INSTALLER MANUAL



GOA SOLAR ROOFTOP PV PORTAL (THE "PORTAL")

4 April 2023









Project Developed By. AltASolar Technologies Ltd. For Goa Benzy Development Agency (GENA) and Goa Electricity Department (GED.)
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LIST OF ACRONYMS

Acronyms	Definition
API	Application Programming Interface
APPC	Average Power Purchase Cost
BIS	Bureau of Indian Standards
BOS	Balance of System
BRD	Business Requirement Definition
CEIG	Chief Electrical Inspector to Government
CERC	Central Electricity Regulatory Commission
CFA	Central Financial Assistance
DC	Direct Current
DE	Deputy Engineer
DGM	Deputy General Manager
DISCOMs	Distribution Companies
DO	District Office
EE	Executive Engineer
EA	Empanelled Agency
EPC	Engineering, Procurement, and Construction
Fls	Financial Institutions
FIT	Feed-in Tariff
FY	Financial Year
GEDA	Goa Energy Development Agency
GOG	Government of Goa
GOI	Government of India
GST	Goods and Service Tax
GW	Gigawatt
GWp	Gigawatt Peak
НО	Head Office
HT	High Tension
HTML	Hypertext Markup Language
IFSC	Indian Financial System Code
JNNSM	Jawaharlal Nehru National Solar Mission
PORTAL	Goa Rooftop Solar Portal
SE	Superintending Engineer
TPL	Torrent Power Limited
USRTP	Unified Single Window Rooftop PV Portal







ABOUT THE MANUAL

The Ministry of New and Renewable Energy (MNRE) under the aegis of Jawaharlal Nehru National Solar Mission (JNNSM) has proposed specific targets for grid-connected Rooftop Solar PV Project. Successful installation of a grid-connected Rooftop Solar PV Project in a time bound manner requires interaction between multiple entities. The entities, which are the stakeholders of the solar rooftop program in Goa include the following:

- 1. Consumers of the Electricity Distribution Companies (DISCOMs)
- 2. GED Empaneled Vendor or System Installer or Installer
- 3. Goa Energy Development Agency (GEDA)
- 4. Goa Electricity Department (GED)

For GED Empaneled Vendor/ Installer (the "Installer") to install grid-connected Rooftop Solar PV (RTPV) system in a time bound manner with informed decision making, the need to develop an online platform providing information and enabling inter and intra stakeholder interaction was essential. Therefore, the Unified Single Window Clearance Portal for processing the Rooftop Solar PV Applications i.e. Goa Rooftop Solar Portal (the "Portal") has been developed with the support of the AHAsolar Technologies Ltd.

The purpose of this Installer User Manual is to provide an easy-to-follow, step-by-step, comprehensive guide to assist Installer to access the Portal to facilitate Application Submission, Interconnection and Subsidy Application in the State of Goa. This manual will guide the Installer regarding the use of the Portal. The functions and the processes to be followed are described in detail to aid the user in the use of the Portal. Once registered, the users of this portal may seek the help of System Administrator in navigating through the online process of the Portal.







DEFINITION

2.1 "User"

The entities those have access to this online portal are GEDA empaneled Vendors, all DISCOMs, Chief Electrical Inspector and GEDA. All of these are referred to as "USER".

2.2 "Installer"

All the GEDA empaneled vendors authorized for installation of solar roof top are referred to as "Installer or GEDA Empaneled Vendor"

2.3 "Member"

The Officers of GEDA, GED and Chief Electrical Inspector are referred to as "Member".

2.4 "Applicant / Consumer"

The entity who is to own the solar rooftop PV system and is the consumer of the DISCOM is referred to as "Applicant or Consumer"







3 Installer Registration Process

3.1 Registration

The Installer/ GEDA's empaneled vendor shall mandatorily register themselves with GEDA to apply online to facilitate grid connectivity of the rooftop solar system. The Installers of GEDA are preregistered on the Goa Rooftop Solar Portal and the **Username** and **Password** is shared with the Installer separately.

