

## **Request For Proposal (RFP)**

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# **Procurement of Renting the Rooftops of Selected Buildings of Northern Provincial Councils for implementation of Rooftops Solar PV Systems**

**Procurement No : NPC/Solar/01**



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## *Invitation to Bidders*

### **Procurement of Renting the Rooftops of Selected Buildings of Northern Provincial Council for Implementation of Rooftop Solar PV Systems**

1. Request for Proposals (RFP) are invited by the Chairman, Procurement Committee, Chief Secretary's Secretariat, Northern Provincial Council from reputed firms for renting selected buildings' roofs belong to Northern Provincial Council (NPC) for implementation of rooftop solar PV systems for 20 years.
2. The bid documents can be obtained from the Deputy Chief Secretary (Engineering Services), Northern Provincial Council from 12.05.2023 up to 01.06.2023 during normal working days between 9.00 a.m. and 2.30 p.m. by submitting the receipt obtained after payment of the non-refundable bid document fee of Sri Lankan Rupees Forty-Five Thousand (Rs. 45,000.00) to the Deputy Chief Secretary (Finance), of Northern Provincial Council, along with a letter of request. The reason should be mentioned as "Procurement of Renting the Rooftop of Selected buildings of Northern Provincial Councils for implementation of rooftop solar PV systems "
3. Bidding will be conducted through National Competitive Bidding (NCB) process.
4. Bidders should submit, an unconditional Pay-on-demand refundable bid security, the value of Sri Lankan Rupees 4,000,000.00 addressed to the "Chief Secretary, Northern Provincial Council" obtained from a reputed bank approved by Central Bank of Sri Lanka, or receipt after payment of a relevant amount to the Deputy Chief Secretary (Finance), of Northern Provincial Council Bid security validity period should be up to 30.01.2024. The reason should be mentioned as "Procurement of Renting the Rooftop of Selected buildings of Northern Provincial Councils for implementation of rooftop solar PV systems ".
5. Bids should be in two copies as original and duplicate in separate covers and both covers should be reinserted in a single cover, sealed and the caption "Procurement of Renting the Rooftop of Selected buildings of Northern Provincial Councils for implementation of rooftop solar PV systems " should be mentioned on the top of the left-hand corner of the outer envelope.
6. Duly perfected bids may either be sent by registered post addressed to "Chairman, Procurement Committee, Chief Secretary's Secretariat, Northern Provincial Council, A9 Road, Kaithady, Jaffna.", or handed over by hand to the Chief Secretary's office, Northern Provincial Council at the same address to receive at or before at 10.00 a.m. on 12.06.2023. All late bids will be rejected.
7. Bids will be opened immediately after the closing of bids at 10.00 a.m. on 12.06.2023 at the same place and the bidder or one of his authorized representatives will be permitted to be present at the time of opening of bids.
8. The Pre-bid meeting will be held at 10.00 a.m. on 23.05.2023 at Chief Secretary's Office, Northern Provincial Council, A9 Road, Kaithady, Jaffna.
9. Northern Provincial Council will not be responsible for any costs or expenses incurred by bidders in connection with the preparation of bids.
10. The Chairman of the Procurement Committee retains the right of the final decision regarding accepting or rejecting the bids.
11. Further details regarding the above bid can be obtained from the Chief Secretary's office, Northern Provincial Council, A9 Road, Kaithady, Jaffna. During normal office hours on weekdays. The contact number and web address are as follows, +94-21-2220840 and <https://np.gov.lk>

Chairman,  
Procurement Committee,  
Chief Secretary's Secretariat  
Northern Provincial Council,  
A9 Road  
Kaithady,  
Jaffna.

12.05.2023



# Procurement of Renting the Rooftop of Selected Buildings of Northern Provincial Council for Implementation of Rooftop Solar PV Systems

## Terms of Reference (ToR)

### 1. General

Northern Provincial Council invites bids from solar power investors in Sri Lanka to supply, install, operate and maintain the roof top solar PV systems in the buildings under the purview of the Northern Provincial Council.

Northern Provincial Council enters into a long-term contract referred as “Renting the Rooftops of Selected Buildings of Northern Provincial Council for Implementation of Rooftop Solar PV Systems” with the investor for supply and installation and maintenance of solar power systems. In addition to the Agreement between the Northern Provincial Council and the investor, there will be a lease specifying terms for access to the property (both for construction and maintenance).

### 2. Scope of the work

2.1. Northern Provincial Council is seeking a Lessee for the installation of solar power systems by Lessee’s cost for the sites mentioned in the Exhibit-A. Northern Provincial Council only will rent the roof after proper evaluation upon receiving a complete feasibility study for proposed location to ensure the locations are selected with technical justification.

- Evaluation of existing roofs for the suitability for the design, supply, installation and commissioning of solar power systems as per the IET wiring Regulation, 18th edition, section 712 for locations mentioned in Exhibit-A
- Civil works, Structural design and Installation of the Solar system including all associated wiring, Earthing and Protection Systems
- Testing, Commissioning and Maintenance of the system
- Liaison with CEB and connecting the systems to relevant Utility (CEB) under Net Plus Plus connection

Lessee should quote for the above Scope of Work and agree to sign an agreement to maintain the system for agreed period of 20 years for which the renting fee shall be as per the Form of Bid. The ownership of the system shall be transferred to the Northern Provincial Council at the end of 20 years and PV modules, mounting structures and other components installed by the Lessee shall be removed and cleaned without any damages to buildings at the end of 35 years by the Lessee on their cost.

2.2. The following are the services to be provided by the Lessee:

- 2.2.1. At the end of the term of 20 years providing a comprehensive technical training to the nominated officers by Northern Provincial Council for the Operation and Maintenance.
- 2.2.2. Upgrade and replace wherever necessary the required electromechanical components such as inverters at a reasonable cost on the request of Northern Provincial Council during the term of 21<sup>st</sup> year to end of 35<sup>th</sup> year.
- 2.2.3. Removing and Recycling of PV modules and mounting structures and other components at the end of 35 years by Lessee’s cost with reinstating of rooftops to ensure the original protection purpose unless replacemet solar pv systems are installed through different projects by lessor.

2.3. Supply and installation of solar power systems including but not limited to

- 2.3.1. Solar panels
- 2.3.2. Solar inverter
- 2.3.3. Power box
- 2.3.4. AC and DC cables

- 2.3.5. Surge and Lightning protection devices
- 2.3.6. Necessary earthing system (Earth resistance should be less than 10 ohms)
- 2.3.7. Necessary mounting structures with associated civil works
- 2.3.8. Remote monitoring facility including monthly energy generation
- 2.3.9. Alternative backup metering method (manual meter)

2.4. Province-wide Maintenance of solar PV systems

2.5. Interconnection with existing electricity provider (CEB) installation and commissioning of the system in compliance with their regulations and guidelines.

2.6. Investigation of Existing Roof structures and established strengthening system as per Structural Engineers' reports to suit the rentable agreed period if required

### **3. Potential Locations and System Capacities**

3.1. A list of potential locations (Exhibit-A) both Excel copy and pdf copy can be obtained from Northern Provincial Council. The bidder shall identify the area required for PV installation including any potential shading and propose the system with maximum capacity. Bidders shall provide the details of solar panel laying layout shall be submitted with the Form of Bid (See clause no. 12.1).

3.2. Bidder has to bid for all the sites as per Northern Provincial Council identified location list attached in Exhibit-A and other feasible locations identified in the pre survey. The locations listed in the Exhibit-A subject to change, with the possibility of new locations being included and some locations being removed. Bidder should take this into consideration when conducting the feasibility study and submitting proposals.

3.3. Bidder shall conduct a structural evaluation to determine whether the roof can sustain the load if required and shall submit to Northern Provincial Council prior to the installation of PV solar systems on roofs.

3.4. Solar panels should be mounted on a coated steel or aluminum structure with minimal impact on the architectural view of the building. Especially in coastal areas, panels should be mounted using proper structural materials and accessories.

### **4. System Category (Net Plus Plus) & Metering**

4.1. The bidder shall obtain the necessary approvals from the utility providers (CEB) for Net Plus Plus connection for every location.

4.2. The bidder shall obtain necessary Metering mechanism of Solar PV energy from utility provider.

4.3. All relevant certificates from utility provider shall be obtained by the Bidder. Complete system shall comply with the utility provider's requirements for Net Plus Plus facility and auto isolation feature shall be available when failure or malfunction of the CEB grid connection.

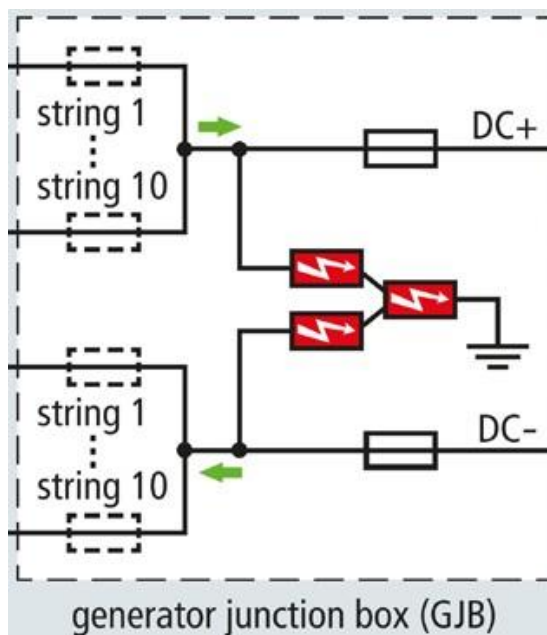
### **5. Investment**

5.1. Investment capital for the project shall be borne by the Lessee including registration fee, three phase meter fee etc. to CEB. Northern Provincial Council will not bear any cost for implementing of rooftop solar PV systems as per agreement.

- 5.2. The bidder shall complete a detailed design based on the data available and more precise measurements. The bidder's proposal should include detailed projections of all financial considerations.
- 5.3. The bidder is expected to take fully fledged responsibility of the solar system. Northern Provincial Council shall not pay any charges for fixing/replacing any spare parts/ consumables for whatsoever reason.
- 5.4. No extra charges shall be paid by Northern Provincial Council during the tenure of contract for any maintenance activity, repairs, replacement of spares etc.
- 5.5. Supply, installation and replacements of original spare parts including all consumables due to any breakdowns, thefts, voltage fluctuations, earthing related, electrical fluctuations, short circuit, rodent attacks, etc. or natural wear & tear or due to aging of solar system, should be completely handled by the Lessee, without any extra cost to Northern Provincial Council.
- 5.6. Preventive maintenance for solar systems to be carried out at least twice a year by the Lessee and itemized schedule to be submitted with the bid.
- 5.7. Replacement/Repairing cost of the Solar Systems due to any external activities beyond the control of Northern Provincial Council shall be borne by the Lessee. Nevertheless, all risk shall be borne by Lessee expected to installation for solar panel to building under the purview of Northern Provincial Council. All rectification cost shall be borne by the Lessee
- 5.8. Successful bidder should agree for following service levels.
  - 5.8.1. Response time (10 hours)
  - 5.8.2. Attending time of the fault (within 2 calendar days)
  - 5.8.3. Clearance time after the date of inform (within 5 calendar days)

## 6. Technical Specifications

- 6.1. All the equipment offered shall be high efficient, latest in model/versions & technology and currently in production and manufactured in 2022 or later. It shall be completed with standard components and accessories to perform the desired functions and confirm to the given specifications.
- 6.2. Solar Modules
  - 6.2.1. Bidder shall quote only **grade "A" and high efficient (efficiency is equal or greater than 20% at STC (standard test condition))** solar modules which manufactured in 2022 or later. Certification from reputed solar panel testing authority shall be submitted with the bid.
  - 6.2.2. Solar modules must be Single-crystal (Mono-crystalline Silicon) or Polycrystalline (Multi-crystalline Silicon) and against the ammonia corrosion.
- 6.3. Operating Conditions of the solar PV system
  - 6.3.1. Withstand the environment condition of Sri Lanka.
  - 6.3.2. All wiring, enclosures, and fixtures that are mounted outdoors shall withstand high humidity, corrosion, insect and dust intrusion etc.
  - 6.3.3. System Parameters of utility
  - 6.3.4. Nominal Voltage 230/400 V



- 6.3.5. No. of phases Single/3 phase 4 wire TT
- 6.3.6. System frequency 50 Hz  $\pm$  1%
- 6.3.7. Method of earthing – Solidly Earthed
- 6.3.8. Earth resistance value of individual PV Solar earth should be less than 10 $\Omega$ .
- 6.3.9. Solar earth should be connected to the building common earth and connecting elements should not be supported the Galvanic corrosion.

