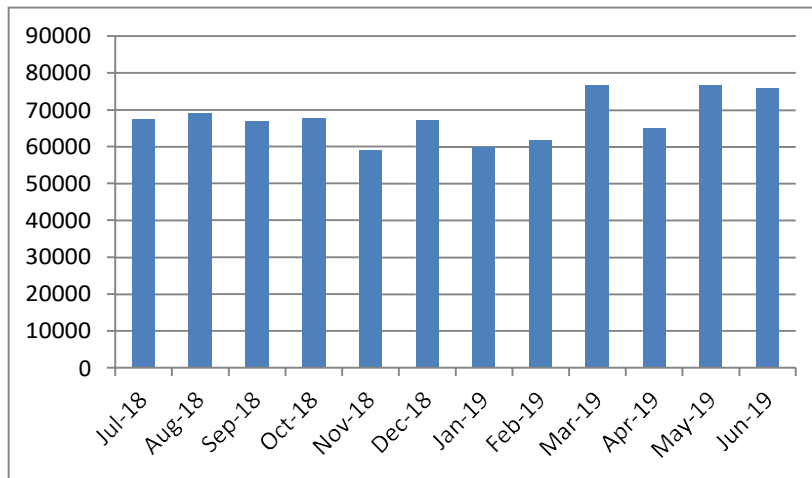
अगर सोलर पैनल वाले राजस्थान में प्रोडक्शन करें तो यहां इसकी क्रांति आ जाएगी और भारत में पूर्ण सौर ऊर्जा का लगभग 70 प्रतिशत उत्पादन राजस्थान में हो सकेगा। कार्यक्रम में आरआईसी के एमडी बी.के. जैशी तथा अस्वीयूएनएल के डायरेक्टर एस.एम. मीना भी उपस्थित रहे। संस्था के चेयरमैन सुरजाराम मील ने बताया कि इस सोलर प्लांट से हर वर्ष 510 टन कार्बन-डाई ऑक्साइड का उत्पन्नन कम किया जा सकेगा और लगभग 15 हजार पेड़ों की रक्षा करने में सहायता मिलेगी, जिससे ग्रीनरी को बढ़ावा मिलेगा।



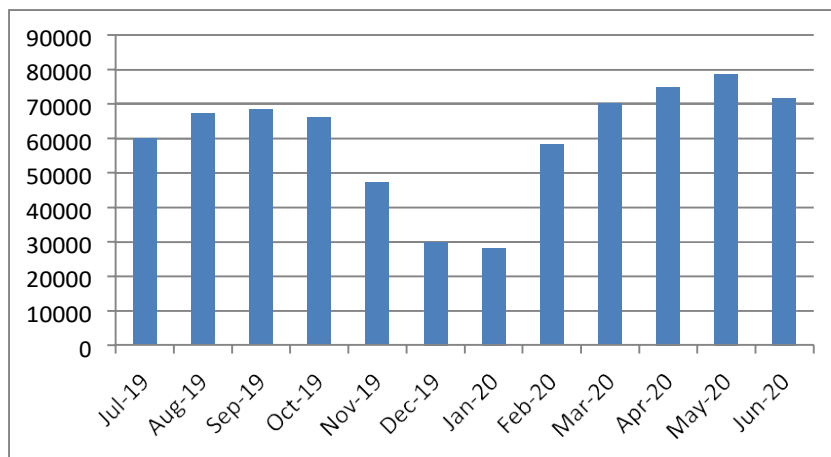
सालाना 6 लाख यूनिट बिजली बनेगी

डवलपमेंट एंड वेलफेयर के डायरेक्टर डॉ.एस.के. कट्टा ने बताया कि इंस्टीट्यूट में सालाना लगभग 12 लाख यूनिट बिजली की खपत होती है। अब इस प्लांट से लगभग 6 लाख यूनिट बिजली उत्पादित की जाएगी।

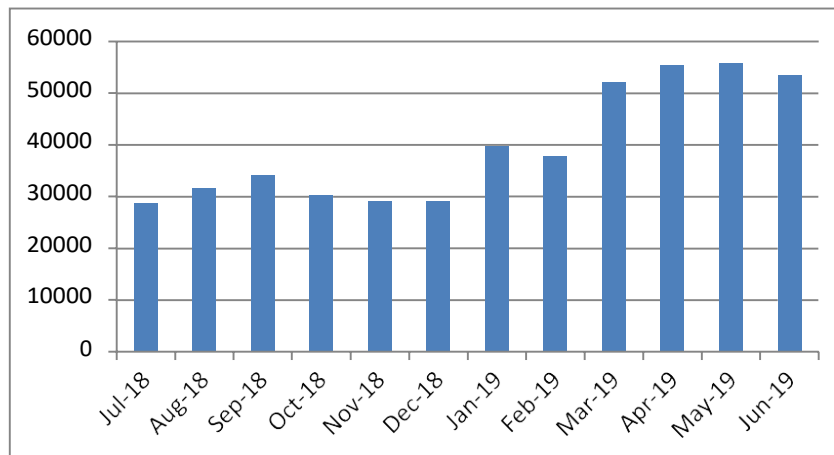
Generation Report of Solar Power Plant



Generation Report of 500 kW ground top Solar Power Plant (2018-2019)



