

F. No. 318/87/2024-Grid Connected Rooftop-Part (1)

Government of India

**Ministry of New and Renewable Energy
(Rooftop Solar Division)**

Dated: 17th August 2026

**Atal Akshaya Urja Bhawan
Lodhi Road, New Delhi 110003**

OFFICE MEMORANDUM

Subject: Compliance of guidelines issued by MNRE regarding inverter level generation data and storage of inverter-level data of Rooftop Solar systems– reg.

Ministry of New and Renewable Energy (MNRE) is implementing the PM Surya Ghar: Muft Bijli Yojana (PMSG: MBY) targeting installation of Rooftop Solar (RTS) plants for one crore households across the country.

2. The generation data of the Rooftop Solar plants are important parameters for consumers to have an idea about performance of the plant. In addition, it is also useful for the DISCOMs to have an idea about overall energy generation being done by Rooftop Solar Plants under their area of operation. The generation data are also an important indicator of performance of PMSG: MBY for MNRE.

3. The data communication from RTS plants installed at large scale introduces significant integration and cybersecurity challenges. If Inverter communication modules transmit data to servers located outside India, it may cause cyber security risk by exposing generation data and unauthorized control of devices.

4. In this regard, the following provisions and instructions issued by MNRE are referred to for ready reference:

- i. The CFA Guidelines for PMSGY: MBY issued vide OM No. 318/17/2024-GCRT dated 07.06.2024, which under Clause 2.7(xiv) of Annexure-3 require inverter to have an inbuilt facility to communicate system related data through SIM/dongle, and under Clause 8(a)(ix) provide that RTS generation data (intermittent, real-time or near real-time) is to be provided to National Portal for tracking of RTS generation.
 - ii. An OM of even number dated 21.07.2025 on “Compliance requirements for inverters and communication devices used under PM Surya Ghar: Muft Bijli Yojana”, mandating the use of Machine-to-Machine (M2M) SIM communication protocol for all inverter communication devices/dongles/dataloggers deployed under the scheme; and
 - iii. Guidelines dated 24.12.2025 on “Inverter Communication Devices, Dongles, Dataloggers, and Remote Monitoring Systems (RMS) for Communication with the Centralised IoT SCADA Platform under PM Surya Ghar: Muft Bijli Yojana”, prescribing the vendor-neutral, secure and interoperable communication and security architecture for transmission of generation and other data parameters from RTS plants to the Centralised Platform.
5. In continuation to above and to safeguard data sovereignty and cyber-security, the undersigned is directed to convey the following:
- i. **Data residency within India: For inverters installed in Rooftop Solar systems under PMSG: MBY, it should be ensured by Inverter OEMs/manufacturers that any application, associated monitoring and control servers, and the real-time data of such systems, including any data or information hosted on cloud platforms, are stored in**

an encrypted, secure, and protected environment, and reside exclusively within India.

- ii. In addition to this, the inverter OEMs should ensure inclusion of data loggers warranty as part of their Inverter Warranty.
 - iii. **Written confirmation within 30 days:** All Inverter OEMs/manufacturers operating in the country for Rooftop Solar Installations shall confirm in writing to REC (with a copy to MNRE), within 30 (thirty) days from the date of issuance of this OM, their adherence to (a) the earlier guidelines regarding secure communication of generation data from Rooftop Solar plants (as mentioned in para 4 above), and (b) the requirement of keeping all inverter-level data parameters including generation data on servers/cloud located within the boundary of the country. The confirmation shall be furnished in the format at **Annexure-I**.
 - iv. **Consequence of non-compliance:** In the event an Inverter OEM / manufacturer fails to furnish the written confirmation within the stipulated period of 30 days, such Inverter OEM/manufacture shall not be allowed to install their systems on Rooftop Solar installations under the scheme.
 - v. **Intimation of Point of Contact:** All Inverter OEMs/manufacturers shall intimate to MNRE the details of an official Point of Contact (PoC) from their side, along with the written confirmation, in the format at **Annexure-I**.
 - vi. **Sharing of daily generation data with the National Portal:** All Inverter OEMs shall provide the generation data on a daily basis (i.e. cumulative energy generation data for a day), mapped against the Inverter Serial Number (or any other unique identity decided by Ministry), to the National Portal through API, for the installations done under PMSG: MBY. This arrangement shall continue till such time the central servers are developed at the State/DISCOM levels and all States/DISCOMs capture the generation data of Rooftop Solar plants from the consumers and provide the same to the National Portal. The API for fetching data shall be uniform for all Inverter Manufacturers and shall be limited to the minimum required parameters including daily generation data.
6. This issues with the approval of the Competent Authority.


