	<p style="text-align: center;">Office of the Executive Director (Dist-III/Infra) Maharashtra State Electricity Dist. Co. Ltd. "Prakashgad", 5th Floor, Station Road, Bandra (E), Mumbai -400 051. Email: edinfra@mahadiscom.in</p>	<p style="text-align: center;">MAHAVITARAN Maharashtra State Electricity Distribution Co. Ltd. CIN U40109MH2005SGC153645 (A Govt. of Maharashtra Undertaking)</p>
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Ref. No. : ED (Infra)/RTS/No. 34837

Date: 07.11.24

To,
The Superintending Engineer
All O & M Circles, MSEDCL.

**Sub: - Implementing "Faceless and Paperless process" to accelerate progress of
RTS installations under PMSG: MBY.**

Ref: - 1. ED (Infra)/RTS/No.33498, Dt. 22.10.2024.
2. CE/SPD/RTS/22336, Dt. 22.07.2024.
3. ED (Infra)/RTS/No.33592, Dt. 23.10.2024.
4. ED (Infra)/RTS/No.33590, Dt. 23.10.2024.

In connection to above cited subject and letter as under reference-1, the RTS Portal for Vendor & Employee deployed since 22nd Oct 24 to accelerate progress of RTS installations under PM Surya Ghar: Muft bijli Yojana. The guidelines for operating process and role of Employee and Vendor, allotted timeline to install solar net meter for AMISP through RTS portal issued vide letter as under reference-1.

In spite of above measures and Go Live of above portal, the daily progress of RTS installation under PMSG: MBY are not upto mark, so as to achieve state target, which is matter of concern. Accordingly review taken from Field Officers and Vendors for poor progress and following guidelines issued to expedite progress.

Documents to be uploaded:

- At present, there are 16 nos documents to be uploaded by Vendor against RTS plant installation at Consumer premises. These documents will be further reduced to 6 nos in next amendment within 3-4 days. The list of prescribed documents enclosed herewith. Except these documents, the field officer shall not ask for any additional document for RTS commissioning.

- The Proforma-A, Commissioning Report and Net Agreement Bond will be signed by Vendor and Consumer and then uploaded to portal. The signature of MSEDCL field officer not necessary on above document while uploading.
- The documents in original will be collected by MSEDCL field officer from Vendor/Consumer only at the time of commissioning of RTS installation.

Provision of Solar Net Meter by MSEDCL:

- The solar net meter will be provided by MSEDCL through AMISP as per guidelines issued vide letter as under reference-2.
- The same has been incorporated in RTS Portal where after approval to documents uploaded by Vendor, the copy of system generated release order forwarded to AMISP and AMISP will install the solar net meter in co-ordination with MSEDCL field officer within time limit as mention in letter as under reference-1.
- The release order will contain contact details of Consumer, Vendor & AMISP.
- Although solar net meters provided by MSEDCL, the consumer can opt to install own net meter as specified by MSEDCL, till further instructions.
- Hence it is instructed all field officer not to hold commissioning of RTS plant for provision of solar net meter by AMISP where consumer purchase net meter is available, till further instructions.

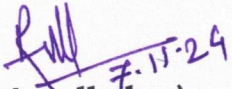
Testing of Generation meters:

- The guidelines for bulk testing of generation meter already given vide letter as under reference-4.
- Even though, it is observed that generation meter testing also taking time more than 10-15 days and thereby creating hurdles in achieving daily targeted progress.
- In order to simplify the process further, it is instructed to test meter with Accucheck directly on site at the time of release of grid connectivity of RTS plant with necessary meter sealing and connection sealing arrangement.
- The updation of Generation meter shall be fed to billing system accordingly by MSEDCL officer and record should be kept at respective section offices along with seal details, meter details etc.

- The sealing arrangement (separate generation meter seal procurement) and the arrangement for Accucheck meter testing kit should be done by respective **Zone** or **Circle** office on top priority.

The RTS installations where inspection completed by AE (QC) and release order already issued by SDO before deployment of RTS Vendor & Employee portal i.e. before dt. 22.10.24 but not completed meter assignment approved stage NC module, all such cases to be refer to Central IT through local IT for processing directly through NC Module.