#### 6.4. AC side surge protective devices (SPDs)

- 6.4.1. Type-I (Class-B) SPDs or Type I & II combined SPDs shall be used. (Refer the PUSL guidelines-see clause 7.2)
- 6.4.2. Standards to be complied IEC-61643-I/II-2011, IEC-62305

#### 6.5. DC side surge protective devices (SPDs)

- 6.5.1. DC side of the inverter shall be protected with surge protective device (SPD) of IEC 61643-1 Type 2 (Class-C) “Low Voltage S Protective Devices”. (Refer the PUSL guide lines-see clause 7.2)
- 6.5.2. Standards to be complied IEC-61643, IEC-62305
- 6.5.3. The number and location of SPDs on the DC side depend on the length of the cables between the solar panels and inverter. The SPD should be installed in the vicinity of the inverter if the length is less than 10 meters. If it is greater than 10 meters, a second SDP is necessary and should be located in the box close to the solar panel.

6.6. The bidder shall furnish the requested technical details for the PV solar modules, Inverter and surge protective devices (AC side and DC side)- (**Annexure-2**)

## 7. Installation-Wiring, Isolation, Protection, Switching and Control

7.1. Bidder should ensure that the installation of PV system meets current standards and best practices.

7.2. Solar PV power supply system and electrical installation shall comply with IET wiring regulations 18<sup>th</sup> edition (BS7671:2018) and relevant Sri Lanka Standards (SLS). Installation should be complied with the PV solar installation guidelines given by the Public Utilities Commission of Sri Lanka (PUCSL).

7.3. AC side of the inverter shall be protected including circuit breaker.

- 7.4. Metallic supporting structures of solar panels shall be properly grounded using the common grounding system. Grounding shall comply to the relevant IEC standards
- 7.5. Complete system shall comply with the CEB requirements for Net Plus facility and auto isolation feature shall be available when failure or malfunction of the CEB grid connection.
- 7.6. Single line diagram of the installation including major components such as all protective devices, energy meters, isolation devices, invertors etc. shall be provided with bids for two stations (1) with generator and (2) without generator.

## 8. Other Requirements

- 8.1. Input breaker at CEB energy meter shall be provided according to the regulations stipulated by CEB.
- 8.2. Separate metering and monitoring facility (Energy Meter should have facility to get readings physically and remotely) shall be available for monitoring of kWh reading of PV System generation in addition to the Inverter energy meter.
- 8.3. Remote monitoring facility shall be provided (FOC) including with software and such data shall be able to export to Northern Provincial Council system for detailed analysis as per their request.
- 8.4. Lessee shall be responsible for repairing/replacing any material/item of the system in the event of damages due to any external activities, which are beyond the control of Northern Provincial Council.
- 8.5. Lessee shall ensure to install and maintain solar panels and other equipment without any damage to the existing roofing sheets, roof structure and other Northern Provincial Council properties. Lessee shall bare the repair/replacement cost if any damage is occurred.
- 8.6. If Lessee notices any roof damage, structural defects in a roof it shall bring to the notice of Northern Provincial Council in writing prior to start the installation of solar panels. Northern Provincial Council shall NOT take necessary actions to rectify such defects prior to installation of solar panels. it should be part of partial of the Lessee's scope of work. Lessee shall check the existing roof structures situation by their own structural qualified Engineers carry out the rectification accordingly with the concurrence of Northern Provincial Council
- 8.7. Lessee shall be responsible for supply and installation of access ladders for installation and maintenance purposes and water connections with several outlets at the roof for maintenance purposes.
- 8.8. All the repairs and defects on roof and roofing structures during the lease period shall be rectified by the Lessee
- 8.9. Supplier shall allow Northern Provincial Council to carry out unavoidable repair of in the building structure during solar panels in operation (by shutting down the system if necessary for an agreed time period by both parties) and any compensation payment for the shutdown period shall not be borne by Northern Provincial Council.
- 8.10. Labeling, safety and warning notices etc. at necessary places & labeling the components shall be done by the Lessee in neat manner. (Labeling should be according to the guide lines given by PUCSL guidelines-see clause 7.2)
- 8.11. Renting/Billing cycle shall be monthly, starting from 1st day to the last day of the particular month.
- 8.12. Northern Provincial Council not willing to allow build structures which are affecting to the aesthetic appearance of the building(s)
- 8.13. The bidder should provide insurance covers for a period of 20 years for equipment damage, malfunction which are not covered from equipment warranty as stated in the Condition of Lease Clause No 5.
- 8.14. Within 14 Days after receipt of the Letter of Acceptance, the successful bidder shall deliver to the lessor a Performance Security as stated in the Conditions of Lease

## 9. Site visits

9.1. It is required to visit respective sites by the bidder before the bidding and collect all necessary information required for bidding all his satisfaction. Before that supplier has to collect the site detail list from Northern Provincial Council if required further details. Northern Provincial Council will arrange the security permissions the bidders after requesting time program for visits.

## 10. Eligibility and Qualifications

10.1. Bids shall be submitted by any reputed Solar Manufacturer who has a registered business in Sri Lanka or any accredited local agent who takes fullest responsibility for the whole bid.

10.2. The local agent shall submit evidence of status, obligations, power of attorney and other documentary evidence that he is duly authorized and eligible to bid on behalf of the manufacturer.

10.3. Bidder shall submit previous experience of last two years in the investing for solar PV systems of similar nature or higher capacities in Sri Lanka with a minimum completion of 10MW in similar nature investment project.

10.4. Bidder shall submit the evidence of technical and financial capability of the bidder to perform the contract. Following certified copies are required.

10.4.1 Annual reports including audited financial statements for the last 3 years to show that the annual average turnover in the last three years shall be at least Rs. 400 Mn.

10.4.2 Evidence to adequacy of working capital of at least Rs.500 Mn.

10.4.3 Tax Registration Certificate.

10.5. Bidders are requested to submit Manufacturer's Authorization Certificate as per the Sample format given. Annexure – 4.

10.6. Certificate of Business Registration issued by a competent Authority for Companies/Provincial Registrar of Business in the relevant field shall be submitted.

10.7. Bidder shall submit a certified copy of the registration with Sri Lanka Sustainable Energy Authority (SLSEA) for solar system provider in Sri Lanka.

10.8. Bidder shall provide a detailed feasibility report with feasible capacity in each site in the given format in Annexure - 6 (Capacity Schedule) with the confirmation of agreed capacity by CEB

10.9. The minimum anticipated % of revenue to be proposed by the Bidder is 15. The bidder offering lesser % of revenue than 15 shall be rejected.

10.10. The lessor will evaluate and compare only the Bids determined to be substantially responsive and the lessor will determine for each bid the evaluated bid price by adjusting any corrections and price modifications offered by Bidder.

## 11. Implementation Schedule

- 11.1. Bidder shall submit an implementation schedule with the bid.
- 11.2. Bidders are required to submit the implementation schedule for offered PV solar sites complete within Eight (8) Months period after the date of LoA (Letter of Acceptance) issued by Northern Provincial Council

## 12. Documents to be submitted with the bids

- 12.1. Duly filled Schedules and annexures with signature and company seal
  - 12.1.1. Table 01 to 08 in Schedules
  - 12.1.2. Annex-2 Technical details of PV modules, Inverters and SPDs
  - 12.1.3. Annex-3 Previous supply records of the bidder within Sri Lanka
  - 12.1.4. Annex-4 Manufacturer's authorization
  - 12.1.5. Annex-5 Form of Bid & Bid Security
  - 12.1.6. Annex 6-Capacity Schedule
  - 12.1.7. Technical Specification Compliance Statement
  - 12.1.8. Annual reports including audited financial statements for the last 3 years
  - 12.1.9. Tax Registration Certificate
  - 12.1.10. Certificate of Business Registration
  - 12.1.11. Document requested in the clause 10.2
  - 12.1.12. Certified copy of the registration with Sri Lanka Sustainable Energy Authority (SLSEA) for solar system provider in Sri Lanka.
  - 12.1.13. Two separate single line diagrams as mentioned in clause 7.6
  - 12.1.14. Catalogues with technical literature, including data sheets of the proposed units (PV module, Inverter, SPDs, DC and AC cables, Breakers, Energy meters etc.)
  - 12.1.15. Comprehensive details of mounting arrangement and material of solar PV system
  - 12.1.16. Certificate from internationally recognized testing laboratory or organization to conform the quality of PV solar module, Inverter, Energy meters, SPDs, DC/AC cables and relevant accessories etc.
  - 12.1.17. Detailed schedules of the system for entire contract period
- 12.2. Bids will be rejected as non-responsive if documentary evidence under clauses 12.1.1 to 12.1.15 in proof of above has not been provided with bids.



**Exhibit - A**  
**Identified Buildings' location**

**Summary of Location List for the Survey for fitting of Roof Solar - Northern Province  
(Including School, Hospital and Government Institution under Provincial Administration)**

	Name of the Institution	No of Suitable Location / No of Suitable buildings for fitting or roof Solar										Total No of Location	Total No of Fitting/ Roof
		Jaffna		Kilinochchi		Mannar		Vavuniya		Mullaitivu			
		Location	Fitting/ Roof	Location	Fitting/ Roof	Location	Fitting /Roof	Location	Fitting/ Roof	Location	Fitting /Roof		
1	Dept.of Education, NP	91	134	26	36	34	46	34	47	27	39	212	302
2	Ministry of Education, NP	15	27	03	06	04	07	06	11	04	07	32	58
3	Dept. of Cooperative Development, NP	02	02	01	01	01	01	01	01	01	01	06	06
4	Dept. of Social Services, NP	03	18	01	01	01	01	01	01	01	01	07	22
5	Dept. of Industries, NP	04	06	00	00	01	01	01	01	00	00	06	08
6	Dept. of Probation	03	04	02	03	02	03	01	01	01	01	09	12
7	Dept. of Local Government, NP	19	19	05	05	06	06	06	06	04	04	40	40
8	Dept. of Road Development, NP	04	04	02	02	01	01	02	02	01	01	10	10
9	Dept. of Animal Production, NP	19	27	06	09	06	06	08	16	07	07	46	65
10	Dept. of Agriculture, NP	04	05	03	04	02	03	03	05	03	04	15	21
11	Dept. of Rural Development, NP	00	00	00	00	00	00	01	01	01	01	02	02
12	Dept. of Irrigation	02	02	03	07	00	00	00	00	03	09	08	18
13	Department of Buildings	02	02	02	02	01	01	01	01	01	01	07	07
14	Department of Indigenous Medicine	09	19	03	07	04	06	07	16	03	07	26	55
15	Department of Health Services	14	39	18	31	18	20	13	34	13	32	76	156
16	Department of Sports	00	00	00	00	00	00	00	00	01	01	01	01
17	Management Development Training Unit	00	00	01	02	00	00	00	00	00	00	01	02
18	Co-operative Employees Commission, NP	01	01	00	00	00	00	00	00	00	00	01	01
<b>Total</b>		<b>192</b>	<b>309</b>	<b>76</b>	<b>116</b>	<b>81</b>	<b>102</b>	<b>85</b>	<b>143</b>	<b>71</b>	<b>116</b>	<b>505</b>	<b>786</b>

**Location List for the Survey for fitting of Roof Solar - Northern Province**  
**(Including School, hospital and Government Institution under Provincial Administration)**