(H C Borah)
Scientist-E

To,

- a. All Inverter Original Equipment Manufacturers (OEMs)/ Data Logger / Remote Monitoring System (RMS) manufacturers working for Rooftop Solar Installations
- b. All concerned stakeholders

Copy to:

- a. PPS to Secretary, MNRE
- b. Secretary M/o Power
- c. Chairman (CEA)
- d. JS (Distribution), MoP/JS PMSG:MBY), MNRE
- e. CMD, REC Limited, the NPIA for PMSG: MBY, for information and appropriate action
- f. All officers of PMSG: MBY, MNRE
- g. NIC Cell (MNRE)/CISO/Dy CISO(MNRE)

FORMAT FOR WRITTEN CONFIRMATION CUM INTIMATION OF POINT OF CONTACT

(To be furnished on the official letterhead of the Inverter OEM / Manufacturer within 30 days of issuance of the OM)

To,

ED (PMSG: MBY),

REC.

Subject: Written confirmation regarding storage of inverter-level data including generation data within India and intimation of Point of Contact under PM Surya Ghar: Muft Bijli Yojana – reg.

With reference to MNRE Office Memorandum F. No. 318/87/2024-Grid Connected Rooftop-Part (1) dated 17th August 2026, we, M/s _____ [name of the Inverter OEM / Manufacturer], hereby confirm and undertake as under:

A. Declaration of Compliance

- i. We confirm our adherence to the CFA Guidelines dated 07.06.2024 (including Clause 2.7(xiv) of Annexure-3 and Clause 8(a)(ix)) and to the guidelines issued by MNRE regarding secure communication of generation data from Rooftop Solar plants installed under PMSG: MBY, including the use of M2M SIM-based communication (OM dated 21.07.2025) and the Guidelines on RMS for communication of generation data (dated 24.12.2025).
- ii. We confirm that *any application, associated monitoring and control servers, and the real-time data of such systems, including any data or information hosted on cloud platforms, are stored in an encrypted, secure, and protected environment, and reside exclusively within India.*
- iii. We confirm that we shall share the daily generation data (cumulative energy generation for a day), mapped against the Inverter Serial Number (or any other parameter decided by MNRE), with the National Portal through the uniform API provided by the National Portal developer, for installations done under PMSG: MBY.
- iv. We undertake to continue to comply with the above requirements and any further instructions issued by MNRE in this regard.
- v. We confirm that, in addition to the above, data loggers shall be included as part of the Inverter Warranty offered by us.

B. Details of the Manufacturer

1.	Name of the Company/ Manufacturer, Brand and BIS registration number	
2.	Category (Inverter OEM / Manufacturer)	
3.	Registered Office Address	
4.	GSTIN / CIN	
5.	Make(s) / Model(s) of Inverter and Datalogger supplied under PMSG: MBY	
6.	Location(s) of Server(s)/Cloud where data resides (Data Centre name & city, within India)	

C. Details of Official Point of Contact (PoC)

1.	Name of the Point of Contact	
2.	Designation	
3.	Mobile Number	
4.	Email ID (official)	
5.	Alternate Contact (Name & Number)	

We certify that the information furnished above is true and correct to the best of our knowledge and belief. We understand that in the event of failure to furnish this confirmation within 30 days from the date of issuance of the said Office Memorandum, or in the event of any false declaration, we shall not be allowed to install our systems on Rooftop Solar installations under PMSG: MBY.

Signature: _____

Name: _____

Designation (Authorized Signatory): _____

Name of the Company: _____

Company Seal:

Place: _____ Date: _____

Copy to

- a. Mission Director (PMSG: MBY), MNRE
- b. JS (S&QC Div), MNRE