



Carbon Management Assessment (CMA)

Happy Fish Grid-connected Solar PV Bundle(Unit 01 and unit 02) Project



Project Title	<i>Happy Fish Grid-connected Solar PV Bundle Project</i>
Version	<i>03</i>
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Project proponent/s	<i>Global Sea Foods (Pvt) Ltd.</i>
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1. Description of Project Activity

1.1. Introduction of Project Activity

Solar PV systems are power systems that convert sunlight into electricity by utilizing the photovoltaic effect. In a solar PV system, the solar panel serves as the receptacle for sunlight and converts the incident photons to electric power. The energy produced by the panel is then converted from direct current (DC) to alternating current (AC) using a solar inverter. Solar PV systems can vary in size; from small roof-mounted installations with few panels and kilowatts capacity to large scale installations of several megawatts by utilizing large arrays of solar panels. Currently, due to the global transition to clean energy and reduction in carbon emissions, photovoltaic systems have experienced enormous growth and have established themselves as ripe technology for electricity generation.

Considering the solar energy potential available, two solar PV power plants were installed with a total capacity of 613.7 kWp (Unit 01 – 122.4 kWp and Unit 02 – 491.3 kWp) at Global Sea Foods (Pvt) Ltd located in Badalgama for obtaining carbon credit considering the emission reduction potential.

In line with the bundling procedures of SLCCS, two solar PV systems located at two premises of Global Sea Foods (Pvt) Ltd are bundled into a single project activity titled called Happy Fish Grid-connected Solar PV Bundled (unit 01 and unit 01) project. The individual project activities are separately monitored by the assigned officers and data and information recorded are periodically reviewed for emission reduction calculation. The solar power plant sites are well connected, and all necessary infrastructure facilities are available, and plants have crystalline modules, module mounting structures, inverters, and all accessories as the major components. The power generated is totally exported to CEB national grid.

1.2. Sectoral Scope and Project Type

Sectoral Scope: 01

Project Type: 01

1.3. Project Proponent.

Organization Name	<i>Global Sea Foods (Pvt) Ltd</i>
Contact Person	<i>L.D. Nayanajith De Silva</i>
Address	<i>Perawalawatta, Badalgama</i>
Title	<i>Senior Quality Assurance Manager</i>
Telephone	<i>077-5109253</i>
Fax	-
E-mail	nayanajith@qsffish.com

1.4. Other Entities Involved in the Project

Organization Name	<i>Sunpower Renewables (Pvt) Ltd</i>
Role in the project	<i>Installation and commissioning of Solar PV system</i>
Contact Person	<i>Gayana Karunaratna</i>
Address	<i>3rd Floor, Forbes and Walker Building, 46/38, Nawam Mawatha, Colombo 02.</i>
Title	<i>Engineer Service Marketing</i>
Telephone	<i>071-2030778</i>
Fax	<i>-</i>
E-mail	<i>Info@sunpower.lk</i>

