PROJECT PROPOSAL DOCUMENT (PPD)

[for submission of application for renewable energy (solar and wind sources only) projects of capacity above two megawatts (2 MW) under the CNIS RE Scheme]

(Template)

for a proposed Renewable Energy (RE) Project of *[Insert Proposed Capacity]* MW_{ac}

Submitted by

[Insert name of the Industrial Customer (Project Developer)]

Ref No.: _____ *[Leave blank for CEB to fill]*

Date of submission: _____ *[Insert Date]*

PPD submitted before 27 February 2023 will not be considered.

DISCLAIMER

This Project Proposal Document (PPD) template is neither an agreement nor an offer by the CEB to the interested Industrial Customer (IC) or any other person. This PPD may include statements, which reflect various assumptions and assessments arrived at by the CEB, in relation to the IC intended renewable energy (RE) project. Such assumptions, assessments and statements do not purport to contain all the information that IC may require.

The assumptions, assessments, statements and information contained in this PPD may not be complete, accurate, adequate or correct. Therefore, the IC should conduct its own due diligence including but not limited to investigations and analysis and should check the accuracy, adequacy, correctness, reliability and completeness of the assumptions, assessments, statements and information contained in this PPD and obtain independent advice from appropriate sources.

Information provided in this PPD to the IC is on a wide range of matters, some of which depends upon interpretation of law. The information given is not an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. The CEB accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on law expressed herein.

The CEB makes no representation or warranty and shall have no liability to any person, including any IC, under any law, statute, rules or regulations, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this PPD or otherwise, including the accuracy, adequacy, correctness, completeness or reliability of the PPD and any assessment, assumption, statement or information contained therein or deemed to form part of this PPD.

The CEB also accepts no liability of any nature whether resulting from negligence or otherwise howsoever caused arising from reliance of any IC upon the statements contained in this PPD. The CEB may, in its absolute discretion but without being under any obligation to do so, update, amend or supplement the information, assessment or assumptions contained in this PPD.

This PPD request may be withdrawn or cancelled by the CEB at any time without assigning any reasons thereof. The CEB reserves the right at its complete discretion to reject the PPD submitted by the IC without assigning any reasons whatsoever.

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CHAPTER 1: INTRODUCTION

1.1. BACKGROUND

In the last national Budget Speech 2022-2023 (*ref:* Measures 194 to 199), Government has set forth its commitment to ensure carbon neutrality in the Industrial Sector by 2030. Within this overarching national goal, as mentioned in the Budget Speech *"a renewable energy transition framework is being implemented…"*

Pursuant to the Budget Speech, with a view to ensuring effective implementation of the enunciated Measures, a series of consultations with the Mauritius Export Association (MEXA), a key representative of the Industrial Sector, and the Association of Mauritius Manufacturers (AMM) was held at the level of the Ministry of Energy and Public Utilities.

The outcomes of the exchanges have resulted in the formalisation of the **CARBON NEUTRAL INDUSTRIAL SECTOR (CNIS) RENEWABLE ENERGY (RE) SCHEME**, which is presented in this information leaflet.

In the initial and current phase of the CNIS RE Scheme, the CEB will consider application for renewable energy (RE) projects **(solar and wind sources only[1])** from Industrial Customers, which are not operating in the Sugar and Energy Sectors, both in Mauritius and Rodrigues.

A total cumulated capacity of one hundred (100) megawatts (MW) has been earmarked for the present phase of the Scheme in Mauritius. For Rodrigues, the allocation of capacity will be based on the outcomes of the *Rodrigues Ile Verte* study.

In any case, the maximum capacity of a project, under the Scheme, should not exceed fifteen megawatts (15 MWac).

Interconnection of each RE project to the CEB grid shall strictly be made in accordance with the applicable legislations, codes, Interconnection Agreement (IA) and CEB's requirements which will be communicated during discussion(s) with each project developer.

The grid interconnection of the RE projects will be planned for commissioning in sequential order based on the effective date of completion of each project, as would be agreed by the parties. After the allocation of the 100 MW capacities, RE projects which could not be considered will be placed in a waiting list.

The CNIS RE SCHEME has been officially launched on 30 January 2023.

1.2. MAIN GOALS OF THE CNIS RE SCHEME

The CNIS RE Scheme is in line with Government strategy to support the Industrial Sector in its quest towards carbon neutrality by 2030 while pursuing and accelerating the decarbonisation of the national grid.

[1] The CEB will also consider hybrid renewable energy facility using solar and wind energy sources with battery energy storage system.

It is expected that the Scheme will speed up actions to meet the national target of 60% shares of RE in the electricity mix by 2030. The Scheme is coherent with Government Long-Term Energy Strategy and Renewable Energy Roadmap 2030.

The Scheme offers the opportunity to eligible Industrial Customers to engage in clean, renewable electricity production.

The Scheme will enable eligible Industrial Customers to produce their electricity requirements while benefitting the reliability of the CEB grid. The grid will provide the required support to mitigate power supply risks associated with intermittent renewable energy power generation.

Through this Scheme, CEB confirms its support to eligible Industrial Customers in the setting up of RE projects with the common objective of ensuring sustainable development of the national Power System.

1.3. KEY FEATURES OF THE CNIS RE SCHEME

The CNIS RE Scheme, **officially launched on 30 January 2023**, has been designed on the basis of key inputs from MEXA and AMM.

It will provide a viable option to Industrial Customers engaging in economic activities, other than sugar production and energy generation, to invest in renewable energy power generation (solar and wind sources only) for their own consumption.

Inherently, the Scheme has as objectives to provide Industrial Customers an option to mitigate the impact of electricity tariff increases and enabling them to switch to the use of sustainable and clean energy which will contribute to enhancing the appeal of their respective products.

Under the present phase of the Scheme, CEB plans to integrate a total cumulated capacity of **100 MW of renewable energy (solar and wind sources only) facilities (SSDG, MSDG and LSDG sizes[2])** into the Mauritian grid. All proposed RE projects, under this Scheme, will be subject to either a network impact assessment or a network survey**,** whichever would be warranted. Thereafter, the Industrial Customer (IC) will have to implement all the recommendations of the assessment/survey.

The following are key features of the CNIS RE Scheme are as follows: -

1. Each eligible Industrial Customer engaging in the Scheme will become a Prosumer, irrespective of the siting of its RE facility, which can be located on-the-site or off-the-site.

2. The Scheme will operate under the principle of off-setting of energy exported against energy imported from the grid with the mandatory application of an unbundled time-of-use tariff which the CEB will allocate.

3. The typical structure of the unbundled time-of-use tariff, which will be filed to the Utility Regulatory Authority for gazetting, applicable on a monthly basis, is shown in the table below.

[2] SSDG is Small-Scale Distributed Generation of capacity not exceeding 50 kW; MSDG is Medium-Scale Distributed Generation of capacity ranging from 50 kW to 2 MW; and LSDG is Large-Scale Distributed Generation of capacity above 2 MW.

- Until further notice, the Running Charge (energy import) rates for different time of the day shall have the differentials, whereby the evening (peak) rate shall be 48.2% higher than the day rate and the night rate shall be 35.4% below the evening (peak) rate.

Running (Energy) Charge	**Import Tariff**		**Export Tariff**
	Identifier	**Rate (Rs per kWh)**	**Rate (Rs per kWh)**
Day period (06.00 hrs to 18.00 hrs)	[A]	Maximum revised Running Charge rate of existing Tariff as per General Notice No. 1804 of 2022	Same as [A]
Evening (Peak) period (18.01 hrs to 21.00 hrs)	[B]	48.2 percent higher than [A]	Same as [A]
Night period (21.01 hrs to 05.59 hrs)	[C]	35.4 percent lower than [B]	Same as [C]
Other Charges[3]			
System Operator Service	Rs 0.040 per kWh consumed		-
Transmission Service	Rs 0.400 per kWh consumed		-
Single Buyer Service	Rs 0.015 per kWh consumed		-
Demand Charge	Rs 242 per kVA (apparent power supplied) subject to a minimum of 20 kVA		-
Service Charge	Rs 427.00 per month		-
The **Minimum Charge, Power Factor Clause, Security Deposits** and **Meter Rentals** shall be as per the General Notice No. 1804 of 2022 and shall be billed as per existing billing practice.			

- For the purpose of calculating the monthly bill, the total monthly electricity (kWh) consumption of the concerned Prosumer shall be calculated by the formula below: -

  C = P + I – E

  Where, **C** is the total monthly electricity (kWh) consumption;
  P is the total energy (kWh) production by the RE facility;
  I is the total energy (kWh) imported from CEB; and
  E is the total energy (kWh) exported to CEB.

4. The structure / rates of the above time-of-use (ToU) tariff shall be subject to future revision, as and when necessary. Nonetheless, as far as possible, consideration will be given to ensure that the Running Charge (energy import) rates for the different time of the day shall have the differentials whereby the evening (peak) rate shall be 48.2% higher than the day rate and the night rate shall be 35.4% below the evening (peak) rate.

