

OSWAL
RENEWABLE ENERGY
Greener | Cleaner | Smarter
True Partner!

INDIA'S PREMIER SOLAR MANUFACTURER

India's Trusted 360° Solar Solutions Partner

Empowering a Cleaner, Smarter & Greener Tomorrow Through Advanced Robotic Automation and High-Efficiency Solar Module Manufacturing.

Who We Are

Powering India's Solar Future with Innovation, Scale & Trust.

Oswal Solar is a rapidly growing multi-gigawatt solar enterprise committed to delivering world-class solar manufacturing solutions and accelerating India's clean energy transition.

- **Established in 2023 | Built for Scale -** Rapidly evolving into a significant player in India's solar manufacturing landscape, aligned with the nation's vision of achieving 500 GW of non-fossil fuel-based energy capacity by 2030.

- **Strong Group Heritage -** Backed by the legacy and manufacturing excellence of Oswal Pumps Limited, a leading vertically integrated pump manufacturer with an annual manufacturing capacity of over 4 lakh pumps.

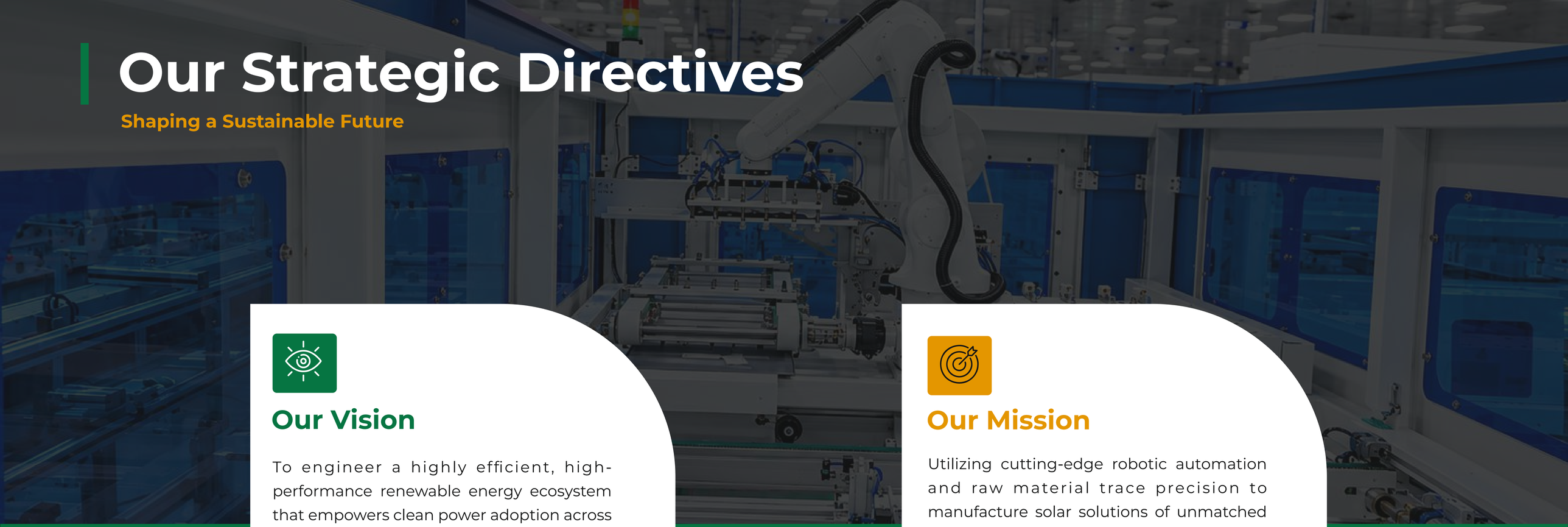
- **Advanced Manufacturing Excellence -** Equipped with automated, AI-driven robotic manufacturing technology, delivering high-efficiency solar modules with precision, consistency and reliability.