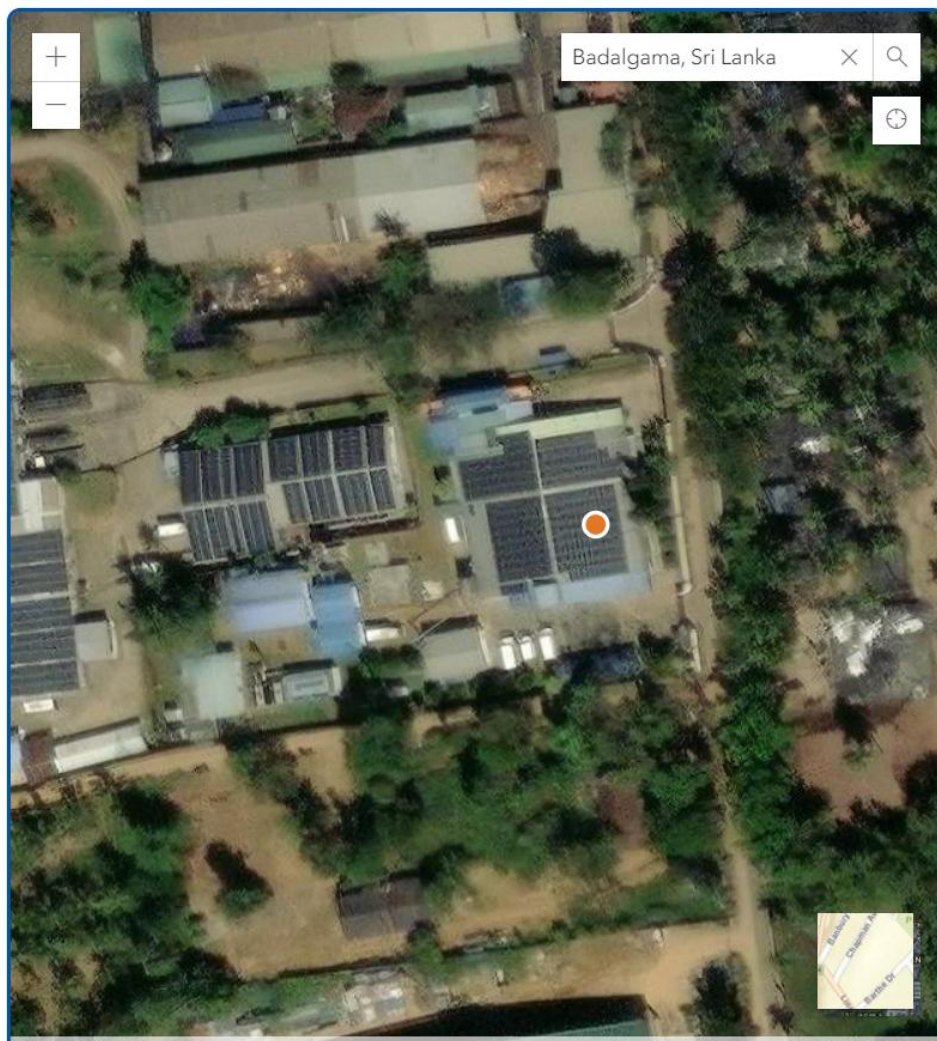
1.5. Location of Project Activity

Location of Project Activity	<i>Unit 01 - Perawalawatta, Badalgama</i>
Province	<i>Western</i>
District	<i>Gampaha</i>
DS Division	<i>Divulapitiya</i>
City/Town	<i>Badalgama</i>
Community	
Coordinates	<i>Latitude: 7.288829151858031⁰</i> <i>Longitude: 79.97688626319083⁰</i>

Location of Project Activity	Unit 02 - 171/C/11, Beatrice Estate, Badalgama.
Province	Western
District	Gampaha
DS Division	Divulapitiya
City/Town	Badalgama
Community	
Coordinates	Latitude: 7.2888825142785025 ⁰ Longitude: 79.97574115182503 ⁰

Locations of the sites are indicating in the following maps,

1. Global Sea Foods (Pvt) Ltd Unit 01- Perawalawatta, Badalgama.



2. Global Sea Foods (Pvt) Ltd-Unit 02, 171/C/11, Beatrice Estate, Badalgama



1.6. Project Ownership

The project is fully owned by the Global Sea Foods (Pvt) Ltd.

1.7. Project Fundings

Funds are provided by Global Sea Foods (Pvt) Ltd.

1.8. Project Start Date

Unit No	Site Location	Project Start date
Unit 01	Perawalawatta, Badalgama.	23.08.2019
Unit 02	171/C/11, Beatrice Estate, Badalgama.	23.08.2019

1.9. Project Commissioning Date

Unit No	Site Location	Project Commissioning date
Unit 01	Perawalawatta, Badalgama.	26.02.2020
Unit 02	171/C/11, Beatrice Estate, Badalgama.	23.04.2021

1.10. Project Track

The project activity intends to be registered under TRACK II. The carbon credit achieved through the project activity will be used for internal offsetting of emissions.

