



Corporate Presentation FY 2020-21

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- Presence
- Products (PV Modules, PV Cells, Encapsulants, Backsheets)
- Facilities - (Hyderabad and Bengaluru)
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RenewSys

RenewSys is the First Integrated
Manufacturer of Solar PV Modules
and Its Key Components -
Encapsulants (EVA and POE),
Backsheets and Solar PV Cells





ENPEE



58 Years

\$300+ MILLION

3000+ EMPLOYEES

www.enpee.com

RenewSys India Pvt. Ltd. is a part of
the **ENPEE Group**.

An international conglomerate
with a rich heritage of
nearly 60 YEARS of manufacturing
excellence in diverse industries.

ENPEE Group Values



Be

Courageous



Be

Empowered



Be

Trustworthy



Be

Fair



Be

Futuristic

Our growth story is based on five key values identified for the team, by the team.

ENPEE Group Companies



- Based in Nigeria
- Manufacturing Metal Packaging



- Based in Nigeria
- Printing Cylinders and Inks, CPP Films



- Based in Nigeria
- Soaps, Personal and Home Care, Beauty and Cosmetics



- Based in Nigeria
- Flexible packaging



- Based in Nigeria
- Cement/ Fibre Cement Sheets



- Based in India
- Packaging Brand Management



- Based in Nigeria
- Construction, Chemicals, Adhesives, Power Cables



- Solar PV Modules & Components
- Manufacturing Facilities in Hyderabad & Bengaluru, India

RenewSys Global Presence



RenewSys PV Module Installations



RenewSys PV Modules are harnessing the sun's power across the globe in projects, ranging from small specialised applications to utility scale projects.

Manufacturing Facilities



Our **Hyderabad** facility manufactures:

DESERV 750 MW Solar PV Modules

RESERV 130 MW Solar PV Cells



Our **Bengaluru** facility manufactures:

CONSERV 1.4 GW EVA and POE Encapsulants

PRESERV 3 GW Backsheets

The Team



Team RenewSys :

- Diverse set of dedicated professionals
- Knowledgeable with varying skill sets as engineering, finance, human resources
- Energetic and Dynamic
- Innovative and Progressive
- Human Resource strength of approximately 1000

Careers



An environment that is conducive for ambition, growth and development:

- In-house training and development
- External training programmes
- Safe and healthy work environment
- Equal opportunity organisation

Community Initiatives



We are committed to giving back:

- India One Solar Thermal Power Plant supporter
- Eye care and Diabetes research
- Education for the underprivileged
- Sponsoring Cancer patients
- Sponsoring Ph.D. Scholarship SERIS, Singapore
- Vision Centres across India
- Special Needs Vision Clinic, Hyderabad

Product Excellence Centres



Reliable, Superior Product Quality:

- Facilitate **New Product Development**
- Continuous testing and **Quality Control**
- **Superior Equipment** - Laboratory Extruder, Lab grade Laminator, and Universal Testing Machine, Environmental Chambers for Damp Heat Test, Thermal Cycling, etc.

RenewSys - The 1st



- And **only integrated manufacturer** of Solar PV Modules and its key components
- To launch **India's only Glass-Backsheet** Bi-facial Solar PV Module - '**DESERV Extreme**'
- And only in India to receive **UL approval** and commercialise the production of POE Encapsulant - **CONSERV E 360**
- And only Indian manufacturer to have a dedicated '**Product Excellence Centre**'
- And only in India with **NABL Accredited PV Lab** specifically for Encapsulants, Backsheets & their raw materials - Bengaluru Facility
- And only in India to have **Intertek Certified Satellite® Lab** - Hyderabad Facility
- In India to launch **Dr. PV**, a free module wellness programme
- In India to launch **5 BB** and **6 BB** solar PV Cells, **Made in India**
- Indian company to receive a **PV Backsheet Patent**

RenewSys Hyderabad

The Hyderabad Factory



- At **FAB City**, Outskirts of **Hyderabad**
- Total area - 50 Acres
- World - class manufacturing facility
- State-of-the-art **European Technology**
- **World - class** Racking System on tracks

Environment - Friendly Measures



The Hyderabad facility is designed to reduce its overall **carbon footprint by: 249 Tons**

- ✓ **Water Conservation** measures = 5043 KWH saved
- ✓ **Electricity Conservation** measures = 280,895 KWH saved with the power generation of = 1,00,000 units/mth
- ✓ **2000+ Trees** and **1250+ Saplings**
- ✓ **IMS Certified (ISO and OHSAS)**

Production Capacity: DESERV and RESERV



- DESERV™ 750 MW Solar PV Modules:
- Automated European lines to manufacture Multi and Mono, full cell and cut cell modules
- RESERV® 130 MW Solar PV Cells
- Fully automated European production lines

DESERV - Product Range

Solar PV Modules to suit applications from small lighting systems to utility scale plants.



- **High Performance PV Modules** (Multi and Mono)
- **High Voltage, High Output PV Modules** for special applications
- **Higher Output PV Modules**
 - Bi-facial Cells (Multi and Mono)
- **Small PV Modules**
- **Specialised PV Modules**
 - BIPV (Building Integrated Photovoltaic)
 - **Semi-rigid and Flexible** (Multi and Mono)