- **Certifications & Quality Assurance -** BIS certified and ALMM enlisted, with ISO 9001, ISO 14001 & ISO 45001 certifications, demonstrating our commitment to stringent quality standards and regulatory compliance.



Our Strategic Directives

Shaping a Sustainable Future



Our Vision

To engineer a highly efficient, high-performance renewable energy ecosystem that empowers clean power adoption across the country, securing a cleaner and greener environment for future generations.

Our Mission

Utilizing cutting-edge robotic automation and raw material trace precision to manufacture solar solutions of unmatched quality, performance, and transparency for our customers.

AI-driven robotics & advanced manufacturing

Precision Engineered. Intelligently Automated. Built for Excellence.

OSEPL operates a state-of-the-art, 1.8 GW solar module manufacturing facility in Karnal, Haryana, India, powered by advanced robotic technology and AI-driven automation.

Equipped with sophisticated automated bussing, tabbing and precision manufacturing systems, our facility is engineered to produce high-efficiency photovoltaic (PV) modules that deliver superior quality, performance and long-term reliability.

Supported by an experienced engineering team and fully automated, climate-controlled production lines, we ensure exceptional precision, consistent quality and operational excellence at every stage of the manufacturing process.

600 MW — **P-Type Mono PERC**

1.2 GW — **N-Type TOPCon**



AI-Quality Assurance Excellence at Every Step

Precision. Intelligence. Reliability.

Enhancing solar module quality, performance and compliance through intelligent automation and data-driven quality management.

Intelligent inspection & defect detection

- AI-powered EL and AOI image analysis for precise micro-crack detection.
- Automated visual inspection to identify cell defects, soldering irregularities and surface imperfections.
- Machine-vision-based verification of cell strings, module alignment and interconnections.
- Real-time defect classification, monitoring and complete production traceability.

Advanced analytics & performance optimization

- Predictive analytics to identify potential module degradation and failure trends.
- Correlation of manufacturing process parameters with actual module performance.
- AI-driven yield enhancement and continuous defect reduction.
- Intelligent optimization of cell interconnection, bussing and lamination processes.
- Data-driven decision-making to strengthen product quality and long-term reliability.

Delivering high-efficiency, durable and bankable solar modules through intelligent manufacturing and uncompromising quality assurance.



Advanced Reliability Testing Laboratory

Engineered for Excellence. Validated for Reliability. Built for Generations.

Oswal Solar operates an in-house reliability testing laboratory that validates products to applicable IEC and IS standards. Every test is designed to confirm the quality, structural integrity, electrical safety, and long-term performance of our modules under real-world environmental and operating conditions.