S. No	Name of the Institution	District	Ds Division	Address of the Institution	No of Suitable buildings for fitting or roof Solar	Contact No of the Institution (Officer in charge)
<b>1. Dept. of Education, NP (212 Schools)</b>						
1	Columbuthurai Hindu M.V.	Jaffna	Jaffna	Columputhurai Road Columputhurai	1	773527506
2	Sanmarka M.V	Jaffna	Jaffna	Clock Tower Road, Jaffna	1	776622186
3	St.Charles M.V.	Jaffna	Jaffna	Main Street, Jaffna	1	770879345
4	Vaitheeswara College	Jaffna	Jaffna	Sivan North Road, Jaffna	2	763889675
5	Passayoor St.Antonys Girls Vid.	Jaffna	Jaffna	Antonys Girls&Apos;&Apos; School, Passaiyoor	1	212217814
6	St.James Girls School	Jaffna	Jaffna	Main Street, Jaffna	1	771909284
7	Osmaniya College	Jaffna	Jaffna	Muslim College Road Jaffna	1	771990354
8	Kanagaratnam Maha Vidyalayam	Jaffna	Nallur	Navalar Roda Ariyalai Jaffna	2	766008451
9	Jaffna Hindu Ladies College	Jaffna	Nallur	Arasady Road , Kantharmadam, Jaffna.	2	774350455
10	Kokuvil Hindu College	Jaffna	Nallur	K.K.S Road , Kokuvil	2	776913285
11	Senguntha Hindu College	Jaffna	Nallur	Senguntha Road, Kalviyankadu.	1	776087497
12	Muthuthamby M.V.	Jaffna	Nallur	Kalasalai Road, Thirunelvly.	1	778089902
13	Kondavil Hindu College	Jaffna	Nallur	Kondavil West Kondavil	2	779953072
14	Kondavil Ramakrishna M.V	Jaffna	Nallur	Kondavil East, Kondavil.	1	768799294
15	Periyapulam M.V.	Jaffna	Nallur	K.K.S Road, Jaffna.	1	774168554
16	Drieberg College	Jaffna	Thenmaradchi (Chavakachcheri)	A9 Road,Chavakachcheri	2	776165573
17	Chavakachcheri Ladies College	Jaffna	Thenmaradchi (Chavakachcheri)	Post Office Road Chavakachcheri	2	772782165

S. No	Name of the Institution	District	Ds Division	Address of the Institution	No of Suitable buildings for fitting or roof Solar	Contact No of the Institution (Officer in charge)
18	Chandrapura Skandavarodaya Maha Vidyalam	Jaffna	Thenmaradchi (Chavakachcheri)	Madduvil Chavakachcheri	1	777968539
19	Meesalai Veerasingam Central College	Jaffna	Thenmaradchi (Chavakachcheri)	A9 Road, Meesalai North Meesalai	2	775455204
20	Navatkuli Mv	Jaffna	Thenmaradchi (Chavakachcheri)	Keratheevu Road ,Navatkuli ,Kaithady	1	776012991
21	Usan Ramanathan Mv	Jaffna	Thenmaradchi (Chavakachcheri)	Usan Mirusuvil	1	776648672
22	Varany Central College	Jaffna	Thenmaradchi (Chavakachcheri)	Point Pedro Road Varani	2	776544366
23	Meesalai Vigneswara Maha Vidyalayam	Jaffna	Thenmaradchi (Chavakachcheri)	Meesalai	1	775276772
24	Kodikamam Thirunavukkarasu Central College	Jaffna	Thenmaradchi (Chavakachcheri)	Kachchai Road, Kodikamam	2	779580815
25	Kaithady Muththukumaraswamy Mv	Jaffna	Thenmaradchi (Chavakachcheri)	Kaithady South Kaithady	1	776528673
26	Kachchai Maha Vidyalayam	Jaffna	Thenmaradchi (Chavakachcheri)	Palavi Kodikamam	1	766445280
27	Delft Maha V.	Jaffna	Delft	Ward No 10, Delft.	1	779561543
28	Delt Saivapiragasa V.	Jaffna	Delft	Ward No 04, Delft	1	776795971
29	Delft R.C.Ladies College	Jaffna	Delft	Ward No 09, Delft	1	774274995
30	St.Antonys College	Jaffna	Islands North (Kayts)	Main Street Kayts	2	779179876
31	Karampon Little Flowers Girls M.Vid	Jaffna	Islands North (Kayts)	Karampon, Kayts	1	766203056
32	Analaitivu Sathasiva M.V	Jaffna	Islands North (Kayts)	Ward No 5, Analaitivu.	1	772718984
33	Ampan A.M.T.M.S	Jaffna	Vadamaradchy East (Maruthankerny)	Ampan, Kudathanai.	1	777183712
34	Uduthurai Mv	Jaffna	Vadamaradchy East (Maruthankerny)	Uduthurai ,Thalaiyady.	2	777302367
35	Manatkadu R.C.T.M.S	Jaffna	Vadamaradchy East (Maruthankerny)	Manatkadu ,Kudathanai.	1	778947603

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36	Kaddaikadu Rctms	Jaffna	Vadamaradchy East (Maruthankerny)	Kaddaikadu ,Mulliyar.	1	775090004
37	Aliyawalai Cctms	Jaffna	Vadamaradchy East (Maruthankerny)	Aliyawalai ,	1	773699473
38	Chithampara College	Jaffna	Vadamaradchy North (Point Perdro)	Valvettiturai	2	776169936
39	Valvai Mahalir Maha Vidyalayam	Jaffna	Vadamaradchy North (Point Perdro)	East Road, Valvettiturai	1	779938967
40	Thondaimannaru Vmv	Jaffna	Vadamaradchy North (Point Perdro)	Thondaimannaru	1	778010212
41	Thumpalai Sivapragasa Mv	Jaffna	Vadamaradchy North (Point Perdro)	Thumpalai	1	776179000
42	Puttalai Maha Vidyalayam	Jaffna	Vadamaradchy North (Point Perdro)	Puttalai, Puloly South, Puloly	1	773480556
43	Vadamaradchy Hindu Girls College	Jaffna	Vadamaradchy North (Point Perdro)	Point Pedro	2	779597223
44	Hartley College	Jaffna	Vadamaradchy North (Point Perdro)	Point Pedro	2	775935865
45	Velautham Mv	Jaffna	Vadamaradchy North (Point Perdro)	Point Pedro	2	773599381
46	Uduppidy Girls College	Jaffna	Vadamaradchi South - West (Karaveddy)	Valvettithurai	2	779058198
47	Uduppidy A.M.College	Jaffna	Vadamaradchi South - West (Karaveddy)	Valvettithurai	2	771861928
48	Vigneswara College	Jaffna	Vadamaradchi South - West (Karaveddy)	Karaveddy	2	779228947
49	Gnanasariyar College	Jaffna	Vadamaradchi South - West (Karaveddy)	Karaveddy	1	776135342
50	Thevariyaali Hindu College	Jaffna	Vadamaradchi South - West (Karaveddy)	Karaveddy	1	776529036
51	Vadamaradchy Central Ladies College	Jaffna	Vadamaradchi South - West (Karaveddy)	Karaveddy	2	771362611

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52	Atchuvvely Central College	Jaffna	Valikamam East (Kopay)	Atchuvvely North Atchuvvely	2	771743517
53	Attiyar Hindu College	Jaffna	Valikamam East (Kopay)	Neervely South, Neervely	1	776214576
54	Idaikkadu M.V	Jaffna	Valikamam East (Kopay)	Iddaikadu Aychuvvely	2	776955441
55	Kopay Christian College	Jaffna	Valikamam East (Kopay)	Kopay North, Kopay	2	776062800
56	Puttur Sri Somaskanda College	Jaffna	Valikamam East (Kopay)	Puttur West Puttur	2	776142597
57	Urumpirai Hindu College	Jaffna	Valikamam East (Kopay)	Urumpirai East, Urumpirai.	2	776016279
58	St.Theresas Girls College	Jaffna	Valikamam East (Kopay)	Chankanai Road Atchuvvely East, Atchuvvely	1	768408801
59	Avarangal Nadaraja Ramalinga Vidyalaym	Jaffna	Valikamam East (Kopay)	Avarangal North, Puttur	1	774515964
60	Ramanathan College	Jaffna	Valikamam South (Uduvil)	Maruthanarmadam , Chunnakam	2	774824075
61	Skandarodaya College	Jaffna	Valikamam South (Uduvil)	Kandarodai, Chunnakam.	2	776157709
62	Erlalai Maha Vidyalayam	Jaffna	Valikamam South (Uduvil)	Erlalai Centre	1	776394780
63	Inuvil Hindu College	Jaffna	Valikamam South (Uduvil)	Inuvil South, Chunnakam	1	771840543
64	Inuvil Central College	Jaffna	Valikamam South (Uduvil)	K.K.S Road, Inuvil, Chunnakam	1	771940299
65	Vaddu Hindu College[Navodaya]	Jaffna	Valikamam West (Chankanai)	Sithankeney	2	776746733
66	Victoria College	Jaffna	Valikamam West (Chankanai)	Mainstreet , Chulipuram	2	778155675
67	Araly Saraswathy Maha Vidyalayam	Jaffna	Valikamam West (Chankanai)	Araly South, Vaddukodai	1	767003365
68	Chankanai Sivapragasa Maha Vidyalayam	Jaffna	Valikamam West (Chankanai)	Vallai Road, Chankanai	2	77906700
69	Pannagam Meihandan M.V.	Jaffna	Valikamam West (Chankanai)	Chulipuram	1	779116336

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70	Vaddu Central College	Jaffna	Valikamam West (Chankanai)	Vaddu South West, Vaddukodai	1	771451728
71	Pandateruppu Girls High School	Jaffna	Valikamam South-West (Sandilipay)	Pandateruppu.	2	779004108
72	Pandateruppu Hindu College	Jaffna	Valikamam South-West (Sandilipay)	Pandateruppu.	1	774749326
73	Ilavalai Convent M.V	Jaffna	Valikamam South-West (Sandilipay)	Ilavalai.	2	773579256
74	St.Henrys College	Jaffna	Valikamam South-West (Sandilipay)	Ilavalai.	2	770052332
75	Mathagal St.Joseph Mahavidyalayam	Jaffna	Valikamam South-West (Sandilipay)	Mathagal.	1	779597255
76	Manipay Ladies College	Jaffna	Valikamam South-West (Sandilipay)	Manipay.	2	771112105
77	Manipay Memorial English School	Jaffna	Valikamam South-West (Sandilipay)	Memorial Lane,Manipay.	1	779713014
78	Navaly Maha Vidyalayam	Jaffna	Valikamam South-West (Sandilipay)	Navaly South,Manipay.	1	770711479
79	Sandilipay Hindu College	Jaffna	Valikamam South-West (Sandilipay)	Sandilipay	1	779004276
80	Mahajana College	Jaffna	Valikamam North (Tellipalai)	Ampanai Tellipalai	2	777111730
81	Nadeswara College	Jaffna	Valikamam North (Tellipalai)	College Road, Kankesanthurai	2	776793797
82	Union College	Jaffna	Valikamam North (Tellipalai)	Tellipalai	2	776171397
83	Arunodaya College	Jaffna	Valikamam North (Tellipalai)	Alaveddy	2	770871996
84	Mallakam Maha Vidyalayam	Jaffna	Valikamam North (Tellipalai)	Mallakam	1	775458447
85	Ilavalai Meihandan Maha Vidyalayam	Jaffna	Valikamam North (Tellipalai)	Ilavalai	1	776284043

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86	Vayavilan Madya Maha Vidyalayam Navothya School	Jaffna	Valikamam North (Tellipalai)	Vayavilan	2	770638388
87	Nainativu M.V	Jaffna	Island South (Velanai)	Ward 5 Nainativu	1	778955983
88	Pungudutivu Maha V.	Jaffna	Island South (Velanai)	Ward 11, Pungudutivu.	2	757957105
89	Velanai Central College	Jaffna	Island South (Velanai)	Velanai Center Velanai	2	774242591
90	Karainagar Hindu College	Jaffna	Karainagar	Valanthalai, Karainagar	2	776544746
91	Yarlton College	Jaffna	Karainagar	Aladi, Karainagar	2	779004339
92	Kilinochchi Hindu College	Kilinochchi	Karachchi	Jeyanthinagar Kilinochchi	2	777403064
93	St. Therasas Girls College	Kilinochchi	Karachchi	Karadipokku, Kilinochchi	2	776242431
94	Vaddakkachchi Central College	Kilinochchi	Karachchi	Vaddakachchi, Kilinochchi	2	770755246
95	Ramanathapuram Maha Vidyalayam	Kilinochchi	Karachchi	Ramanathapuram , Kilinochchi	2	762606579
96	Akkarayan Maha Vidyalayam	Kilinochchi	Karachchi	Akkarayankulam ,Kilinochchi	2	774914176
97	Uruthirapuram Maha Vidyalayam	Kilinochchi	Karachchi	Division 10, Uruththirapuram ,Kilinochchi	1	779613004
98	Vannerikulam Maha Vidyalayam	Kilinochchi	Karachchi	Vannerykulam , Kilinochchi	1	772595473
99	Kanagapuram Maha Vidyalayam	Kilinochchi	Karachchi	Kanagapuram, Kilinochchi	1	773586551
100	Thiruvaiaru Maha Vidyalayam	Kilinochchi	Karachchi	Thiruvaiyaru , Kilinochchi	1	777201461
101	Kilinochchi Maha Vidyalayam	Kilinochchi	Karachchi	A-9, Wiloson Road Kilinochchi	2	774980775
102	Konavil Maha Vidyalayam	Kilinochchi	Karachchi	Konavil Road , Kilinochchi	1	770343699
103	Bharathy Vidyalayam	Kilinochchi	Karachchi	Barathypuram, Kilinochchi	2	777457148
104	Ramanathapuram East Gtms	Kilinochchi	Kandawali	Ramanathapuram, Kilinochchi	1	767666156
105	Muruganantha College	Kilinochchi	Kandawali	Murasumodai, Paranthan.	2	776948235
106	Paranthan Hmv	Kilinochchi	Kandawali	Kumarapuram, Paranthan	1	776774292
107	Kandawalai Mv	Kilinochchi	Kandawali	Kandawalai, Paranthan.	1	778836804
108	Tharmapuram Central College	Kilinochchi	Kandawali	Tharumapuram, Paranthan .	2	770898918