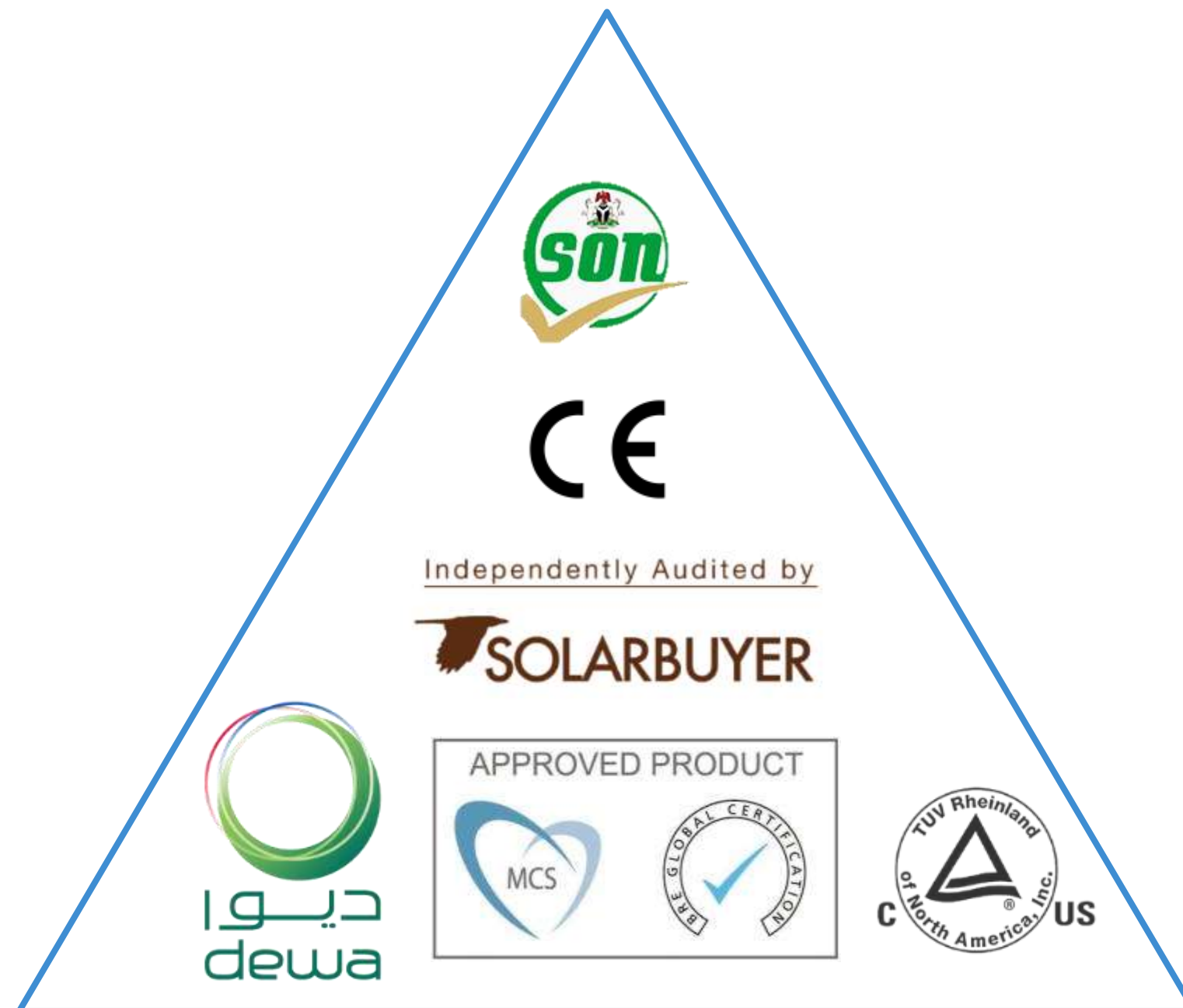
Assured Performance



Rigorous and controlled manufacturing ensures that **DESERV PV Modules** set benchmarks for performance

- **State-of-the-art** manufacturing technology
- **Three Stage Laminator**
- **Fully automated inspection** process
 - **100% EL process** - pre and post lamination
 - **Automated Optical** Inspection
- **RTV Curing Chamber** to assure quality

Product Certifications



Certification Details:

- TUV Certified 61215, 61730, 60068-2-68, 61701, 62716
- IEC TS 62804, 61853
- UL Certified: 1703
- SON CAP Certified
- Meets requirements for - SASO, RRECL, GEDA
- CAN/CSA: 61730
- MCS Certified
- DEWA Listed
- Independently audited by Solar Buyer
- BIS NO.: R-63000760

Munich RE & DNVGL

- Setting industry benchmarks for transparent, reliable business
- RenewSys modules now accepted by major Developers, EPC companies and Financiers, who otherwise only accept 'Tier 1'

Bankability

Transparency enhanced with audit by DNV GL -
empowers customers with insights



Insurance

Product and performance insurance globally
Re-insurance offered by Munich RE*

Warranty partner



Large-scale PV projects bought during the Policy Period of 19 July, 2019-18 July, 2020 can obtain optional warranty back stop by **Munich Re**, with insurance capacity exclusively allocated for each project.

Champion Products

DESERV EXTREME INDIA'S MOST Efficient Solar PV Module

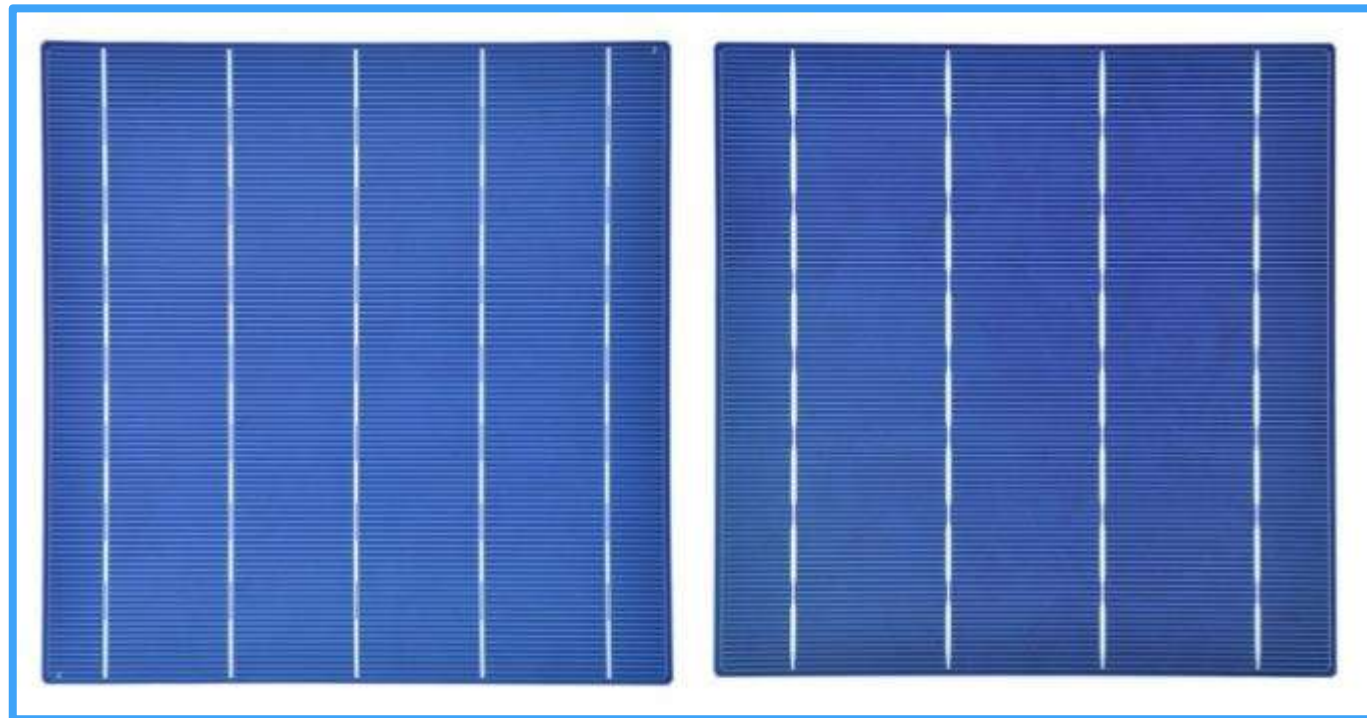
A 390 Wp Solar PV Module
giving an output as high
as 663 Wp @70% Albedo