Generation Report of 500 kW ground top Solar Power Plant (2019-2020)



Generation Report of 400 kW roof top Solar Power Plant (2019-2020)


The Chief Engineer,
Rajasthan Urja Vikas Nigam Ltd.
Vidhut Bhawan Jaipur.

Sub: Submission of Connectivity report for M/s. TECHNOCRATS & MANAGERS SOCIETY OF ADVANCED LEARNING & GRAMOTHAN PV Solar Power Plant at Vill.-Deh, Tehsil- Kolayat, Distt. - Bikaner.

Dear sir,

Connectivity for 0.5 MW Capacity has been completed on 31-03-2017 by the connectivity committee constituted vide office order SE(PP)/XEN(PP)/F/D-842 dated 30-03-2017 issued by superintending Engineer (PP), RUVNL Jaipur.

The connectivity report and MOM along with annexure is attached duly signed by the committee members are enclosed herewith for your kind perusal and record please.


(Mr. A.K. Malhotra)
Executive Eng. (T&C)
RVPN, Bikaner


(Mr. Hemendra Jindal)
Executive Eng.(M&P)
JDVVNL, Bikaner


(Mr. Gopesh Sharma)
Project Officer
RRECL, Bikaner


(Mr. Jai Kapil Tomar)
Authorized Signatory
M/S SOCIETY OF ADVANCED
LEARNING & GRAMOTHAN

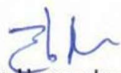
Copy submitted / forwarded to the following for kind information.

- SE (M&P-PC) Jodhpur.
- The Director Technical, RRECL, E-166, Yudhisthir Marg, C- Scheme, Jaipur

Dear sir,

Photocopies of the file is enclosed herewith for your kind information and record please and this is in compliance of office order SE(PP)/XEN(PP)/F/D-842 dated 30.03.2017 superintending Engineer (PP), RUVNL Jaipur.


(Mr. A.K. Malhotra)
Executive Eng. (T&C)
RVPN, Bikaner


(Mr. Hemendra Jindal)
Executive Eng.(M&P)
JDVVNL, Bikaner


(Mr. Gopesh Sharma)
Project Officer
RRECL, Bikaner


(Mr. Jai Kapil Tomar)
Authorized Signatory
M/S SOCIETY OF ADVANCED
LEARNING & GRAMOTHAN

Connectivity Report of Solar Plant

CONNECTIVITY REPORT FOR M/S TECHNOCRATS & MANAGERS SOCIETY OF ADVANCE LEARNING & GRAMMOTHAN SOLAR PV POWER PLANT (Appendix-II)

This is in compliance to the office order of the superintending Engineer (PP) RUVNL, Jaipur vide office order No.SE(PP)/XEN (PP)/F. / D. 842 Dt.30/03/2017. Providing connectivity to 0.5 MW Technocrats & Managers Society of Advanced Learning & Gramathan Solar PV Power Generation Plant (Multy crystalline technology) under REC mechanism installed at village-Deh, Tehsil-Kolayat, District-Bikaner on dated 31.3.2017 *Captive use*
The details of Solar Power Plant are as under:-

Sr. No.	Name of Solar PV Power Developer & Location	Capacity mentioned in Agreement	Connectivity	Details of Solar PV Power Plant (Transformer, Inverter, Modules, VCB)
1	M/s. Technocrats & Managers Society of Advanced Learning & Gramathan Vill.-Deh, Tehsil-Kolayat, District - Bikaner	0.5 MW	33 kV CT Make-Continental, CT ratio-20/5-5A, Accuracy class- 0.25 -0.25 Burden-15.0VA -15.0VA Sr No: R Phase- 5887/A7 Y Phase- 5887/A8 B Phase- 5887/A9 33 kV PT <i>crowde</i> Make-Continental PT Ratio-33KV/110V class- 0.2s, Burden - 15.0VA-15.0 VA Sr. No.: R Phase- 5887/B7 Y Phase- 5887/B8 B Phase- 5887/B9 ELSTER Make A 1800 ABT Meter- Sr No.: 2832512-2832513 Class- 0.25 <i>33 kV/100</i> AMP/VA Voltage- 63.5V Metering equipment installed at the premises generating plant. Overall M.F of Me 1 (One)	<ul style="list-style-type: none"> • Transformer 1X500 KVA, Make: Kotsons Pvt Ltd., Sr. No.20161819 • Modules Make: Renesola, installed: 1563, Rating: 320Wp Total-3200 • Inverter Make: TBEA 1X500KW