1.11. Project Crediting Period

Project crediting period is seven years from 01/01/2021 to 31/12/2027 which may be renewed two more times provided that, for each renewal, a designated operational entity recognized by SLCCS determines and informs the top management that the original project baseline is still valid or has been updated taking account of new data where applicable.

1.12. Scale of Project and Estimated Emission

Project Scale	
Small	✓
Large	

Year	Estimated GHG emission reductions or removals (tCO ₂ e)
2021	261
2022	394
2023	394
2024	394
2025	394

2026	394
2027	394
Total estimated ERs	2,625
Total number of crediting years	7
Average annual ERs	375

*Total Carbon Credits for the Entire Bundle Project

1.13. Description of the Project Activity

Technical detail of major equipment of the implemented solar PV system is summarized below.

a) Global Sea Foods (Pvt) Ltd, Unit 01- Perawalawatta, Badalgama.

Power 122.4 kW

Billing System-Net plus

Item	Specification
Solar Panels	340 W Poly Modules × 360 nos. by Amerisolar, USA Product Model – AS 6P 340 W
Inverter	110 kW. Three Phase Inverters manufactured by Sunny Tripower (AFCI), China Product Model – STP 110 - 60
Remote Monitoring	Built into inverters
DC Cabling	4 mm ² Cu/XLPE/XLPE (Voltage up to 1500V) Brand: UV resistant DC Cables by Cable Solutions (Pvt) Ltd
AC Cabling	10 - 50 mm ² - 4 Core Unarmoured (CU/XLPE/PVC) 120 mm ² - 4 Core Armoured (CU/XLPE/SWA/PVC) Brand: ACL cables
DC Isolator	Brand: Telegron, France
AC Circuit Breaker	Brand: Schneider, France
Surge Protection Device	Brand: Phoenix Contact, Germany
Module Mounting Structure	Anodized Aluminium

Access Paths (Maintenance & Cleaning purpose)	Aluminum Checker Plates 3 mm Thickness
Panel Cleaning System	Distribution of pressurized water lines throughout the roof area with pressure pumps.
Cable Management System	Inside the Building: Powder Coated / Zn Alum Cable Trays & Trunkings Roof & Outdoor: Hot Dip Galvanized Cable Trays & Cable Ladders

b) Global Sea Foods (Pvt) Ltd-Unit 02, 171/C/11, Beatrice Estate, Badalgama.

Power 491.3 kW

Billing System-Net plus

Item	Specification
Solar Panels	340 W Poly Modules × 1445 nos. by Amerisolar, USA Product Model – AS 6P 340 W
Inverters	27 kW x 17 Nos. Three Phase Inverters manufactured by Fronius International GmbH, Austria Product Model – Fronius Eco 27.0-3-S
Remote Monitoring	Built into inverters
DC Cabling	4 mm ² Cu/XLPE/XLPE (Voltage up to 1500V) Brand: UV resistant DC Cables by Cable Solutions (Pvt) Ltd
AC Cabling	10 - 50 mm ² - 4 Core Unarmoured (CU/XLPE/PVC) 95 mm ² - 4 Core Armoured (CU/XLPE/SWA/PVC) 150 mm ² - 4 Core Armoured (CU/XLPE/SWA/PVC) 300 mm ² - 4 Core Armoured (CU/XLPE/SWA/PVC) Brand: ACL cables
DC Isolator	Brand: Telegron, France
AC Circuit Breaker	Brand: Schneider, France
Surge Protection Device	Brand: Phoenix Contact, Germany
Module Mounting Structure	Anodized Aluminium

Access Paths (Maintenance & Cleaning purpose)	Aluminum Checker Plates 3 mm Thickness
Panel Cleaning System	Distribution of pressurized water lines throughout the roof area with pressure pumps.
Cable Management System	Inside the Building: Powder Coated / Zn Alum Cable Trays & Trunkings Roof & Outdoor: Hot Dip Galvanized Cable Trays & Cable Ladders

1.14. Conditions Prior to Project Initiation

Prior to this project activity, there were no solar power plants at these locations. The project activity is the generation of electricity using solar energy and exporting the same to the grid system.