[3] The Other Charges will be lumped into and appeared as a single-line item on the electricity bill.

5. The Prosumers will be allowed to install on-site or off-site RE facilities that can generate up to 150 percent of their annual electricity requirements. Each RE facility will be identified by a unique electricity contract account number assigned by CEB.

6. The rate for the purchase of incidental excess energy (if any), which shall be valid during the four initial years of the RE facility, shall be Rs 1.86 per kWh. After the initial four years, excess energy generated will be banked and rolled over to successive billing periods. However, the counter of the banked energy shall be reset to zero on 1st January every year thereafter.

7. **The deadline for the initiation of a RE Project under the Scheme has been fixed for June 2023**. A Letter of Commitment (LOC) as proof of the RE Project's implementation shall be provided by the Industrial Customer (IC) two weeks after the issue of the Letter of Intent (LOI).

8. Consideration will be given to eligible Industrial Customers willing to transfer their applications from other CEB RE Scheme operating under the gross-metering principle, especially the MSDG Scheme, to this Scheme subject to payment of a new processing fee.

9. The eligible Industrial Customers applying for this Scheme will have to implement energy efficiency (EE) measures identified following the completion of an energy audit exercise. Evidence(s) in relation to the implementation of EE measure(s) will have to be produced prior to the commissioning of the RE facility.

10. Under this Scheme, an eligible Industrial Customer will be allowed to install a renewable energy facility to meet its total annual electricity requirements. However, in any case, the maximum installed capacity per facility should not exceed fifteen (15) megawatts (MW). For RE facility of capacity above 2 MW, the CEB will provide the grid interconnection and network expansion requirements in due course.

11. The final capacity (size) of each RE facility shall be determined after the network impact assessment or network survey has been carried out by CEB and the declared electrical load of the active electricity contract account(s) linked to the intended solar PV system is effectively updated in the CEB information system. Upon the completion of NIA and/or NS, the IC will have to implement all the recommendations made by the CEB within given deadline(s).

12. Subject to the terms and conditions for the Scheme, each eligible IC should determine the capacity of its RE facility based on its expected annual electricity (kWh) demand, calculated on the basis of the latest consumption; **oversizing of the RE facility is not recommended.**

13. Although the Scheme will operate under the principle of energy offsetting, separate metering equipment will be required, especially in cases where the RE facilities would be located off-sites.

14. In compliance with the applicable Grid Code and the IA, every RE project under this Scheme shall be equipped with production and import-export meters.

15. The meters will be provided by the CEB. The latter will keep total administrative and technical control of the meters and their associated metering equipment. All related costs for metering shall be borne by the concerned Customers (Prosumers).

16. The location of the meters and metering equipment within the electrical setup of each concerned RE project will be determined during the mandatory network impact assessment or mandatory network survey, whichever would be warranted.

17. On a case-to-case basis, special consideration will be given to ensure the optimal solution for the metering of the RE project purposely to ensure best commercial practices and billing requirements.

Other key information on, including the key terms and conditions of, the CNIS RE Scheme are provided in the Information Leaflet on the Scheme, which is available on the CEB website http://ceb.mu .

1.4. PURPOSE OF THIS PPD TEMPLATE

The purpose of this PPD template is to help the IC (Project Developer) in preparing the full feasibility of its intended renewable energy (RE) project. **It should be used to submit application for RE project of capacity above 2 MW $_{ac}$.**

It is provided as a guide to the IC, who should use it to provide required data, information and documentations on its intended RE project. The data, information and documentations submitted in the PPD shall be used by CEB to verify compliance with requirements and thereof for the purpose of the relevant **Interconnection Agreement (IA)**.

Equally important; the duly prepared PPD will be a useful instrument for the IC to understand the venture, appraise the risks and values of the project including its investment, take decision and seek financing, use as a yardstick to monitor the project implementation progress and make timely adjustments, amongst others.

CHAPTER 2: INFORMATION AND INSTRUCTION TO THE INDUSTRIAL CUSTOMER

2.1. KEY REQUIREMENTS FROM THE INDUSTRIAL CUSTOMER

1. In preparing the PPD for the intended RE (solar and wind sources) project, the IC, as the Project Developer, is required to fill-in and submit the Annexes given in this PPD. Any modification to the content of the Annexes, except for fill-in required information, shall lead to the IC's project being put on hold until the modification is effectively corrected and the PPD resubmitted prior to the closing date of the Scheme, which shall be communicated in due course.

2. The IC should ensure that goods or contracting works or services or any payments to persons or entities in relation to its projects have no prohibitive liability. The IC shall declare any prohibitive liability in relation to the proposed project in the PPD. Where prohibitive liability exists, until it has not been cleared, the project will be put on hold.

3. For the purpose of developing its proposed project, the IC can enter into partnership with one or more business partners in the form a joint venture. However, the IC shall be the lead partner in the project.

4. For a joint venture, the IC should furnish to the CEB a Joint Venture Agreement stating clearly the roles and responsibilities of the partners. The JV entity shall be the Project Developer.

5. In the case of a Joint Venture (JV), all the partners shall be jointly and severally liable and shall nominate a representative who shall have the authority to conduct all business for and on behalf of any and all the partners of the JV at all times.

6. The IC should provide the contact details of its partner(s) and agent(s).

7. Submission of incorrect and/or concealing of information shall lead to the IC's project being put on hold until corrective action is effectively taken.

8. The IC is hereby informed of the following: -

(i) If a partner in the JV is under a declaration of ineligibility of any kind for any activity by the Republic of Mauritius in accordance with applicable laws at the date of the deadline for submitting the PPD, the CEB will put on hold the IC's proposal unless the said partner is removed from the JV.

(ii) Proposal from the IC having a partner in the JV appearing on the ineligibility lists of the African Development Bank, Asian Development Bank, European Bank for Reconstruction and Development, Inter-American Development Bank Group and World Bank Group will be put in abeyance until corrective measure is taken.

(iii) In case of default in the performance of previous project(s) by a partner of the JV with the CEB, until that partner is removed from the JV, the IC's Proposal will be put in abeyance.

9. Partners in the JV should not engage in or abet any corrupt or fraudulent practice, including the offering or giving, directly or indirectly of improper inducements, in order to influence the examination process or the execution of the project.

   Partners in the JV should not engage in any coercive practice threatening to harm, directly or indirectly, any person or his property to influence his participation in the project.

   If a partner in the JV offers or gives or agrees to give an inducement, the proposed project will be rejected and thereof, concerned authorities will be informed accordingly.

10. All the goods and related services to be procured under the proposed project may have their origin in any country subject to **point 2** above.

    The term "goods" includes commodities, raw material, machinery, equipment, industrial plants and "related services" which include services such as insurance.

    The term "origin" means the country where the goods have been mined, grown, cultivated, produced, manufactured or processed; or, through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its components.

2.2. CLARIFICATION ON THE PPD

An IC wishes to have any clarification on the PPD is requested to contact the CEB, in writing in the form set forth in **Annex 9,** at the following address:

The Renewable Energy & Strategic Projects Manager
Central Electricity Board
CEB Corporate Office,
Rue du Savoir,
Cyber City, Ebène
Republic of Mauritius
Fax (230) 454-7630/32
Email Address: querycnisscheme@ceb.mu

2.3. COST OF PREPARING THE PPD

The IC shall bear all its costs associated with or relating to the preparation and submission of its PPD including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by the CEB or any other costs incurred in connection with or relating to its proposal. All such costs and expenses will remain with the IC; the CEB shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by any IC in preparation or submission of the PPD, regardless of the conduct or outcomes of the CNIS RE Scheme.

2.4. LANGUAGE

The IC's submitted PPD, as well as all correspondence and documents, relating to the RE project, exchanged by the IC and the CEB, shall be in English. Supporting materials and printed literature that are part of the IC's PPD may be in another language provided they are accompanied by an accurate translation of the relevant passages in English.

2.5. THE IC'S SUBMITTED PPD VALIDITY

The PPD submitted by the IC shall remain valid for the whole period prior to the signing of the Interconnection Agreement (IA). In exceptional circumstances, prior to the expiry of the validity period, the CEB may request the IC to extend the period of validity for a specified additional period.

2.6. SUBMISSION OF THE PPD

The IC shall prepare one Original plus one (1) duplicate hard copy of its PPD and clearly marked them as the "ORIGINAL" and the "COPY". A soft copy of the IC's PPD shall also be submitted on a USB device. In the event of any discrepancy between the original and the copy, the original shall prevail.