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109	Piramanthanaru Mv	Kilinochchi	Kandawali	Piramanthanaru, Tharumapuram.	1	773166051
110	Iyakkachchi Government Tamil Mixed School	Kilinochchi	Pallai (Pachchilaipallai)	Iyakkachchi Junsion, Pallai	1	770691538
111	Veravil Hindu Maha Vidyalajam	Kilinochchi	Poonakary	Veravil,Poonakary,Killinochchi	1	777148200
112	Poonagary Central College	Kilinochchi	Poonakary	Poonakary,Kilinochchi	2	773397209
113	Karukkaitivu Maha Vidyalajam	Kilinochchi	Poonakary	Karukkaitivu,Poonakary	1	776172295
114	Poonakary Nallur M.V	Kilinochchi	Poonakary	Nallur, Poonakary	1	774463373
115	Vinasiyodai G.T.M.S.	Kilinochchi	Poonakary	Vinasiyodai, Poonakary	1	775699140
116	Jeyapuram M.V.	Kilinochchi	Poonakary	Pallavaryankadu, Poonakary	1	770763949
117	Mukkompan Maha Vidyalayam	Kilinochchi	Poonakary	Mukkompan, Poonakary	1	776737535
118	Fatima M M V	Mannar	Mannar	Pesalai.	2	779267277
119	Uyilankulam R.C.T.M.S.	Mannar	Mannar	Uyilankulam, Mannar	1	779630791
120	Talaimannar Pier G T M S	Mannar	Mannar	Talaimannar.	2	776057004
121	St.Joseph Maha Vidyalayam	Mannar	Mannar	Thalvupadu Mannar.	1	770591126
122	St Lucias M V	Mannar	Mannar	Pallimunai Mannar.	1	774491096
123	Erukkalampiddy Mus. M M V	Mannar	Mannar	Erukkalampiddy.Mannar	2	717166338
124	Al-Mina M V	Mannar	Mannar	Tharapuram.	2	775123805
125	Erukkalampiddy Mahalir M V	Mannar	Mannar	Erukkalampiddy.	1	714484846
126	Puthukkudiyiruppu G M M S	Mannar	Mannar	Erukkalampiddy.	1	717614800
127	Karisal R.C.T.M.S.	Mannar	Mannar	Periya Karisal, Pesalai.	1	716793655
128	Gowriambal G T M S	Mannar	Mannar	Thiruketheecharam.	1	774745674
129	Thoddaveli G T M S	Mannar	Mannar Town	Thoddaveli.	1	779677555
130	Adampan M.M.V	Mannar	Manthai West	Nedunkandal, Adampan	2	774433491
131	Periyamadhu M.V.	Mannar	Manthai West	Periyamadhu, Mannar	2	767363615

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132	Andankulam Roman Catholic Tamil Maha Vidyalayam	Mannar	Manthai West	Andankulam	1	774744581
133	Illuppaikkadavai Tamil Maha Vidyalayam	Mannar	Manthai West	Illuppaikkadavai	2	779702798
134	Karunkandal R.C.T.M.V.	Mannar	Manthai West	Kathankulam, Vaddakandal	1	775271367
135	Thuyajoseph Vaz M.V.	Mannar	Manthai West	Vidaththaltivu	1	774433491
136	Thevenpidy R.C.T.M.V.	Mannar	Manthai West	Thevanpidy R.C.T.M.V	1	777424030
137	Arippu R C T M S	Mannar	Musali	Arippu, Chilawathurai	1	770879565
138	Pandaraveli G M M S	Mannar	Musali	Pandaraveli, Chilawathurai	1	771986064
139	Veppankulam G M M S	Mannar	Musali	Veppankulam, P.P.Potkeny	1	718194135
140	Chilawathurai G M M S	Mannar	Musali	Chilawathurai	1	714461139
141	Kondachchi Muslim Maha Vidyalayam	Mannar	Musali	Kondachchi, Chilawathurai	1	715562316
142	Al-Jasim Maha Vidyalayam	Mannar	Musali	Marichchikkaddy	1	717061399
143	St Anne S M. M. V.	Mannar	Nanattan	Vankalai	2	776999787
144	De La Salle College	Mannar	Nanattan	Nanattan	2	773114802
145	Murunkan Central College	Mannar	Nanattan	Murunkan	2	779057802
146	Parikarikandal G T M S	Mannar	Nanattan	Parikarikandal, Murunkan.	1	775957351
147	Kakkaiyankulam Mus M.V.	Mannar	Madhu	Iranai Illuppai Kulam, Vavuniya	2	776965105
148	St. Lourds Maha Vidyalayam	Mannar	Madhu	Periyakunhukulam	1	770261276
149	Periyapandivirichchan M.V.	Mannar	Madhu	Periya Pandivirichchan, Madhu.	2	775391836
150	Thadchanamaruthamadhu Maha Vidyalayam	Mannar	Madhu	Thadchannamaruthamadhu, Palampitty.	1	778925513
151	Kaddaiyadampan Roman Catholic Tamil Maha Vidyalayam	Mannar	Madhu	Madhuroad, Murunkan.	1	773574577

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152	Sirisumana Maha Viduhala	Vavuniya	Vavuniya South	Periya Ulukkulama , Vavuniya	1	702872540
153	Agrabodi Maha Vidyalaya	Vavuniya	Vavuniya South	Mamaduwa , Vavuniya	1	768335014
154	Parakum M.V.	Vavuniya	Vavuniya South	Erattaperiyakulama, Vavuniya	2	711436136
155	Vavuniya Hindu College	Vavuniya	Vavuniya	Kovil Puthukkulam, Vavuniya	1	779355344
156	Nelukkulam Kalaimagal M.V.	Vavuniya	Vavuniya	Nelukkulam, Vavuniya	2	779799677
157	Vavuniya Vipulanantha College	Vavuniya	Vavuniya	Pandarikulam, Vavuniya	2	777111642
158	Vavuniya Periyakomarasankulam Mahavidyalayam	Vavuniya	Vavuniya	Periyakomarasankulam, Vavuniya	2	771962122
159	Vavuniya Church Of Ceylon T.M.S.	Vavuniya	Vavuniya	Kudiyiruppu, Vavuniya	1	776058413
160	Saivapragasha Ladies College Vavuniya	Vavuniya	Vavuniya	Vavuniya	2	776945027
161	Poonthoddam Maha Vidyalayam	Vavuniya	Vavuniya	Poonthoddam, Vavuniya	1	776309667
162	Kanthapuram Vani Vidyalayam	Vavuniya	Vavuniya	Kanthapuram , Vavuniya	1	772003715
163	Al-Aksa Maha Vidyalayam	Vavuniya	Vavuniya	Salambaikulam, Poovarasankulam, Vavuniya	1	773655328
164	Poovarasankulam Maha Vidyalayam	Vavuniya	Vavuniya	Poovarasankulam, Vavuniya	2	771166566
165	Arafa Vidyalayam	Vavuniya	Vavuniya	Pulithariththa Puliyankulam, Vavuniya	1	777910792
166	Kanagarayankulam Maha Viddiyalayam	Vavuniya	Vavuniya North	Kanagarayankulam Vavuniya	2	776805458
167	Nedunkeny Maha Viddiyalayam	Vavuniya	Vavuniya North	Nedunkerny	2	775511863
168	Puliyankulam Hindu College	Vavuniya	Nedunkerny	Puliyankulam	1	776404386
169	Vikneswara Maha Viddiyalayam	Vavuniya	Vavuniya North	Sinnappoovarasankulam Puliyankulam	1	766779757
170	Sinnadampan Barathy Viddiyalayam	Vavuniya	Vavuniya North	Sinnadampan Nedunkerny	1	778176253
171	Olumadu Tamil Maha Vidyalayam	Vavuniya	Vavuniya North	Nedunkerny	1	777400807
172	Vavuniya Cheddikulam Maha Vidyalayam	Vavuniya	Vengalacheddiculam	Cheddikulam, Vavuniya	2	772018565

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173	Pavatkulam Ganeswara Maha Vidyalayam	Vavuniya	Vengalacheddiculam	Unit -4, Varikuddiyoor, Vavuniya	1	776529365
174	Andiyapuliyankulam G.M.M.S	Vavuniya	Vengalacheddiculam	Andiyapuliyankulam, Cheddikulam	1	776156092
175	Al-Hamiya Maha Vidyalayam	Vavuniya	Vengalacheddiculam	Neriyakulam, Vavuniya.	1	771539163
176	Vavuniya Al Iqbal Vidyalayam	Vavuniya	Vengalacheddiculam	Sooduventhapulavu, Vavuniya	2	776054364
177	Al - Ameen Mus M.V	Vavuniya	Vengalacheddiculam	Unit 2, Pavatkulam, Vavuniya	1	772511135
178	Dharul Uloom Muslim Maha Vidyalayam	Vavuniya	Vengalacheddiculam	Sinnachchippikkulam, Neriyakulam	1	771990354
179	Veerapuram Manivasakar M.V.	Vavuniya	Vengalacheddiculam	Neriyakulam	2	775779987
180	Omanthi Central College	Vavuniya	Vavuniya	Jaffna Road, Omanthai	2	773503396
181	Puthukkulam Maha Vid	Vavuniya	Vavuniya	Sasthirikoolankulam, Vavuniya	2	773086466
182	Cemamadu Shanmukanantha M.V	Vavuniya	Vavuniya	Cemamadu Vavuniya	1	779649556
183	Kalmdu Maha Vidy	Vavuniya	Vavuniya	Iranaiiluppikkulam, Vavuniya	1	772010058
184	Kovilpuliyankulam Muthtamil Vid	Vavuniya	Vavuniya	Iraniiluppikkulam Vavuniya	1	774848964
185	Tharanikkulam Ganesh Vid	Vavuniya	Vavuniya	Sasthirikoolankulam, Vavuniya	1	776670645
186	Mullaitivu Maha Vid.	Mullaitivu	Maritimepattu	Karachchikudiyiruppu, Mullaitivu.	2	773640388
187	Cemmalai Maha Vid.	Mullaitivu	Maritimepattu	Chemmalai, Alampil	2	776728308
188	Ampalavanpokkanai M.V.	Mullaitivu	Maritimepattu	Ampalavanpokkanai, Mulliwaikkal	1	772404832
189	Kumulamunai Maha Vid	Mullaitivu	Maritimepattu	Kumulamunai, Mulliyawalai	2	779167293
190	Vattappalai Maha Vid.	Mullaitivu	Maritimepattu	Vattappalai, Mulliyawalai	1	770503873
191	Alampil.R.C.Vid.	Mullaitivu	Maritimepattu	Alampil, Mullaitivu	1	775923536
192	Thanniyuru Muslim Maha Vidyalayam	Mullaitivu	Maritimepattu	Neeravippiddy, Mulliyawalai	1	773573037
193	Kokkuththoduvai Maha Vidyalayam	Mullaitivu	Maritimepattu	Kokkilai, Mullaitivu	1	775327366