1.15. Compliance with Laws, Statutes and Other Regulatory Frameworks

This project follows all relevant local, regional, and national laws, statutes, and regulatory frameworks. (Sri Lanka Sustainable Energy Authority Act, Electricity Act, National Renewable Energy Policy, Environmental Impact Assessment (EIA) Act)

1.16. Participation under Other GHG Programs

The project activity has not been registered under any other GHG program.

1.17. Other forms of Credit

This project has not been sought or received another form of GHG-related environmental credit, including renewable energy certificates. (Ex: carbon credit certificates or IREC)

1.18. Sustainable Development

This renewable energy generation facility can reduce the contribution from thermal electricity generation to meet the electricity demand. Unlike in thermal power plants, this project is positively contributing to the electricity demand without compromising the ability of future generations to meet

their own needs. The implementation of this project activity would contribute to the sustainable development of the clean energy area as a generation of energy would provide to the national grid.

Social wellbeing.

The project contributes to social well-being by reducing the use of thermal energy for power generation at a global level and decreasing environmental pollution.

Economic well-being

If this project were not implemented, thermal electricity would have been used, leading to increased production and operational costs. As a renewable energy project, it reduces these costs, thereby contributing to improved economic well-being.

Environmental well-being

This project utilizes rooftop solar potential at Global Sea Foods for power generation, reducing SOx and NOx emissions from thermal power plants. This project will lead to reducing environment pollution and thereby it's an environment benefit.

Technological well-being

This project involves sharing technological knowledge and expertise with internal staff regarding the solar energy and greenhouse gas (GHG) sectors.

1.19. Leakage Management

No equipment or materials transferring from outside for this project, so there will be no impact on the project.

1.20. Commercially Sensitive Information

No commercially sensitive information has been included in this project scope.

2. Environment Impacts

2.1. Environmental impact assessment

Not applicable according to Sri Lankan regulations.

3. Local Stakeholder Consultation

3.1. Stakeholder Consultation Process

Global Sea Food (Pvt) Ltd had expressed their plan to develop the proposed 613.7 kW grid connected project and called for the suggestions/comments from the staff. In line with the Staff notice, a meeting was held on 28 August, 2019. Stakeholder consultation for the project activity has been conducted to account for the views of the people impacted either directly or indirectly due to the project activity.

The stakeholder consultation process for the Happy Fish Grid-Connected Solar PV Bundle Project began with the identification of the most relevant stakeholders. The primary participants were employees of Global Seafood (Pvt) Ltd., as the solar project has no impact on external parties. It was found that various types of stakeholders with different social statuses were interested in the project.

Participants

- AGM
- PM, R & D
- QAM
- AQAM
- HRM
- Purchasing Assistant
- Maintenance In charge
- Factory Accountant
- Stores In Charge
- Worker Representative

3.2. Summary of Comments Received

Positive comments have been received regarding the project, and stakeholders were supportive of its implementation as an SLCCS project.

3.3. Consideration of Comments Received

No negative comments have been received regarding the project. Stakeholders were supportive of its implementation as a SLCCS project.

4. Eligibility Criteria

4.1. General Criteria

Indicate compliance with general eligibility criteria.

