

LARGEST NATIONAL OFF-GRID ROOF-TOP POWER PROJECT AT 9348 LOCATIONS



REIL has successfully executed the largest national off-grid roof-top solar power-pack project of **10 MW**, by installing **2.24 KWp** capacity power pack at 248 Panchayat Samiti and **1.12 KWp** capacity power pack at 9100 Gram Panchayat, spread in an area of 3.42 Lac sq. km. across the state of Rajasthan.

Bharat Nirman Rajeev Gandhi Seva Kendra (BNRGSK) by the Rural Development & Panchayat Raj Department, Government of Rajasthan under Jawarlal Nehru National Solar Mission (JNNSM). The Ministry of New and Renewable Energy (MNRE), Government of India, has also extended support to the project, including central financial assistance.

The System Configuration

There are two system configurations namely **2.24 KWp for Panchayat Samiti** and **1.12 KWp for the Gram Panchayat**.

The 2.24 KWp power plant comprises 2240 watt capacity Crystalline Silicon SPV modules; 4 KVA **DSP sine wave inverter** (96V) input/230V single phase output; **Solid State PWM charger** with 96 V DC input and **adequate protection**; Tubular positive plate battery bank 96V, 300AH; junction boxes, wires, cables, tags etc. The above configuration supplies power to **operate 10 Computer systems and network equipment over 6 hours** and a **printer for 1 hour**.

Similarly the 1.12 KWp power plant comprises 1120 watt capacity SPV Crystalline Silicon modules; 2 KVA **DSP sine wave Inverter** (48V) input/230V single phase output; **Solid State PWM charger** with 48 V DC input and **adequate protection**; Tubular positive plate battery bank 48V, 300AH; junction boxes and wires, cables, tags etc. The above configuration supplied power to **operate 5 Computer systems and network equipment over 6 hours** and a **printer for 1 hour**.

The mounting structures are **galvanized to avoid corrosion**, and have **anti-theft feature**. These Solar PV hybrid systems have facility for **charging through SPV and AC mains**.

Project Management : Out of the Box ICT initiative - www.reilsolar.com

The scope of the project was to commission systems at over 9348 locations across Rajasthan. As the success of the project depended on timely completion of preceding activities, monitoring them was a challenge for the stakeholders, government agencies and vendors, and significant for REIL to execute its contractual obligations.

To handle the challenge, an **out of the box ICT initiative - www.reilsolar.com** - was conceived, design and developed. The solution emerged as a **Project Management tool**, which monitors the multiple activities





right from construction of building to commissioning and complaint handling. This has speeded up the entire process as it keeps track of various status levels of building construction viz. Plinth Level, Lintel Level, Roof Level, Under-Finishing, completion of building, site readiness etc. to facilitate planning of schedules for production, dispatches, installation; and hand-over of sites in a timely manner. This has helped the government to keep track of the readiness of the Kendras across the state.

The user interface provided on the website helps the users to: obtain information about the system to increase awareness; get information on vendor's scope and responsibility; become sufficiently knowledgeable on the use and performance of system and its sub-systems; log complaints as soon as problem is detected; and track the complaint status.

The beneficial experiences have led the website to be upgraded for use in tracking the commissioning of infrastructure and services at the BNRGSK, such as digital communication from BSNL, Gyan Kendra of RKCL, e-Mitra, Mini Bank etc.. The government uses the status to pursue the respective vendor/agency to accelerate the work; and the citizens can update on the services/facilities made available at the BNRGSK nearest to them. This website can also be used to track the implementation of any new service in future.

The Benefits Are

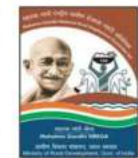
- ✓ Monitoring without physical movement
- ✓ Automatic email & messages to government officials ... informing the updated status of the project.
- ✓ Efficient MIS, uploading of documents online.
- ✓ Complaints handling
- ✓ Transparency in the entire system.

This e-governance initiative has been awarded and recognized at National Level.

Activities @ Seva Kendras

Facilitating Rural Population with....

- ✓ MGNREGA
- ✓ RKCL
- ✓ SATCOM
- ✓ Mini Bank
- ✓ CSC
- ✓ e-Mitra
- ✓ BSNL
- ✓ Post Office etc



Tasks performed @ Kendra's...