The details of connectivity are as under:

- 33 KV line from 132 KV GSS Kolayat to M/s Rays Solar Park on dated 18.9.2013
- Line Bay at 132 KVGSS Kolayat to Rays Solar Park Charged on dated 18.9.2013
- 33 KV line charged from Rays Solar Park to 132 KV GSS on dated 18.9.2013
- Main and Check Meter Commissioned on Dated 31.3.2017.
- Complete System Connected on Dated 31.3.2017

[Signature]
(Mr. A.K. Malhotra)
Executive Eng. (T&C)
JdVVNL, Bikaner

[Signature]
(Mr. Hemendra Jindal)
Executive Eng (M&P)

[Signature]
(Mr. Gopesh Sharma)
Project Officer
RRECL, Bikaner

[Signature]
(Mr. Jai Kapil Tomar)
Authorized Signatory
Technocrats & Managers
Society of Advanced Learning &
Gramathan

RRVPNL Revised Power Evacuation Plan

Rajasthan Rajya Vidyut Prasaran Nigam Ltd.

PROJECT AND PLANNING CIRCLE, JAIPUR

Regd. Office: Vidyut Bhawan, Jyoti Nagar, Janpath, Jaipur

Phone: 2740373 Fax No.: 0141-2740794 E-MAIL: se.pp@rvpn.co.in

No. RVPN/SE(P&P)/XEN-2/D.

1887

Jaipur, Dt: 27.3.17

The Director (Technical),
RREC, E-166, Yudhisthir Marg
C-Scheme, Jaipur

Sub: Revised Power Evacuation plan of 8.8 MW Solar P.V Projects (M/s Hotel Hilltop Palace) and 16.05 MW (Pragat Akshay Urja Pvt.Ltd.) at 132 KV GSS Kolayat.

- Ref:**
1. This office letter no. 832 dt.1.8.2016
 2. This office letter no. 1548 dated 1.2.2017
 3. Your letter no. 5794 dated 2.2.2017 & 5795 dt. 2.2.2017
 4. Your letter no.5932 dt.9.2.2017 & 5984 dt.10.2.2017
 5. This office letter no.1604 dt.13.2.2017
 6. Your letter no. 6295 dt.27.2.2017
 7. This office letter no. 1786 dt.9.3.2017
 8. Your Office letter No. 6821 date 17.03.2017
 9. Your Office letter No. 6940 date 24.03.2017

Dear Sir;

This has reference to your aforesaid letter dt. 24.03.2017, vide which revised power evacuation plan for setting up of (16.05MW + 0.5MW+ 1.3MW+ 0.5MW+ 0.5MW+ 3MW +2MW+1MW) 16 Nos. Solar power plants located at Village Sarah Kisnayat, Tehsil Kolayat, District Bikaner, under captive / REC Mechanism of Rajasthan Solar Energy Policy 2014 has been forwarded for approval.

In this regard, it is intimated that the inter-connectivity to the following Solar PV power projects had already been approval by RVPN vide letter D. 832 dated 01.08.2016 at the aforesaid commom pooling substation which is developed by M/s. Pragat Akshay Urja (P) Ltd. through EPC contractor M/s. Rays Power Experts Pvt. Ltd.

Table-1

S. No.	Solar Power Project	IC (MW)/ Reg. No.
1	M/s Pragat Akshay Urja Ltd	0.05MW / (S/823/2011)
2	M/s Jai Mangal Infra Powers (P) Ltd.	5 MW / (S/220/2004)
3	M/s Prakash Powers	1 MW / (S/857/2011)
4	M/s Sol Energy	0.5 MW / (S/875/2011)
5	M/s Kshitij Synergy Corp. (P) Ltd.	2.5 MW / (S/852/2011)
6	M/s K.C. (India) Ltd	2 MW / (S/892/2011)
7	M/s Saraf Export Palace	3 MW / (S/996/2014)
8	M/s Associated Soap Stone Distributing Co. (P) Ltd.	1 MW / (S/1001/2014)
9	M/s Agarwal & Trading Company	1 MW / (S/1017/2014)
	Total Capacity	16.05 MW

This revised evacuation plan has been forwarded vide your letter D. 6940 dated 14.03.2017, wherein it is intimated that M/s. Pragat Akshay Urja (P) Ltd. desire to evacuate generated power of following solar power plants under Captive/REC Mechanism of Rajasthan Solar Policy 2014 of their common pooling station at Village Sarah Kisnayal, Tehsil Kolayat, District Bikaner in Rajasthan.