- Bi - Facial
- Cut Mono PERC Cells
- Transparent Fluoro Backsheet

RESERV - Product Range

RESERV range of PV Cells made from virgin poly-silicon wafers and silver bus-bars



- **Total cell capacity** - 130 MW
- **First Indian company** to launch 5 BB and 6 BB Cells
- **We manufacture** 4 BB Cells and 5 BB Cells
- **Raw materials**, including high purity solar grade silicon wafers and contact pastes with high metal content used
- **Statistical process** control during production

Assured Performance



A meticulous process ensures that the highest quality of PV Cells are manufactured:

- **Automated Cell Sorting** is conducted with the help of our latest European technology
- **PID Testing** at cell level
- **Statistical Process Control** to check cell measurements
- **High conversion efficiency** due to elimination of cracks

Packaging and Storage - Hyderabad



Our storage facilities are designed for the secure and safe dispatch of our modules and components:

- Detailed inspection system ensuring safe delivery
- ISO Certified and OHSAS compliant storage facility
- Over 2,000 modules dispatched per day
- Customised packaging
- Instore software for retrieval of goods from storage
- World - class Racking System with the facility to move on tracks

Intertek Lab




India's 1st Intertek Certified Satellite®

Lab - Hyderabad Facility

Know more...

Customers Testimonials



RENEWSYS SOUTH AFRICA (PTY) Ltd
Bradford House, Block C, No: A9
12, Bradford Road, Bedfordview 2007
Johannesburg, South Africa

Friday, 19 February, 2016

TO WHOM IT MAY CONCERN

Dear Sirs,

RE: RECOGNITION OF PRODUCTS AND SERVICES


Since the latter part of last year we have been using Renewsys utility sized 60 cell PV modules for many of our domestic installations and for one of our larger commercial installations.

Our decision to use Renewsys modules, in addition to modules from major global suppliers, has been as a result of a number of positive reasons, as follows:

1. We conducted a technical review of the materials, components and processes used in the manufacture of the Renewsys modules. We have concluded that the Renewsys product appears to meet our company's requirements which are that products used in AdSolar installations meet or exceed standard market warranties. We have been using Renewsys panels for the last 6-8 months and so far are happy with their output.
2. AdSolar expects that the manufacturer that supplies a warranty will have the financial means to honour a warranty for the prescribed period. This is particularly important where performance warranties extend to 25 or even 30 years. With respect to Renewsys, we are satisfied, in as much as it is possible, that the warranties from Renewsys will be honoured. Even though AdSolar requested a parental guarantee of support for Renewsys, this was not forth-coming but a letter of intent was received and accepted in good faith.
3. The operational relationship between Renewsys and AdSolar, as forged by Mr Harsh Shah of Renewsys, has grown to be highly supportive and co-operative for AdSolar. Our experience with Renewsys has been positive and has encouraged us to maintain a position of relationship building and mutual support.

We would like to take this opportunity to thank you for the exceptional customer service received so far and to wish your company every success for the future. It is our hope that our businesses will continue to build on the mutually beneficial relationship that we believe has developed and we look forward to installing many more Renewsys PV modules.

Yours faithfully,



Carre Curgenven

AdSolar EPC (Pty) Limited
Postnet Suite 97, Private Bag 24, Klerk, 2640
Head Office: 77 Old Main Road, Botha's Hill, Outer West Durban, KZN
Email: info@adsolar.co.za Phone: +27 31 777 1851
Directors: D J C Curgenven, G Mollet, T Lohmeyer, N M Zondo
Registration Number: 2013/180960/07



Nordic (India) Solutions Pvt. Ltd.

To:

Mr. Prasanna Kuppaswamy
RenewSys India Pvt. Ltd
Plot No. 06, Survey # 114P,
Srinagar Village, Maheshwaram Mandal,
Rangareddy Dist. - 501359, Telangana, India.

June 8, 2017

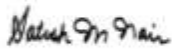
Dear Mr. Kuppaswamy:

Sub: Letter of Appreciation

We are procuring solar PV modules from RenewSys, Hyderabad from May 2016 for and we are fully satisfied with the performance of modules. The Renewsys team is highly responsive with quotes and quick to support our tight schedules with on time deliveries.

Best wishes RENEWYS!!

Regards,



Dr. Satish M. Nair
Managing Director

Survey No: 223/2A, Union Road, Irundamkattalai, Kovur (PD), Chennai 600128, Tel. 044 2900 4851,
<http://www.nordicindia.com>



Micro Computer Based Solutions
Reg. CK2007/186271/23

Letter of Recognition

Att: Harsh Shah
C/O: Renewsys South Africa (PTY) LTD
Tel:
Fax:
Email: harsh.shah@renewsysouthafrica.com

22/02/2016

Dear Sir,

Ref: 250W Solar Panels

We have ordered a substantial number of your 250W solar panels from your company, to be used in our projects which range from solar based water pumping, to alternative energy supply, to PV based solar water heating. A number of these projects are being used across the SADEC countries in Southern part of Africa. To date we have not had any issues with the panels, and have received words of praise from our customers, who are pleased with the quality and performance of your panels.

The praise from our customers, accompanied by the fast response and service we have received from your company, makes it our first choice when replenishing our stocks and advising our customers and making sales of the Renewsys solar panels.