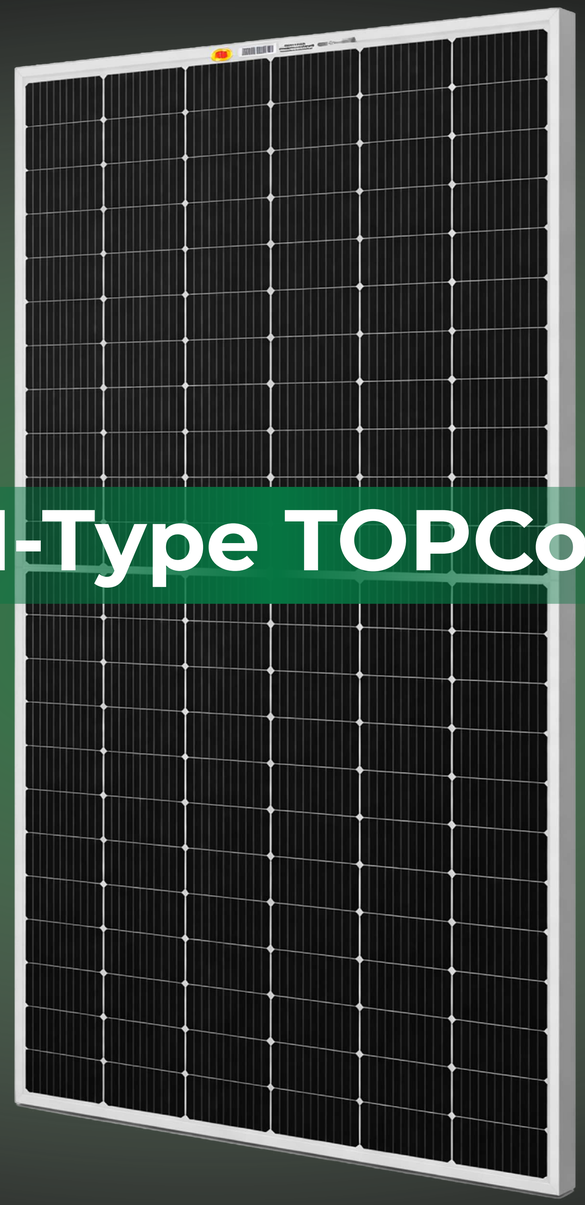
- In-house state-of-the-art reliability lab
- Testing aligned with IEC & IS standards
- Environmental & climatic testing
- Mechanical endurance and load testing
- Electrical performance validation
- End-to-end validation from component level to finished product
- Accelerated life testing (ALT) for long term durability
- Thermal cycling, humidity testing & UV
- Exposure Performance & Degradation Rate
- Evaluation tests Ingress protection (IP) testing Mechanical Testing:
- Load testing (Module & JB) Continuous quality monitoring system

Our Commitment "Tested Beyond Standards. Trusted Through Performance.



NEXT-GEN

OSWAL ZENITH SERIES



N-Type TOPCon

Next Generation Oswal Zenith TOPCon Series – G12R & M10R powering the future with advanced N-Type TOPCon technology, the Oswal Zenith Series is designed to deliver higher efficiency, superior energy yield, and long-term reliability for modern solar installations.Key Highlights

Advanced N-Type TOPCon Cells

- Higher Module Efficiency & Power Output
- Excellent Low-Light Performance
- Lower Degradation for Enhanced Lifetime Generation
- Superior Temperature Coefficient
- Reduced LCOE (Levelized Cost of Energy)
- Built for Residential, Commercial & Utility-Scale Projects

Our Unique Selling points

Advanced Facility

Equipped with state-of-art robotic production modules capable of extreme wind/snow load tolerance (up to 5400 Pa) and optimized string-lay precision.

Qualified Experts

Managed by highly motivated design, engineering and support teams executing projects meticulously from conceptualization to plant commissioning

Innovative R&D

Continuous investment in cutting-edge photovoltaic technologies such as G12R & M10R TOPCon cells, maximizing real-world energy generation and ROI.

Expansion & Milestones

2023

Establishment

Inception of OSEPL with a highly focused 200 MW pilot production line.

2024

Growth Surge

Augmented manufacturing facility capacity to 600 MW automatic lines.

2025

Consolidation

Augmented operational lines, introducing high-efficiency TOPCon G12R & M10R cell size.

2026

Gigawatt Scale

Commissioned multi-busbar lines, reaching 1.8 GW operational capacity.

2027

Future Outlook

Strategic setup of 1.2 GW cell production lines and BESS capacity enhancement to 2.5 GW.

Solar Power Benefit

Financial Protection

Produce your own power to hedge against rising utility tariffs. Most Indian families recover their initial investment within a few years, enjoying decades of near-zero cost electricity.

Reliable Independence

Coupled with smart storage solutions, modern homes enjoy seamless, uninterrupted electricity during grid failures. Ensures uninterrupted function of vital domestic appliances.

Low maintenance

Zero Hassle: Solar panels require virtually no upkeep. Built with premium components and a robust design, they effortlessly withstand heat, rain and severe storms to deliver reliable power for decades.

Future ready technology

Future-Proof: With rapid advancements in efficiency, storage and low-light performance, solar is the ultimate long-term investment. Ready your home for next-generation needs like EV charging, smart monitoring and automated energy management.