Sub Section	Eligibility Criteria	Project Activity	Yes/No
4.1.1	The project activity shall be a new project, which will reduce/absorb GHG emissions, or the project activity shall be a project, which was implemented on or after.	Project activity is implemented on or after 2010 in order to offset GHG emission within the organization.	Yes
4.1.2	The project activity shall be located in Sri Lanka.	Sites are situated in Western Province of Sri Lanka	Yes
4.1.3	The project activity shall not happen in the absence of benefits received from trading Sri Lankan Certified Emission Reduction units (SCERs). <i>(This is not applicable Track II)</i>	Project is Track II project	N/A
4.1.4	The project shall be implemented voluntarily by the project owner but not implemented based on legislation or regulations in the country	Project initiated by Global Sea Foods (Pvt) Ltd. as a voluntary commitment	Yes
4.1.5	The project activity satisfies environmental standard and regulations of the country. (ex: Sri Lanka Sustainable Energy Authority Act, Electricity Act, National Renewable Energy Policy, Environmental Impact Assessment (EIA) Act)	Project complied to all the relevant standards and regulations in Sri Lanka.	Yes
4.1.6	The project shall not have been registered under any other national or international scheme. However, if a registered project under other scheme is willing to register with SLCCS, then, such project shall be deregistered from the other scheme in order to be eligible.	The project has not been registered under any other national or international scheme.	Yes

4.2. Bundling Criteria

Sub Section	Eligibility Criteria	Project Activity	Yes/No
4.2.1	The composition of bundles shall not change over time	-	Yes
4.2.2	All project activities in the bundle shall have the same crediting period	-	Yes
4.2.3	All project activities in the bundle shall have the same baseline.	Roof top type Solar System	Yes
4.2.4	All project activities in the bundle shall have the same project type, methodologies, and technology/measure	Roof top type Solar System	Yes
4.2.5	Maximum number of project activities per bundle shall be seven.	2 projects	Yes
4.2.6	Maximum capacity of a project activity of the bundle shall be less than 1.5 MW.	491.3 kWp	Yes

5. Application of Methodology

5.1. Title and Reference of Methodology

Title: Grid connected renewable electricity generation

Reference: AMS I.D./Version 18/EB 81/ 2014

5.2. Applicability of Methodology

The projects which introduced in this report are all commission Solar PV projects that are applicable under clause 4 (a) of the AMS I.D./Version 18/EB 81/2014. Both project sites are new installation of Solar PVs mounted on already constructed, therefore, all sites come under the applicability.

5.3. Project Boundary

The project boundary of these solar PV plants encompasses the physical, geographical site of the power plant, and associated physical structure. The project boundary includes the Solar PV arrays, inverters, transformers, and metering/substation systems. The following figure depicts the project boundary.

Source		Gas	Included?	Justification/Explanation
Baseline	Emissions from fossil fuel from each source	CO ₂	Yes	Main emission source
		CH ₄	No	Minor emission source
		N ₂ O	No	Minor emission source
		Other	No	Minor emission source
Project	Solar Power generation activity from each source	CO ₂	No	Minor emission source
		CH ₄	No	Minor emission source
		N ₂ O	No	Minor emission source
		Other	No	Minor emission source

5.4. Baseline Scenario

According to the AMS I-D. (Ver. 18.0) methodology, the baseline scenario for a new power plant assumes that the electricity supplied by the project would have been generated by existing grid-connected power plants and any new generation sources added to the grid.

This project involves building a new photovoltaic power plant to supply electricity to the grid. Without this project, the same amount of electricity would have been generated by the national grid, which mainly relies on fossil fuels. Therefore, the baseline scenario for this project can be considered as electricity generation from grid-connected power plants.

5.5. Additionality

The project is intended to be registered under track II. Therefore, demonstration of additionality is not required.

5.6. Methodology Deviations

No methodology deviations have applied for this project.

6. Quantification of GHG Emission Reductions and Removals

6.1. Baseline Emissions

As per applied methodology, the baseline emission is the product of electrical energy baseline expressed in MWh of electricity produced by the renewable generating unit multiplied by the grid emission factor.

A baseline emission factor is calculated as combined margin, consisting of a combination of Operating Margin (OM) and Build Margin (BM) factors are extracted by Table 9.5 and Figure 9.1: Grid Emission Factors of Sri Lanka by Energy balance 2021 published by Sri Lanka Sustainable Energy Authority. (Annexure 01)

Equation (1) Where,

$$BE_y = EG_y \times EF_y \quad \longrightarrow \quad \text{Equation 1}$$

Where, BE_y = Baseline Emissions in year Y (t CO₂)

EG_y = Quantity of net electricity supplied to the grid as a result of the implementation of the Clean Development Mechanism (CDM) project activity in year Y (MWh).