2.7. SUBMISSION DATE OF THE PPD

The PPD, addressed to the CEB officer mentioned below, shall be submitted in a single envelope. The envelope should be properly sealed bearing the name and exact address of the IC and marked with the reference **"CEB-RESPD-PPD001: Project Proposal Document submitted under the CNIS RE Scheme."**

The IC should deliver the duly prepared PPD, accompanied with the bank cheque for the payment of the applicable processing fee (click to view applicable processing fee), as from **27 February 2023** at the address given hereunder: -

The Renewable Energy & Strategic Projects Manager
Central Electricity Board
CEB Corporate Office,
Rue du Savoir,
Cyber City, Ebène
Republic of Mauritius

PPD received before the above-mentioned date will not be considered and PDD which could not be processed after the allocation of the earmarked capacity for the CNIS RE Scheme will be placed in a waiting list.

2.8. VERIFICATION OF THE IC SUBMITTED PPD

The CEB will verify the IC's submitted PPD, in a stepwise order, as follows: -

- **Step 1:** Preliminary verification of completeness of the submitted PPD;
- **Step 2:** Verification of the eligibility and qualification of the IC (Project Developer);
- **Step 3:** Verification of the technical aspects of the Proposal as detailed in the PPD; and
- **Step 4:** Verification of the financial aspects of the Proposal as detailed in the PPD.

The verification process will be at the sole and unfettered discretion of the CEB. Based on the verification of the Proposal (proposed project), as detailed in the IC's PPD, the CEB may put on hold the Proposal until any identified discrepancy / reservation / deviation / non-compliance is duly rectified to the satisfaction of the CEB.

With regard to the aforesaid discretion, whatever the outcomes, the IC acknowledges that they shall have no claim whatsoever against the CEB, its directors, officers, or employees.

Any information contained in the PPD shall not in any way be construed as binding on the CEB, its agents, successors or assigns, but shall be binding against the IC if the application for the proposed RE project (facility) is subsequently accepted on the basis of the information provided.

The CEB reserves the right not to proceed with the signing of the relevant IA following the verification of the IC's submitted PPD.

For the purpose of the verification, if there is discrepancy between words and figures, the amount in words shall prevail.

2.8.1. Step 1: Preliminary Verification of the IC's submitted PPD

The IC's submitted PPD will be verified for completeness to confirm that all documents are duly filled, and all required documentation mentioned in the Checklist of Required Documents **(Annex 10)** have been provided. Non-submission of a **signed** Letter of Proposal **(Annex 1)** shall result into the IC's submitted PPD Document be kept in abeyance.

2.8.2. Step 2: Verification of the Project Developer's Eligibility and Qualification

The IC is required to meet all the requirements, detailed in the **Annexes 1 to 6 below**, to qualify for the next step of the submitted PPD's verification.

2.8.3. Step 3: Verification of the Technical Aspects of the Project

Based on the information provided in the **Annexes 7a, 7b and 7c,** whichever would be applicable**,** the CEB will carry out a verification of the technical aspects of the Project. A grid interconnection study will be made and the recommendations therein shall be communicated to the Project Developer. The latter shall timely address all the recommendations coherently, unconditionally and unreservedly.

2.8.4. Step 4: Examination of the Financial Aspects of the Project

On the basis of the information provided in the **Annex 8**, the CEB will carry out a verification of the financial aspects of the Project. The CEB may make recommendations to the Project Developer thereof. The latter shall timely address all the recommendations coherently, unconditionally and unreservedly.

The IC (Project Developer) commits to provide clarification, explanation and additional information regarding the financial aspects of the proposed RE Project to the CEB. In consideration thereof, the CEB may engage into negotiation on the scope for costs reduction.

The Project Developer is required to prepare resolutely and with all due care the given **Annexes**, which shall be inclusive parts of its PPD. All requested data and information supported by required documents, materials, etc. should be provided.

Missing materials, documents, data and/or information will lead to delay(s) in processing and, until not properly rectified, the PPD will be kept in abeyance. Incorrect, insufficient and/or incomplete

information from the Project Developer will also lead to keeping the PPD in abeyance. Until corrective measure(s) are duly taken, the CEB will not process further the Project's examination.

2.9. CEB's RIGHT

Further to the examination of the Project Developer's submitted PPD, the CEB reserves the right:

- To accept or reject the proposed PPD without thereby incurring any liability to the Project Developer;
- To exclude a partner from the JV whose performance in a previous public contract has been deficient or who has failed to deliver satisfactorily and has caused prejudice to the CEB with regard to contractual requirements. Thereof, the Project Developer can either pursue the Project implementation alone or propose another qualified partner; and
- In the event there are two or more Projects connecting on the same eligible substation, the CEB shall choose the most suitable outcome without thereby incurring any liability to the Project Developer.

2.10. LETTER OF INTENT (LOI)

Subsequent to the verification of the submitted PPD and negotiation, if required, the CEB will issue a **Letter of Intent (LOI)** to the IC (Project Developer). Within seven (7) days from the date of issue of the LOI, the Project Developer shall acknowledge the receipt of the LOI and send a signed copy of same agreeing to comply with the conditions set out therein and requesting for the finalization of the Interconnection Agreement (IA).

The **LOI will remain valid for a period of two months**, within which the Project Developer shall submit the duly filled-in signed IA to the CEB. The model IA will be available shortly for download on the CEB website. As from the date of the signing of the IA, the IC shall commit to commence the commercial operation of the RE facility **within a period of 17 months**; failing which relevant provisions of the Agreement shall be exercised.

In case the Project Developer will incorporate a Special Purpose Vehicle (SRE), it shall incorporate the SRE, within fifteen (15) days of the issuance of the LOI, under the Laws of the Republic of Mauritius. In case the SRE has already been incorporated prior to the deadline of the submission of the PPD, it shall be the entity responsible to execute the IA.

2.11. FINALIZATION OF THE INTERCONNECTION AGREEMENT (IA)

The Project Developer is advised to engage discussion(s) with the CEB with a view to completing and finalizing the relevant Sections and Schedules of the IA.

The Parties shall engage to sign the finalized the IA within the validity period of the LOI. If discussions are not proceeding on a reasonable schedule to ensure achievement of the in-service date requirement, the CEB may terminate discussion with the Project Developer and thereof put the Project on hold.

The Project Developer shall bear all costs incurred in relation to any negotiation and finalization of the IA including, but not limited to, those of professional advisors.

CHAPTER 3 – REQUIREMENTS FOR THE RE FACILITY

3.1. THE OUTPUT CAPACITY OF THE RENEWABLE ENERGY (RE) FACILITY

Under this Scheme, the CEB will accommodate into the grid only renewable energy generation **powered by solar or wind technologies**. The RE technologies can **include battery energy storage systems;** hence, hybrid RE facilities will be considered.

The net guaranteed output capacity of the proposed RE facility shall be as stated in this PPD subject to meeting all requirements of the relevant Grid Code, the CEB's recommendations, amongst others. The IC (Project Developer) is required to design the proposed RE Facility to ensure the agreed AC rating at the Point of Delivery (**POD**).

The proposed RE Facility shall be connected to the nearest 22 kV distribution line (eligible POD) or to a substation via a dedicated interconnection network, as would be determined by the CEB in accordance with the provisions of the IA.

The Project Developer, whether as a single entity or in the formation of JV, shall be responsible to design, supply, install, test and commission the RE Facility and accordingly supply the energy generated to the CEB grid at the POD for a contractual term of 20 years as per the terms and conditions set out in the model IA.

3.2. INTERCONNECTION TO THE CEB NETWORK

3.2.1. RE Facilities of Capacities above 4 MW and up to 10 MW

Electrical energy from a proposed RE facility of capacity in the range above 4 MW to 10 MW shall be delivered at the POD agreed in the IA. All physical goods and resources necessary to deliver the output of the RE Facility to the CEB's 22 kV Network and the cost of hardware, equipment, and engineering services needed to interconnect to the CEB network shall be the responsibility of the Project Developer.

The Project Developer shall also be responsible for securing land rights, permits, easements, and rights-of-way for the routing (to be agreed at the time of implementation) needed for the construction of the 22 kV Interconnection line from the POD up to the nearest eligible substation.

The construction of the 22 kV Interconnection line shall be the responsibility of the CEB. However, all expenses shall be covered by the Project Developer. The right-of-way for the construction of the 22 kV Interconnection line shall have to be secured by the Project Developer.

Following the commissioning of the proposed facility and after the Commercial Operation Date of the facility/project, the CEB shall take ownership of the dedicated 22 kV Interconnection line from the POD to the eligible substation and shall thereafter be responsible to operate and maintain these assets. For this purpose, all right-of-way and associated permits required for the construction of the electric line shall be in the name of the CEB.

The following indicative costs may be considered to prepare the cost estimation for the construction of the 22 kV interconnecting line: -

- **MUR 2.0 million per km** for overhead 150 mm^2 aluminium XLPE cables.
- **MUR 14.5 million per km** (excluding full width resurfacing) for underground cables three core 240 mm^2 aluminium XLPE.

The cost of the 22 kV incoming bays in the substation shall be shared equally between CEB and the Project Developer. The following budgetary estimates may be considered: -

- **MUR 2.2 M** for 22 kV indoor metalclad switchgear panel.
- **MUR 3.7 M** for 22 kV indoor Gas Insulated Switchgear (GIS)**.**

3.2.2. RE Facilities of Capacities above 10 MW

Electrical energy from a proposed RE Facility of capacity above 10 MW shall be delivered and metered at the Point of Delivery (POD) in the eligible substation.