Now, considering the above proposal the new position of the ultimate capacity of solar power projects which would be connected at aforesaid Common pooling S/S would be as follows:

Table-2

S. No.	Solar Power Project	Mechanism Captive/REC	IC (MW)/ Reg. No.
1	M/sPragat Akshay Urja Ltd	REC Mechanism	0.05MW / (S/823/2011)
2	M/s Jai Mangal Infra Powers (P) Ltd.	REC Mechanism	5 MW / (S/220/2004)
3	M/s Prakash Powers	REC Mechanism	1 MW / (S/857/2011)
4	M/s Sol Energy	REC Mechanism	0.5 MW / (S/875/2011)
5	M/s Kshitij Synergy Corp. (P) Ltd.	REC Mechanism	2.5 MW / (S/852/2011)
6	M/s K.C. (India) Ltd	REC Mechanism	2 MW / (S/892/2011)
7	M/s Saraf Export Palace	REC Mechanism	3 MW / (S/996/2014)
8	M/s Associated Soap Stone Distributing Co. (P) Ltd.	REC Mechanism	1 MW / (S/1001/2014)
9	M/s Agrawal Trading Company	REC Mechanism	1 MW / (S/1017/2014)
10	M/sHotel Hilltop Palace	Captive Use	0.5MW/(S/1041/2014)
11	M/s Radhamohan Builders Pvt. Ltd.	Captive Use	1.3MW/(S/1042/2014)
12	M/s Meel Hotels Pvt. Ltd.	Captive Use	0.5 MW / (S/1044/2014)
13	M/sTechnocrats& Managers Society Of Advanced Learning & Gramothan	Captive Use	0.5 MW / (S/1043/2014)
14	M/s Saraf Export Palace	REC Mechanism	3 MW / (S/1047/2014)
15	M/s Blow Packaging (India) Pvt. Ltd.	REC Mechanism	2 MW / (S/1045/2014)
16	M/s Tirupati Microtech Pvt. Ltd.	REC Mechanism	1 MW / (S/1046/2014)
	Total Capacity		24.85 MW

The common power evacuation system of the Developer is as under:

1. The common 33 KV pooling station of M/s. Pragat Akshay Urja (P) Ltd. constructed through EPC contractor M/s. Rays Power Experts Pvt. Ltd. where the aforesaid 16 Nos. of solar PV power plants would be individual connected through 33 KV line/cable.
2. 33 KV S/C line (1Km) with Panther conductor from aforesaid common 33 KV pooling Sub-Station to RVPN's 132 KV Kolayat GSS, constructed by their EPC contractor M/s. Rays Power Experts Pvt. Ltd.

In this regard, it is intimated that the above proposed power evacuation plan is found technically acceptable, subject to the following conditions.

1. The injection at 132 KV Kolayat GSS from the common pooling S/S would be restricted to thermal loading limit of the line.

OFFICE OF EXECUTIVE ENGINEER (M&P)
JODHPUR DISCOM(BIKANER)

NO. XEN (M&P)/JDVVNL/BKN/D 23

Date 18.04.2017

The superintending Engineer (PP)
RUVNL,
Jaipur.

SUB: - Synchronization & Commissioning Certificate for M/S Technocrats & Managers Society of
Advanced Learning & Gramothan Village-Deh, Tehsil-Kolayat, Distt. - Bikaner (Raj.).

Ref:-Your Kind Letter No.RUVNL/SE (PP)/F. ATC/S/D.07 Dated 05.04.2017

In reference to above mentioned the M/S Technocrats & Managers Society of Advanced Learning & Gramothan 0.5 MW Solar Power Plant at Deh, Tehsil-Kolayat Connected on 31.03.2017 by installing metering equipment at generating plant side S.No. of meters installed are 2832512 and 2832513 its MF is 1 (One). The plant was visited by the commissioning committee on 06.04.2017 and on the basis of the documents enclosed the plant is considered as commissioned. The following documents are hereby enclosed for necessary action:-

1. Connectivity report for M/S Technocrats & Managers Society of Advanced Learning & Gramothan
2. Synchronization Certificate.
3. Minutes of meeting of the committee.
4. Installation Report.
5. Sheet showing Meter Reading and Energy Flow.
6. Snaps of installation and MRI Record.


Executive Engineer (M&P)
Jodhpur Discom, Bikaner

Copy Submitted /forwarded to the following information.