Thanking you in advance

Yours faithfully,



Victor Das Neves
Managing Member

Survey No: 223/2A, Union Road, Irundamkattalai, Kovur (PD), Chennai 600128, Tel. 044 2900 4851,
<http://www.nordicindia.com>

RenewSys Bengaluru

The Bengaluru Factory



- **Located** on Bommasandra Jigani - Link Road, Bengaluru
- **Total area** of facility = 6 Acres, of which 10% area is a green belt
- **World - class** manufacturing facility
- **Latest** and state-of-the-art European technology

Environment - Friendly Measures



The Bengaluru facility is designed to reduce its overall carbon footprint by: **1640+ MT** per year

- ✓ ISO certified - 9001 : 2015
- ✓ Building Integrated System
- ✓ CNG used instead of electrical heating
- ✓ 145+ Trees planted
- ✓ Safety Calendar

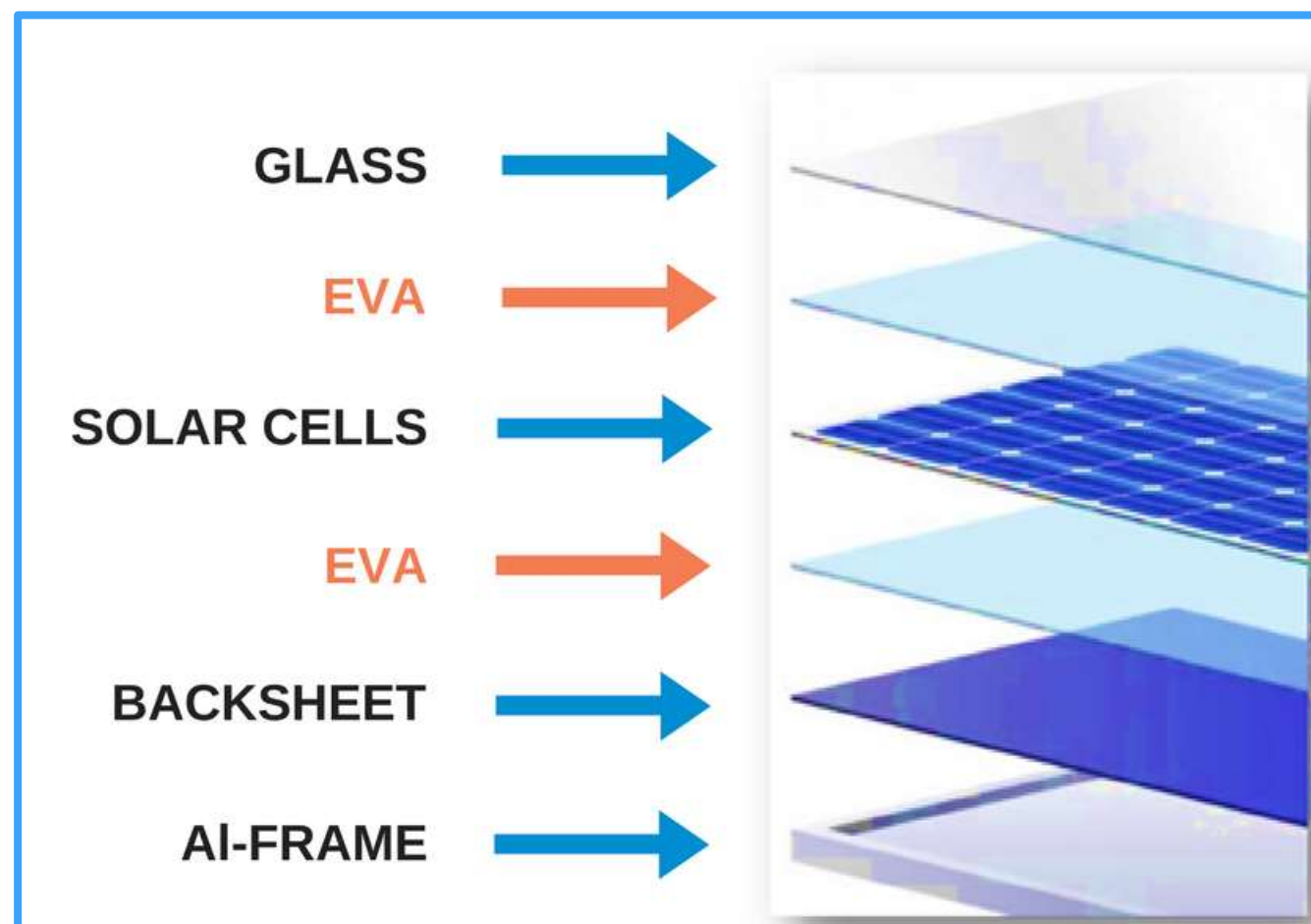
Production Capacity: CONSERV and PRESERV



- CONSERV® EVA and POE Encapsulants: 1.4 GW
- PRESERV® Backsheets and Bus Bar Insulation Sheet: 3 GW
- Fully automated European lines

CONSERV - EVA Encapsulant

CONSERV range of Ethylene Vinyl Acetate (EVA) Encapsulants protect PV cells and the integrity of the module