The Project Developer shall be responsible to erect the 66 kV transmission line from the location of the proposed RE Facility up to the POD. All physical goods and resources necessary to deliver the output of the proposed RE Facility and the cost of hardware, equipment, and engineering services needed to interconnect to the CEB network at 66 kV are under the responsibility of the Project Developer.

The latter is similarly responsible for securing all land rights, permits, easements, and rights of way needed to construct, operate and maintain the 66 kV transmission line from the proposed RE Facility up to the POD.

The Project Promoter may consider the following budgetary estimate for the erection of an overhead single circuited pole-mounted 66 kV transmission line complete with fibre optics cable: -

- **MUR 3.5 million per km** for bare 366 mm^2 All Aluminium Alloy Conductor (AAAC).
- **MUR 3.0 million per km** for bare 150 mm^2 All Aluminium Alloy Conductor (AAAC).

The cost of 66 kV incoming bays in the substation shall be shared equally between CEB and the successful bidder. For the purpose of budgetary estimates, the following can be considered: -

- **MUR 11.2 M** for one 66 kV line bay in an outdoor Air Insulated Switchgear (AIS) Substation.
- **MUR 36 M** for one 66 kV line bay in an indoor Gas Insulated Switchgear (GIS) Substation.

3.3. ELIGIBLE SUBSTATION

When and where required, the IC (Project Developer) shall make capital contribution in the construction or extension of an eligible substation. Further discussion on this matter will be held after the submission of the IC's PPD.

3.4. COMMUNICATION SYSTEM

The Project Developer shall install communication equipment for a secured transfer of operating data, protection and control signals via fibre optics cables as per the specification set forth in the model IA. Relevant information in respect of the operation of the RE Facility will be transmitted in real-time to the CEB System Control Centre through the Remote Terminal Unit (RTU) available at the eligible substation.

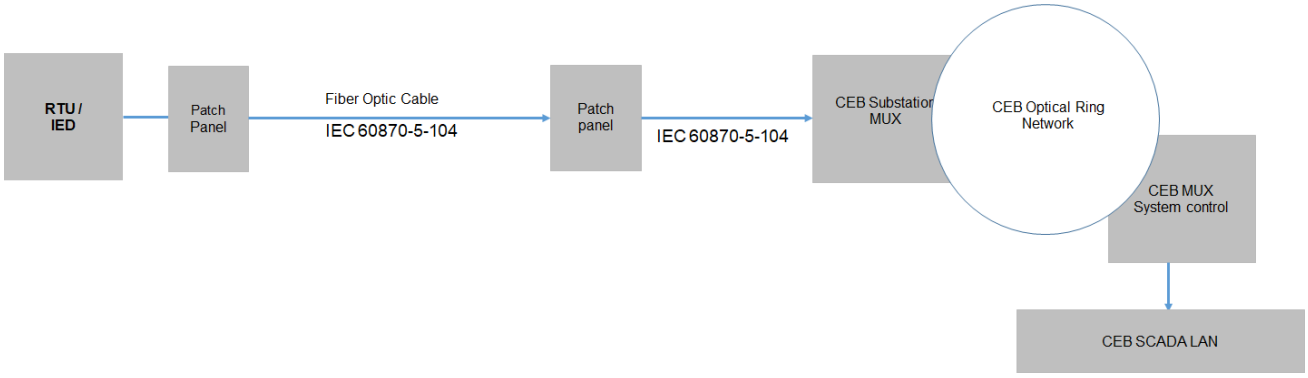

Figure 1: Communication System

The Project Developer shall bear the cost for the supply, installation, testing and commissioning of the fibre optic cables, communication panels and equipment on each side of the Interconnection Boundary (i.e., at both ends - the RE Facility and the eligible substation or any point).

The Project Developer shall be responsible for the maintenance and repair of its communication equipment installed in the CEB's substation, if any. The CEB will be responsible for the final connection from the RE Facility's communication panel, installed at the eligible substation, to the RTU.

The energy consumption of the communication equipment, installed by the Project Developer at the eligible substation, will be metered and billed at an appropriate tariff applicable to the Project Developer.

For cost estimate, the Project Developer may consider an amount of **MUR 175,000 per km** for deploying the fibre optic cables.

3.5. ACQUISITION OF REQUIRED PERMITS AND LICENCES

Following the signing of the IA, the Project Developer shall be responsible to acquire all necessary consents, clearances, permits and licences (including Environmental Impact Assessment, Generation Licence, as applicable) for the development of the proposed RE Facility within the prescribed time frame as stipulated in the model IA. The CEB may assist the Project Developer, wherever applicable, in securing required permits.

3.6. COMMISSIONING OF THE RE FACILITY

The scheduled Commercial Operation Date (COD) of the proposed RE Facility shall be within **8 months** from the Effective Date of the Interconnection Agreement (IA). The Project Developer will be required to achieve all Conditions Precedent within **9 months** as from the signing date of the IA.

3.7. POWER FORECASTING

In line with the agreed Interconnection Agreement (IA), RE facility of capacity of 4.0 MW and above shall be equipped with power forecasting equipment and tools with the objective to provide real-time forecasting to the CEB System Control Dispatch Centre in Curepipe.

The forecast power will enable the CEB to take actions to minimize the negative impact, if any, of the variabilities of the power generation outputs of the RE Facility in order to safeguarding the grid stability. The Project Developer is hereby informed that any deviation from the forecasted values outside the agreed limits, as elaborated in the Model IA, shall result into penalties.

3.8. ANNUAL CEILING FOR ENERGY EXPORT

The annual electrical energy production from the RE Facility shall be limited to the annual ceiling specified in the **Annex 7a** or **Annex 7b,** whichever will be applicable, of the IC's submitted PPD.

The energy sent-out (exported) at the POD shall be used to net off energy imported by the IC at the rates of the mandatory allocated unbundled time-of-use tariff, which has been specified in the Information Leaflet (read the details at https://ceb.mu/projects/carbon-neutral-industrial-sector-cnis-scheme) of the Scheme, and in accordance with the terms and conditions of the Scheme and the Interconnection Agreement (IA).

3.9. THE EXCESS ENERGY EXPORTED TARIFF

The rate for the purchase of incidental excess energy exported (net export), which shall be valid during the four initial years of the RE Facility, shall be Rs 1.86 per kWh. After the initial four years, excess energy generated will be banked and rolled over to successive billing periods during the year. However, the counter of the banked energy shall be reset to zero on 1st January every year.

3.10. MODEL INTERCONNECTION AGREEMENT (IA)

A copy of the two relevant model Interconnection Agreements (click to download), listed below, will made available in the webpage dedicated for the CNIS RE Scheme on the CEB website at https://ceb.mu in due course.

1. Interconnection Agreement (IA) for RE Facility of capacity ranging above 4.0 MW to 10 MW.
2. Interconnection Agreement (IA) for RE Facility of capacity above 10 MW.

The Industrial Customer (Project Developer) is strongly advised to take full cognizance of the content of the relevant IA for its intended RE Facility and thereof to prepare its PPD based on the terms and conditions provided therein. The terms and conditions of the relevant IA are non-negotiable.

CHAPTER 4: REQUIRED CONTENTS OF THE PPD

4.1. INTRODUCTION

The CEB is providing this template PPD to assist the Industrial Customer (IC) in the preparation of the proposal of its intended RE Project.

It is provided as a guide to the IC, who should use it to furnish required data, information and documentations on its intended RE Project. The data, information and documentations submitted in the PPD shall be used by CEB to examine compliance with requirements and thereof for the purpose of the relevant IA.

The IC's duly prepared PPD will be a useful instrument for the IC to understand the venture, appraise the risks and values of the project including its investment, take decision and seek financing, use as a yardstick to monitor the project implementation progress and make timely adjustments, amongst others.

4.2. CONTENTS OF THE IC' PPD

The IC (the Project Developer) is requested, at the minimum, to fill and submit the Tables and Forms provided in the **Annex 1 to Annex 9** given below and address effectively all the therein requested requirements.

Meeting the requirements, detailed in the **Annex 1 to Annex 9** below, will qualify the Project Developer for the next step of the CEB's acceptance of the IC's proposed RE Project.

The Project Developer with all due care should prepare the Annexes which shall be inclusive parts of its submitted PPD.

All requested data and information supported by required documents, materials, etc. should be provided. Missing materials, documents, data and/or information will lead to delay(s) in processing and, until not properly rectified, the proposed Project will be kept in abeyance.

Likewise, incorrect, insufficient and/or incomplete financial and non-financial information will also lead to the proposed Project be kept in abeyance. Until corrective measure(s) is/are duly taken, the CEB will not examine further the PPD.