- The C.E. (RUVNL), Jaipur.
- The S.E. (NPP), RVPNL, Jaipur.
- The S.E. (M&P), JdVVNL, Jodhpur.
- The S.E. (TCC), RVPNL, Jodhpur.
- Director Technical, RRECL, E-166, Yudhisthir Marg, C-Scheme, Jaipur.
- The Project Officer, RRECL Bikaner.
- M/S Technocrats & Managers Society of Advanced Learning & Gramothan, Address: -5-D-Villa, Station Road, Jaipur-302006 Rajasthan


Executive Engineer (M&P)
Jodhpur Discom, Bikaner

Minutes of Meeting (MDM) of the committee constituted vide order number RI/VNL/SE (PP)/E-ATC/F.D.07 Dated 05.04.2017 during visit of M/S TECHNOCRATS & MANAGERS SOCIETY OF ADVANCE LEARNING & GRAMMOTHAN 0.5 MW Solar PV Power Plant under Captive use located at village Deh, Tehsil Kolayat on dated 06.04.2017

The committee constituted vide above said order visited M/S TECHNOCRATS & MANAGERS SOCIETY OF ADVANCE LEARNING & GRAMMOTHAN 0.5 MW Solar PV Power Plant under Captive use located at village Deh, Tehsil Kolayat on dated 06.04.2017 and found the installation status as per installation status report at Annexure I.

The committee also ^{checked} the energy meters readings at plant end, showing the injection of power from the plant to the grid which are enclosed in Annexure II.

Synchronisation certificate showing the synchronisation of the plant on dated 31.03.2017 on time 18:05 PM is also attached at Annexure III.

The Connectivity report showing the connectivity of the plant with grid on dated 31.03.2017 is enclosed at Annexure IV.

The Electrical inspector report with respect to plant installation is enclosed at Annexure V.

The Affidavit (1Nos.) submitted by the firm in respect of other technical requirements are enclosed at Annexure VI.

The Snap shots of the plant installation, inverters and energy meters showing the readings along with MRI record are attached at Annexure VII.


(Mr. A.K. Malhotra)
Executive Eng. (T&C)
RVPN, Bikaner

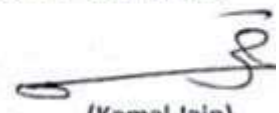

(Mr. Hemendra Jindal)
Executive Eng (M&P)
JdVNL, Bikaner


(Mr. Gopesh Sharma)
Project Officer
RRECL, Bikaner


(Mr. Jai Kapil Tomar)
Authorized Signatory
M/S Technocrats & Managers
Society of Advanced Learning
& Grammothan

- Availability of spare capacity in 132 KV lines emanating from 132 KV GSS Kolayat.
3. M/s Hotel Hilltop Palace(S/1041/2014), M/s Radhamohan Builders Pvt. Ltd. (S/1042/2014), M/s Meel Hotels Pvt. Ltd. (S/1044/2014), M/s Technocrats & Managers Society Of Advanced Learning & Gramothan(S/1043/2014), M/s Saraf Export Palace(S/1047/2014), M/s Blow Packaging (India) Pvt. Ltd. (S/1045/2014), M/s Tirupati Microtech Pvt. Ltd. (S/1046/2014) shall deposit @ Rs. 2 Lacs per MW for their registered solar capacity.
 4. Commissioning of 40/50 MVA Transformer at 132 KV GSS Kolayat.
 5. Commissioning of 400 KV GSS Bhadla & 400 KV Bhadla-Bikaner line.
 6. Commissioning of 132 KV lines from 132 KV GSS PS2 to 220 KV GSS Kanasar & 132 KV GSS PS3 to 220 KV GSS Kanasar .
 7. Commissioning of 220 KV D/C Kanasar-Bhadla line.
 8. The metering arrangement would be as per provisions of PPA.If energy generated of proposed plant is sold through open access then prevailing open access regulations and grid code would be applicable.

This is in supersession to the technical feasibility conveyed earlier vide our letter D. 832 dated 01.08.2016 and letter D. 1786 dated 09.03.2017.


(Kamal Jain)
CHIEF ENGINEER (PP&D)

Copy submitted/forwarded to the following for information and necessary action.

1. The Chief Engineer(NPP & RA), RVPN, Jaipur.
2. The Chief Engineer, RUVNL, Jaipur.
3. The Superintending Engineer (Design), RVPN, Jaipur.