3.2 Login

The Portal has two logins on the Home Page as follows:

- Member Login is for the Authorized Officials of GEDA, GED, CEI, and any other concerned agency as may be decided by GEDA. The username in this case shall be generated by the system administrator.
- Customer Login is for the GEDA Empaneled Vendor or Installer. The login credentials for these logins shall be generated by Goa Solar Portal administrator and shared with the Installer. To LOGIN, the Installer shall do it through the Customer Login only.

To Log in to the GEDA USRTP application and use the features provided in it, follow the steps given below:

1. Enter the URL www.goasolar.in

Enter User Registered "Username" and "Password" to Login

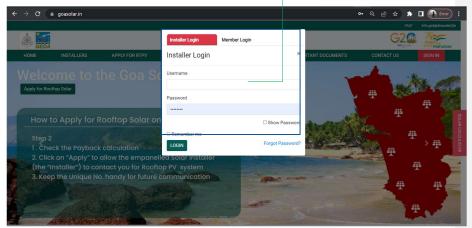


Figure 3-1: Login Page

- 2. Enter a valid Email and Password and click the **LOGIN** button.
- 3. On clicking the **LOGIN** button, the Portal validates the information.
- 4. If the information is valid the login is successful, and the Home Page is displayed.









There are 5 (five) Tabs on the Menu bar of the Installer Home Page:

- 1. Dashboard: To show the summary of various stages
- 2. Apply Online: To Apply to DisCom
- 3. My Application: List of successfully submitted Applications
- 4. Profile: Profile details of the Installer
- 5. Reports: To generate MIS and other reports

3.3 Change Password

The Installer can change the Password by following the below mentioned steps:

- 1. Click on the Change Password link in the Profile Tab.
- 2. Three options will be displayed
 - a. Profile
 - b. Change Password
 - c. Logout
- 3. Click on Change Password

Click on "Change Password" to Open the Page

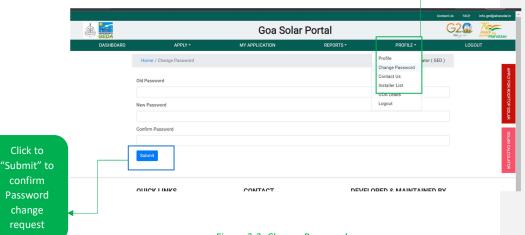


Figure 3-3: Change Password

4. This page contains the Old Password, New Password and Confirm Password field. Enter the Old Password and Change it to a new password of your choice and click the **Submit button** to change the password.







4 MY APPLICATION

The Application Form for the Rooftop Solar PV system shall be filled by clicking on "Apply Online". The Application will be filled by the Installer on behalf of the applicant.

4.1 My Application

- 1. In "My Application" the List of Applications will be displayed.
- 2. The Installer can see the following details:
 - a. Search Bar: To Search and sort the Applications
 - b. Name of the Applicant" Click on this to view the details of the Application on the
 - c. Application Action Button
 - d. Download Application Document: Click to Download the Letter
 - e. Status Bar: This will show the exact status of the Application

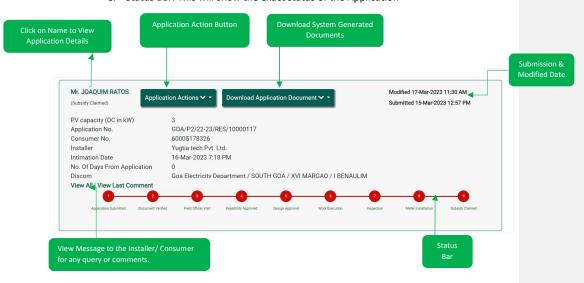


Figure 4-1: My Application – Application Details

4.2 Create Project

- 1. Click on the **Apply Online** icon
- 2. In Create Project Section, select Solar Project Location Co-ordinates