Annex 1: Letter on Submission of Project Proposal Document

Date: _____

The Renewable Energy and Strategic Projects Manager
Central Electricity Board
CEB Corporate Office
Rue du Savoir,
Cybercity, Ebène
Republic of Mauritius

Dear Sir,

Project Proposal Document (PPD) submission under the
Carbon Neutral Industrial Sector (CNIS) Renewable Energy (RE) Scheme

We, the undersigned _____ *[Please insert name of the Project Developer],* confirm having read, examined and understood in detail the CNIS RE Scheme and hereby submit the Project Proposal Document (Proposal) of our proposed Renewable Energy (RE) Facility on this day of _____ *[Please insert date of submission]*.

We hereby confirm the following: -

1. The Proposal is being submitted by _____ [*Please insert name of the company of the Project Developer]* who is the Industrial Customer / the Lead Partner of the Joint Venture (JV) or intended JV comprising _____ *[Please state the name(s) of the JV partners]*.

2. The Proposal refers to the setting up of a RE Facility of _____ *[Please insert capacity of plant]* MW ac. The Facility will be located at _____ *[Please insert location of site]* and interconnected to the _____ *[Please insert name of eligible CEB's substation].*

3. The tariff for electricity services, off-setting of energy, remunerating excess energy exported, etc., applicable to the electricity contract account(s) linked to the RE Facility shall be the unbundled time-of-use tariff specified in the Information Leaflet of the CNIS RE Scheme. The said tariff shall be gazetted by the Utility Regulatory Authority (URA). The structure and rates, which shall be subject to revision as and when required, of the said tariff is presently exclusive of VAT. The said tariff will be applied for the whole duration of the Interconnection Agreement (IA).

4. We have read, examined and understood in detail the terms and conditions of the above-mentioned Scheme and the relevant model IA We agree and undertake to abide by all these terms and conditions. Our Proposal is consistent with all the requirements of submission as stated in the PPD or in any of the subsequent communications from the CEB, without any deviations and conditions whatsoever in the required format.

5. We give our unconditional acceptance to the content & requirements of the PPD and the IA attached thereto, issued by the CEB. We confirm and undertake that the IA shall be executed as would be required by the CEB and the IA shall be binding on us. Further, we confirm that the RE Facility shall be commissioned within the schedule stipulated in the PPD, i.e., within 17 months after the date of signature of the IA including 9 months for achievement of Effective Date of the IA.

6. We hereby unconditionally and irrevocably agree and accept that the decision made by the CEB in respect of any matter regarding or arising out of the implementation of the above-mentioned Scheme. We hereby expressly waive any and all claims in this respect.

7. The information submitted in our Proposal is complete, is strictly as per the requirements stipulated in the PPD and is correct to the best of our knowledge and understanding. We would be solely responsible for any errors or omissions in our Proposal.

8. We confirm that we have studied the provisions of the relevant Mauritian Laws and Regulations as required to enable us to submit this Proposal and execute the IA and development of the RE Facility.

9. We, including any subcontractors or manufacturers for any part of the RE Facility (RE Project), do not have any conflict of interest and have not been convicted for any offence involving fraud, corruption or dishonesty ex ante and ex post to the Project's implementation.

10. We are not included in the ineligibility lists of African Development Bank, Asian Development Bank, European Bank for Reconstruction and Development, Inter-American Development Bank Group and World Bank Group.

11. We meet and satisfy all the requirements laid down in the PPD.

12. We confirm that all terms and conditions of our Proposal shall remain valid up to the date of commissioning of the RE Facility and it shall remain binding upon us.

13. To the best of our knowledge, we have neither made any statement nor provided any information in this Proposal which is materially inaccurate or misleading. Further, all the confirmations, declarations and representations made in our Proposal are true and accurate. In case this is found to be incorrect, we agree that relevant provisions of the IA shall apply.

14. We shall complete the RE Project on time, as detailed in the given Gantt Chart *(provide a copy of the Gantt Chart in the PPD)*.

15. Contact Person

Details of the contact person are furnished as under:

Name	
Designation	
Company	
Address	
Phone Nos.	
Fax Nos.	
E-mail address	

Yours sincerely,

Name of Project Developer's Authorized Representative			
Position in the organization			
Signature			
Telephone numbers			
Email		**Date**	

Insert Company Seal

Annex 2: Format of the Joint Venture Agreement

THIS JOINT VENTURE AGREEMENT (the "Agreement"), made and entered into as of this __ day of _____, 20__, by and between _____ of_____ (hereinafter "_____") and _____ of ____ _____ (hereinafter"_____").

1. GENERAL PROVISIONS

1.1. Business function.
WHEREAS, [Party 1] is in the business of [business description],
WHEREAS, [Party 2] is in the business of [business description], and
WHEREAS, [Party 3], is in the business of [business description] [if applicable]

WHEREAS, the parties desire to establish between them a joint venture in order to collaborate in [DESCRIBE BUSINESS FUNCTION]

NOW, THEREFORE, in consideration of the foregoing, and of the mutual covenants and commitments set forth herein, the parties hereto agree as follows:

1.2. Term of the Agreement.
This Joint Venture shall commence on the date first above written and shall continue in existence until terminated, liquidated, or dissolved by law or as hereinafter provided.

2. GENERAL DEFINITIONS

The following comprise the general definitions of terms used in this Agreement:

2.1. Affiliate.
An Affiliate of an entity is a person that, directly or indirectly through one or more intermediaries, controls, is controlled by or is under common control of such entity.

2.2. Capital Contribution(s).
The capital contribution to the Joint Venture actually made by the parties, including property, cash and any additional capital contributions.

3. OBLIGATIONS OF THE JOINT VENTURE

_____ is responsible for all operations and decisions of the Joint Venture and will be compensated for providing various services.

4. ALLOCATIONS

4.1. Profits and Losses.
Commencing on the date hereof and ending on the termination of the business of the Joint Venture, all profits, losses and other allocations to the Joint Venture shall be allocated as follows at the conclusion of each fiscal year:

_____ %

_____ %

5. RIGHTS AND DUTIES OF THE JOINT VENTURE

5.1. Business of the Joint Venture.

_____ shall have full, exclusive and complete authority and discretion in the management and control of the business of the Joint Venture for the purposes herein stated and shall make all decisions affecting the business of the Joint Venture. As such, any action taken shall constitute the act of, and serve to bind, the Joint Venture. _____ shall manage and control the affairs of the Joint Venture to the best of its ability and shall use its best efforts to carry out the business of the Joint Venture.

6. AGREEMENTS WITH THIRD PARTIES AND WITH AFFILIATES OF THE JOINT VENTURES

6.1. Validity of Transactions.

Affiliates of the parties to this Agreement may be engaged to perform services for the Joint Venture. The validity of any transaction, agreement or payment involving the Joint Venture and any Affiliates of the parties to this Agreement otherwise permitted by the terms of this Agreement shall not be affected by reason of the relationship between them and such Affiliates or the approval of said transactions, agreement or payment.

6.2. Other Business of the Parties to this Agreement.

The parties to this Agreement and their respective Affiliates may have interests in businesses other than the Joint Venture business. The Joint Venture shall not have the right to the income or proceeds derived from such other business interests and, even if they are competitive with the Partnership business, such business interests shall not be deemed wrongful or improper.

7. PAYMENT OF EXPENSES

All expenses of the Joint Venture shall be paid by _____ and shall be reimbursed by the Joint Venture.

8. INDEMNIFICATION OF THE JOINT VENTURES

The parties to this Agreement shall have no liability to the other for any loss suffered which arises out of any action or inaction if, in good faith, it is determined that such course of conduct was in the best interests of the Joint Venture and such course of conduct did not constitute negligence or misconduct. The parties to this Agreement shall each be indemnified by the other against losses, judgments, liabilities, expenses and amounts paid in settlement of any claims sustained by it in connection with the Joint Venture.

9. DISSOLUTION

9.1. Events of the Joint Venture.

The Joint Venture shall be dissolved upon the happening of any of the following events:

a) The adjudication of bankruptcy, removal or insolvency of either of the parties.

b) The sale or other disposition, not including an exchange of all, or substantially all, of the Joint Venture assets.

c) Mutual agreement of the parties.

10. MISCELLANEOUS PROVISIONS

10.1. Books and Records.

The Joint Venture shall keep adequate books and records at its place of business, setting forth a true and accurate account of all business transactions arising out of and in connection with the conduct of the Joint Venture.

10.2. Validity.

In the event that any provision of this Agreement shall be held to be invalid, the same shall not affect in any respect whatsoever the validity of the remainder of this Agreement.

10.3. Integrated Agreement.

This Agreement constitutes the entire understanding and agreement among the parties hereto with respect to the subject matter hereof, and there are no agreements, understandings, restrictions or warranties among the parties other than those set forth herein provided for.

10.4. Headings.

The headings, titles and subtitles used in this Agreement are for ease of reference only and shall not control or affect the meaning or construction of any provision hereof.