CHIEF ENGINEER (PP&D)

Installation Report

Installation Report of M/S TECHNOCRATS & MANAGERS SOCIETY OF ADVANCE LEARNING & GRANMOTHAN 0.5MW Solar Power Plant under Captive use located at Village-Deh, Tehsil- Kolayat, Distt. - Bikaner as on 06.04.2017 witnessed by members of commissioning committee.

a)	Capacity of the plant (MW)	0.5 MW
	Capacity already commissioned (MW)	Nil
	Capacity proposed to be commissioned (MW)	0.5MW
b)	Technology used (mono/multi crystalline/thin film/other, please specify along with capacities of each type)	Multi Crystalline
c)	Rating of the each module (Wp)	320Wp
d)	Angle from horizontal at which array is installed (1) February to March & September to October (2) March to April & August to September (3) April to August	05° 27° 30°
e)	Number of module installed of each type	1563 (Multi Crystalline)
f)	Source of modules installed of each type	Renesola
g)	Number of PCUs installed	1 x 500KW
h)	Source of PCUs (Name of suppliers with address)	TBEA
i)	Status of completion of work as on date a. Full capacity of PV array b. PCUs c. Transformer	28.3.2017 100 % installation 100 % installation 100 % installation
j)	Date of Inter - Connection with the grid	31.03.2017


(Mr. A.K. Malhotra)
Executive Eng. (T&C)
RVPN, Bikaner


(Mr. Hemendra Jindal)
Executive Eng. (M&P)
JVVNL, Bikaner


(Mr. Gopesh Sharma)
Project Officer
RRECL, Bikaner


(Mr. Jai Kapil Tomar)
Authorized Signatory
M/S Technocrats & Managers
Society of Advanced Learning
& Granmothan

Commissioning Certificate

COMMISSIONING CERTIFICATE

OF

M/S TECHNOCRATS & MANAGERS SOCIETY OF ADVANCE

LEARNING & GRANMOTHAN

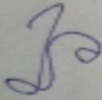
- This is to certify that M/STECHNOCRATS & MANAGERS SOCIETY OF ADVANCE LEARNING & GRANMOTHAN having its office at 5-D-Villa, Station Road, Jaipur-302006 Rajasthan has successfully commissioned capacity 0.5MW Solar PV Power Generation Project under Captive use at Village- Deh, Tehsil- Kolayat, & Distt.-Bikaner.

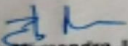
The commissioning Certificate has been issued on the basis of the following documents enclosed:


- (I) Installation report including Snap shots of the project from Various angles
- (II) Electrical Inspector Report
- (III) Connectivity Report
- (IV) Synchronization Certificate including MRI record.


The Date of Commissioning is 06.04.2017

Note: - The affidavits submitted by M/S TECHNOCRATS & MANAGERS SOCIETY OF ADVANCE LEARNING & GRANMOTHAN in respect of the technical requirements are enclosed.



(Mr. A.K. Malhotra)
Executive Eng. (T&C)
RVPN, Bikaner



(Mr. Hemendra Jindal)
Executive Eng. (M&P)
JdVNL, Bikaner



(Mr. Gopesh Sharma)
Project Officer
RRECL, Bikaner



(Mr. Jai Kapil Tomar)
Authorized Signatory
M/S Technocrats & Managers
Society of Advanced Learning
& Gramothan

Sheet Showing Meter Reading and Energy Flow of M/S TECHNOCRATS & MANAGERS SOCIETY OF ADVANCE LEARNING & GRANMOTHAN 0.5 MW Solar PV plant under Captive Use at Village- Deh , Tehsil- Kolayat, Dist. Bikaner as on 06/04/2017 as witness by committee.										
Sr. No.	Location	Meter Sr. No.	Initial		Final		Difference		MF Of Meter	Total Energy Flow
			Reading	Time(Hrs)	Reading	Time	Reading	Time		
1	Main Meter Plant End	2832512	3304.59	11:04Hr	5197.3500	18:19 Hr	1892.7600	3Hrs.15 Minute	1	1892.76
2	Check Meter Plant End	2832513	3304.59	11:08Hr	5176.1500	18:21 Hr	1871.5600	3Hrs. 13Minute	1	1871.56


(Mr. A.K. Malhotra)
Executive Eng. (T&C)
RVPN, Bikaner


(Mr. Hemendra Jindal)
Executive Eng.(M&P)
JdVNL, Bikaner


(Mr. Gopesh Sharma)
Project Officer
RRECL, Bikaner(Raj.)


Mr. Jai Kapil Tomar
Authorised signatory
M/S Technocrats & Managers
Society of Advanced Learning
& Gramothan

Synchronization certificate of Kolayat plant with Power Grid


Synchronization Certificate

It is certified that 0.5MW Solar photovoltaic Power Project under Captive use of M/s Technocrats & Managers Society of Advanced Learning & Gramothan At Village-Deh, Tehsil- Kolayat, District-Bikaner was Grid connected on 31.03.2017

It is further certified that the Project was synchronized and commencement of Power supply into the Grid from the Project on 31.03.2017 at 18:05 Hrs.