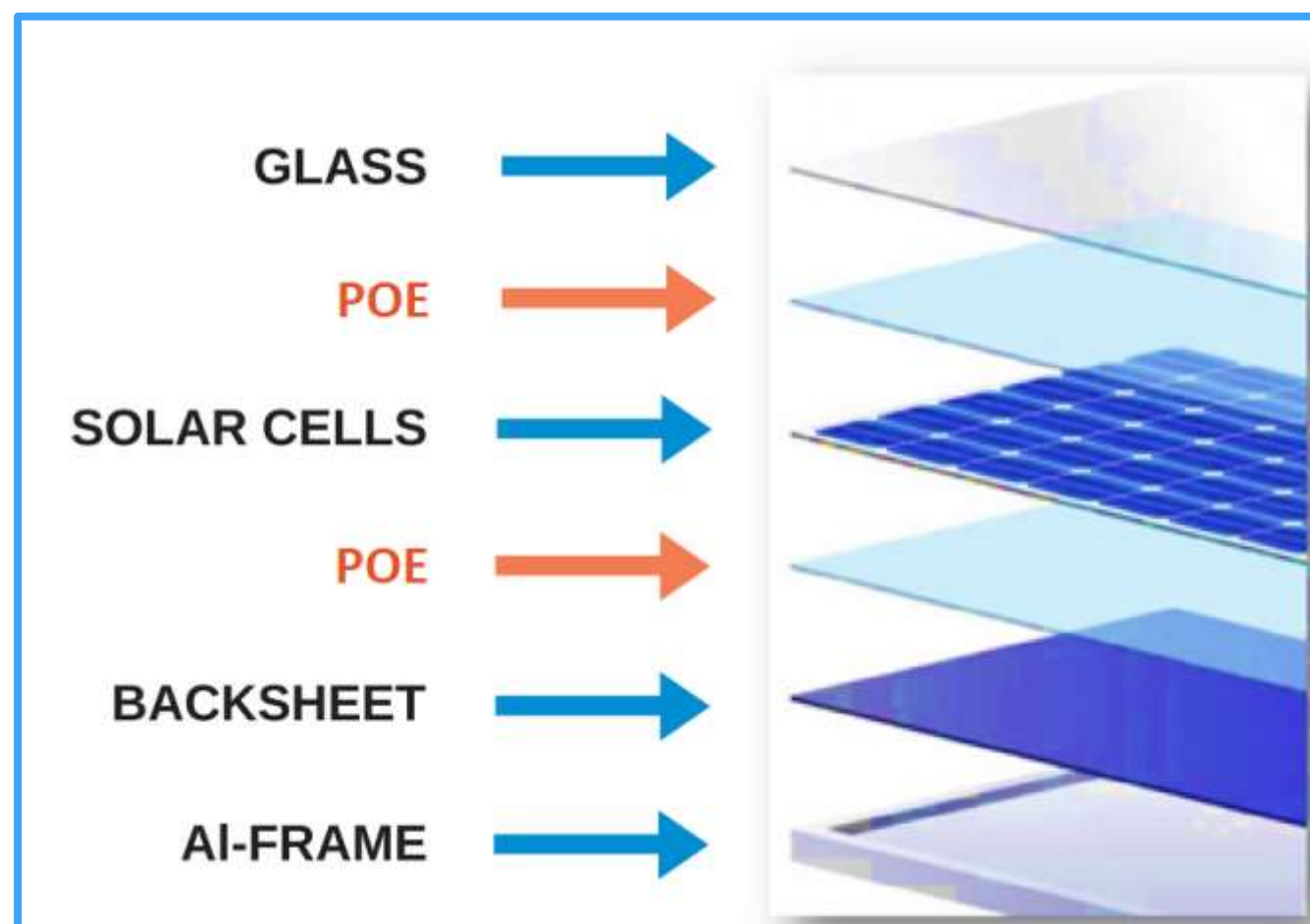
CONSERV EVA Encapsulant:

Encompasses a range of products in 'Fast Cure' and 'Ultra - fast Cure' versions:

- Potential Induced Degradation (PID) Resistant
- Ultra Violet (UV) Transparent

CONSERV - POE Encapsulant

CONSERV range of Polyolefin Elastomer (POE) Encapsulants protect PV cells and the integrity of the module



CONSERV POE Encapsulant :

Ideal for use in Glass-to-Glass PV modules, it is well suited to protect Glass-to-Backsheet PV modules also.

- India's only UL Certified POE
- Delivered advantages of TPO as well
- Resilient in harsh and extreme climatic conditions
- Unique formulation for virtually Zero PID

Assured Performance




The **CONSERV** product range is designed to ensure better module performance:

- **Superior bonding** to Backsheets and Glass
- **PID Resistance**
- **High** Luminous Transmittance
- Compatible with **Glass-to-Glass** and **Glass-to-Backsheet PV Modules**

Champion Products



POE - CONSERV E 360

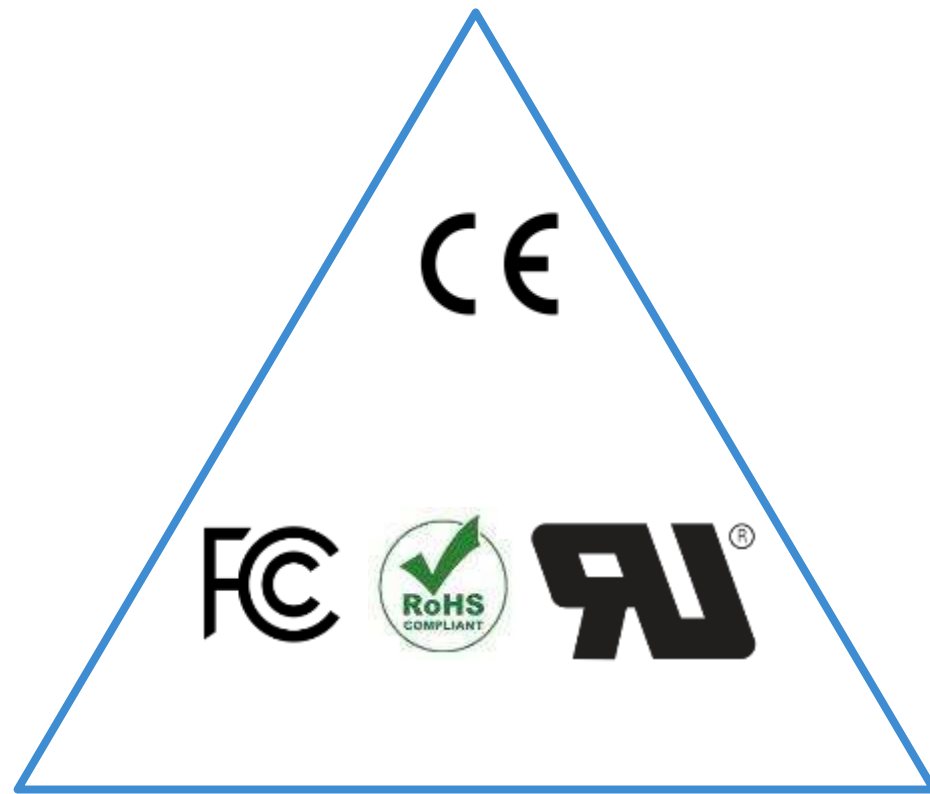


- India's only **UL Certified** POE
- **Resilient** in harsh and **extreme climatic conditions**
- Delivers **advantages of TPO** as well
- Unique formulation for **virtually zero PID**