High-Performance Products Suite

G12R TOPCon Series

600Wp – 740Wp Range

State-of-the-art TOPCon G12 & G12R technology delivering up to 23.80% efficiency. Optimized extensively for utility-scale assets and high-demand commercial setups.

M10R TOPCon Series

500Wp – 600Wp Range

Captures reflected sunlight from the rear glass layer, enabling a massive 10–20% additional energy gain. Excellent for floating solar and ground arrays.

Mono-PERC Twin Series

505Wp – 560Wp Range

144 Half-cut cell design with Zero PID and LID. Advanced anti-micro cracking cell formulation engineered to withstand extreme climates and temperature swings.

Stringent Quality & Warranties

Engineered to deliver clean, maximum wattage with long-term industrial reliability:

- **Pre & Post Lamination EL Testing -** 3-stage visual & Electroluminescence checks for defect-free panels.
- **Outstanding Warranties -** 12 Years comprehensive Product & Workmanship Warranty and up to 30 Years linear power warranty for TOPCon
- **Minimized Degradation -** Less than 1% power loss in Year 1, with annual attenuation secured at <0.4%.



Technical Specifications

Module Series	Cell Technology	Power Output (Wp)	Max Efficiency (%)	Primary Applications
G12 TOPCon	N-Type Dual Glass (132 Cells)	700Wp – 740Wp	Up to 23.80%	C&I Rooftop / Utility-Scale
G12R TOPCon	N-Type Dual Glass (132 Cells)	600Wp – 640Wp	Up to 23.69%	C&I Rooftop / Utility-Scale
M10R TOPCon	N-Type Dual Glass (144 Cells)	600Wp – 610Wp	Up to 23.61%	Floating Solar / Ground Mounts
Mono PERC Half-Cut Cell Series	Mono PERC Half-Cut (144 Half-Cut)	505Wp – 560Wp	Up to 21.67%	Residential / Commercial Rooftops
B2B Complete Range	Full System (Inverters + Pumps)	Tailored Solutions	Custom Configuration	Franchise Distributors & EPC

Certifications & Standards

Globally Aligned Standards, Indian Manufacturing Excellence.

Oswal Solar modules are manufactured in accordance with applicable Indian and international quality, safety, and performance standards, ensuring superior reliability, consistent performance and long-term durability.



भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDARDS

Our Ref: Registration/R/4/01013935,R/4/0121172,R/4/0119437,R/4/0116899/ONG/003814 Date:12-Mar-2026

Subject: Change in Organization Name and Address

Licence NO.	R/4/01013935,R/4/0121172,R/4/0119437,R/4/0116899
Request Id	ONG/003814
Manufacturing Unit	OSWAL SOLAR ENERGY PRIVATE LIMITED
Address of Unit	OPP DD INTERNATIONAL PVT LTD, LINK ROAD, VILLAGE KUTAIL, KARNAL
E-Mail Id	raj.singh@oswalsolar.com
Telephone NO.	9729997156

Dear Sir/Madam,

This has reference to BIS licence(s) held by your company as given in the table below and further reference to your request regarding change in manufacturer name/manufacturing address unit.

On the basis of documents submitted by the firm, the following changes has been **made in scope is as follows:**

Organization Name Details Changed	
Old Details	
Organization Name	M/s Oswal Solar Structure Pvt Ltd.,
NEW Details	
Organization Name	OSWAL SOLAR ENERGY PRIVATE LIMITED

Change in Manufacturing Unit	
Old Details	
E-Mail	oswalsolarstructure@gmail.com
Address	OPP DD INTERNATIONAL PVT LTD, LINK ROAD, VILLAGE KUTAIL, KARNAL
Country	India
State	HARYANA
Zip	132037
Contact No.	9729997156
New Details	
E-Mail	raj.singh@oswalsolar.com
Address	OPP DD INTERNATIONAL PVT LTD, LINK ROAD, VILLAGE KUTAIL, KARNAL
Country	India
State	Haryana
Zip	132037
FAX	--
Contact No.	9729997156