The above certificate is issued on the basis of MRI record (Copy of duly signed MRI is enclosed.)


(Mr. Hemendra Jindal)
Executive Eng. (M&P)
JdVVNL, Bikaner


(Mr. A.K. Malhotra)
Executive Eng. (T&C)
RVPN, Bikaner

Affidavit between Technocrats & Managers Society and Rays Power Experts Pvt. Ltd.

AFFIDAVIT

I, Jai Kapil Tomar S/o Dr. Narendra Kumar Tomar, Aged 28 Years, R/O Sainar road, Bikaner do solemnly affirm and say as follows:

1. That I am working as Manager (Admin) in the M/s Rays Power Experts Pvt. Ltd. Address of company is 4th Floor, Sheel Mohar Plaza, Yudhishthir Marg, C-Scheme, and Jaipur.

2. That I am Authorised Signatory of the Company i.e. M/s Technocrats & Managers Society of Advanced Learning & Gramothanand fully competent and conversant to affirm about the correctness of the facts and information deposed herein behalf of firm.

3. That M/s Technocrats & Managers Society of Advanced Learning & Gramothanis developing 0.5 MW captive Solar Power Project at Village Deh, Tehsil-Kolayat, Dist. Bikaner in the state of the Rajasthan.

4. The company have installed the PV modules used in our grid connected solar power project and confirm to the latest edition of any of the relevant IEC PV equivalent test or equivalent BIS standards as under:

a. Crystalline Silicon solar cell modules IEC 61215

5. In addition PV modules must confirm to IEC 61730 and IEC 61701 for safety qualification testing and corrosive atmosphere throughout their lifetime respectively

6. Identification and traceability information is available in bar code affixed on solar modules.

7. We have installed common Weather monitoring station for record of weather monitoring data at Common control room of rays Solar Park at village Sarah Kisrayat, Tehsil- Kolayat, Dist. Bikaner. If a separate Weather Monitoring Station is insisted by the competent authority for individual plant we will install the same in due course.

8. If at any stage it is found that the project or its equipments are not conforming to any of prevailing rules and regulations or guidelines the responsibility will be ours.

9. The modules we have installed in our 0.5 MW Solar PV plant M/s Technocrats & Managers Society of Advanced Learning & Gramothandoes not require RFID tags and it is also not mandatory as per the guideline. We take complete responsibility of any consequence in case we are found not conforming to RFID requirements.

I hereby declare and verify the above stated facts are true and correct to the best of my knowledge and belief and nothing has been hide and false in it. If found the company shall be responsible.

Verified at this 6th April 2017

Verification

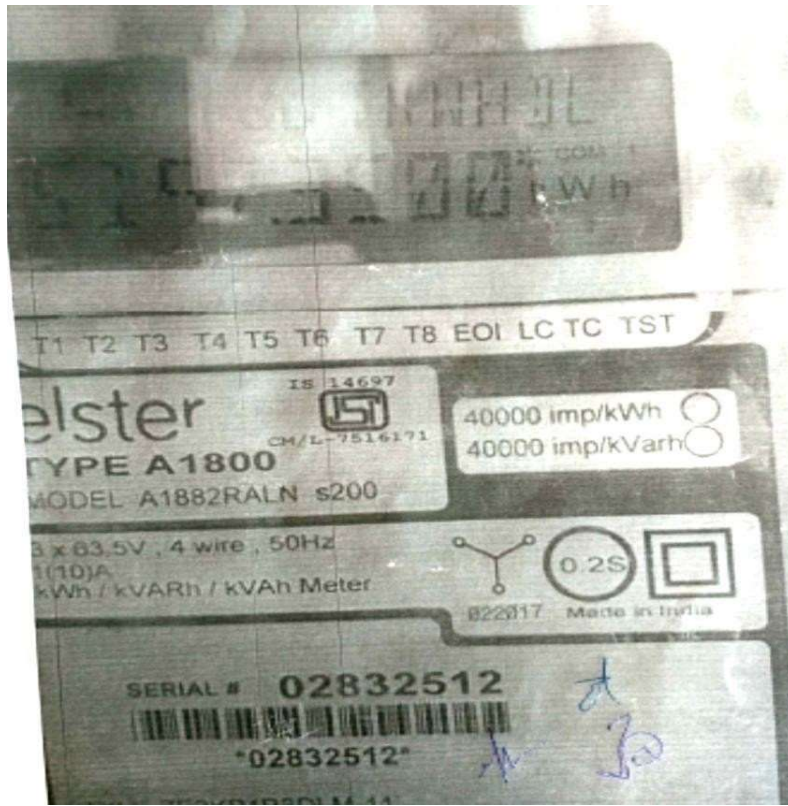
Verified on this 6th April 2017 that the content of the above mentioned Affidavit are true and correct to the best of my knowledge and nothing material has been concealed.