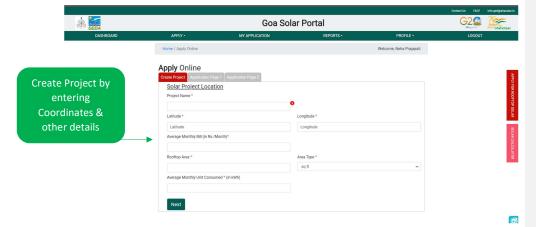


Figure 4-2: Create Project and Locate the Coordinate of Solar Project Site

- 3. Fill in the 5 (five) fields to create a unique Project
 - a. Project Name
 - i. Any name as per the choice of the Installer
 - b. Customer Category
 - Select the option from the dropdown Menu (Residential, Industrial, Commercial, etc.)
 - c. Area Type
 - i. Select "Sq. Ft." or "Sq. M"
 - d. Total Rooftop Area
 - $i. \quad \textit{Enter Total Rooftop Area available on the Roof for the Proposed system}$
 - e. Average Monthly Bill
 - i. Enter Average Monthly Electricity Bill of the Customer in Rs.
 - f. Average Monthly Consumption
 - i. Enter the average monthly electricity consumption in kWh

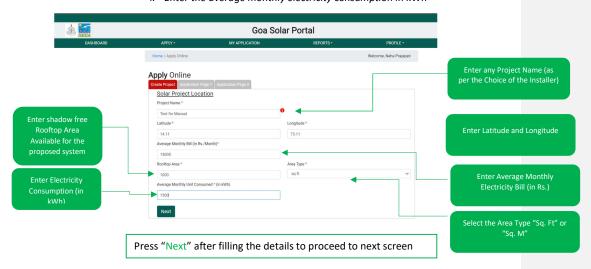


Figure 4-3: Apply Online (Create Project)



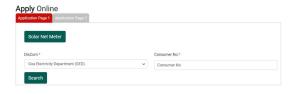




4.3 Application

The Applicant has to enter the following fields in DisCom details Section

- a. Name of the DisCom Select from the Dropdown
- b. Enter "Consumer No." and Press "Search"



Clicking on **Search** shall auto-fetch the following details from GED server and Installer will see the following fields that will come auto-filled and it can't be further changed.

- a. Name of the Consumer
- b. Name of Division
- c. Name of Sub-division
- d. Sanction Load/ Contract Demand (in kW)
- e. Discom Consumer Category i.e., Residential, Commercial, Industrial, Government or Others

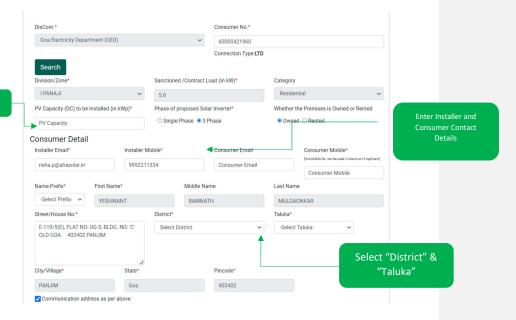


Figure 4-4: Application Form Page 1

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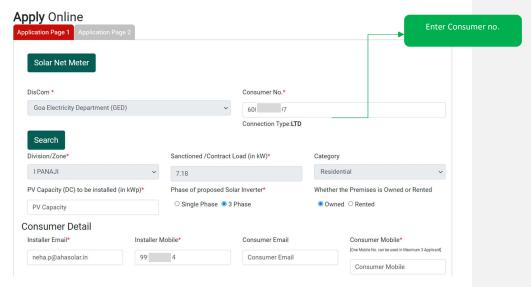


Figure 4-5: Application Form - Consumer Data from DisCom Electricity Bill



Installer Email ID and Mobile No.

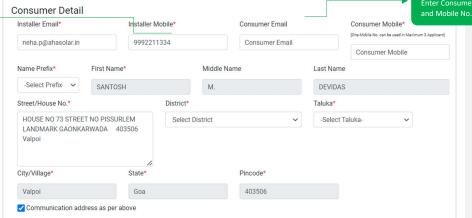


Figure 4-7: Application Form - Consumer Contact Details

Note: The Installer Mobile No. and Applicant Mobile No. shall not be same and if it is same then the Application will not be submitted. Maximum 3 (three) times a single Mobile number of Applicant can be used to register for rooftop solar PV system. There is no limitation for Installer Mobile number.