Your Faithfully
Section Officer

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भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDARDS

Our Ref: REGISTRATION/CRS 2023-4578/R-91013935 Date:03-06-2026

Inclusion Id: 103559

Subject :Inclusion of Additional Model(s)

MANUFACTURING UNIT :
OSWAL SOLAR ENERGY PRIVATE LIMITED
OPP DD INTERNATIONAL PVT LTD, LINK ROAD, VILLAGE KUTAIL, KARNAL
Haryana,India-132037
raj.singh@oswalsolar.com
9729997156

Dear Sir,

1. This has reference to your request for inclusion of models of **"CRYSTALLINE SILICON TERRESTRIAL PHOTOVOLTAIC (PV) MODULES (Si wafer based)" as per IS 14286 (Part 1/Sec 1) : 2023/ IEC 61215-1-1: 2021,IS/IEC 61730-1: 2023,IS/IEC 61730-2:2023 in Licence No. R-91013935** already granted to you which is valid upto 25-09-2027.

2. It is intimated that the additional Models as per details given below have been agreed to be included in your scope of Licence. **R-91013935 w.e.f. 03-06-2026:**

Product Category	CRYSTALLINE SILICON TERRESTRIAL PHOTOVOLTAIC (PV) MODULES (Si wafer based)
Product Name	Crpalline Silicon Terrestrial Photovoltaic (PV) modules (Si wafer based)
IS No.	IS 14286 (Part 1/Sec 1) : 2023/ IEC 61215-1-1: 2021,IS/IEC 61730-1: 2023,IS/IEC 61730-2:2023
Brand (As Declared by Manufacturer)	OSWAL
Inclusion of Additional Models (w.e.f. 03-06-2026)	[Brand :: OSWAL, Models :: OSWAL415M108 108GG, OSWAL420M108 108GG, OSWAL425M108 108GG, OSWAL430M108 108GG, OSWAL435M108 108GG, OSWAL440M108 108GG, OSWAL445M108 108GG, OSWAL450M108 108GG, OSWAL455M108 108GG, OSWAL460M108 108GG, OSWAL465M108 108GG, OSWAL470M108 108GG, OSWAL475M108 108GG, OSWAL480M108 108GG, OSWAL485M108 108GG, OSWAL490M108 108GG, OSWAL495M108 108GG, OSWAL500M108 108GG, OSWAL505M108 108GG, OSWAL510M108 108GG, OSWAL515M108 108GG, OSWAL520M108 108GG, OSWAL525M108 108GG, OSWAL530M108 108GG, OSWAL535M108 108GG, OSWAL540M108 108GG, OSWAL545M108 108GG, OSWAL550M108 108GG, OSWAL555M108 108GG, OSWAL560M108 108GG, OSWAL565M108 108GG, OSWAL570M108 108GG, OSWAL575M108 108GG, OSWAL580M108 108GG, OSWAL585M108 108GG, OSWAL590M108 108GG, OSWAL595M108 108GG, OSWAL600M108 108GG]
Factory Address	OPP DD INTERNATIONAL PVT LTD, LINK ROAD, VILLAGE KUTAIL, KARNAL Haryana,India-132037

3. Other terms and conditions of the licence shall remain same.

4. This letter is being issued with the approval of competent authority.

Kindlyacknowledge receipt of this letter .

Thanking you,

Yours faithfully,
(Sumit Bhardwaj)
Scientist-E
Telfax : +91-11-23230856
E-mail: registration@bis.gov.in

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भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDARDS

Our Ref: REGISTRATION/CRS 2023-4578/R-91013935 Date:22-05-2026

Inclusion Id: 103560

Subject :Inclusion of Additional Model(s)

MANUFACTURING UNIT :
OSWAL SOLAR ENERGY PRIVATE LIMITED
OPP DD INTERNATIONAL PVT LTD, LINK ROAD, VILLAGE KUTAIL, KARNAL
Haryana,India-132037
raj.singh@oswalsolar.com
9729997156

Dear Sir,

1. This has reference to your request for inclusion of models of **"CRYSTALLINE SILICON TERRESTRIAL PHOTOVOLTAIC (PV) MODULES (Si wafer based)" as per IS 14286 (Part 1/Sec 1) : 2023/ IEC 61215-1-1: 2021,IS/IEC 61730-1: 2023,IS/IEC 61730-2:2023 in Licence No. R-91013935** already granted to you which is valid upto 25-09-2027.