The above guidelines should be followed scrupulously and to be forwarded up to section officers for effective implementation to achieve desired target.


(D. R. Aundhekar)
Executive Director-III (Infra)
Corporate Office, Mumbai

Copy s.w.r. to:

The Director (Projects), MSEDCL, Mumbai

Copy to:

1. The Chief Engineer, O&M Zone, All Zones.
2. The Chief General Manager, IT, MSEDCL, Mumbai.

Documentation for Roof Top Solar

1. WCR, Islanding, Guarantee Certificate & Aadhar card

 of Consumer
2. Annexure – I & Proforma –A
3. Declaration for DCR
4. Net Agreement Bond
5. Brochure/Datasheet of PV Modules and Inverter
6. Photographs of installed PV system

Work Completion Report for Solar Power Plant

Sr.No	Component	Observation
1	Name	
2	Consumer number	
3	Site/Location With Complete Address	
4	Category: Govt/Private Sector	
5	Sanction number	
6	Sanctioned Capacity of solar PV system (KW) Installed	
	Capacity of solar PV system (KW)	
7	Specification of the Modules	
	Make of Module	
	ALMM Model Number	
	Wattage per module	
	No. of Module	
	Total Capacity (KWP)	
	Warrantee Details (Product + Performance)	
8	PCU	
	Make & Model number of Inverter	
	Rating	
	Type of charge controller/ MPPT	
	Capacity of Inverter	
	HPD	
	Year of manufacturing	
9	Earthing and Protections	
	No of Separate Earthings with earth Resistance	
	It is certified that the Earth Resistance measure in presence of Licensed Electrical Contractor/Supervisor and found in order i.e. < 5 Ohms as per MNRE OM Dtd. 07.06.24 for CFA Component.	
	Lightening Arrester	

We[Vendor]&.....[Consumer] bearing Consumer Number..... Ensured structural stability of installed solar power plant and obtained requisite permissions from the concerned authority. If in future, by virtue of any means due to collapsing or damage to installed solar power plant, MSEDCL will not be held responsible for any loss to property or human life, if any.

This is to Certified above Installed Solar PV System is working properly with electrical safety & Islanding switch in case of any presence of backup inverter an arrangement should be made in such way the backup inverter supply should never be synchronized with solar inverter to avoid any electrical accident due to back feeding. We will be held responsible for non-working of islanding mechanism and back feed to the de-energized grid.

Signature [Vendor]

Signature [Consumer]

Guarantee Certificate Undertaking to be submitted by VENDOR

The undersigned will provide the services to the consumers for repairs/maintenance of the RTS plant free of cost for 5 years of the comprehensive Maintenance Contract (CMC) period from the date of commissioning of the plant. Non performing/under-performing system component will be replaced/repared free of cost in the CMC period

Signature [Vendor]

Stamp & Seal

Identity Details of Consumer: -

Aadhar Number:

Upload Xerox of AADHAR CARD HERE
SHOULD BE SELF ATTESTED BY CONSUMER

Renewable Energy Generating System

Annexure-I

(Commissioning Report for RE System)

SNo.	Particulars	As Commissioned
1	Name of the Consumer	
2	Consumer Number	
3	Mobile Number	
4	E-mail	
5	Address of Installation	
6	RE Arrangement Type	Net Metering Arrangement
7	RE Source	
8	Sanctioned Capacity(KW)	
9	Capacity Type	
10	Project Model	
11	RE installed Capacity(Rooftop)(KW)	
12	RE installed Capacity(Rooftop + Ground)(KW)	
13	RE installed Capacity(Ground)(KW)	
14	Installation date	
15	SolarPV Details	
	Inverter Capacity(KW)	
	Inverter Make	
	No .of PV Modules	
	Module Capacity (KW)	

Proforma-A

COMMISSIONING REPORT (PROVISIONAL) FOR GRID CONNECTED SOLAR PHOTOVOLTAIC POWER PLANT (with Net-metering facility)

Certified that a Grid Connected SPV Power Plant of..... KWp capacity has been installed at the site

District of MAHARASHTRA which has been installed by M/S..... on
..... The system is as per BIS/MNRE specifications. The system has been checked for its
performance and found in order for further commissioning.