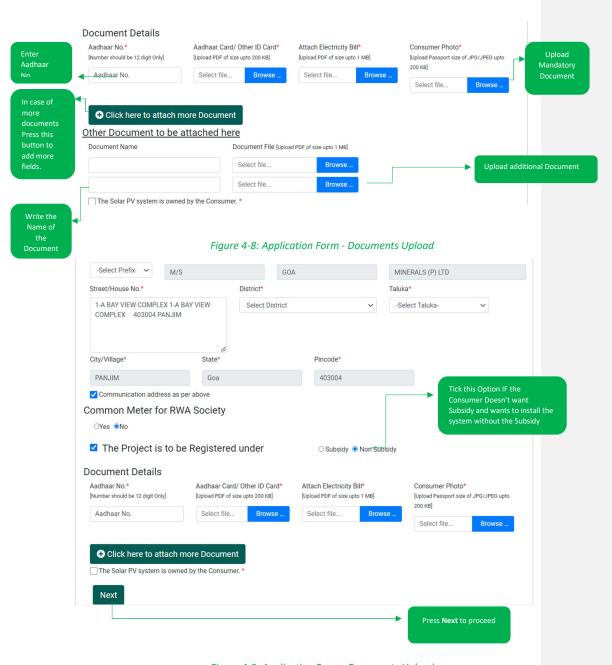
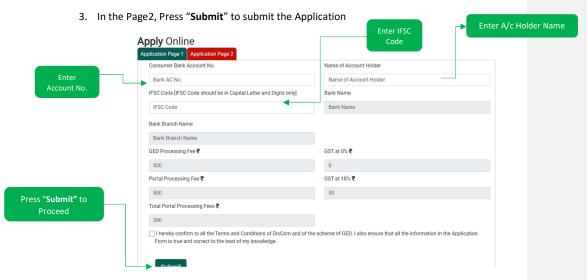


Figure 4-9: Application Form - Documents Upload









4.4 My Application

- 1. In "My Application" the List of Applications will be displayed.
- 2. The Installer needs do the two steps verification to Finally Submit the Application.
 - a. Upload Signed Application

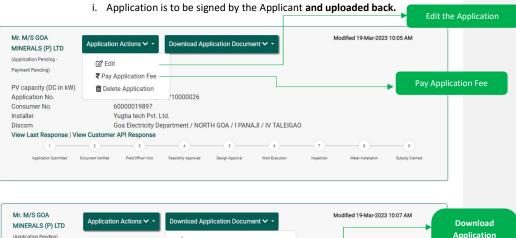




Figure 4-10: My Application – Edit and Download Application









Figure 4-11: My Application – Upload Signed Document

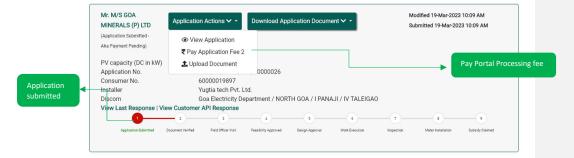


Figure 4-12: My Application – Application Submitted

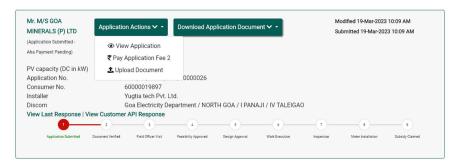


Figure 4-13: My Application – Pay Portal Processing Fees

4.5 Edit Application

- On receipt of the comments from GED/ GEDA, the Comments can be viewed in the My Application and then necessary corrections can be done in the Application by clicking the Edit button
- 2. In My Application, a Reply Message box will open and the Installer has to reply to the changes done in the Application due to the comments received from GED/GEDA.
- 3. After the Application is submitted, the Edit option will open only if the Comments is raised from the DisCom side.







4.6 Registration Letter

Once the Signed Application Form is uploaded, the portal shall generate the Registration Letter, which can be downloaded.