inter
**solar
award**

**2018
Finalist**

Product Certifications

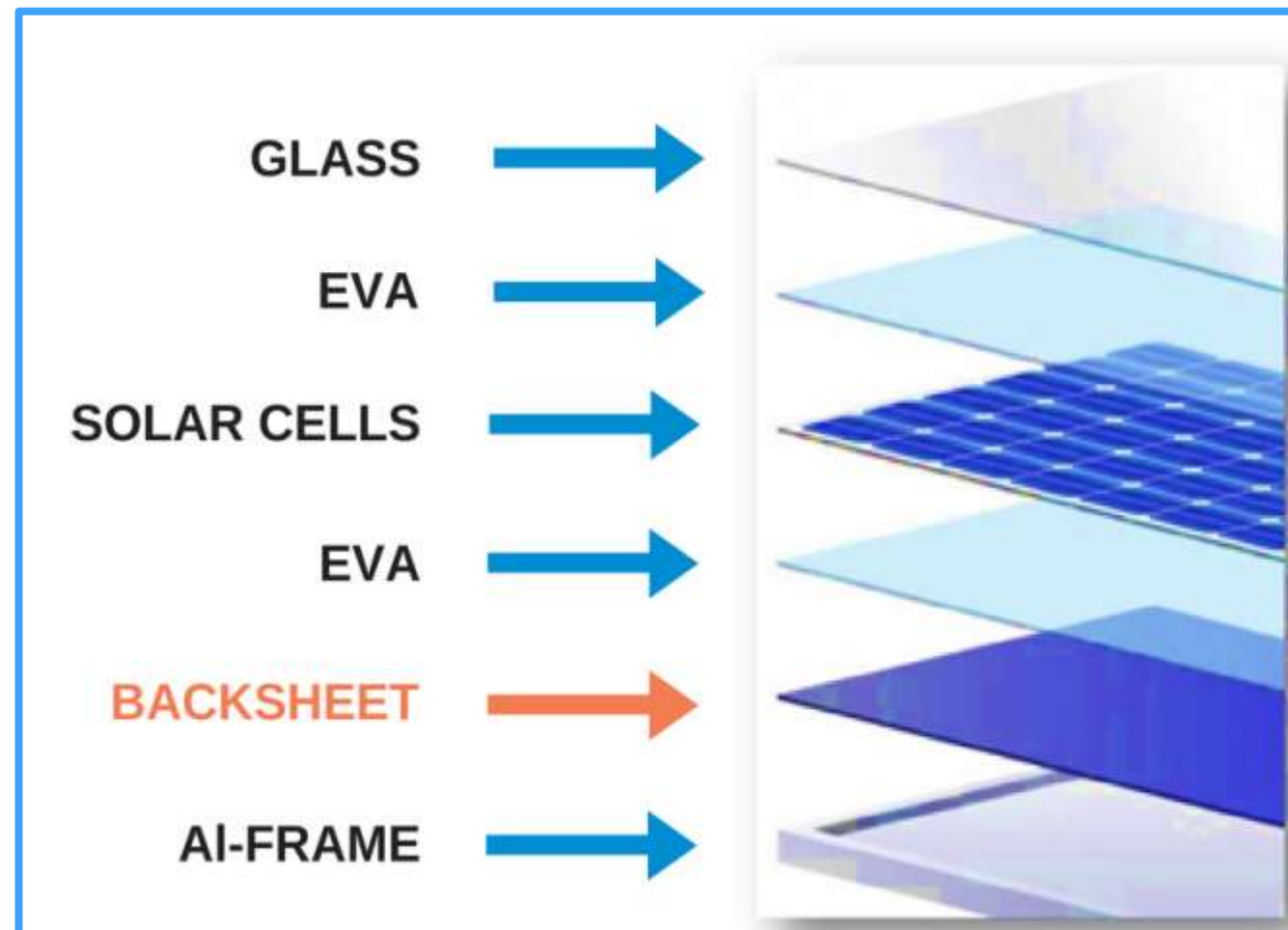


Certification Details:

- **FC:** UL (UL 94, UL 746A & UL746B)
- **IEC** 61215
- **RoHS**
- **DHT TUV Declaration**

PRESERV - Product Range

PRESERV Backsheets protect the module from moisture and dust, and are crucial for ensuring performance



PRESERV Backsheets:

- **PVF** Backsheets (Fluoro)
- **PVDF** Backsheets (Fluoro)
- **Metallic-based** Backsheets
- **PET-based** Backsheets

PRESERV - Product Range

PRESERV range of Bus - Bar Insulation Sheet ensures prevention of inter- connect breaking



PRESERV Bus Bar Insulation Sheets:

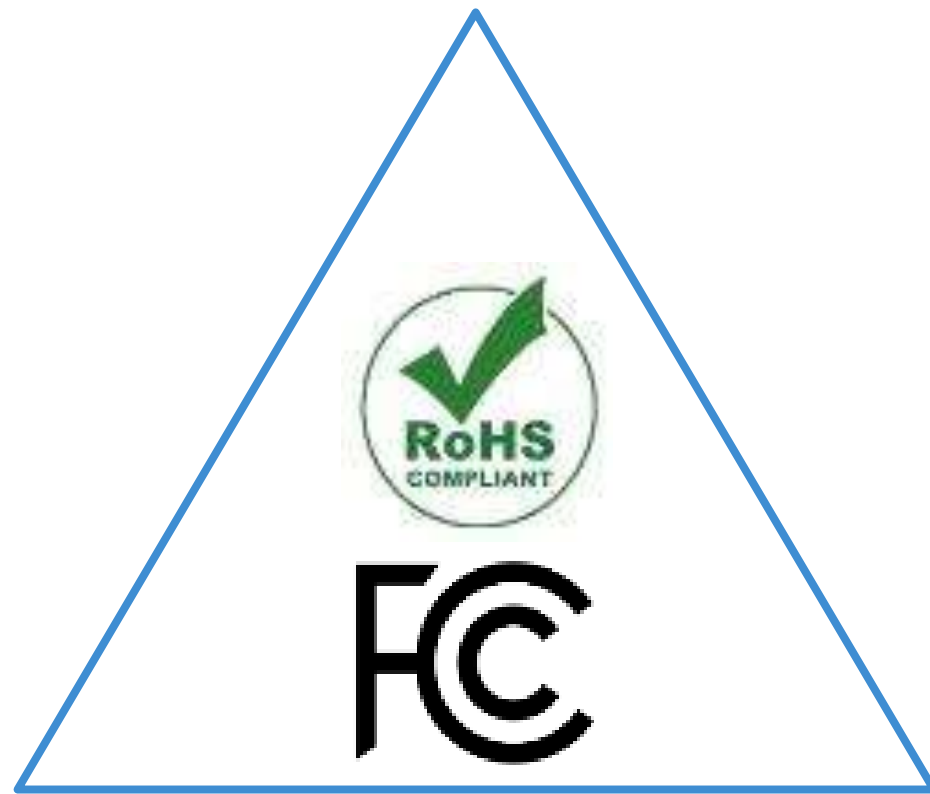
- PVF Backsheets (Fluoro)
- PVDF Backsheets (Fluoro)
- Metallic-based Backsheets
- PET-based Backsheets