Signature of the beneficiary

Signature of the agency with name, seal and date

The above RTS installation has been inspected by me for Pre-Commissioning Testing of Roof Top Solar Connection on dt..... as per guidelines issued by the office of The Chief Engineer vide letter no 21653 on dt. 18.08.2022 and found in order for commissioning.

Signature of the MSEDCL Officer

Name,

Designation

Date and seal

Undertaking/Self- Declaration for Domestic Content Requirement fulfillment

(On a plain Paper)

1. This is to certify that M/S.....[Company Name] has installedKW [Capacity] Grid Connected Rooftop Solar Plant for..... [Consumer Name] at [Address] under application number..... dated.....[date of application] under[DISCOM Name].

2. It is hereby undertaken that the PV modules installed for the above-mentioned project are domestically manufactured using domestic manufactured solar cells. The details of installed PV Modules are follows:

1. PV Module Capacity:
2. Number of PV Modules:
3. Sr No of PV Module
4. PV Module Make:
5. Cell manufacturer's name
6. Cell GST invoice No

3. The above undertaking is based on the certificate issued by PV Module manufacturer/supplier while supplying the above mentioned order.

4. I,on behalf of M/S.....[Company Name] further declare that the information given above is true and correct and nothing has been concealed therein. If anything is found incorrect at any stage, then REC/ MNRE may take any appropriate action against my company for wrong declaration. Supporting documents and proof of the above information will be provided as and when requested by MNRE.

(Signature With official Seal)

For M/S.....
Name:.....
Designation:.....
Phone:.....
Email:.....

Net Metering Connection Agreement

This Agreement is made and entered into at Solapur on this ____ day of __/__/____ between the Eligible Consumer _____(NAME) having premises at _____(ADDRESS) and Consumer No. _____ As the first Party,

AND

The Distribution Licensee- Maharashtra State Electricity Distribution Co. Ltd; and having its Registered Office at -----as second Party of this Agreement;

Whereas, the Eligible Consumer has applied to the Licensee for approval of a Net Metering Arrangement under the provisions of the Maharashtra Electricity Regulatory Commission (Net Metering for Roof-top Solar Photo Voltaic Systems) Regulations, 2015 ('the Net Metering Regulations') and sought its connectivity to the Licensee's Distribution Network ;

And whereas, the Licensee has agreed to provide Network connectivity to the Eligible Consumer for injection of electricity generated from its Roof-top Solar PV System of ____ kilowatt;

Both Parties hereby agree as follows:-

1. Eligibility:

The Roof-top Solar PV System meets the applicable norms for being integrated into the Distribution Network, and that the Eligible Consumer shall maintain the System accordingly for the duration of this Agreement.

2. Technical and Inter-connection Requirements:

The metering arrangement and the inter-connection of the Roof-top Solar PV System with the Network of the Licensee shall be as per the provisions of the Net Metering Regulations and the technical standards and norms specified by the Central Electricity Authority for connectivity of distributed generation resources and for the installation and operation of meters.

The Eligible Consumer agrees, that he shall install, prior to connection of the Roof-top Solar PV System to the Network of the Licensee, an isolation device (both automatic and in built within inverter and external manual relays); and the

Licensee shall have access to it if required for the repair and maintenance of the Distribution Network.

The Licensee shall specify the interface/inter-connection point and metering point.

The Eligible Consumer shall furnish all relevant data, such as voltage, frequency, circuit breaker, isolator position in his System, as and when required by the Licensee.

3. Safety:

The equipment connected to the Licensee's Distribution System shall be compliant with relevant International (IEEE/IEC) or Indian Standards (BIS), as the case may be, and the installation of electrical equipment shall comply with the requirements specified by the Central Electricity Authority regarding safety and electricity supply.

The design, installation, maintenance and operation of the Roof-top Solar PV System shall be undertaken in a manner conducive to the safety of the Roof-top Solar PV System as well as the Licensee's Network.

If, at any time, the Licensee determines that the Eligible Consumer's Roof-top Solar PV System is causing or may cause damage to and/or results in the Licensee's other consumers or its assets, the Eligible Consumer shall disconnect the Roof-top Solar PV System from the distribution Network upon direction from the Licensee, and Shall undertake corrective measures at his own expense prior to re-connection.