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194	Pandiyankulam M.V	Mullaitivu	Manthai East	Pandiyankulam, Naddankandal.	2	772721513
195	Palinagar M.V	Mullaitivu	Manthai East	Palinagar, Vavunikkulam	2	764089664
196	Yogapuram Maha Vidyalayam	Mullaitivu	Thunukkai	Yogapuram,Mallavi	2	776694827
197	Koddaikaddiyakulam Maha Vidyalayam	Mullaitivu	Thunukkai	Koddaikaddiyakulam,Akkarayan	1	776172111
198	Iyankankulam Maha Vidyalayam	Mullaitivu	Thunukkai	Iyankankulam,Puththuedduvan	1	777112842
199	Puthukkudiyiruppu Central College	Mullaitivu	Puthukkudiyiruppu	Puthukkudiyiruppu, Mullaitivu.	2	772881895
200	Iranaipalai.R.C.Maha Vid.	Mullaitivu	Puthukkudiyiruppu	Iranaipalai, Puthukkudigirupu, Mullaitivu.	1	775922148
201	Suthanthirapuram Tamil Maha Vidyalayam	Mullaitivu	Puthukkudiyiruppu	Suthanthirapuram,Udayarkaddu, Mullaitivu.	1	778694178
202	Udayarkaddu Maha Vid.	Mullaitivu	Puthukkudiyiruppu	Udayarkaddu, Mullaitivu.	2	772882907
203	Vallipunam Maha Vidyalayam	Mullaitivu	Puthukkudiyiruppu	Vallipunam, Puthukkudiyiruppu, Mullaitivu.	1	772726508
204	Visuvamadu Maha Vid.	Mullaitivu	Puthukkudiyiruppu	Visvamadu, Mullaitivu.	2	775242515
205	Barathy Maha Vidyalayam	Mullaitivu	Puthukkudiyiruppu	Bharathy Maha Vidyalayam, Valluvarpuram, Visvamadu, Mullaitivu.	1	773434091
206	Thanduvan G T M S	Mullaitivu	Oddusuddan	Thanduvan,Nedunkerny.	1	777547538
207	Oddusuddan Maha Vidyalayam	Mullaitivu	Oddusuddan	Viththiyapuram,Oddusuddan.	2	773407243
208	Mankulam M.V	Mullaitivu	Oddusuddan	Kandy Road,Mankulam.	2	777031176
209	Pandaravanniyan Maha Vidyalayam	Mullaitivu	Oddusuddan	Katchilaimadu ,Oddusuddan.	1	776577914
210	Muththaiyankaddu Right Bank M.V.	Mullaitivu	Oddusuddan	Muthuvinayakapuram,Right Bank, Oddusuddan.	2	776556862
211	Kiriebbanwewa Vid.	Mullaitivu	Welioya	Kiriebbanwewa, Welioya	1	779104884
212	Ehatuguswewa Vid.	Mullaitivu	Welioya	Ehatuguswewa, Welioya	1	710955775

S. No	Name of the Institution	District	Ds Division	Address of the Institution	No of Suitable buildings for fitting or roof Solar	Contact No of the Institution (Officer in charge)
<b>2. Ministry of Education, NP (32 Nos.)</b>						
1	Ministry of Education	Jaffna	Nallur	Chemmani Road, Nallur, Jaffna	2	212222237
2	Provincial Department of Eucation	Jaffna	Nallur	Chemmani Road, Nallur, Jaffna	2	212242806
3	Zoanl Education Office, Jaffna	Jaffna	Nallur	Chemmani Road, Nallur, Jaffna	2	212229725
4	Zoanl Education Office, Valikamam	Jaffna	Valikamam South	Maruthanarmadam, Chunnakam	2	212243273
5	Zoanl Education Office, Vadamardchy	Jaffna	Vadamardchy North (Point Perdro)	Pointpedro	2	213215296
6	Zoanl Education Office, Thenmardchy	Jaffna	Thenmardchy South	Hensman Road, Chavakacheri	2	212270787
7	Zoanl Education Office, Islands	Jaffna	Islands South	Velainai. Islands.	2	212211519
8	Zoanl Education Office, Kilinochchi North	Kilinochchi	Pallai (Pachchilaipallai)	Paranthan Road, Kilinochchi	2	212282929
9	Zoanl Education Office, Kilinochchi South	Kilinochchi	Karaichchi	A9 Road, Kilinochchi	2	212283702
10	Zoanl Education Office, Mannar	Mannar	Mannar Town	Mannar	2	232223776
11	Zoanl Education Office, Madhu	Mannar	Manthai West	Andankulam, Mannar	2	232051199
12	Zoanl Education Office, Vavuniya North	Vavuniya	Omanthai	Kandy Road, Puliyankulam	2	242051913
13	Zoanl Education Office, Vavuniya South	Vavuniya	Vavuniya	Kandy Road, Vavuniya	2	242228146
14	Zoanl Education Office, Mullaitivu	Mullaitivu	Maritimepattu	Mankulam Road, Mullaitivu	2	212290016
15	Zoanl Education Office, Thunukkai	Mullaitivu	Manthai East	A9 Road, Mankulam	2	212060030
16	PICTEC Provincial Information Communication Tecnology Education Centre	Vavuniya	Vavuniya	Vauniya	2	777589797
17	Computer Resource Centre - Jaffna	Jaffna	Nallur	Chemmani Road, Nallur, Jaffna	2	212229725

S. No	Name of the Institution	District	Ds Division	Address of the Institution	No of Suitable buildings for fitting or roof Solar	Contact No of the Institution (Officer in charge)
18	Computer Resource Centre - Valikamam	Jaffna	Valikamam South	Maruthanarmadam, Chunnakam	2	212243273
19	Computer Resource Centre - Vadamaradchy	Jaffna	Vadamaradchy North (Point Perdro)	Pointpedro	2	213215296
20	Computer Resource Centre - Thenmaradchy	Jaffna	Thenmaradchy South	Hensman Road, Chavakacheri	2	212270787
21	Computer Resource Centre - Islands	Jaffna	Islands South	Velainai. Islands.	2	212211519
22	Computer Resource Centre - Kilinochchi South	Kilinochchi	Karaichchi	A9 Road, Kilinochchi	2	212283702
23	Computer Resource Centre - Madhu	Mannar	Manthai West	Andankulam, Mannar	2	232051199
24	Computer Resource Centre - Vavuniya North	Vavuniya	Omanthai	Kandy Road, Puliyanakulam	2	242051913
25	Computer Resource Centre - Vavuniya South	Vavuniya	Vavuniya Town	Kandy Road, Vavuniya	2	242228146
26	Computer Resource Centre - Thunukkai	Mullaitivu	Oddusuddan	A9 Road, Mankulam	2	212060030
27	Non formal Unit - Madhu	Mannar	Manthai West	Andankulam, Mannar	1	232051199
28	Non formal Unit - Vavuniya South	Vavuniya	Vavuniya	Kandy Road, Vavuniya	1	242228146
29	Non formal Unit - Thunukkai	Mullaitivu	Oddusuddan	A9 Road, Mankulam	1	212060030
30	Learning Material Development Management	Jaffna	Nallur	Aseervathappar Road, Nallur Jaffna	1	
31	STEPS	Jaffna	Jaffna	Jaffna	1	
32	Trilingual	Jaffna	Jaffna	Jaffna	1	
<b>3. Dept. of Cooperative Development, NP (06 Nos.)</b>						
1	Department of Cooperative Development, NP	Jaffna	Thenmaradchi	Elders' Home Complex, A9, Road, Kaithady	1	0212057064

S. No	Name of the Institution	District	Ds Division	Address of the Institution	No of Suitable buildings for fitting or roof Solar	Contact No of the Institution (Officer in charge)
2	Office of District Assistant Commissioner of Cooperative Development	Jaffna	Nallur	No. 857, KKS Road, Jaffna	1	0212222186
3	Office of District Assistant Commissioner of Cooperative Development	Kilinochchi	Karachchi	A9, Road, Depot Junction, Kilinochchi	1	0212283959
4	Office of District Assistant Commissioner of Cooperative Development	Mullaitivu	Maritimepattu	PWD Junction, Vannankulam	1	0212290011
5	Office of District Assistant Commissioner of Cooperative Development	Vavuniya	Vavuniya	Station View Road, Circular Road	1	0242222874
6	Office of District Assistant Commissioner of Cooperative Development	Mannar	Nanaddan	Semmantheevu, Murunkan	1	0232222156
<b>4. Dept. of Social Services, NP (07 Nos.)</b>						
1	Provincial Department of Social Services	Jaffna	Thenmaradchy	Elders Home Complex, Kaithady	2	213202464
2	State Elders Home, Kaithady	Jaffna	Thenmaradchy	Kandy Road, Kaithady, Jaffna	15	212057040
3	District Social Services Office - Jaffna	Jaffna	Kopay	Pootharmadam, Neervely South, Kopay.	1	212231713
4	District Social Services Office - Kilinochchi	Kilinochchi	Karaichchi	District Co-Operative Cultural Hall Lane, Karaichchi.	1	212283363
5	District Social Services Office - Mannar	Mannar	Mannar Town	Mathawachchi Road, Kalmoddai, Uyilankulam, Mannar.	1	232051465
6	District Social Services Office - Vavuniya	Vavuniya	Vavuniya Town	06 <sup>th</sup> Lane, Vairavar Kovil Road, Vairavapuliyanakulam, Vavuniya.	1	242226328
7	District Social Services Office - Mullaitivu	Mullaitivu	Maritimepattu	Kovilkudiyiruppu, Mullaitivu	1	212290392

S. No	Name of the Institution	District	Ds Division	Address of the Institution	No of Suitable buildings for fitting or roof Solar	Contact No of the Institution (Officer in charge)
<b>5. Dept. of Industries, NP (06 Nos.)</b>						
1	Department of Industries, Northern Province	Jaffna	Jaffna	Adappan Road, Main Street, Jaffna	1	742284176
2	Power loom & Dye Centre, Chunnakam	Jaffna	Uduvil	Power house Road, Chunnakam	2	777374925
3	Carpentry Centre, Kachchai	Jaffna	Thenmarachchi	Kachchai Road, Chavakachcheri	2	777374925
4	Power loom Centre, Point Pedro	Jaffna	Point Pedro	Thumpalai South, Point Pedro	1	777374925
5	Carpentry School, Vairavapuliyankulam	Vavuniya	Vavuniya Town	Station Road, Vairavapuliyankulam, Vavuniya	1	766756065
6	District Office, Mannar	Mannar	Mannar Town	Allazar Road, Mannar Town, Mannar	1	770492159
<b>6. Dept. of Probation (09 Nos.)</b>						
1	District Probation office	Kilinochchi	Karachchi	Court lane, Kandy Road, Kilinochchi	1	773707531
2	Safe House Office	Kilinochchi	Karachchi	Kanagapuram, Kilinochchi	2	773707531
3	Provincial head office	Jaffna	Jaffna	Meenadchchy Amman road, Pannai, Jaffna	1	212057102
4	Certified School Office	Jaffna	Kopay	Selvanayagapuram, Atchchuvvely.	2	776099866
5	Remand Home	Jaffna	Kopay	Selvanayagapuram, Atchchuvvely.	1	776099866
6	Safe House	Mannar	Mannar Town	Man street ujilankulam mannar	2	776333070
7	District Probation Office,	Mannar	Mannar Town	Thalaimannar Road, Sinnakadai.	1	776333070
8	District Probation Office,	Vavuniya	Vavunya	Horavappothanai Road, Vavuniya	1	779596076
9	District Probation Office,	Mullaitivu	Oddusuddan	Kandy road, Mankulam	1	770712077
<b>7. Dept. of Local Government, NP (40 Nos.)</b>						
1	Department of Local Government- NP	Jaffna	Thenmarachchi	Eiders Home complex A9 Road, Kaithady, Jaffna	1	021 221 3728
2	Office of the Assistant Commissioner of Local Government Jaffna	Jaffna	Jaffna	Sivan Pannai Road, Jaffna	1	021 222 2654

