

## Plant Parameter Form For Distribution Impact Study of Solar PV RE Facility Application

### Preamble and Instructions

An owner of a distributed generator resource who requests interconnection to MERALCO's distribution facilities, must submit an application to MERALCO, as follows:

MERALCO's Designated Contact Person: \_\_\_\_\_  
 MERALCO's Contact Information: Office: \_\_\_\_\_  
 Branch: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 FAX: \_\_\_\_\_

An application is a **Complete Application** when it provides all applicable and correct information required below.

1. Failure to provide complete information may delay the processing of the study.
2. The Annex Sheet may be attached to provide additional information, if applicable, on the following:
  - (a) Inverter Specifications, Annex A.1 – applicable only to solar PV facilities with more than one inverter model or rating.
  - (b) Transformer Specifications, Annex A.2 – applicable only to customers served by MERALCO through customer-owned transformers (primary-metered)

### Section 1: Applicant Information

1. Customer Name: \_\_\_\_\_
2. Existing MERALCO SIN: \_\_\_\_\_
3. Address: \_\_\_\_\_
4. Telephone / Fax / Email: \_\_\_\_\_
5. Project Information: Date of Start of Construction: \_\_\_\_\_ (dd/mm/yyyy)  
 Date In-Service (Operation): \_\_\_\_\_ (dd/mm/yyyy)

	Owner of the Generating Facilities	Electrical contractor /Installer	Consultant/s
<b>Name of Company: Represented By:</b>			
<b>Address:</b>			
<b>Contact Number Landline/Mobile:</b>			
<b>E-mail Address:</b>			

### 6. Location Map and Site Plan

Site plan with approximate line routings for connection to nearby MERALCO facilities. The Site Plan include roads (with street names) and lot numbers and nearby power lines.

## Section 2: Technical Details

### 1. Single Line Diagram

*Provide a Single Line Diagram (SLD) of the customer generating facilities, loads, lines, and transformers, including the customer's point of connection to MERALCO's Grid.*

### 2. Inverter Specifications

*For additional model/ rating, please fill out form A.1 (Inverter Specifications).*

- i) Is the inverter paralleling equipment and/or design pre-certified?

Yes       No

Certifying laboratory (Please attach copy of test certification, if any). \_\_\_\_\_

If yes, to which standard(s), e.g. IEEE 1547, UL-1741, please specify: \_\_\_\_\_

ii) Manufacturer/Brand : \_\_\_\_\_ Model : \_\_\_\_\_

iii) Maximum AC Power : \_\_\_\_\_ kW      Number of Units : \_\_\_\_\_

iv) Rated output AC Voltage : \_\_\_\_\_ V      Rated Frequency: \_\_\_\_\_ Hz

v) Number of phases :     One       Three

### 3. Solar Panel Specifications *Please provide values taken under Standard Test Conditions (STC).*

i) Manufacturer/Brand : \_\_\_\_\_ Model : \_\_\_\_\_

ii) Rated Output per unit : \_\_\_\_\_ kW      Number of Units : \_\_\_\_\_

iii) Total Plant Capacity : \_\_\_\_\_ kWp DC

4. Total Inverter AC Power Output (Maximum): \_\_\_\_\_ kW

5. Type of customer metering:     Secondary-metered     Primary-metered

*For primary-metered customers, please fill out form A.2 (Transformer Specifications)*

**I hereby certify that, to the best of my knowledge, all the information provided in this plant parameter form is true and correct.**

**Accomplished by:**

**Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_ (dd/mm/yyyy)

**In case of Additional or Multiple Inverter Models/Ratings Only and/or Primary-Metered Customers, accomplish this form.**

**A.1 Inverter Specifications** *(To be accomplished for facilities with multiple inverter models/ratings. Please provide specifications of each additional model/rating.)*

- i) Manufacturer/Brand : \_\_\_\_\_ Model : \_\_\_\_\_  
ii) Maximum AC Power : \_\_\_\_\_ kW Number of Units : \_\_\_\_\_  
iii) Rated output AC Voltage : \_\_\_\_\_ V Rated Frequency: \_\_\_\_\_ Hz  
iv) Number of phases:  One  Three  
v) Is the inverter paralleling equipment and/or design pre-certified?  
 Yes  No

Certifying laboratory (Please attach copy of test certification, if any). \_\_\_\_\_

If yes, to which standard(s), e.g. IEEE 1547, UL-1741, please specify: \_\_\_\_\_

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**A.2 Transformer Characteristics** *(To be accomplished by primary-metered customers only. Please provide on a separate sheet if the units are not identical.)*

- i) Transformer rating: \_\_\_\_\_ kVA; Number of phases:  One  Three  
ii) Nominal winding voltage: High-side: \_\_\_\_\_ kV; Low-side: \_\_\_\_\_ V  
iii) High voltage winding connection:  
 Wye(3-ph)  Delta(3-ph)  Line-to-line(1-ph)  Line-to-ground(1-ph)  
iv) Low voltage winding connection:  
 Wye(3-ph)  Delta(3-ph)  Line-to-line(1-ph)  Line-to-ground(1-ph)  
v) Tap information:  
Number of steps/taps: \_\_\_\_\_ Position of Nominal tap: \_\_\_\_\_  
Minimum Tap: \_\_\_\_\_ (volts; p.u.; %)  
Maximum Tap: \_\_\_\_\_ (volts; p.u.; %)

**Accomplished by:**

**Name:** \_\_\_\_\_

**Date:** \_\_\_\_\_ (dd/mm/yyyy)

**Signature:** \_\_\_\_\_