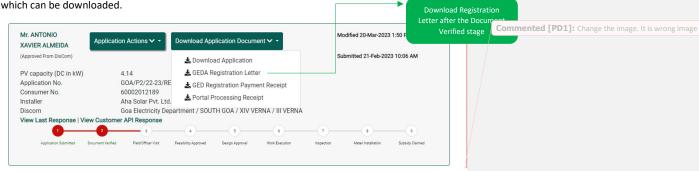


Figure 4-14: Download Registration Letter







5 **DESIGN APPROVAL**

Upon the approval for Feasibility Report, the Installer must submit documentation for the Design and documents for Approval.

1. The following documents must be uploaded (all documents shall be maximum 1MB in PDF):

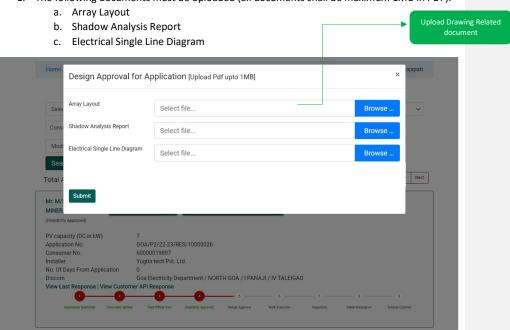


Figure 5-1: Upload Design Document







6 Project Execution Stage Details

A link **Work Execution** will get activated and displayed against the **Application** in **My Application** Tab in the Installer Login. The Installer has to enter the technical details of the Project like PV Capacity, Inverter Capacity and other project details

The first sub-section is details of the Start Date and End Date. The **Start Date** is the date when GED official has approved the feasibility and the **End Date** is the date when Meter is installed and details entered by GED.

The second sub-section is for the details of PV modules, Inverters and Grid Parameters. The subsidy will be calculated based on the details of PV module capacity and Inverter capacity.

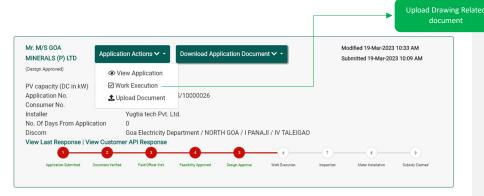
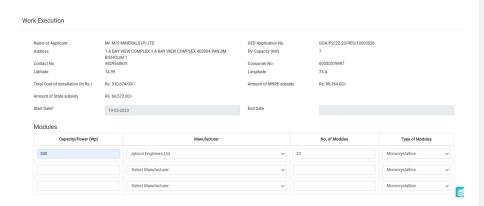


Figure 6-1: Project Execution Details









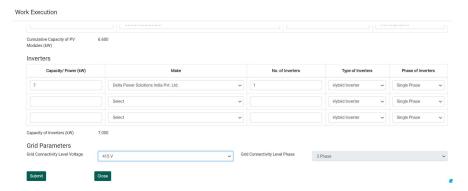


Figure 6-2: Project Execution Details

Note: The **Joint Inspection Report** shall be visible in **Download** section once the details of Solar PV Modules and the Inverters are entered in the Execution page.







FINAL INSPECTION APPROVAL DETAILS

The Installer has to raise the Intimation for Completion Request in order to initiate the process of Inspection at the GED. Upon the intimation request, GED officials will do the inspection and

upload the final inspection details which shall be checked by GED and after that meter details will be entered.

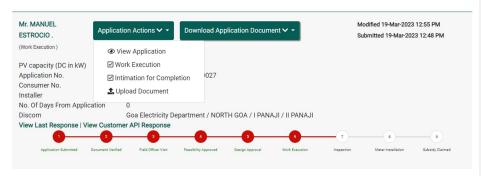


Figure 7-1: Enter Upload Final Inspection Details







8 FORMAT FOR JOINT INSPECTION REPORT

The Format for "Certificate Bi-Directional Meter Installation for Solar Roof Top System" can be downloaded from the Button "DisCom Inspection Report/ Joint Inspection Report".

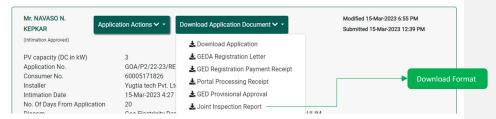


Figure 8-1: Format for Bi-directional Meter Certificate

The Installer can download the Format for the **Joint Inspection Report** and get it signed from the Applicant, DisCom officer and the representative of Installer himself.