S. No	Name of the Institution	District	Ds Division	Address of the Institution	No of Suitable buildings for fitting or roof Solar	Contact No of the Institution (Officer in charge)
3	Office of the Assistant Commissioner of Local Government Kilinochchi	Kilinochchi	Kilinochchi	Kilinochchi Town, Kilinochchi	1	021 228 5270
4	Office of the Assistant Commissioner of Local Government Mullaitivu	Mullaitivu	Mullaitivu	Kovilkudiyiruppu, Mullaitivu	1	021 229 1120
5	Office of the Assistant Commissioner of Local Government Vavuniya	Vavuniya	Vavuniya	Park Road, Vavuniya	1	024 222 2849
6	Office of the Assistant Commissioner of Local Government Mannar	Mannar	Mannar	Mannar	1	023 222 2267
7	Municipal Council -Jaffna	Jaffna	Jaffna	Municipal Council -Jaffna	1	021 222 2275
8	Valvettithurai UC	Jaffna	Vadamarachchi North	Valvettithurai UC	1	021 226 3973
9	Pointpedro UC	Jaffna	Vadamaracchchi North	Pointpedro UC	1	021 226 3213
10	Chavakachchery UC	Jaffna	Thenmarachchi	Chavakachchery UC	1	021 227 0806
11	Chavakachchery PS	Jaffna	Thenmarachchi	Chavakachchery PS	1	021 205 0356
12	Vada.South West PS	Jaffna	Vadamarachchi South west	Vada.South West PS	1	021 226 3271
13	Point Pedro PS	Jaffna	Vadamarachchi North & Vadamarachchi East	Point Pedro Ps	1	021 226 3276
14	Delft PS	Jaffna	Delft	Delft PS	1	021 221 5211
15	Vali West PS	Jaffna	Chankanai	Vali West PS	1	021 225 0144
16	Vali East PS	Jaffna	Kopay	Vali East PS	1	021 205 8867
17	Vali South West PS	Jaffna	Sandilipay	Vali South West PS	1	021 225 6647
18	Vali North PS	Jaffna	Thellippalai	Vali North PS	1	021 224 1130
19	Vali South PS	Jaffna	Uduvil	Vali South PS	1	021 224 0017
20	Velanai PS	Jaffna	Velanai	Velanai PS	1	021 221 1506
21	Kayts PS	Jaffna	Kayts	Kayts PS	1	021 221 1626
22	Karainagar PS	Jaffna	Karainagar	Karainagar PS	1	021 225 1735

S. No	Name of the Institution	District	Ds Division	Address of the Institution	No of Suitable buildings for fitting or roof Solar	Contact No of the Institution (Officer in charge)
23	Nallur PS	Jaffna	Nallur	Nallur PS	1	021 222 2700
24	Karachchi PS	Kilinochchi	Karachchi	Karachchi PS	1	021 228 5761
25	Pachchilaipalli Ps	Kilinochchi	Pachchilaipalli	Pachchilaipalli Ps	1	024 324 3544
26	Poonagari PS	Kilinochchi	Poonagari	Poonagari PS	1	021 228 4572
27	Maritimepattu PS	Kilinochchi	Maritimepattu	Maritimepattu PS	1	021 229 0001
28	Puthukkudiyiruppu PS	Mullaitivu	Puthukkudiyiruppu	Puthukkudiyiruppu PS	1	021 206 1640
29	Thunukkai PS	Mullaitivu	Thunukkai	Thunukkai PS	1	021 228 3478
30	Manthai East PS	Mullaitivu	Manthai East	Manthai East PS	1	021 228 3475
31	Vavuniya UC	Vavuniya	Vavuniya	Vavuniya UC	1	024 222 2275
32	Vavuniya South Tamil PS	Vavuniya	Vavuniya	Vavuniya South Tamil PS	1	024 222 5737
33	Vavuniya North PS	Vavuniya	Vavuniya North	Vavuniya North PS	1	024 205 3014
34	Vengalachddekulam PS	Vavuniya	Vengalachddekulam	Vengalachddekulam PS	1	024 226 0914
35	Vavuniya South Singala PS	Vavuniya	Vavuniya South	Vavuniya South Singala PS	1	024 222 6427
36	Mannar UC	Mannar	Mannar Town	Mannar UC	1	023 222 2591
37	Mannar PS	Mannar	Mannar Town	Mannar PS	1	023 205 5002
38	Nanaddan PS	Mannar	Nanaddan	Nanaddan PS	1	023 205 1652
39	Manthai west PS	Mannar	Manthai west & Madhu	Manthai west PS	1	023 205 1854
40	Musali Ps	Mannar	Musali	Musali Ps	1	023 205 1672
<b>8. Dept. of Road Development, NP (10 Nos.)</b>						
1	Road Development Department,NP	Jaffna	Jaffna	No 657/1A,Beach Road, Gurunagar	1	776081299
2	Chief Engineer's Office, RDD,Jaffna	Jaffna	Jaffna	No 657/1,beach Road,Gurunagar	1	770195078
3	Chief Engineer's Office, RDD,Killinochchi	Killinochchi	Karachchi	155 <sup>th</sup> Mile Stone,Kandy Road, Killinochchi	1	777904820

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4	Chief Engineer's Office, RDD, Vavuniya	Vavuniya	Vavuniya	Kandy Road, Vavuniya	1	776525349
5	Executive Engineer's Office, RDD, Jaffna	Jaffna	Jaffna	No 657/1, beach Road, Gurunagar	1	768376386
6	Executive Engineer's Office, RDD, Pointpedro	Pointpedro	Pointpedro	APC Lane, Puloly, Pointpedro	1	712715200
7	Executive Engineer's Office, RDD, Killinochchi	Killinochchi	Karachchi	156 <sup>th</sup> Mile Stone, Kandy Road, Killinochchi	1	779772727
8	Executive Engineer's Office, RDD, Mullaitivu	Mullaitivu	Karaithuraipattu	PWD Road, Mullaitivu	1	772768298
9	Executive Engineer's Office, RDD, Mannar	Mannar	Mannar	St. Sebestiyar street, Mannar	1	779720230
10	Executive Engineer's Office, RDD, Vavuniya	Vavuniya	Vavuniya	Kandy Road, Vavuniya	1	776941306
<b>9. Dept. of Animal Production, NP (46 Nos.)</b>						
1	Multi Purpose Building, Dept. of AP&H, NP	Jaffna	Nallur	Palaly Road Thirunelvely	1	212212652
2	Artificial Insemination Centre, Thirunelvely	Jaffna	Nallur	Palaly Road Thirunelvely	1	212222173
3	Regional Livestock Farm, Dept. of AP&H, Atchvely	Jaffna	Kopay	Thoppu Road, Atchvely	9	212058419
4	Regional Livestock Farm, Dept. of AP&H, Poonthoddam	Vavuniya	Vavuniya	College Road, Poonthoddam	6	242223533
5	Regional Livestock Farm, Dept. of AP&H, Chekkadipulavu	Vavuniya	Vavuniya	Chekkadipulavu	1	243243648
6	Regional Training Centre. Dept. of AP&H, Ariviyalnagr	Kilinochchi	Karaichchi	Ariviyalnagr	4	212283774
7	Regional Training Centre. Dept. of AP&H, Vavuniya	Vavuniya	Vavuniya	College Road, Poonthoddam	4	243243648

S. No	Name of the Institution	District	Ds Division	Address of the Institution	No of Suitable buildings for fitting or roof Solar	Contact No of the Institution (Officer in charge)
8	Office of the Deputy Director, Dept of AP& H, Jaffna	Jaffna	Nallur	Palaly Road Thirunelvely	1	212222387
9	Office of the Deputy Director, Dept of AP& H, Kilinochchi	Kilinochchi	Karaichchi	155 <sup>th</sup> Mile post, A9 Road, Kilinochchi	1	212283774
10	Office of the Deputy Director, Dept of AP& H, Mullaitivu	Mullaitivu	Oddusuddan	A 9 Road, Mankulam	1	212060012
11	Office of the Deputy Director, Dept of AP& H, Vavuniya	Vavuniya	Vavuniya	Station Road, Vavuniya	1	242222219
12	Office of the Deputy Director, Dept of AP& H, Mannar	Mannar	Mannar	Uyilankulam	1	232051489
13	Govt. Veterinary Office, Jaffna	Jaffna	Jaffna	Pannai Road Jaffna	1	212217112
14	Govt. Veterinary Office, Nallur	Jaffna	Nallur	Palaly Road Thirunelvely	1	212052207
15	Govt. Veterinary Office, Kopay	Jaffna	Kopay	Poothar madam Kopay	1	212231284
16	Govt. Veterinary Office, Karaveddy	Jaffna	Karaveddy	Navalar madam, Karaveddy	1	212261124
17	Govt. Veterinary Office, Point Pedro	Jaffna	Point Pedro	Manthikai, Point Pedro	1	212263270
18	Govt. Veterinary Office, Maruthankery	Jaffna	Maruthankery	Maruthankery	1	212260529
19	Govt. Veterinary Office, Chavakachchery	Jaffna	Chavakachchery	Ramalingam Road, Chavakachchery	1	213151414
20	Govt. Veterinary Office, Uduvil	Jaffna	Uduvil	Puttur Road Chunnakam	1	212242363
21	Govt. Veterinary Office, Thellipali	Jaffna	Thellipalai	Kovilpulam Thellipalai	1	212059890
22	Govt. Veterinary Office, Sandilipay	Jaffna	Sandilipay	Pandatharippu, Sandilipay	1	212051991
23	Govt. Veterinary Office, Vaddukoddi	Jaffna	Vaddukoddi	Mavady Junction Vaddukoddi	1	212251022
24	Govt. Veterinary Office, Karainagar	Jaffna	Karainagar	Vilanai, Kalapoomi, Karainagar	1	212251990
25	Govt. Veterinary Office, Velanai	Jaffna	Velanai	Vankalavadi, Velanai	1	212211538
26	Govt. Veterinary Office, Kayts	Jaffna	Kayts	Kayts	1	212213940

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27	Govt. Veterinary Office, Delft	Jaffna	Delft	Delft	1	213003128
28	Govt. Veterinary Office, Kilinochchi	Kilinochchi	Karaichchi	Kanesapuram Kilinochchi	1	212280033
29	Govt. Veterinary Office, Poonakary	Kilinochchi	Poonakary	Vadiyady Poonakary	1	212060888
30	Govt. Veterinary Office, Kandavalai	Kilinochchi	Kandavalai	Puliyampokkanai Junction Kandavalai	1	212060403
31	Govt. Veterinary Office, Pachchilaipalli	Kilinochchi	Pachchilaipalli	Pachchilaipalli	1	212283008
32	Govt. Veterinary Office, Thunukai	Mullaitivu	Thunukai	Mallavi	1	212060788
33	Govt. Veterinary Office, Manthai East	Mullaitivu	Manthai East	Manthai East	1	213204827
34	Govt. Veterinary Office, Oddusuddan	Mullaitivu	Oddusuddan	Oddusuddan	1	212061788
35	Govt. Veterinary Office, Mullaitivu	Mullaitivu	Mullaitivu	Neeravipiddi, Mulliyaalai	1	212061488
36	Govt. Veterinary Office, Puthukudiyirupu	Mullaitivu	Puthukudiyiruppu	Iranaipalai Road Puthukudiyiruppu	1	212061688
37	Govt. Veterinary Office, Welioya	Mullaitivu	Welioya	Welioya	1	213204826
38	Govt. Veterinary Office, Vavuniya	Vavuniya	Vavuniya	Station Road, Vavuniya	1	242222119
39	Govt. Veterinary Office, Vavuniya south	Vavuniya	Vavuniya south	Kandy Road, Eeraperiyakulam	1	242052261
40	Govt. Veterinary Office, Nainamadu	Vavuniya	Nainamadu	Nedunkerny Road Nainamadu	1	243243649
41	Govt. Veterinary Office, Cheddikulam	Vavuniya	Cheddikulam	Nedunkerny Road Cheddikulam	1	242260973
42	Govt. Veterinary Office, Mannar	Mannar	Mannar	Mannar	1	232222062
43	Govt. Veterinary Office, Murunkan	Mannar	Murunkan	Murunkan	1	232050344
44	Govt. Veterinary Office, Madhu	Mannar	Madhu	Palampitti	1	233232850
45	Govt. Veterinary Office, Manthai West	Mannar	Manthai West	Manthai West	1	232051182
46	Govt. Veterinary Office, Musali	Mannar	Musali	Potkerny, Musali	1	233233821