The Licensee shall not be responsible for any accident resulting in injury to human beings or animals or damage to property that may occur due to back-feeding from the Roof-top Solar PV System when the grid supply is off. The Licensee may disconnect the installation at any time in the event of such exigencies to prevent such accident.

4. Other Clearances and Approvals:

The Eligible Consumer shall obtain any statutory approvals and clearances that maybe required, such as from the Electrical Inspector or the municipal or other authorities, before connecting the Roof-top Solar PV System to the distribution Network.

5. Period of Agreement, and Termination:

This Agreement shall be for a period for 20 years, but may be terminated prematurely

- (a) By mutual consent; or
- (b) By the Eligible Consumer, by giving 30 days' notice to the Licensee ;
- (c) By the Licensee, by giving 30 days' notice, if the Eligible Consumer breaches any terms of this Agreement or the provisions of the Net Metering Regulations and does not remedy such breach within 30 days, or such other reasonable period as may be provided, of receiving notice of such breach, or for any other valid reason communicated by the Licensee in writing.

6. Access and Disconnection:

The Eligible Consumer shall provide access to the Licensee to the metering equipment and disconnecting devices of Roof-top Solar PV System, both automatic and manual, by the Eligible Consumer.

If, in an emergent or outage situation, the Licensee cannot access the disconnecting devices of the Roof-top Solar PV System, both automatic and manual, it may disconnect power supply to the premises.

6.3 Upon termination of this Agreement under Clause 5, the Eligible Consumer shall disconnect the Roof-top Solar PV System forthwith from the Network of the Licensee.

7. Liabilities:

The Parties shall indemnify each other for damages or adverse effects of either Party's negligence or misconduct during the installation of the Roof-top Solar PV System, connectivity with the distribution Network and operation of the System.

The Parties shall not be liable to each other for any loss of profits or revenues, business interruption losses, loss of contract or goodwill, or for indirect, consequential, incidental or special damages including, but not limited to, punitive or exemplary damages, whether any of these liabilities, losses or damages arise in contract, or otherwise.

8. Commercial Settlement:

The commercial settlements under this Agreement shall be in accordance with the Net Metering Regulations.

The Licensee shall not be liable to compensate the Eligible Consumer if his Rooftop Solar PV System is unable to inject surplus power generated into the Licensee's Network on account of failure of power supply in the grid/Network.

The existing metering System, if not in accordance with the Net Metering Regulations, shall be replaced by a bi-directional meter (whole current/CT operated) or a pair of meters (as per the definition of 'Net Meter' in the Regulations),

and a separate generation meter may be provided to measure Solar power generation. The bi-directional meter (whole current/CT operated) or pair of meters shall be installed at the inter-connection point to the Licensee's Network for recording export and import of energy.

The uni-directional and bi-directional or pair of meters shall be fixed in separate meter boxes in the same proximity.

The Licensee shall issue monthly electricity bill for the net metered energy on the scheduled date of meter reading. If the exported energy exceeds the imported energy, the Licensee shall show the net energy exported as credited Units of electricity as specified in the Net Metering Regulations, 2015. If the exported energy is less than the imported energy, the Eligible Consumer shall pay the Distribution Licensee for the net energy imported at the prevailing tariff approved by the Commission for the consumer category to which he belongs.

9. Connection Costs:

The Eligible Consumer shall bear all costs related to the setting up of the Roof-top Solar PV System, excluding the Net Metering Arrangement costs.

10. Dispute Resolution:

Any dispute arising under this Agreement shall be resolved promptly, in good faith and in an equitable manner by both the Parties.

The Eligible Consumer shall have recourse to the concerned Consumer Grievance Redressal Forum constituted under the relevant Regulations in respect of any grievance regarding billing which has not been redressed by the Licensee.