EF_y = CO₂ Emission factor of the grid in the year 2021 (tCO₂/ MWh)

Note: t CO₂ is a ton of Carbon Dioxide emission

6.2. Project Emissions (PE_y)

The technology employed for current solar PV bundled project is rooftop solar PV system. In the optimum level of operation, they do not require to be aided by the auxiliary systems such as standby generator or complex mechanical systems. Therefore, project emissions to be reported for this project activity is Zero.

$$PE_y = 0$$

6.3. Leakage

No equipment or materials transferring from outside for this project, so there will be no impact on the project. leakage for this part is zero

$$LE_y = 0$$

6.4. Net GHG Emission Reductions and Removals

The emission reduction achieved by the project activity is the difference between the baseline emission and the sum of the project emission and leakage.

$$ER_y = BE_y - PE_y - LE_y \longrightarrow \text{Equation 2}$$

Since $LE_y=0$, $PE_y=0$,

$$ER_y = BE_y$$

Therefore,

$$\text{Emission reduction} = \text{Baseline Emissions in year } y \text{ (t CO}_2\text{)} \longrightarrow \text{Equation 3}$$

No	Site Location	Capacity (kWp)	Date of Commissioning
01	Unit 01- Perawalawatta, Badalgama.	122.4	26.02.2020
02	Unit 02 - 171/C/11, Beatrice Estate, Badalgama.	491.3	23.04.2021

Summary of emission reduction calculation for Unit 01

Parameter	Value	Unit	Source
Project Capacity (Tc)	0.1224	MW	Calculated
Plant Factor	9.91	%	Calculated
Average Energy Output (EGy)	106.30	MWh/year	Calculated
Grid Emission Factor (EFy)	0.7079	tCO ₂ /MWh	SLSEA
Emission Reduction (ERy)	75.24	tCO ₂ /year	Calculated

$$\text{Emission Reduction (ERy)} = \text{EGy} \times \text{EFy} = 106.30 * 0.7079 = 75.24 \text{ tCO}_2$$

Summary of emission reduction calculation for Unit 02

Parameter	Value	Unit	Source
Project Capacity (Tc)	0.4913	MW	Calculated
Plant Factor	10.49	%	Calculated
Average Energy Output (EGy)	451.50	MWh/year	Calculated
Grid Emission Factor (EFy)	0.7079	tCO ₂ /MWh	SLSEA
Emission Reduction (ERy)	319.61	tCO ₂ /year	Calculated

$$\text{Emission Reduction (ERy)} = \text{EGy} \times \text{EFy} = 451.50 * 0.7079 = 319.61 \text{ tCO}_2$$

Summary of estimated emission reduction

Year	Estimated baseline emissions or removals (tCO ₂ e)	Estimated project emissions or removals (tCO ₂ e)	Estimated leakage emissions (tCO ₂ e)	Estimated net GHG emission reductions or removals (tCO ₂ e)
Year 2021	261	0	0	261
Year 2022	394	0	0	394
Year 2023	394	0	0	394
Year 2024	394	0	0	394
Year 2025	394	0	0	394
Year 2026	394	0	0	394
Year 2027	394	0	0	394
Total	2,625	0	0	2,625
Total number of crediting years	7			
Annual average over the crediting period	375			

7. Monitoring

7.1. Data and Parameters Available at Validation

The responsibilities of various personnel in the organization in keeping records as follows.

Real-Time monitoring software is available with General Manager from January 2021 onwards where Net plus system is installed and these details can be used for validation of electricity generation.

Since two sites are operated under Net Plus scheme relevant energy generation and exporting to the CEB grid can be verified by taking at monthly readings of generation levels and bills issued by the CEB.

The verifier will also be welcome to visit the power station sites to confirm the status of operations.

No leakage effects are applicable to the plant's operation as the equipment at the plant has not been moved from any other operational location.