S. No	Name of the Institution	District	Ds Division	Address of the Institution	No of Suitable buildings for fitting or roof Solar	Contact No of the Institution (Officer in charge)
<b>10. Dept. of Agriculture, NP (15 Nos.)</b>						
1	Office of Deputy Provincial Director of Agriculture	Jaffna	Nallur	Palaly Road, Thinnavelly, Jaffna	1	021 2222 175
2	Office of Deputy Provincial Director of Agriculture	Kilinochchi	Kilinochchi	A9 Road, Kilinochchi	1	021 2285 726
3	Office of Deputy Provincial Director of Agriculture	Mannar	Mannar	Uyilankulam, Mannar	1	023 2222 155
4	Office of Deputy Provincial Director of Agriculture	Mullaitivu	Maritimepattu	Post Office Road, Mullaitivu	1	021 2290 006
5	Office of Deputy Provincial Director of Agriculture	Vavuniya	Vavuniya	Station Road, Vavuniya	1	024 2222 324
6	District Agriculture Training Centre	Jaffna	Nallur	Palaly Road, Thinnavelly, Jaffna	2	021 2222 174
7	District Agriculture Training Centre	Kilinochchi	Karachchi	Vaddakachchi	2	021 2060 376
8	District Agriculture Training Centre	Mannar	Mannar	Uyilankulam, Mannar	2	023 3238 802
9	District Agriculture Training Centre	Mullaitivu	Oddusuddan	Mullaitivu Road, Oddusuddan	2	021 2061 760
10	District Agriculture Training Centre	Vavuniya	Vavuniya	Farm Junction, Muruganoor, Vavuniya	2	024 2054 006
11	Horticulture Generic Resource Centre	Jaffna	Kopay	Industrial estate zone, Achchuvely West	1	077 4527 727
12	Integrated Horticulture Generic Resource Modal Farm	Mullaitivu	Puthukudiyiruppu	Udayarkaddu South, Udayarkaddu	1	077 077 0794
13	Government Seed Production Farm	Vavuniya	Vavuniya	A9 road, Thandikulam	2	024 2222 355
14	Government Coconut Nursery Production Farm	Kilinochchi	Poonakary	Kiranchi, Poonakary, Kilinochchi	1	077 9592 751
15	Office of Provincial Director of Agriculture, Northern Province	Jaffna	Nallur	Palaly Road, Thinnavelly, Jaffna	1	021 2219 251

S. No	Name of the Institution	District	Ds Division	Address of the Institution	No of Suitable buildings for fitting or roof Solar	Contact No of the Institution (Officer in charge)
<b>11. Dept. of Rural Development, NP (02 Nos.)</b>						
1	District Rural Development Office, Vavuniya	Vavuniya	Vavuniya Town	Innar Circuit Road, Vavuniya	1	774106134
2	District Rural Development Office, Mullaitivu	Mullaitivu	Maritimepattu	Kudiyiruppu, Mullaitivu	1	771751380
<b>12. Dept. of Irrigation (08 Nos.)</b>						
1	Office of the Deputy Director of Irrigation, Kilinochchi Range	Kilinochchi	Karachi	Wilson Road, Kilinochchi	4	021-2283969
2	Office of the Irrigation Engineer, Kilinochchi East Division.	Kilinochchi	Karachi	Ambaalnagar, Iranamadu	2	021-2283770
3	Office of the Irrigation Engineer, Kilinochchi West Division.	Kilinochchi	Karachi	Wilson Road, Kilinochchi	1	021-2282237
4	Office of the Irrigation Engineer, Jaffna Division.	Jaffna	Jaffna	Pannai Road, Jaffna	1	021-2222288
5	Irrigation Department - Hydraulic Research Centre - Thondaimanaru.	Jaffna	Point Pedro	Sannithi East Road, Thondaimanaru.	1	021-2222288
6	DDI Office Mullaitivu Range	Mullaitivu	Oddusuddan	DDI Office, A-9 Road , Mankulam	3	077-1615252
7	IE's Office Muthuyankaddu Division	Mullaitivu	Oddusuddan	IE's office, Muthuyankaddu , Oddusuddan	3	077-4592242
8	IE's Office Vavunikkulam Division	Mullaitivu	Thunukkai	IE's office, Vavunikkulam	3	077-3090822
<b>13. Department of Buildings (07 Nos.)</b>						
1	Chief Engineer's office & Executive Engineer's office	Vavuniya	Vavuniya	Chief Engineer's office, Kandy Rd, Vavuniya	1	24 222 2284
2	Chief Engineer's office	Kilinochchi	Kilinochchi	Chief Engineer's office , Krishnar Kovil Rd, Kilinochchi	1	21 228 5599
3	Executive Engineer's office	Kilinochchi	Kilinochchi	Executive Engineer's office , Krishnar Kovil, Rd, Kilinochchi	1	21 228 5758
4	Chief Engineer's office & Executive Engineer's office	Mannar	Mannar	Chief Engineer's office , Pallimunai, Mannar	1	23 225 1323
5	Executive Engineer's office	Mullaitivu	Mullaitivu	Executive Engineer's office , Mullaitivu	1	21 229 0170

S. No	Name of the Institution	District	Ds Division	Address of the Institution	No of Suitable buildings for fitting or roof Solar	Contact No of the Institution (Officer in charge)
6	Chief Engineer's office	Jaffna	Jaffna	Chief Engineer's office, Beach Rd, Gurunagar, Jaffna	1	21 222 2632
7	Provincial Director's Office, Dept. of Buildings, NP	Jaffna	Jaffna	Provincial Director's Office, Dept. of Buildings, NP, Beach Rd, Gurunagar, Jaffna.	1	21 222 8091
<b>14. Department of Indigenous Medicine (26 Nos.)</b>						
1	Base Siddha Hospital - Kilinochchi	Kilinochchi	kandawalai	Poonagary road, Paranthan	4	777667252
2	Provincial Herbal Village - Kalmadunagar	Kilinochchi	Karaichchi	Kalamaduanagr, Kilinochchi.	2	776208452
3	Siddha Rural Hospital, Kilinochchi	Kilinochchi	Karaichchi	A9 road, Depot junction, Kilinochchi.	1	770868639
4	District Siddha Hospital - Mullaitivu	Mullaitivu	Puthukudiyiruppu	Paranthan Road, Mullaitivu.	4	774242106
5	Rural Siddha Hospital - Mallavi	Mullaitivu	Thunukkai	Yogapuram, Mallavi.	2	777142267
6	Rural Siddha Hospital - Mulliyawalai	Mullaitivu	Mulliyawalai	Mankulam Road, Mulliyawalai.	1	776395753
7	District Siddha Hospital - Mannar	Mannar	Nanattan	District Siddha Hospital, Mannar.	3	714405303
8	Rural Siddha Hospital - Thalvupadu	Mannar	Mannar	Rural Siddha Hospital, Thalvupadu	1	766132278
9	Rural Siddha Hospital – Pallamadu.	Mannar	Manthai West	Rural Siddha Hospital, Pallamadu.	1	777411291
10	Siddha Central Dispensary – Madhu.	Mannar	Mannar	Siddha Central Dispensary, Madhu.	1	774601214
11	Base Siddha Hospital - Vavuniya	Vavuniya	Vavuniya Town	Mannar Road, Sivapuram, Vavuniya	6	773040595
12	Rural Siddha hospital – Eratperiyakulam.	Vavuniya	Vavuniya South	Kandy road, Vavuniya	1	773084399
13	Rural Siddha hospital – Kanagarayankulam.	Vavuniya	Nedunkerny	Rural Siddha hospital, Kanagarayankulam.	1	770345846
14	Rural Siddha hospital – Cheddikulam.	Vavuniya	Venkalacheddikulam	Rural Siddha hospital, Cheddikulam.	2	776664226
15	Rural Siddha hospital – Nainamadu.	Vavuniya	Vavuniya North	Nainamadu, Nedunkerny.	1	775298607
16	Siddha Central Dispensary – Madukandha.	Vavuniya	Vavuniya Town	Siddha Central Dispensary Madukandha.	2	776589623

S. No	Name of the Institution	District	Ds Division	Address of the Institution	No of Suitable buildings for fitting or roof Solar	Contact No of the Institution (Officer in charge)
17	Siddha Central Dispensary – Vavuniya Town.	Vavuniya	Vavuniya Town	Siddha Central Dispensary , Vavuniya Town.	3	777177795
18	District Siddha Hospital, Jaffna	Jaffna	Kopay	Selvanayagapuram, Achchuvely	2	213155862
19	Drug Manufacturing Unit, Achchuvely	Jaffna	Kopay	Achchuvely Centre, Achchuvely	3	213211050
20	Rural Siddha Hospital, pandaththarippu	Jaffna	sandilipay	Mullaiady Lane, Pandaththarippu	3	212051937
21	Rural Siddha Hospital, Kodikamam	Jaffna	Chavakachcheri	A9, Road, Kodikamam	3	212050243
22	Rural Siddha Hospital, Karaveddy	Jaffna	Karaveddy	Point pedro Road, Karaveddy	2	212261391
23	Rural Siddha Hospital, Keerimalai	Jaffna	Thellipalai	Naguleswaram Road, Keerimalai	1	776500949
24	Central Sidd Dispensary and Herbal Garden,Navakiri	Jaffna	Kopay	Nilavari,Navakiri, Achchuvely	2	212232838
25	Central Sidd Dispensary and Herbal Garden,Araly	Jaffna	Chankanai	Vaddukoddai Road, Araly	2	775789930
26	Central Sidd Dispensary, Karainagar	Jaffna	Karainagar	East Road, Kalapoomi, Karainagar	1	772559525
<b>15. Department of Health Services ( 76 Nos.)</b>						
1	PDHS office Northern Province.	Jaffna	DS Division, Jaffna.	Health Village, Pannai.	1	212220815
2	Base Hospital Pointpedro	Jaffna	J/415 - Manthikai Vadamarachchi North - Pointpedro	Manthikai, Pointpedro.	5	212263261
3	Base Hospital Tellippalai	Jaffna	J/228 - Tellippalai Valikamam North - Tellippalai	Vallai - Tellippalai - Araly Road, Tellippalai.	8	212059227
4	Base Hospital Chavakachcheri	Jaffna	J/300 Chavakachcheri Town, Thenmaradchchei - Chavakachcheri	A9 Road, Chavakachcheri.	4	212270661
5	Base Hospital Kayts	Jaffna	J/52 - Karampon East Island North - Kayts	Jaffna Pannai - Kayts Road, Kayts.	4	212211666

S. No	Name of the Institution	District	Ds Division	Address of the Institution	No of Suitable buildings for fitting or roof Solar	Contact No of the Institution (Officer in charge)
6	Divisional Hospital Kopay	Jaffna	J/261 - Kopay Centre Valikamam East - Kopay	Manipay - Kaithady Road, Kopay Centre, Kopay	2	212230070
7	Divisional Hospital Atchuvely	Jaffna	J/286 - Atchuvely South Valikamam East - Kopay	Avarankal - Thondamanar Road, Atchuvely	2	212058047
8	Divisional Hospital Chankanai	Jaffna	J/181 - Chankanai Centre Valikamam West - Chankanai	Hospital Road, Chankanai	2	212250079
9	Divisional Hospital Valvettithurai	Jaffna	J/393 - Polikandy West Vadamarachchi North - Pointpedro	Jaffna - Ponnalai - Pointpedro Road, Urani, Valvettithurai	2	212263530
10	Divisional Hospital Velanai	Jaffna	J/13 - Velanai North East Island South - Velanai	Chaddy - Vankalavadi Road, Ward No - 01, Velanai East, Velanai	2	212211556
11	Divisional Hospital Karainagar	Jaffna	J/42 - Karainagar East Karainagar	Circular Road, Karainagar	2	212211745
12	Divisional Hospital Manipay	Jaffna	J/133 - Anaikkoddai Valikamam South West - Sandilipay	Hospital Road, Anaikkoddai	1	212255960
13	Divisional Hospital Karaveddy	Jaffna	J/367 - Karaveddy Centre Vadamarachchy South West Karaveddy	Karaveddy Centre, Karaveddy	2	212264608
14	Divisional Hospital Kodikamam	Jaffna	J/326 - Kodikamam North Thenmarachchy - Chavakachcheri	A9 Road, Kodikamam	2	212050121
15	RDHS Office, Kilinochchi	Kilinochchi	Karachchi	A9 Road, Kilinochchi	2	212285719
16	DGH, Kilinochchi	Kilinochchi	Karachchi	A9 Road, Kilinochchi	6	212285328
17	BH Mulangavil	Kilinochchi	Poonagary	Mulangavil, Kilinochchi	2	212283132
18	DH Akkarayankulam	Kilinochchi	Karachchi	Akkarayankulam, Kilinochchi	2	213208737
19	DH Pallai	Kilinochchi	Pallai	Pallai, Kilinochchi	2	22050025
20	DH Tharmapuram	Kilinochchi	Kandawalai	Tharmapuram, Kilinochchi	2	212060469
21	DH Poonagary	Kilinochchi	Poonagary	Poonagary, Kilinochchi	2	212060854

