F. No. 283/59/2026-GRID SOLAR

भारत सरकार / Government of India

नवीन और नवीकरणीय ऊर्जा मंत्रालय/ Ministry of New & Renewable Energy (MNRE)

Atal Akshay Urja Bhawan,
Lodhi Road, New Delhi
Date: 25th November, 2026

OFFICE MEMORANDUM

Sub: Standardized nomenclature for Solar PV Cell Models under ALMM List-II.

1. The Approved List of Models and Manufacturers (ALMM) for Solar PV Cells (List-II) presently contains the model names of solar PV cells as furnished by individual manufacturers. In the absence of a prescribed standard nomenclature, manufacturers presently follow their own proprietary model naming conventions. Consequently, the model names vary considerably across manufacturers and do not provide a uniform basis for identification of the technical characteristics of the solar PV cells.

2. With a view to introducing uniformity in identification of solar PV cell models and improving traceability, the Ministry prepared a draft proposal for adoption of a standardized nomenclature comprising the Brand Name of the manufacturer followed by a 14-digit alphanumeric code for all solar PV cell models enlisted under ALMM List-II. The draft proposal was circulated to stakeholders vide O.M. of even number dated 03.08.2026 and 05.10.2026, inviting their comments/suggestions. The comments/suggestions received from the stakeholders were examined by the Ministry, and the proposed nomenclature has been suitably revised, taking into consideration the inputs received during the consultation process.

3. Accordingly, the standardized nomenclature for solar PV cell models enlisted under ALMM List-II, as finalized after stakeholder consultation, shall consist of the **Brand Name of the manufacturer**, followed by a space, followed by a **12-digit alphanumeric code**, structured as follows:

Position	Code	Description
Brand Name	Manufacturer-specific	**Brand Name:** Brand name of the manufacturer producing the solar PV cell model
1	D/F	**Polysilicon Origin** used for manufacture of ingot, **or Front Glass Origin** in the case of Thin Film technology: **D**: Domestic (Indian) **F**: Foreign
2	D/F	**Ingot Origin** used for manufacture of wafer, **or Ingot-equivalent Process Origin,** as applicable: **D**: Domestic (Indian) **F**: Foreign
3	D/F	**Wafer Origin** or **Wafer Equivalent Process Origin,** as applicable: **D**: Domestic (Indian) **F**: Foreign

Position	Code	Description
4	D/F	**Cell Origin**: **D**: Solar PV cell, or equivalent process, manufactured in India. A solar cell manufactured using a Blue Wafer (diffused silicon wafer) shall not be treated as a domestically manufactured cell. **F** – Solar PV cell manufactured outside India
5-6	MP/TC/HJ/BC/PS/TF etc.	**Cell Technology:** MP – Mono PERC TC – TOPCon HJ – HJT BC – Back Contact PS – Perovskite TF: Thin Film Appropriate codes for other emerging cell technologies may be incorporated, as required.
7-8	MA/ MB/ GA/ GB etc.	**Wafer Size:** MA – M10 MB – M10R GA – G12 GB – G12R, Additional codes may be incorporated based on technological developments and prevailing market requirements.
9-10	21/ 22/ 23/ 24/ 25/ 26 etc.	**Cell Efficiency:** The two-digit code shall indicate the range of solar cell efficiency, as specified below: • **20.50% ≤ Solar Cell Efficiency < 21.50% = 21** • **21.50% ≤ Solar Cell Efficiency < 22.50% = 22** • **22.50% ≤ Solar Cell Efficiency < 23.50% = 23** • **23.50% ≤ Solar Cell Efficiency < 24.50% = 24** • **24.50% ≤ Solar Cell Efficiency < 25.50% = 25** • **25.50% ≤ Solar Cell Efficiency < 26.50% = 26** • **And so on, in the same sequence for higher efficiency ranges.**
11-12	xx	Reserved

The above 12-character code shall be mandatory and shall be followed uniformly by all manufacturers. However, manufacturers may append additional alphanumeric characters beyond the prescribed 12 characters, if required, to capture any further product-specific details, provided that the first 12 characters strictly conform to the nomenclature specified above.

4. **Illustration:** By way of illustration only, the nomenclature may appear as under:

   i. **ABC FDDDTCGB25xx**

   which may be interpreted as:
   - ABC – Brand name of manufacturer producing the said model
   - F – Imported/Foreign polysilicon
   - D – Domestic ingot

- D – Domestic wafer
- D – Cell manufactured in India
- TC – TOPCon technology
- GB – G12R Wafer size
- 25 – Solar Cell efficiency of 25.49%
- xx – Reserved

ii. ABC FFFDMPMA24xx

may represent:

- ABC – Brand name of manufacturer producing the said model
- F – Imported/Foreign polysilicon
- F – Imported/Foreign ingot
- F – Imported/Foreign wafer
- D – Cell manufactured in India
- MP – Mono PERC technology
- MA – M10 wafer size
- 24 – Solar Cell efficiency of 23.85%
- xx – Reserved

5. All new applications for enlistment of solar PV cell models and manufacturers under ALMM List-II, submitted after the date of issuance of this O.M., shall mandatorily conform to the standardized nomenclature specified above. NISE shall ensure compliance with the prescribed nomenclature while scrutinizing such applications and undertaking inspections for enlistment under ALMM List-II.

6. In respect of applications for enlistment of solar PV cell models under ALMM List-II already submitted as on the date of issuance of this O.M., as well as solar PV cell models already enlisted under ALMM List-II, the nomenclature of the respective models shall be revised in accordance with the standardized nomenclature specified above within a period of three months from the date of issuance of this O.M. NISE shall take necessary action in this regard in coordination with the concerned manufacturers.

7. The standardized nomenclature is envisaged to serve as a unique identification framework for every solar PV cell model enlisted under ALMM List-II. Besides facilitating enlistment under ALMM List-II, it is expected to promote uniform identification and traceability of solar PV cells across the value chain and may serve as a common product identifier for regulatory, commercial and other related purposes. The cell origin (Domestic/Foreign) would also be brought out for distinction between ALMM List-I and ALMM List-I(a) solar modules, based on the Bill of Materials (BoM).

8. This issues with the approval of Secretary, MNRE.

20/11/26

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To: All concerned

Copy to: Director (Technical), NIC, MNRE, for uploading on MNRE's website.