10.5. Notices.

Except as may be otherwise specifically provided in this Agreement, all notices required or permitted here under shall be in writing and shall be deemed to be delivered when deposited in the mail, postage prepaid, certified or registered mail, return receipt requested, addressed to the parties at their respective addresses set forth in this Agreement or at such other addresses as may be subsequently specified by written notice.

10.6. Applicable Law and Venue.

This Agreement shall be construed and enforced under the laws of Mauritius.

10.7. Other Instruments.

The parties hereto covenant and agree that they will execute each such other and further instruments and documents as are or may become reasonably necessary or convenient to effectuate and carry out the purposes of this Agreement.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the day and year first above written.

Signed, sealed and delivered in the presence of:

For and behalf of JV partner 1 by: **(Signature)** **(Name)** **(Designation)** **(Seal)**	**For and behalf of JV partner 2 by:** **(Signature)** **(Name)** **(Designation)** **(Seal)**
In the presence of	
1)	**2)**

Annex 3: Format of Letter of Authorization

[The person that is designated by the Industrial Customer (Project Developer) to represent the latter in all matters pertaining to its Proposal shall be duly authorised by the highest ranked officer of the IC or a Board resolution of the IC, whichever would be applicable.]

The letter should clearly mention that the designated person is duly authorised to perform all tasks including but not limited to sign and submit the Proposal; to participate in all stages of the RE Facility (RE Project) development; to conduct correspondence for and on behalf of the Project Developer and thereby bind the Project Developer; and to execute the Interconnection Agreement (IA) and any other documents required to give effect to the outcome(s) of the implementation of the CNIS RE Scheme, etc.

The following information should be provided in the Letter of Authorization:

a) The name of the RE Project.

b) The name and designation of the authorised person and his/her position.

c) The validity period of the authorisation.

d) The roles of the person; this shall include but shall not be limited to:

   i) participation in all stages of the RE Project development and implementation;

   ii) conduct correspondence for and on behalf of the Project Developer and thereby bind the Project Developer;

   iii) sign relevant document;

   iv) execute the IA and any other documents required to give effect to the outcomes of the RE Project;

   v) attend meetings, conferences held by the CEB;

   vi) provide information, clarifications, etc. to the CEB or its advisors / consultants; and

   vii) communicate with the CEB or its advisors / consultants (if required).

The Chief Executive Officer (CEO) or Managing Director (MD) of the Industrial Customer (IC) or of the Joint Venture (JV) should sign the Letter of Authorization with the seal of the IC organisation properly inserted. The CEO or MD should provide a copy of its National Identity Card or Passport.

As would be applicable, an extract of the IC's Board Resolution, in favour of the person executing the Letter of Authorization for delegation of power should be produced.

Name of Project Developer's Authorized Representative			
Position in the organization			
Signature			
Telephone numbers			
Email		**Date**	

Insert Company Seal

Annex 4: Historical Contract Non-Performance, Pending Litigation and Litigation History

[The following table shall be filled in for the Project Developer's Technical Partner(s)]

Date: *[insert day, month, year]*

IC's or JV's Name: *[insert full name]*
Technical Partner(s) Name(s): *[insert full name]*
Project Name: *[insert the project name]*
Page [*insert page number***] of** *[insert total number]* **pages**

Non-Performed Contracts			
☐ Contract non-performance did not occur since 1st January *[insert year]*. ☐ Contract(s) not performed since 1st January *[insert year]*			
Year	**Non-performed portion of contract**	**Contract Identification**	**Total Contract Amount (current value, currency, exchange rate and US$ equivalent)**
[insert year]	*[insert amount and percentage]*	Contract Identification: *[indicate complete contract name/ number, and any other identification]* Name of Employer: *[insert full name]* Address of Employer: *[insert street/city/country]* Reason(s) for non-performance: *[indicate main reason(s)]*	*[insert amount]*
Pending Litigation			
Please tick as appropriate ☐ No pending litigation ☐ Pending litigation			

Name of Project Developer's Authorized Representative			
Position in the organization			
Signature			
Telephone numbers			
Email		**Date**	

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Year of dispute	Amount in dispute (currency)	Contract Identification	Total Contract Amount (currency), USD Equivalent (exchange rate)
[insert year]	*[insert amount]*	Contract Identification: [indicate complete contract name, number, and any other identification] Name of Employer: *[insert full name]* Address of Employer: *[insert street/city/country]* Matter in dispute: *[indicate main issues in dispute]* Party who initiated the dispute: *[indicate "Employer" or "Contractor"]* Status of dispute: *[Indicate if it is being treated by the Adjudicator, under Arbitration or being dealt with by the Judiciary]*	*[insert amount]*
Please tick as appropriate ☐ No litigation history. ☐ Litigation history occurred.			

Name of Project Developer's Authorized Representative			
Position in the organization			
Signature			
Telephone numbers			
Email		**Date**	

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Year of award	Outcome as percentage of Net Worth	Contract Identification	Total Contract Amount (currency), USD Equivalent (exchange rate)
[insert year]	*[insert percentage]*	Contract Identification: [indicate complete contract name, number, and any other identification] Name of Employer: *[insert full name]* Address of Employer: *[insert street/city/country]* Matter in dispute: *[indicate main issues in dispute]* Party who initiated the dispute: *[indicate "Employer" or "Contractor"]* Status of dispute: *[Indicate if it is being treated by the Adjudicator, under Arbitration or being dealt with by the Judiciary]*	*[insert amount]*

Name of Project Developer's Authorized Representative			
Position in the organization			
Signature			
Telephone numbers			
Email		**Date**	

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Annex 5A: Financial Situation and Performance

[The Industrial Customer (IC) is required to complete the tables below. The required data and information shall relate to the Partner(s) in the Project.]

Date: *[insert day, month, year]*

IC's or JV's Name: *[insert full name]*
JV's Partner(s) Name(s): *[insert full name]*
Project Name: *[insert the project name]*
Page [*insert page number***] of** *[insert total number]* **pages**

Financial Data for Previous 5 Years in MUR

	Year 1:	Year 2:	Year 3:	Year 4:	Year 5:
Information from Balance Sheet					
Total Assets					
Total Liabilities					
Net Worth					
Current Assets					
Current Liabilities					
Information from Income Statement					
Total Revenues					
Profits Before Taxes					
Profits After Taxes					
The CEB, if or as deemed necessary, will request the IC (Project Developer) to provide copies of financial statements (balance sheets including all related notes and income statements) for the last 5 years, as indicated above, including: - Please note the following: - ▪ All such documents reflect the financial situation of the Project Developer. ▪ Historic financial statements must be audited by a certified accountant. ▪ Historic financial statements must be complete, including all notes to the financial statements. ▪ Historic financial statements must correspond to accounting periods already completed and audited (no statements for partial periods shall be requested or accepted).					
Financial Ratios					
Current Ratio					
Debt Ratio					

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Financial Situation and Performance (continued)

[The Industrial Customer (IC), as referred as the Project Developer, is required to complete the tables below. ***The CEB, if or as deemed necessary, will request the Project Developer to provide hard copies as well as a soft copy (in Microsoft Excel format) of the below requested data.****]*

Key Financial Information extracted from Audited Accounts/Financial Statements

Financial data in the currency reported in the Audited Accounts/Financial Statements	**Historical Information**					**CEB Remarks**
	Year 1	**Year 2**	**Year 3**	**Last year**	**Current year**	
Statement of Financial Position (Information from Balance Sheet)						
A. Current Assets						
B. Current Liabilities						
Working capital ratio or current ratio (A/B)						
Quick ratio or Acid Test ratio (Current Asset net of stock / B)						
C. Total Assets						
D. Total Liabilities						
Net Worth (C-D)						
Cash in hand and at Bank						
Bank Overdrafts						
Other Liquid Assets						

Key Profitability Indicators in the currency reported in the Audited Accounts/Financial Statements	**Historical Information**					**CEB Remarks**
	Year 1	**Year 2**	**Year 3**	**Last year**	**Current year**	
Information from Income statement						
Turnover						
Profit /(Loss) Before Tax						
Taxation						
Net Profit /(Loss) After Tax						
(Net Profit After Tax) / (Turnover) x 100						
Project Developer certifies that information are true extract from Audited Accounts/Financial Statements						

Name of Project Developer's Authorized Representative			
Position in the organization			
Signature			
Telephone numbers			
Email		**Date**	

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Annex 5B: Financial Resources

[Each partner of the Industrial Customer (IC), also referred as the Project Developer, should fill-in required information in the following table]

The required information refers to the sources of financing, such as liquid assets, unencumbered real assets, lines of credit, and other financial means, net of current commitments, available to meet the total project cost of the proposed RE Facility**.**

No.	Source of Financing	Amount MUR/ (USD equivalent)
1		
2		
3		
4		

… add rows, if required …

Name of Project Developer's Authorized Representative			
Position in the organization			
Signature			
Telephone numbers			
Email		**Date**	

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Annex 6: Technical Capability

Part A - Experience in development of RE Facility (Project) of similar or higher capacity