Data / Parameter	Grid emission factor (EFy)
Data unit	tCO ₂ / MWh
Description	Grid emission factor calculated using methodological tool to calculate the emission factor for an electricity system.
Source of data	Table 9.5 and Figure 9.1: Grid Emission Factors of Sri Lanka by Energy balance 2021 published by Sustainable Energy Authority
Justification of choice of data or description of measurement methods and procedures applied	Baseline emission factor is calculated as combined margin, consisting of a combination of operating margin (OM) and build margin (BM) factors
Value applied	0.7079 tCO ₂ e/MWh
Purpose of data	Calculation of the emission reduction

7.2. Data and Parameters Monitored

Data / Parameter	Average Energy Output (EGy)
Data unit	MWh/Year
Description	Quantity of net electricity export to the grid as a result of the implementation of the proposed project activities in the year for the 2 projects.
Source of data	This parameter is continuously monitored and recorded. Monthly electricity export voucher issued by CEB.
Description of measurement methods and procedures to be applied	When net plus connection is available, all the generated electricity will be exported to the Grid. The export energy is measured continuously using Main meter and readings of meters shall be taken on monthly basis at appointed day and hour (time) by authorized officer and recorded in log book on monthly basis.

Frequency of monitoring/recording	Monthly
Value applied	Unit 01 – 106.30 Unit 02 – 451.50
Monitoring equipment	Energy meter
QA/QC procedures to be applied	Annually CEB crosscheck the data to ensure the amount of electricity export to grid
Purpose of data	Calculation of baseline emissions
Calculation method	Direct observation
Comments	The recorded data will be checked periodically by the relevant Manager or CE(M&E)

7.3. Monitoring Plan

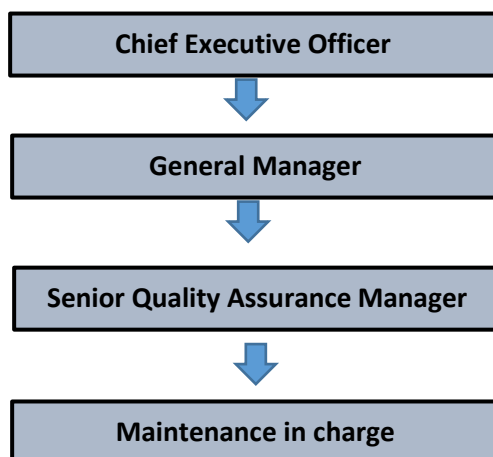
The inverters of Happy Fish Grid-connected Solar PV Bundle Project which was installed by SunPower Renewables (Pvt) Ltd are Fronius make; they have provided access to the online portal of Fronius for real-time monitoring of the system. Monthly production details are monitored, and the performance changes are identified and informed to the CEB to be rectified. In two sites, Maintenance In charge is responsible for maintaining the data records, ensuring completeness of data and reliability of data (calibration of equipment), recording for all the parameters as well as communicating with the General Manager. Required technical trainings and knowledge sharing sessions have conducted at the initial stage and plan to have more session's correspondingly to uplift the solar power generation and its basic technical knowledge. Also, the data is monitored/cross check using online platform. If an error or reduction in production is identified against the monthly production records taken from the online portal/ frequent generate details, Electrical Engineer will be notified to Global Sea Foods (Pvt) Ltd or CEB to take corrective actions accordingly.

Regarding the document control, the following procedures are followed: -

- Documents should be stored either electronically or physically in a location with controlled access.
- Only authorized people should be able to view or modify the documentation. A logbook of all the modifications should be kept.

- All records and payments should strictly follow the rules and regulation issued by Global Sea Foods (Pvt) Ltd.

Operational and Management Structure



At both sites, Maintenance in charge is responsible for the management of solar system.



Document Information

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Revisions

<i>Version</i>	<i>Date</i>	<i>Description</i>
01.0	21-08-2019	Initial issuance
02.0	02-02-2021	Editorial changes