Assured Performance



- **Laminated** with high dielectric properties
- **High** moisture barrier
- **High** partial discharge = 1500V DC: **available**
- **High mechanical properties** and Peel Bond retention post - DHT and HAST exposure

Product Certifications

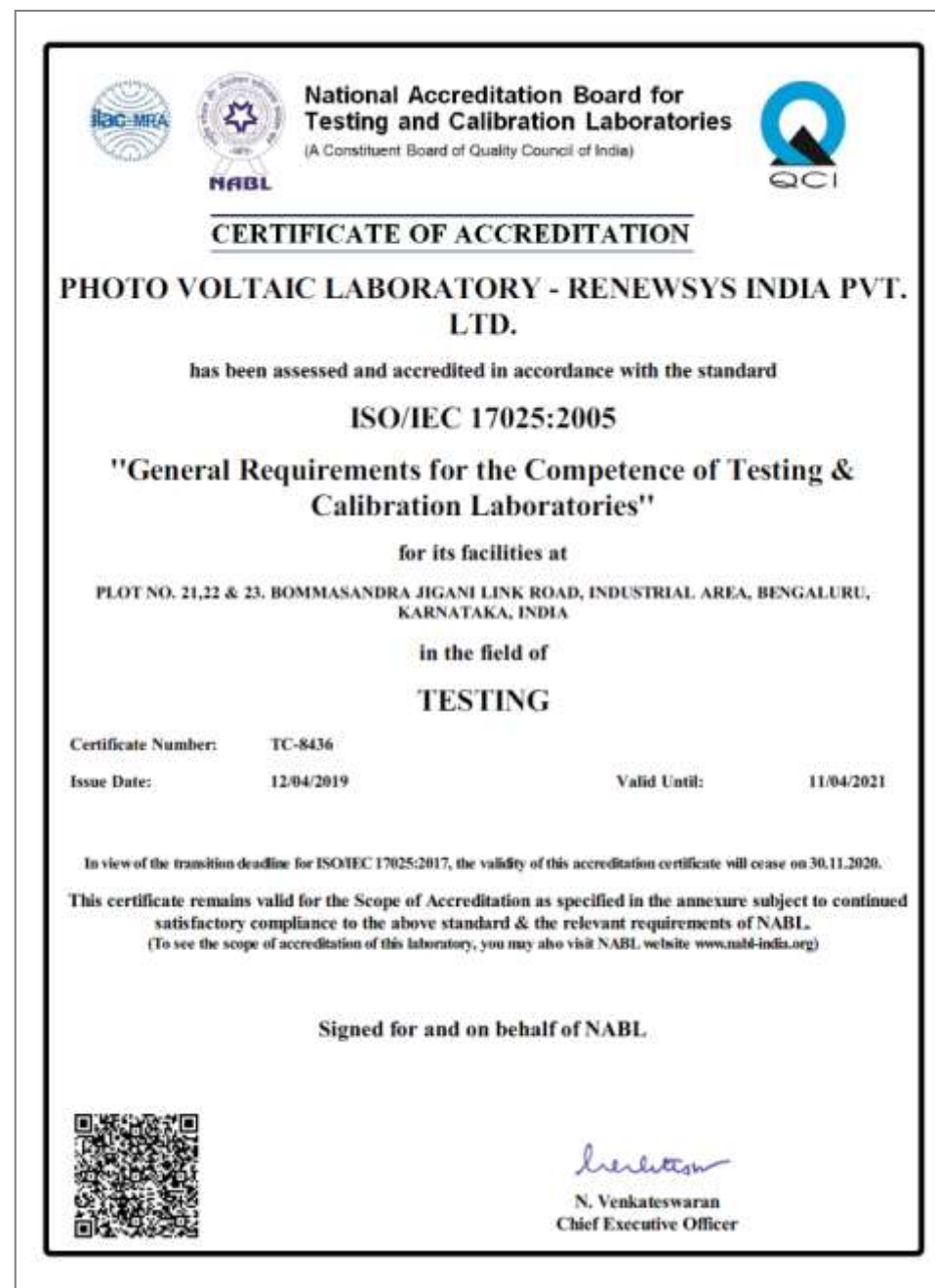


Certification Details:

- **FC:** UL (UL 94, UL 764 & UL 764B)
- **CTI** (Comparative Tracking Index)
- **RoHS**
- **Partial Discharge**
- **Flame Spread Index**

Photovoltaic Lab

India's 1st NABL accredited Solar PV Laboratory specifically for Encapsulants, Backsheets & their raw materials



Who should avail of this facility:



Solar
PV Module
Manufacturers



Solar Project Financiers,
Project Developers, EPC,
& System Integrators



Encapsulant
& Backsheet
Manufacturers

Know more...

Customers Testimonials



Date: 30/12/2015

To:
Mr. Shivkumar & Team

I deal with many vendors every day and I have to applaud RenewSys India Pvt. Ltd. for their wonderful Product & Service". We are buying EVA & Backsheet from last three years. We are extremely happy with RenewSys explicit quality product and its efficiency.

There has always been a quick response and a smooth work-flow right from the initial communication, the documentation on Purchase Order till the supplies.

It is my pleasure to work with your team and I am thankful for the support, information, laughs, and everything your team assists me with each time I contact them!

RenewSys Technical & Sales Team does a wonderful job communicating with me and whenever I call your office, Mr. Mohammad Asif Patel & Mr. Raja Iyer are always there to answer any questions.

Keep up the great work and I will continue to refer business acquaintances for RenewSys Products.

Thanking you...!!