Name of Technical Partner(s), Contractor(s), JV Partner(s) or Specialized Sub-Contractor(s): _____

Relevant Project Development Experience

Item	Particulars of the Project
Name of the Project	
Name, Address, and Phone No. of Client	
Scope of the Project	
Technology (Tracking or Fixed, etc.)	
Project Location	
Name of other partner(s) in the Project in case the said Project was executed in Joint Venture	
Project capacity delivered to grid (MW_{ac})	
Equipment supplied	
Total Project cost	
Project financing nature	
% value of operation & maintenance contract in relation to Project cost	
Execution date of commercial agreements	
Commercial operation date	
Current status of the Project	
Actual capacity utilisation factor	

… Please add columns if required …

Details of each Project (Please tick as appropriate)

No.	Criteria	Yes	No
1	Obtained all relevant permits including environmental clearances within the required timeline under the Project's agreements		
2	Finalized and executed the Interconnection Agreement (or equivalent documents) for the Project		
3	Achievement of financial close and commercial operation		
4	Has the Project Developer paid delay liquidated damages in reaching financial close and commercial operation? ***If yes, provide statement.***		

Consolidated project development experience over the past ten (10) years

Item	Particulars	Remarks
Number of Projects		
Total Project Capacity(MW)		

… add rows, if required …

Part B

The Industrial Customer (IC), also referred as the Project Developer, is required to submit list of projects demonstrating experience of Technical Partner(s), Contractor(s), JV Partner(s) or Specialized Sub-Contractor(s) in interconnection to Medium-Voltage Network (11 kV – 33 kV, or higher) for capacities up to 10 MW proposal and High Voltage Network (66 kV or above) for capacities above 10 MW proposal, in the last ten (10) years.

Power Generation Project	Interconnecting Voltage	Year	Roles of Project Developer, Technical Partner(s), Contractor(s), JV Partner(s) or Specialized Sub-Contractor(s)

… add rows, if required …

Name of Project Developer's Authorized Representative			
Position in the organization			
Signature			
Telephone numbers			
Email		**Date**	

Insert Company Seal

Annex 7a: Technical Data Sheet for RE (Solar Photovoltaic) Facility

A. Project Description

Project name	
Location of the Solar PV Facility	
Technology (Tracking or Fixed, etc.)	
Photovoltaic cell type (rating, etc)	
Name of manufacturer	
Place of manufacture	
Make of cells	

Efficiency of photovoltaic cells	%
Installed Capacity (Peak power, P_{max})	MW_{dc}
Total surface area of panels	m^2
Ratio of the total surface area used to the power generation (area of panels)	m^2/ MW
Maximum net power output at the Point of Delivery (P_{max_ac})	MW_{ac}
Maximum active power imported from the network (at the Point of Delivery)	kW
Ratio of the total area used and the estimated annual generation	m^2 /kWh
Annual Plant Degradation Factor	%

B. Location of Point of Delivery (POD)

Desired siting & GPS Coordinates *(provide a Google Map showing the location of the proposed RE Facility)*	
Name of CEB eligible substation *(Consult the CEB Renewable Energy and Strategic Projects Department)*	

Distance (d) from POD at the RE Facility to CEB Substation in km. *For RE Project of capacity up to 10 MW, the distance is from the RE Facility to the POD at the CEB Substation.* *(Please specify length as underground and/or overhead)*	km

C. Information on RE Project - *provide RE Module Datasheet as attachment*

Type, make and reference number of RE panels	Peak Power, Pmax (kW_{dc})	Technology used	Number of RE panels
Peak power installed (total installed capacity of panels)			kW_{dc}

The RE Panels should comply with the following IEC standards: -	Please confirm by writing Comply or Not Comply
IEC 62804 (part 1 or part 2 as applicable)	
IEC 61215 – 1	
IEC 61215-2	
IEC 61701	
IEC 61730-1	
IEC 61730-2	

The Project Developer should provide a copy of the IEC Certificates, issued by Independent Certification Authorities, confirming compliance of the PV panels which will be used in the Project.

D. Information on Interconnection Transformers

Make and Reference No.	Rated Apparent Power, S/kVA	No. of Transformers
Total transformer capacity		kVA
To specify the sequence for energizing the transformers, if more than one transformer is used	☐ One by one	
	☐ Simultaneously by closing the circuit breaker	

E. Step-Up Interconnection Power Transformer Specifications

The table below must be filled in for each type of transformer.

Transformer Specifications - *provide Datasheet as attachment*	
Make and reference No. of the transformer	
Rated Power	kVA
Rated Primary voltage	kV
Rated Secondary voltage	kV
% Impedance voltage	%
Inrush current in per-unit	p.u.
No load current	A
No load losses	kW
Load losses at rated power	kW

F. Step-Up Generation Transformers Specifications (after Inverters)

The table below must be filled in for each type of transformer.

Transformer Specifications - *Transformers Datasheet as attachment*	
Make and reference No. of the transformer	
Rated Power	kVA
Rated Primary voltage	kV
Rated Secondary voltage	kV
% Impedance voltage	%
Inrush current in per-unit	p.u.
No load current	A
No load losses	kW
Load losses at rated power	kW

G. Information on Inverter & Specifications - *provide Inverter Datasheet as attachment.*

Inverter details		
(Make and Reference No.)	**Rated Apparent Power, S/kVA**	**No. of inverters**
Total installed capacity of inverter		kVA

The tables below must be filled in for each type of inverter.

Inverter Specifications			
Rated output voltage(kV) Inverter efficiency at full load, E (%)		**Rated current**	☐ Single phase ☐ Three Phase
Total Harmonic Distortion (THD) (%)		**Connection Type**	
		Rated power factor	

The Inverters should comply with the following IEC standards: -	**Please confirm by writing Comply or Not Comply**
IEC 62109-1	
IEC 62109-2	
IEC 62920	
IEC 61683	
IEC 62116	
IEC 60529	

The Project Developer should provide a copy of the IEC Certificates, issued by Independent Certification Authorities, confirming compliance of the Inverters which will be used in the RE Project.

H. Losses and Peak Power

Peak Power Installed	(MW_{dc})
Estimated Peak Losses for DC Cables, Combiner Box, Inverter, LV Cables, step up transformers and Internal Medium Voltage network reticulation	%
Estimated Peak Losses for Transformer and Switchgear/Substation	%
Estimated Losses for Transmission Line	%
Expected Peak Power at Point of Delivery	(MW_{ac})

I. Summary

This table gives the different power ratings stated above for checking the consistency of information provided	
Installed generation capacity P_{max}	kVA
Total installed capacity of panels	kW_{dc}
Total installed capacity of interconnection transformers	kVA
Total installed capacity of power inverters	kVA

J. Estimated Annual Energy Export from the proposed RE (Solar PV) Facility

Year	Estimated Annual Energy Export (kWh)	Year	Estimated Annual Energy Export (kWh)
1		11	
2		12	
3		13	
4		14	
5		15	
6		16	
7		17	
8		18	
9		19	
10		20	

Name of Project Developer's Authorized Representative			
Position in the organization			
Signature			
Telephone numbers			
Email		**Date**	

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Annex 7b: Technical Data Sheet for RE (Wind) Project

A. Project Description

Project name		
Location of the Wind Farm		
Name of Wind Turbine Manufacturer		
Place/Country of origin of Wind Turbine		
Axis of Rotation (Horizontal / Vertical)		
Number of blades		
Blade Length		m
Unit Size of Wind Turbine Generator		MW
Cut In Speed		m/s
Cut Out Speed		m/s
Survival Wind Speed		m/s
Operating Temperature Range		^{0}C
Rated Output Voltage of Wind Turbine Generator		V
Total Installed Capacity of Wind Farm		MW
Type of Wind Turbine (Type 3 or 4)		
Pitch Regulated Control (Yes/No)		
Single or Variable Speed		
Hub Height		m
Rotor Diameter		m²
Total Wind Farm Site Area		m²
Maximum net power output at the Point of Delivery (P_{max_ac})		MW
Maximum active power imported from the network (at the Point of Delivery)		kW
Internal losses and consumption		kW
Estimated Annual Energy Generation		GWh (*)
Is there any Degradation on the Annual Energy Generation (Yes / No). If Yes Specify Annual % degradation		%
Noise Emissions	_____dB at Wind Farm Entrance | _____ dB at nearest Residents	
System Life		
Capacity Utilization Factor (%)		

**** To be substantiated through appropriate software modelling tool***

B. Location of Point of Delivery (POD)

Desired siting & GPS Coordinates *(provide a Google Map showing the location of the proposed RE Facility)*		
Name of CEB eligible substation *(Consult the CEB Renewable Energy and Strategic Projects Department)*		
Distance (d) from POD at the RE Facility to CEB Substation in km. *For RE Project of capacity up to 10 MW, the distance is from the RE Facility to the POD at the CEB Substation.* *(Please specify length as underground and/or overhead)*		km

C. Salient Information on Tower Structure

Tower Parameters	Specifications	
Type of Tower *(Tubular/lattice/hybrid)*		
Height		m
Material		
Surface Treatment		
Mode of access to Nacelle		

D. Salient Features of Generator

Generator Parameters	Specifications
Generator Type	
Rated Stator Voltage	V
Rated Frequency	Hz
Rated Power	kW
Number of Poles	
Degree of Protection (IP)	
Speed	rpm
Power Factor	
Efficiency	%
Type of Cooling	
Insulation Class	
Vibration Category	
List IEC Standards Compliance	

E. Information on Wind Turbine Unit Step-Up Transformer

Make and Reference No.	Rated Apparent Power (kVA)	No. of transformers
Total transformer capacity		kVA
To specify the sequence for energizing the transformers, if more than one transformer is used	☐ One by one ☐ Simultaneously by closing the circuit breaker	

F. Wind Turbine Unit Step Up Transformer Specifications

Make and Reference No. of the transformer	
Rated Power	kVA
Rated Primary voltage	kV
Rated Secondary voltage	kV
% Impedance voltage	
Inrush current in per-unit (Peak inrush current/ Rated Current)	p.u.
No load current	A
No load losses	kW
Load losses at rated power	kW

G. Step Up Interconnection Power Transformer Specifications

The table below must be filled in for each type of transformer.