2. It is intimated that the additional Models as per details given below have been agreed to be included in your scope of Licence. **R-91013935 w.e.f. 22-05-2026:**

Product Category	CRYSTALLINE SILICON TERRESTRIAL PHOTOVOLTAIC (PV) MODULES (Si wafer based)
Product Name	Crpalline Silicon Terrestrial Photovoltaic (PV) modules (Si wafer based)
IS No.	IS 14286 (Part 1/Sec 1) : 2023/ IEC 61215-1-1: 2021,IS/IEC 61730-1: 2023,IS/IEC 61730-2:2023
Brand (As Declared by Manufacturer)	OSWAL
Inclusion of Additional Models (w.e.f. 22-05-2026)	[Brand :: OSWAL, Models :: OSWAL490G12R108GG, OSWAL495G12R108GG, OSWAL500G12R108GG, OSWAL505G12R108GG, OSWAL510G12R108GG, OSWAL515G12R108GG, OSWAL520G12R108GG, OSWAL525G12R108GG, OSWAL530G12R108GG, OSWAL535G12R108GG, OSWAL540G12R108GG, OSWAL545G12R108GG, OSWAL550G12R108GG, OSWAL555G12R108GG, OSWAL560G12R108GG, OSWAL565G12R108GG, OSWAL570G12R108GG, OSWAL575G12R108GG, OSWAL580G12R108GG, OSWAL585G12R108GG, OSWAL590G12R108GG, OSWAL595G12R108GG, OSWAL600G12R108GG, OSWAL605G12R108GG, OSWAL610G12R108GG, OSWAL615G12R108GG, OSWAL620G12R108GG, OSWAL625G12R108GG, OSWAL630G12R108GG, OSWAL635G12R108GG, OSWAL640G12R108GG, OSWAL645G12R108GG, OSWAL650G12R108GG]
Factory Address	OPP DD INTERNATIONAL PVT LTD, LINK ROAD, VILLAGE KUTAIL, KARNAL Haryana,India-132037

3. Other terms and conditions of the licence shall remain same.

4. This letter is being issued with the approval of competent authority.

Kindlyacknowledge receipt of this letter .

Thanking you,

Yours faithfully,
(Talika Sharma)
Scientist-D
Telfax : +91-11-23230856
E-mail: registration@bis.gov.in

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भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDARDS

Our Ref: REGISTRATION/CRS 2023-4578/R-91013935 Date:22-05-2026

Inclusion Id: 103561

Subject :Inclusion of Additional Model(s)

MANUFACTURING UNIT :
OSWAL SOLAR ENERGY PRIVATE LIMITED
OPP DD INTERNATIONAL PVT LTD, LINK ROAD, VILLAGE KUTAIL, KARNAL
Haryana,India-132037
raj.singh@oswalsolar.com
9729997156

Dear Sir,

1. This has reference to your request for inclusion of models of **"CRYSTALLINE SILICON TERRESTRIAL PHOTOVOLTAIC (PV) MODULES (Si wafer based)" as per IS 14286 (Part 1/Sec 1) : 2023/ IEC 61215-1-1: 2021,IS/IEC 61730-1: 2023,IS/IEC 61730-2:2023 in Licence No. R-91013935** already granted to you which is valid upto 25-09-2027.