For, Topsun Energy Ltd



Authorised Signatory

Topsun Energy Ltd.

Reg. Office: 5-101, GDC, Electronic Zone, Sector-25, Gandhinagar - 382 026, Gujarat, INDIA.
Phone / Fax: +91 79 2328880A, 23288800

Factory: H.S. No. 860, Nr. 66KV Sub Station, A/ & Post - Linch, Dist. Mehsana - 384435, Gujarat, INDIA.
Phone: +91 2762 282215, 282214
Email: info@topsunenergy.com • Website: www.topsunenergy.com

CHN NO.: U31900GJ3917P1-0561488






ALPEX EXPORTS PVT. LTD.
Bhatha / Khatoni No. 140 / 142, Khara No. 802 / 285
Village - Benson, Post - Nandrol, Tehsil - Nalgandh,
Dist - Solan, Pin - 174101 (H. P.) INDIA
Tel: +91 1795 265365 / 67, Fax: +91 1795 265368
Tel/Fax: 1800 11 2573
E-mail: info@alpexonline.com

Date 12-01-2016

To Whom It May Concern

This is to certify that CONSERV P 360-14 FC was used to make Solar PV modules for certification at M/S Alpex Exports Pvt Ltd and Solar PV modules were submitted to M/S TÜV Rheinland lab which were passed the following certification:-


1- IEC 61215 (Resistance to Potential Induced Degradation PID)

Signature 
Daljeet Kumar (Sr. Manager Operations)



International Trading | Solar PV Module Manufacture | Solar Products | Solar Electricity (RECOC) | Wind Energy

Regd. Office: 8-79, Shivoli, Backside, Near Mahiya Nagar, New Delhi - 110 017
Ph. No: +91 11 2634 7000, CHN U51907 DL 1993 PTC 171352
New Delhi | Jaipur | Lucknow | Ahmedabad | Kolkata | Patna | Trivandrum | Chennai | Hyderabad
www.alpexonline.com, www.alpexsolar.com



Solar PV Module • Solar Power Plant • Solar Street Light
• Solar Home Lighting System • Solar Water Pump
• Solar Lantern

To,
Mr. Shivkumar & team

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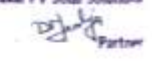
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RenewSys Technical & Sales Team does a wonderful job communicating with me and whenever I call your office, the team is always there to answer any questions.

Keep up the great work and I will continue to refer business acquaintances for RenewSys Products.

For, Divakar PV Solar Solutions



Mr. Biliyada Cross Road, N.H.8-B, Survey No.15/1-2, At-Shemla, Tal-Gondal- 360 311, Rajkot, Gujarat - INDIA
• Office: +91 97277 37121/20 • E-mail: info@divakarpvsolar.com • Web: www.divakarpvsolar.com

Dear Renewsys Team,

Thank you very much for your hospitality during our visit to your factory. We found your Production Line, QC and R&D very impressive.

Thanks & Best Regards
Navin Patni
+91 9819230203

Jyotitech Solar LLP
R-456, Rabale MIDC,
TTC Industrial Area,
Navi-Mumbai-400701
Maharashtra-INDIA



Haryana



Location: National Dairy Research Institute
Capacity: 1 MW

Maharashtra



Location: Shegoan, Maharashtra
Capacity: 800 KW

West Bengal



Location: Canal Top, West Bengal
Capacity: 10 MW

Germany



Location: 39615 Zehrental (OT Drösedo), Altmark
Capacity: 750 KW



South Africa



Location: Nelson Mandela University
Capacity: 1.1 MW

Switzerland



Location: Bachmann AG, 6153 Ufhusen
Capacity: 931 KW

Contact Us

Head Office:

RenewSys India Pvt. Ltd.

98, Jolly Maker Chambers No. 2,
225, Nariman Point, Mumbai - 400 021,
Maharashtra, India.

Tel.: +91-22-6810 0500

Email: renewsys@renewsysindia.com

GPS Coordinates: 180 55' 31.6272" N |
720 49' 19.5996" E

Sales Offices:

RenewSys India Pvt. Ltd.

Regus Wave, Level Ground,
M-4 South Extension Part-2,
New Delhi – 110049, India. Tel.: +91-11-6678 2819

Email: yugesh.kathuria@renewsysindia.com

GPS Coordinates: 28° 34' 04.2" N | 77° 13' 26.8" E

RenewSys Industries Nigeria Ltd.

122/132 Oshodi - Apapa Express Way,
Behind Afprint compound, Isolo, Lagos, Nigeria.

Tel.: +234-805-459 5612

Email: prasanna.kuppuswamy@renewsysnigeria.com

GPS Coordinates: 60 32' 6.4392 N | 30 20' 0.6828" E

Factory Contacts:

RenewSys India Pvt. Ltd.

Bengaluru Division:

Plot Nos. 21, 22, 23, Bommasandra - Jigani,
Link road industrial area, Taluk Anekal,
Bengaluru, Karnataka, India. Tel.: +91-80-3367 1400

Email: renewsys@renewsysindia.com

GPS Coordinates: 120 46' 34.7460" N |
770 39' 34.0056" E

RenewSys India Pvt. Ltd.

240, Capital Plaza,
Pachpedi Naka, Raipur- 492001,
Chhattisgarh, India. Tel.: +91-9691298829

Email: renewsys@renewsysindia.com

GPS Coordinates: 21° 12' 42.48" N | 81° 39' 55.12" E

RenewSys FZE

AB0907, Jafza One, Jebel Ali Free Zone,
Dubai, United Arab Emirates

Tel.: +971-56-167 8678

Email: vijay.narang@renewsysfze.com

GPS Coordinates: 24.9650° N | 55.0802° E

RenewSys India Pvt. Ltd.

Hyderabad Division:

Plot No. 06, Survey # 114/P, Srinagar village,
Maheshwaram Mandal, Rangareddy,
Dist. - 501359, Telangana, India. Tel.: +91-40-6730 3000

Email: renewsys@renewsysindia.com

GPS Coordinates : 170 11' 40.4376" N |
780 29' 47.9004" E

RenewSys South Africa (PTY.) Ltd.

Block C, No. A9, Brandford House, 12
Brandford Road, Johannesburg, Bedford
view 2007, South Africa.

Tel.: + 27-11-615 4107

Email: renewsys@renewsysouthafrica.com

GPS Coordinates: 260 11' 3.9732" S | 280 7' 13.134" E