Make and Reference No. of the transformer	
Rated Power	kVA
Rated Primary voltage	kV
Rated Secondary voltage	kV
% Impedance voltage	
Inrush current in per-unit	p.u.
No load current	A
No load losses	kW
Load losses at rated power	kW

H. Internal Losses and Peak Power

Wind Farm Peak Power Installed	MW
Estimated Peak Losses for LV Cables, step up transformers and Internal Medium Voltage network reticulation	%
Estimated Peak Losses for Transformers and Switchgear/Substation	%
Estimated Losses for Transmission Line	%
Expected Peak Power at Point of Delivery	MW

I. Summary

This table gives the different power ratings stated above for checking the consistency of information provided	
Installed generation capacity P_{max}	kVA
Total installed capacity of wind turbines	kW_{dc}
Total installed capacity of interconnection transformers	kVA

J. Estimated Annual Energy Export from the proposed RE (Wind) Facility

Year	Estimated Annual Energy Export (kWh)	Year	Estimated Annual Energy Export (kWh)
1		11	
2		12	
3		13	
4		14	
5		15	
6		16	
7		17	
8		18	
9		19	
10		20	

Name of Project Developer's Authorized Representative			
Position in the organization			
Signature			
Telephone numbers			
Email		**Date**	

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Annex 7c: Battery Energy Storage System (BESS) Information

[This form should be filled for hybrid (Solar with BESS or Wind with BESS) Project along with the Annex 7a or 7b, whichever is applicable.]

Location of the RE Project with BESS	

Maximum Rated Capacity	MW
Stored Energy Capacity	MWh
Response time of BESS	ms
Number of Cycles at 80% DOD	
Number of Cycles at 20% DOD	
Roundtrip Efficiency	%
Converter Efficiency	%
System Efficiency	%
Self-Discharge in nominal mode	%
Self-Discharge in OFF mode	%
Total Harmonic Disturbance	%
Black Start Capability	Yes/No
Power Factor Range	
Housing of the BESS	
Grid Support Functionalities (if any)	
Battery degradation profile	
Minimum state of health (SoH) warranted by the battery manufacturer	
Auxiliary load peak power	
Typical energy consumption	
Temperature derating of PCS/inverter	
Derating of PCS/inverter due to operating at non-unity power factor	
Battery chemistry type	
Cooling system (air/liquid)	

Name of Project Developer's Authorized Representative			
Position in the organization			
Signature			
Telephone numbers			
Email		**Date**	

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Note:

Given the intermittent characteristics of wind and solar power generation, the Project Developer will be required to provide a detailed and comprehensive description of the control philosophy

of its hybrid renewable energy system (solar PV or wind with BESS). The control philosophy shall comply with the typical power generation profile that the CEB will provide. The description should be supported by simulation results from relevant software and explanation on the rationale for the BESS sizing which would guarantee firm power output to the CEB's grid.

Annex 8: Estimated Financial & Costs Information

[Please complete the tables below.]

CAPITAL STRUCTURE

	%	million MUR	Name of Financing Entities
Equity			
Debt			
Total Project Capital Cost			

SHAREHOLDING STRUCTURE

Name of Shareholders	%	million MUR

… add row, if required …

DEBT FINANCING

Loan Principal Amount		
Loan Currency		
Loan Period (incl. any Moratorium) years		
Annual Interest Rate	%	*(State fixed or variable)*
Payment Frequency		*(e.g., monthly, semi-annually, annually)*
No. of Repayments		
Moratorium (Capital + Interest) years		

Name of Project Developer's Authorized Representative			
Position in the organization			
Signature			
Telephone numbers			
Email		**Date**	

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Breakdown of Project Costs

Item	Total Cost (MUR)
Feasibility study	
Development	
Engineering	
Site & building design	
Mechanical design	
Electrical design	
Civil design	
Tenders and contracting	
Construction supervision	
Other *(please specify)*	
Other (*please specify*)	
Power system	
Major components of the RE Facility such as photovoltaic panels with combiner boxes and DC cables, etc. *(Please specify)*	
Road construction	
Interconnection line	
Eligible Substation (RE Facility + CEB Incoming Bay including Communication, Protection, Control, etc.)	
Other *(Please specify)*	
Other *(Please specify)*	
Balance of system & miscellaneous	
Key components such as inverter, etc.	
Step-Up Transformer	
Collector support structure	
RE system installation	
Internal Distribution System & Equipment	
Building & yard construction	
Spare parts	
Transportation	
Training & commissioning	
Contingencies	
Other *(Please specify)*	
Total Project Costs	
Incentives/Grants (please specify):	

Breakdown of Annual O&M Costs

Item	Annual Total Cost (MUR)
Land lease & resource rental	
Property taxes	
Insurance premium	
Parts & labour	
Green House Gas (GHG) monitoring & verification	
General and administrative	
Other *(please specify)*	
Total O&M Costs	

Breakdown of Periodic Costs

Item	Annual Total Cost (MUR)	Interval
Periodic Costs:		
(please specify)		
(please specify)		
End of project life		

Breakdown of Income

Item	Annual Total Revenue (MUR)
Revenues:	
Savings on electricity payments	
Electricity export income	
GHG reduction income	
Other *(please specify)*	
Other *(please specify)*	

Name of Project Developer's Authorized Representative			
Position in the organization			
Signature			
Telephone numbers			
Email		**Date**	

Insert Company Seal

Annex 9: Request for Clarification

[All communications and requests for clarification in relation to this PPD must be addressed to, as indicated below, and must be in the format given below.]

Date: DD/MMM/YYYY

The Renewable Energy and Strategic Projects Manager
Central Electricity Board
CEB Corporate Office
Rue Du Savoir
Cybercity, Ebène
Republic of Mauritius

Email: querycnisscheme@ceb.mu

[Insert Project Developer (Industrial Customer) name] **Proposed** *[insert project capacity]* **RE Facility under the CNIS Renewable Energy (RE) Scheme**

Request No.	PPD Section, Page No.	Clarification Sought
1		
2		
3		

… add rows, if required …

Name of Project Developer's Authorized Representative			
Position in the organization			
Signature			
Telephone numbers			
Email		**Date**	

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Annex 10: Checklist of Required Documents

Documents	Please tick if provided or cross if not
Letter on Submission of Project Proposal Document (Annex 1)	
Joint Venture Agreement, if applicable (Annex 2)	
Letter delegating power to represent and act on behalf of the Project Developer (Annex 3) and copy of identification document (NIC or Passport) of the person giving the authorization and Board resolution as applicable	
Historical Contract Non-Performance, Pending Litigation and Litigation History (Annex 4)	
Financial Situation and Performance (Annex 5A)	
Financial Resources (Annex 5B)	
Technical Capability (Annex 6)	
Technical Data Sheet for RE Facility (Annex 7a or Annex 7b …)	
Financial & Costs Information (Annexes 8) with financial model in Microsoft Excel format	
Certificate of Incorporation and Shares Register	
Google Map showing location of the proposed RE Facility	
Copy of IEC Certificates for RE Facility key components	
Copy of RE Project key components (such as panels, inverters, etc.) Datasheets	
Copy of Land Reservation Commitment Letter, Lease Agreement or Title Deeds	
Project Gantt Chart	

Name of Project Developer's Authorized Representative			
Position in the organization			
Signature			
Telephone numbers			
Email		**Date**	

Important Notes:

I. Incorrect, misleading and/or incomplete information, missing documents, non-compliance to the CEB's requirements, amongst others, will lead to the proposed RE Project be put on hold, until effectively rectified.

II. Please ensure that all pages of your PPD are effectively signed and sealed with the Industrial Customer (Project Developer) official stamped**.**