- ✓ Accept applications for Job Cards
- ✓ Accept applications for work allocation
- ✓ Muster Roll Scrutiny
- ✓ Online Reservations
- ✓ Complaints
- ✓ ICT facilities
- ✓ Functioning of NREGA Office etc.



Training sessions

Benefits: Changing lives of rural population

- ✓ The **services@BNRGSK** shall benefit a population of about 6 Crore residing in these Panchayat areas.
- ✓ Effective use of technology for improved confidence and trust of common man in the system.
- ✓ **Employment opportunity** for approximately 40,000 persons in rural areas.
- ✓ **Skill up-gradation** facility in IT for 75,000 students every year.
- ✓ Empowering the **NOFN connectivity mission** for the computer systems at these Kendra's with SPV power, under pilot project at Arain, Ajmer district.
- ✓ Transforming the lives of rural people bringing **energy security & sustained growth**.

Achievements through the project...

- ✽ A record simultaneous inauguration of 5244 Seva Kendra at one time
- ✽ Data collection for Aadhar cards in these kendras

PERFORMANCE: Q1 FY 2013-14

In the first quarter of the year 2013-14, the Company has recorded a turnover of Rs. 20.92 Crore. The Renewable Energy Division and Electronics Division achieved first-quarter turnover of Rs. 8.67 Crore and Rs. 12.25 Crore respectively.

Achievements : Electronics Division

During this quarter, the Company received major orders for AMCU, from Andhra Pradesh, Bihar, Punjab, Rajasthan etc. and Milk Analyzer from Punjab, Tamil Nadu and Gujarat. The Company has also received orders for Electronic Milk Tester from Andhra Pradesh, Gujarat, Karnataka, Maharashtra, Punjab and Tamil Nadu.

During this quarter the Division has supplied sizable number of various Milk testing and collection units i.e Electronic Milk Testers, DPMCU, Smart-DPMCU, AMCU etc.

Achievements: Renewable Energy Division

During this period, the Division has supplied, installed and commissioned a 10 KWp SPV Solar Power Plant and Street Lighting Systems at Women Engineering College, Ajmer. The Company has also successfully installed solar water pumps in Rajasthan, under Horticulture Subsidy Scheme.

During the quarter, the Division has received a prestigious order from Indian Army for supply, installation and commissioning of seven numbers of 100 KWp SPV Power Plants in North Eastern states.

The Company had kept its promise to contribute in development of the state and received work orders for supply, installation and commissioning of sizable numbers of 50 and 30 KWp rooftop SPV systems. The Division has also received orders from various watershed departments for supply, installation and commissioning of SPV Street Lighting Systems.

VIP GALLERY

- ❖ Shri Ram Murti Verma, Hon'ble State Minister Dairy Development, Government of Uttar Pradesh visited REIL premise on 29.04.2013. He was briefed about the Company, its facilities and about the contribution of REIL in Rural Development of the Country in Agro Dairy and Solar.



Shri A.K. Jain, MD, REIL explaining Company products to Shri Ram Murti Verma, Hon'ble State Minister Dairy Development, Government of Uttar Pradesh

- ❖ Shri Shakil Ahmed, Managing Director, Rajasthan State Land Development Bank, Jaipur visited REIL on 02.04.2013.
- ❖ Dr. Ratna Jain, Mayor Kota (Rajasthan) visited REIL on 08.05.2013.

PARTICIPATION BY REIL AT VARIOUS FORUMS**Dubai Global Convention 2013, Dubai**

The Managing Director, REIL and Additional General Manager, attended and actively participated in **Dubai Global Convention 2013** organized by Institute of Directors (IOD) at Burj Al

Arab, Dubai on the theme of Business excellence during 1st -2nd May 2013.



Shri A.K. Jain, MD, REIL chaired a technical session on “Leadership for Creating a World – Class Organization”, during Dubai Global Convention 2013

The MD shared the achievements of REIL and his experiences on the subject, and interacted with other participants with the objective of exploring export opportunities and business in the global perspective.

Renewable Energy in Rajasthan

The Company has actively participated in conference on “Renewable Energy in Rajasthan – Unleashing the potential” organised by PHD Chambers held on 25th April 2013 at Jaipur.