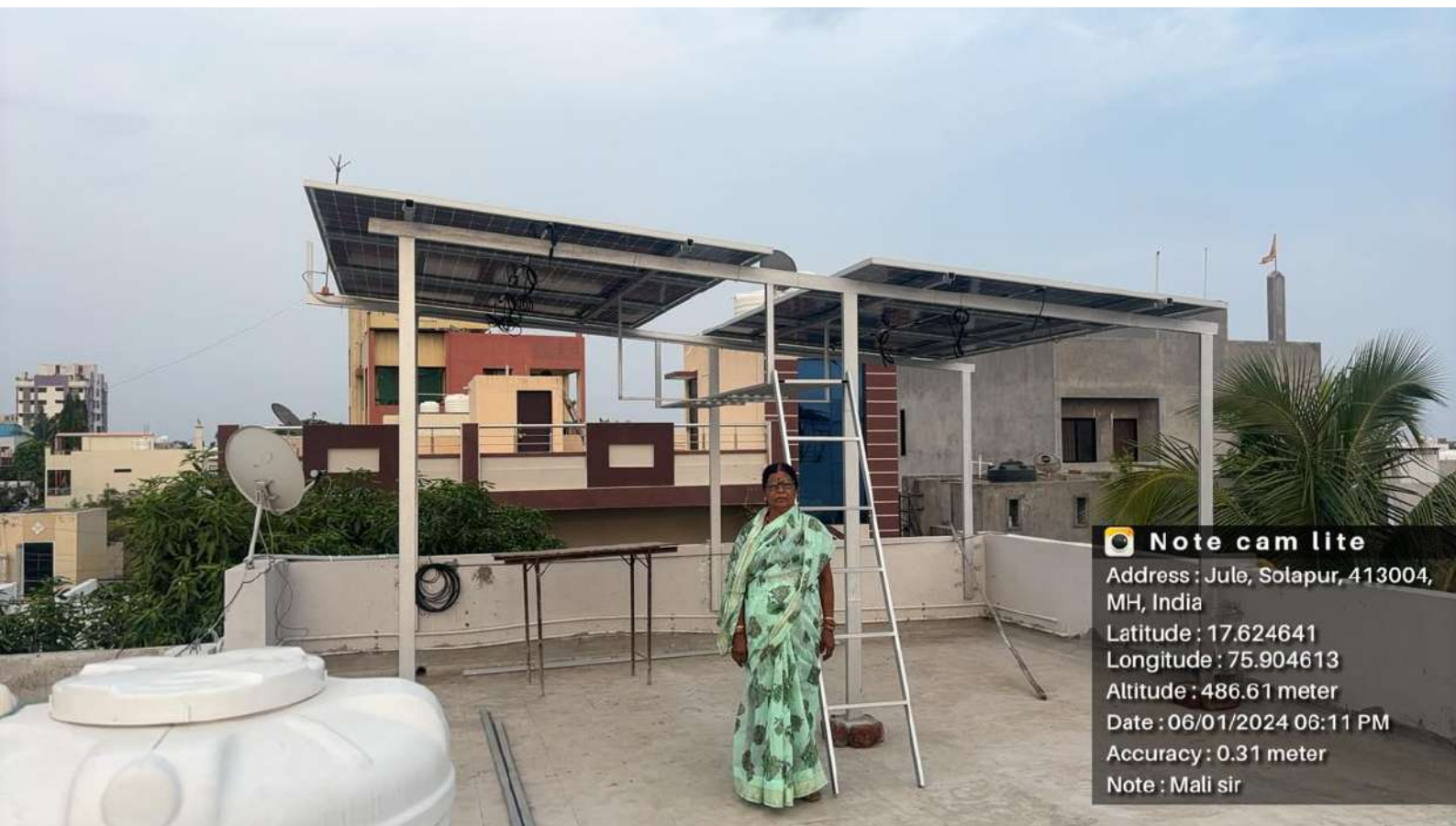
In the witness where of ____ (VENDOR NAME) _____
for and on behalf of Eligible Consumer and Shri. -----for and on
behalf of MSEDCL agree to this agreement.


____ (NAME) _____
For Eligible Consumer

Shri. -----
for and on behalf of MSEDCL

Witness 1(VENDOR):

Witness 1:



 **Note cam lite**

Address : Jule, Solapur, 413004,
MH, India

Latitude : 17.624641

Longitude : 75.904613

Altitude : 486.61 meter

Date : 06/01/2024 06:11 PM

Accuracy : 0.31 meter

Note : Mali sir