The Discom Officer can go to the Portal from their login and update the meter details to update the stage of Meter Installation.

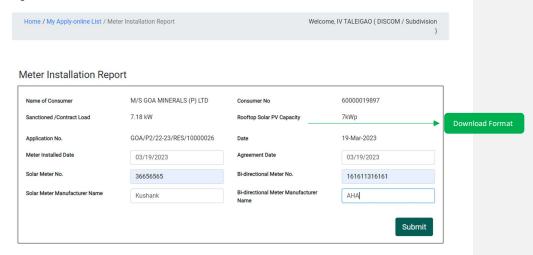


Figure 8-2: Meter Installation Page in Member Login

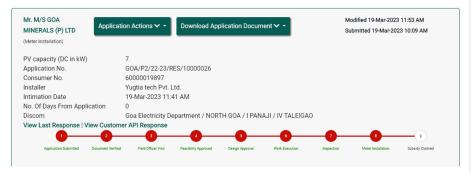


Figure 8-3: Meter Installation Stage Cleared







On the same page details of the subsidy received by the Consumer is also to be counter signed by the Consumer. This document is to be uploaded at the time of Subsidy Claim under the Meter Installation Documents "Certificate of Bi-directional Meter and Consent for Subsidy".

Meter Installation Documents DisCom Bidirection Meter Installation Sheet / Meter Sealing Report [Upload PDF of size upto 1 MB] Browse ___ View Attached Document Upload PDF of size upto 1 MB] Browse __ View Attached Document View Attached Document

Figure 8-4: Signed Copy Joint Inspection Report to be uploaded in Subsidy Claim Section







9 **SUBSIDY CLAIM**

Once the Meter Installation stage has been cleared, then a tab for Subsidy Claim will be displayed under the Application Actions Tab. The Installer has to enter the details in the Subsidy Claim document. All the details which has been entered in the entire process shall be displayed in this section and details can be edited in case the error/mistake or missed our something in the earlier stages. All the mandatory fields have to entered in order to proceed further with the subsidy claim procedure. There are 6 (six) sub-sections:

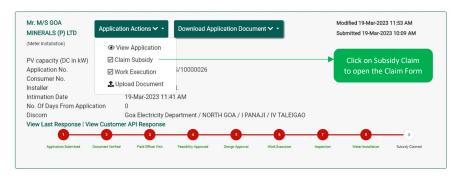


Figure 9-1: Claim Subsidy Section

- 1. Project Details
- 2. ID Proof
- 3. EOI Document
- 4. Execution Details
- 5. Technical Details