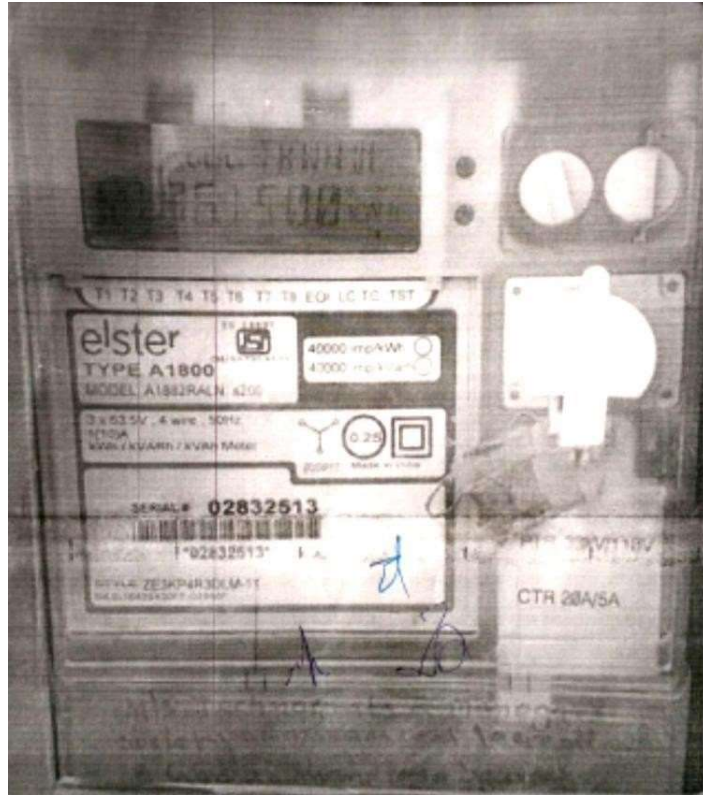
Deponent

Jai Kapil Tomar

भारतस्थान प्रजासत्ताक गणराज्य २०१७ के अधिनियम
इच्छापूर्वक रूप से
1. नाम: ... २०१७
2. पता: ... २०१७
... २०१७

Images of Meter Reading indicate the generation of electricity





Letter of Permission for Energization of Installation

GOVERNMENT OF RAJASTHAN
OFFICE OF THE ELECTRICAL INSPECTOR
94-A/116 Hari Marg, Civil Line, Jaipur-302006, Ph. No. 0141-2224764

No. PP/EI/2015/

342

Date:

27 JAN 2016

M/s Techno Crate Gramothan,
SKIT, Ramnagriya, Jaipur.

Sub:- GRANT OF PERMISSION UNDER RULE 47A OF INDIAN ELECTRICITY RULES 1956 FOR ENERGISATION OF INSTALLATION

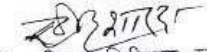
Ref:- Inspected by Assistant Electrical Inspector, Jaipur City on 23-01-2016 & Report Forwarded vide his letter- No: 111 Dated 27-01-2016

The permission for energisation of installation shown below is hereby accorded under rule 47A of Indian Electricity Rules 1956. The inspection fees Rs 8000/- has been deposited by the consumer vide D.D. No. 015319 Date 23-12-2015 in this office.

The Addressee having the following installation:-

1. 1x400KWp Solar Power Plant having 780 & 530 Modules of 305 W & 310 W each, Make Renasola.
2. 2x50 KW, 2x60 KW, 3x30KW, 1x25 KW, Inverter Make :Sungrow (5 Nos) Sr.No. A1507211106, A1507211091, A1507211163, A1507200068, A1509083013 Make Chint (Nos 2) Sr. No. 11431506006, 11941514017.

No change addition, alteration replacement or shifting etc. is permitted under the above rules without prior approval of Electrical Inspectorate. On violation of this permission is deemed to be cancelled.


दरिष्ठ विद्युत निरीक्षक, जयपुर
विद्युत निरीक्षक
जयपुर-अजमेर सभाग
जयपुर

No. PP/EI/2015/

Date:

Copy Forwarded to following for the information and necessary action:-

1. Executive Engineer (CD-VI) JVVNL, sanganer, Jaipur
2. Assistant Electrical Inspector, Jaipur City.
3. Master File.


दरिष्ठ विद्युत निरीक्षक, जयपुर
Electrical Inspector
Jaipur