2. It is intimated that the additional Models as per details given below have been agreed to be included in your scope of Licence. **R-91013935 w.e.f. 22-05-2026:**

Product Category	CRYSTALLINE SILICON TERRESTRIAL PHOTOVOLTAIC (PV) MODULES (Si wafer based)
Product Name	Crpalline Silicon Terrestrial Photovoltaic (PV) modules (Si wafer based)
IS No.	IS 14286 (Part 1/Sec 1) : 2023/ IEC 61215-1-1: 2021,IS/IEC 61730-1: 2023,IS/IEC 61730-2:2023
Brand (As Declared by Manufacturer)	OSWAL
Inclusion of Additional Models (w.e.f. 22-05-2026)	[Brand :: OSWAL, Models :: OSWAL570G12108GG, OSWAL580G12108GG, OSWAL590G12108GG, OSWAL600G12108GG, OSWAL610G12108GG, OSWAL620G12108GG, OSWAL630G12108GG, OSWAL640G12108GG, OSWAL650G12108GG, OSWAL660G12108GG, OSWAL670G12108GG, OSWAL680G12108GG, OSWAL690G12108GG, OSWAL700G12108GG, OSWAL710G12108GG, OSWAL720G12108GG, OSWAL730G12108GG, OSWAL740G12108GG, OSWAL750G12108GG]
Factory Address	OPP DD INTERNATIONAL PVT LTD, LINK ROAD, VILLAGE KUTAIL, KARNAL Haryana,India-132037

3. Other terms and conditions of the licence shall remain same.

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Kindlyacknowledge receipt of this letter .

Thanking you,

Yours faithfully,
(Talika Sharma)
Scientist-D
Telfax : +91-11-23230856
E-mail: registration@bis.gov.in

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QRO
QUALITY RESEARCH ORGANIZATION

Certificate of Registration

This is to certify that

OSWAL SOLAR ENERGY PRIVATE LIMITED
OPPOSITE DD INTERNATIONAL PVT. LTD., LINK ROAD,
VILLAGE KUTAIL, KARNAL, HARYANA – 132037, INDIA.
has been independently assessed by QRO
and is compliant with the requirement of:

Integrated Management System

ISO 9001:2015 ISO 14001:2015 ISO 45001:2018

For the following scope of activities:

MANUFACTURE, ASSEMBLY, TESTING, STORAGE AND DISPATCH OF SOLAR PHOTOVOLTAIC (PV) MODULES, SOLAR PHOTOVOLTAIC (PV) CELLS AND INVERTERS, INCLUDING ASSOCIATED MANUFACTURING AND SUPPORT PROCESSES.

Date of Certification: 14th July 2026
1st Surveillance Audit Due: 13th July 2027
2nd Surveillance Audit Due: 13th July 2028
Certificate Expiry: 13th July 2029

Certificate Number: 3050260714550

Head of Certification

Validity of this certificate is subject to annual surveillance audits to be done successfully on or before 365 days from date of the audit. In case surveillance audit is not allowed to be conducted, this certificate shall be suspended / withdrawn.
The Validity of this certificate can be verified at www.qrocert.org
This certificate of registration remains the property of QRO Certification LLP, and shall be returned immediately upon request.

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142, IInd Floor, Arjur Enclave, Near Paschim Vihar West Metro Station, Delhi-110063, (INDIA)
Website : www.qrocert.org, E-mail : info@qrocert.org

PROJECTS INSTALLED

C&I and PM Surya Ghar Muft Bijli Yojana

Oswal helps homeowners go solar under PM Surya Ghar, with DCR modules, subsidy paperwork and net metering handled end to end



















TRUE SOLAR PARTNER

Let's Power India's Solar Journey Together

A proud partner in PM Modi's mission to install 500 GW of clean energy by 2030.We deliver unmatched durability, custom anodized aluminum profile design, and reliable supply chain logistics.

Corporate Office:

OSWAL SOLAR ENERGY PVT. LTD.

Opposite DD-International Pvt. Ltd, Link Road, Village Kutail, Karnal-132037, Haryana, India.

www.oswalsolar.com

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1800 120 1882

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