9.1 Project Details

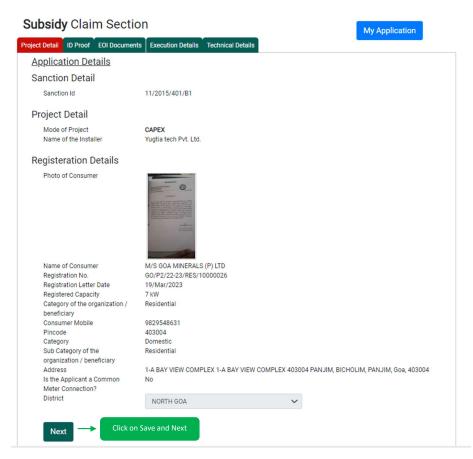


Figure 9-2: Claim Subsidy Section – Project Details







9.2 ID Proof

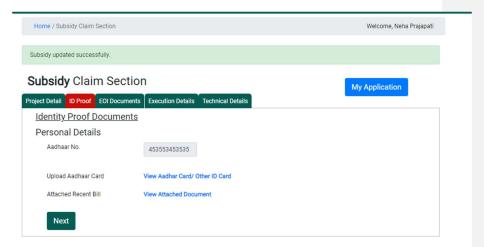


Figure 9-3: Claim Subsidy Section – ID Proof

9.3 EOI Document

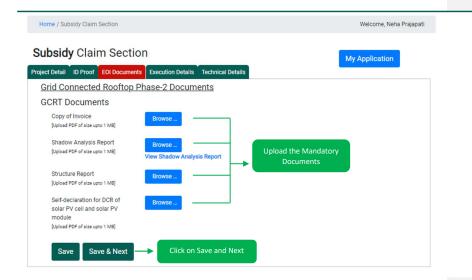


Figure 9-4: Claim Subsidy Section – EOI Documents







9.4 Execution Details

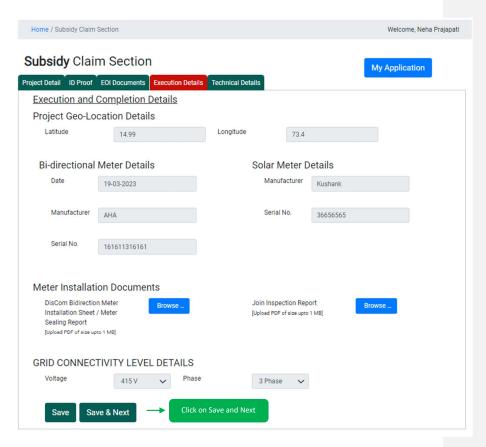


Figure 9-5: Claim Subsidy Section – Execution Details







9.5 Technical Details

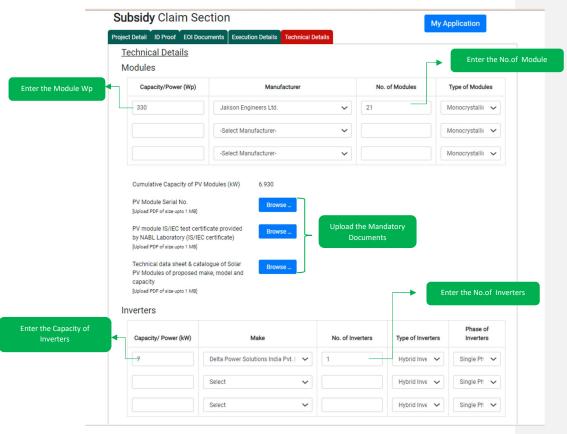


Figure 9-6: Claim Subsidy Section – Technical Details (Screen 1)





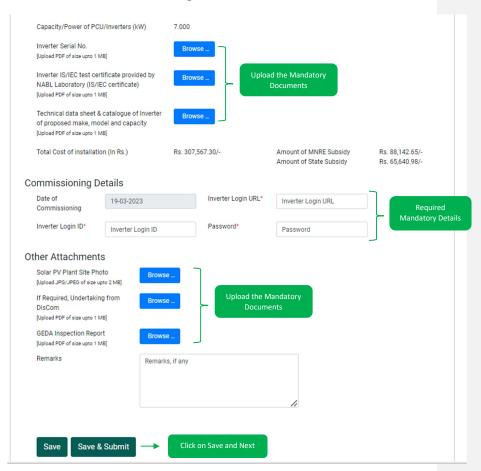
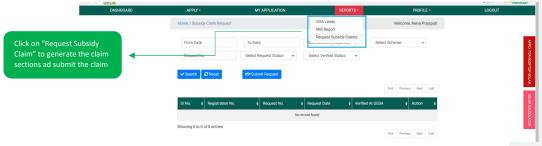


Figure 9-7: Claim Subsidy Section – Technical Details (Screen 2)

9.6 Request Subsidy Claim

Once the Subsidy Claim Section is filled by the Installer, then they have to Click on the "Request Subsidy Claims" in order to club multiple claims and submit the the bunch of application in a single Claim.



--- End of Section---







Disclaimer:

The Consumer details shown in the Portal are based on the information provided by respective GED and GEDA, AHAsolar and their representatives are nowhere responsible for any mismatch of data in the Name, Address, Contract Load, Phase and Type of Customer. In case of any discrepancy, the Consumer/Applicant or the Installer shall contact the respective DisCom.

Developed For:





Developed & Powered by: AHASolar