Shri A.K. Jain, MD, REIL delivering a speech on “Renewable Energy in Rajasthan – Unleashing the potential” during the session

Green Building & Renewable Energy

A national conference was being organized by CII, on 9th May 2013, at Jaipur on the theme “Green Building & Renewable Energy”.



Shri A. K. Jain, Managing Director, REIL delivered keynote address during the session.

STAFF ACTIVITIES

Review meeting of Regional Offices

The annual sales review meeting of all the Regional Offices of the Company was organized from 12.04.2013 to 14.04.2013.

During this meeting all the Regional Officers gave their presentation where they covered their sales targets for the current financial year, methodology / practice to achieve the targets, payment realization / sales tax / TDS certificates collection, customer feedback for existing / new products etc.

Training

During the quarter, 17 man-days of training was organized externally for employees on various aspects like Occupational Safety & Health at Workplace, Developing Executive Secretaries, Personal Assistant and Office Staff for future, Sensitizations meet on Climate Change, Green Building & Renewable Energy etc.

Promotion

The following were promoted w.e.f 01.04.2013

- Shri Ajay Bhargava promoted as General Manager.
- Shri Deepak Gupta promoted as Deputy General Manager.
- Shri D. K. Gupta promoted as Deputy General Manager.

The Company congratulates all the personnel, on their promotion and wishes them a successful career ahead.

Annual Address

On the eve of closing of financial year 2012-13, Shri A. K. Jain, Managing Director, REIL apprised about Company's achievements for the year 2012-2013, and plans for the year 2013-2014, on 15.04.2013.

**IDEAS****Annual get together**

The REIL Staff Club organized a family get-together, on 12th June 2013, at REIL premises.

On this occasion the REIL personnel, along with their families, participated in a cultural evening followed by a dinner. It was a matter of delight to have with us Shri M. P. Jindal, Ex. MD, REIL during this get-together.

Everybody enjoyed the cultural program, performed by REIL employee's children. The clapping and cheering by the audience sustained the high tempo of the performers. The performances were rounded up by a Play on the theme about need and increasing demand for milk analyzers and their

benefits to producers as well as consumers and about clean and green - Solar Power energy. It was followed by recognizing the talented children of the REIL employees. The dignitaries awarded prizes and gift to children.

The newsletter of the Company was released and the annual gift for the Financial Year 2012-13 was also announced, for all the employees.

The Managing Director, apprised about the Company activities and planning towards various activity, family welfare of the employee etc.

He also shared the importance of this day in his life, and encouraged the employees to celebrate the event every year with full zeal. He also thanked the staff club for their efforts in successful conduct of the function.

The event ended with Shri R.K. Gupta, chairman Staff Club thanking the employees and their family members for making the event livelier.

OUR AWARD WINNERS**Class Xth**

1. 93.10% marks, by Ms. Garvita Bhatnagar, daughter of Mrs. Richa Bhatnagar and Mr. N.K. Bhatnagar.
2. 89.30% marks, by Mr. Anuj Sharma, son of Mrs. Premlata Sharma and Mr. K. K. Sharma.

Class XIIth

1. 96% marks in Commerce, by Ms. Anagha Manoharan, daughter of Mrs. Prameela Manoharan and Mr. S. Manoharan.
2. 91.40% marks in Science, by Mr. Aayush Saxena, son of Mrs. Indra Saxena and Mr. Neeraj Saxena.
3. 90.2% marks in Commerce, by Mr. Jai Kumar Gupta, son of Mrs. Vijaya Lata Gupta and Mr. H. K. Gupta.
4. 87.3% marks in Science, by Mr. Anand Gupta, son of Mrs. Namrata Gupta and Mr. Jitendra Kumar.

Sports Award

1. Ms. Akansha Agarwal, daughter of Mrs. Indu Agarwal and Mr. Ravikant Agarwal, for attaining best athlete at CBSE Cluster Meet at state level in high jump and triple jump.
2. Ms. Abhilasha Agarwal, daughter of Mrs. Indu Agarwal and Mr. Ravikant Agarwal, for best athlete at CBSE Cluster Meet at state level.

GLIMPSES OF REIL - GET - TOGETHER, YEAR 2013

Welcoming & lamp lighting



Awareness.....



Recognizing
the efforts



Lucky Draw
Winners



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