S. No	Name of the Institution	District	Ds Division	Address of the Institution	No of Suitable buildings for fitting or roof Solar	Contact No of the Institution (Officer in charge)
22	DH Uruthirapuram	Kilinochchi	Karachchi	Uruthirapuram, Kilinochchi	2	212284470
23	DH Vaddakkachchi	Kilinochchi	Karachchi	Vaddakkachchi, Kilinochchi	1	212060332
24	DH Veravil	Kilinochchi	Poonagary	Veravil, Kilinochchi	2	243247238
25	MOH Karachchi	Kilinochchi	Karachchi	Karachchi, Kilinochchi	1	212283823
26	MOH Kandawalai	Kilinochchi	Kandawalai	Kandawalai, Kilinochchi	1	212060415
27	MOH Pallai	Kilinochchi	Pallai	Pallai, Kilinochchi	1	212050024
28	MOH Poonagary	Kilinochchi	Poonagary	Poonagary, Kilinochchi	1	212060822
29	PMCU Kandawalai	Kilinochchi	Kandawalai	Kandawalai, Kilinochchi	1	766610589
30	PMCU Piramanthanaru	Kilinochchi	Kandawalai	Piramanthanaru, Kilinochchi	1	772166899
31	PMCU Jeyapuram	Kilinochchi	Poonagary	Jeyapuram, Kilinochchi	1	212283679
32	PMCU Vannerikulam	Kilinochchi	Karachchi	Vannerikulam, Kilinochchi	1	773947044
33	RDHS office, Mullaitivu	Mullaitivu	Maritampattu	Unnapilavu, Mullaitivu	1	777286188
34	DGH-Mullaitivu	Mullaitivu	Maritampattu	Kumarapuram, Mulliyawalai	5	779332446
35	RMSD-Mullaitivu	Mullaitivu	Maritampattu	RMSD, Mulliyawalai, Mullaitivu.	1	779123071
36	BH-Puthukkudiyiruppu	Mullaitivu	Puthukkudiyiruppu	ward no 8, Puthukkudiyiruppu	5	775162712
37	BH-Mallavi	Mullaitivu	Thunukkai	Base Hospital, Mallavi	4	778321986
38	BH-Mankulam	Mullaitivu	Oddusuddan	A9 road, Mankulam	3	777324142
39	DH-Oddusuddan	Mullaitivu	Oddusuddan	Divisional Hospital, Oddusuddan	3	778659000
40	DH-Monkillaru	Mullaitivu	Puthukkudiyiruppu	Divisional Hospital, Moonkillaru	1	779385769
41	DH-Alambil	Mullaitivu	Maritampattu	Divisional Hospital, Almbil	1	772522486
42	DH-Kokillai	Mullaitivu	Maritampattu	Divisional Hospital, Kokillai	1	778624700
43	DH-Sampathnuwara	Mullaitivu	Welioya	Divisional Hospital, Sampathnuwara	5	771248039
44	DH-Naddankandal	Mullaitivu	Manthai East	Divisional Hospital, Naddankandal	1	779638178
45	DH-Mullaitivu	Mullaitivu	Maritampattu	Unnapilavu, Mullaitivu	1	771584483
46	District General Hospital	Vavuniya	Vavuniya	District General Hospital, Vavuniya	6	242222715
47	Regional Director Of Health Services	Vavuniya	Vavuniya	RDHS Office, Mannar Road, Vavuniya.	2	242222893
48	Base Hospital -Cheddikulam	Vavuniya	Cheddikulam	Base Hospital, Cheddikulam	5	242260995

S. No	Name of the Institution	District	Ds Division	Address of the Institution	No of Suitable buildings for fitting or roof Solar	Contact No of the Institution (Officer in charge)
49	MOH, Vavuniya	Vavuniya	Vavuniya	Medical Officer of Health, Kandy Road, Vavuniya	2	242222278
50	AMC, Vavuniya	Vavuniya	Vavuniya	Anti Malaria Campaign, Kandy Road, Vavuniya.	2	242222954
51	DH Poovarasankulam	Vavuniya	Vavuniya	Divisional Hospital, Poovarasankulam	2	243244209
52	DH Pavatkulam	Vavuniya	Cheddikulam	Divisional Hospital, Pavatkulam	2	243248415
53	DH Nedunkerny	Vavuniya	Vavuniya North	Divisional Hospital, Nedunkerny	3	242053016
54	DH Sithamparapuram	Vavuniya	Vavuniya	Divisional Hospital, Sithamparapuram	2	242228699
55	DH Neriyaikulam	Vavuniya	Cheddikulam	Divisional Hospital, Neriyaikulam	2	242220890
56	DH Mamadhu	Vavuniya	Vavuniya South	Divisional Hospital, Mamadhu	2	242053232
57	DH Omanthai	Vavuniya	Vavuniya	Divisional Hospital, Omanthai	2	242052724
58	DH Puliyankulam	Vavuniya	Vavuniya North	Divisional Hospital, Puliyankulam	2	242051919
59	RDHS Office	Mannar	Mannar	Thalvu Paadu Road, Mannar	1-(RDHS office Building)	232222916
60	Mannar MOH	Mannar	Mannar	MOH Office, Mannar	1-(MOH Office Building)	232222278
61	Manthai West MOH	Mannar	Manthai West	MOH Manathai West, Mannar	1-(MOH Office Building)	232050868
62	Nanattan MOH	Mannar	Nanattan	MOH Nnattan, Mannar	1-(MOH Office Building)	232050389
63	Musali MOH	Mannar	Musali	MOH Musali, Mannar	1-(MOH Office Building)	233238281
64	Madhu MOH	Mannar	Madhu	MOH Madhu, Mannar	1-(MOH Office Building)	232051567
65	DGH Mannar	Mannar	Mannar	DGH mannar	1-(Ward 2- Male Medical Ward)	0232222349 0232222261
66	BH Murunkan	Mannar	Nanattan	BH Murunkan	1-(Ward 02)	232050394

S. No	Name of the Institution	District	Ds Division	Address of the Institution	No of Suitable buildings for fitting or roof Solar	Contact No of the Institution (Officer in charge)
67	DH Thalaimannar	Mannar	Mannar	DH Thalaimannar	1-(OPD)	232281055
68	DH Pesalai	Mannar	Mannar	DH pesalai	1-(OPD)	232050116
69	DH Erukkalampiddy	Mannar	Mannar	DH Erukkalampiddy	1-(New Building )	232050265
70	DH Vankalai	Mannar	Nanattan	DH Vankalai	1-(New Building )	232050565
71	DH Nanattan	Mannar	Nanattan	DH Nanattan	1-(OPD)	232050699
72	DH Chilawaththurai	Mannar	Musali	DH Chilawaththurai	1-(OPD)	232051677
73	DH Adampan	Mannar	Manthai west	DH Adampan	2-(Medical Ward & OPD)	232050881
74	DH Vidaththalthivu	Mannar	Mantai west	DH Vidaththalthivu	1-(Ward 02)	233238237
75	DH Periyapandivirichchan	Mannar	Madhu	DH Periyapandivirichchan	2-(New Building & Maternity Ward)	232280019
76	RMO/AMC	Mannar	Mannar	RMO/AMO Mannar	1-(AMC Office Building)	232051520
<b>16. Department of Sports ( 01 No.)</b>						
1	Dept, of Sports - Badminton Court at Mullaitivu	Mullaitivu	Maritimepattu	Koviljudiyiruppu, Mullaitivu	1	212245063
<b>17. Management Development Training Unit ( 01 No.)</b>						
1	Management Development Training Unit	Kilinochchi	Karaichchi	Kanakapuram, Kilinochchi	2	217391251
<b>18. Co-operative Employees Commission, NP ( 01 No.)</b>						
1	Co-operative Employees Commission	Jaffna	Jaffna	48, Forest Office Lane, Chundikuli, Jaffna	1	212217930

# **SCHEDULE**

## SCHEDULE OF REQUIREMENTS

**Table: 1**

Item Number	Brief Description for One Unit	Specifications	Minimum Warranty	Bidder's Response	
				Warranty	Delivery (Date)
1.	Solar Module	See Table 03			
2.	Inverter	See Table 04			
3.	Direct Lightning Protection	See Table 07			
4.	AC Surge Protection	See Table 07			
5.	DC Surge Protection	See Table 07			
6.	DC Switch disconnectors, Disconnectors, String Fuses, AC, MCCB	See Table 08			
7.	Cable, Connection Box and required system components	See Table 05			
8.	Mounting Structure	See Table 05			
9.	Web Monitoring facility items	See Table 06			
10.	Brochure/Manuals	English	-----	-----	

## EXPERIENCE IN QUOTED PRODUCTS

Table: 2

No	Item	Trade Name	Model	Country of origin	Country of manufacture	Experience (Years)
1.	Solar Module					
2.	Solar Inverter					
3.	DC SPD					
4.	AC SPD					
5.	MCCB					
6.	DC Switch disconnecter					
7.	AC Disconnect switch					
8.	AC Cable					
9.	DC Cable					

## TECHNICAL SPECIFICATIONS

### Solar Panel

**Table: 03**

<b>Descriptions</b>	<b>Required Specification</b>	<b>Specify</b>	<b>Remarks</b>
Model No	Specify		
Quantity	Specify		
Country of Manufacture	Specify		
Manufacture	Specify		
Certificate Holder	Specify		
Dimension	Specify		
Area per Module	Specify		
Maximum Weight	Specify		
Output Cable size	Specify		
Panel Capacity	Maximum 550W		
Working Temperature	0 <sup>0</sup> C to 85 <sup>0</sup> C		
Temperature Coefficient of Pmax( $\gamma\Delta P_{max}$ )	-0.40%/C <sup>0</sup> or -0.37%/C <sup>0</sup>		
Power Tolerance	0/+5W		
Module Efficiency	20% or higher		
Fill Factor	Minimum 0.78		
Cell Type	Mono/Multi/Poly		
Product Warranty	12 Years or more		
Linear Performance	Minimum 80%		
Expected Life time	30Years		
Number of bypass diodes	Specify		
Tempered Glass thickness	3.2mm or above		
Aluminium back support bars	01 or more		
Standard	See Annex 01		
Protection Rating	Minimum IP 65		
Quality Management	ISO 9001: 2008, ISO 14001:2004 or Equivalent		

\*Data sheet and test certificates should be attached,

## Inverter

Table: 04

No	Description	Specified	Specify	Remarks
1	Model Number/ Numbers	Specify		
2	Quantity from each model	Specify		
3	Country of Manufacture	Specify		
4	Name of Manufacture	Specify		
5	Name of Certificate Holder	Specify		
6	Is an accredited agency	Specify		
7	(a)Inverter Type (b)Inverter Technology	Specify		
8	Operating Temperature Range	Specify		
9	Cooling Method	Specify		
10	Protection Rating	IP 65 or Higher		
11	DC Protection - Type II	Specify		
12	AC Protection - Type II	Specify		
13	Voltage Range	Specify		
14	Relative Humidity	0% - 100%		
15	Efficiency	Minimum 98%		
16	Maximum input DC power	Specify		
17	Maximum output AC power	Specify		
18	Rated Grid Voltage	AC 230/400 V		
19	Rated Grid Frequency	50 Hz		
20	Maximum AC Output Apparent Power	Specify		
21	Power Factor	Specify		
22	Short Circuit Proof	Specify		
23	Internal Consumption at Night	Specify		
24	Ground Fault Monitoring	Specify		
25	Reverse Polarity Protection	Specify		
26	Warranty extension certificate from manufacturer	Compulsory		
27	LED TV display at Cricket ground office showing power generation details	Compulsory (minimum 40")		
28	Grid Code	IEEE 1547 or Equivalent		
29	Apply standard	See Annex 01		

\*Data sheet and test certificates should be attached

**Cables & Mounting Components**

**Table: 05**

No	DC / AC Cables	Bidder's Response	
		Requirements	
	<b>Cables</b>		
1	Make		
2	Country of Origin		
3	Standards	SLS 1542 / IEC 50618	
4	Application Range		
5	Design		
6	Product Feature		
7	Minimum Bending Radius		
8	Nominal Voltage		
9	Temperature Range		
10	UV protected		
	<b>Cables Mounting Components</b>	<b>Requirements</b>	<b>Bidder's Response</b>
1	SS cable clip	stainless steel	
2	Cable tie	stainless steel	
3	Warranty	10 years	
	<b>Mounting Structure</b>	<b>Requirements</b>	<b>Bidder's Response</b>
I	Railings	Coated steel or Anodized Aluminum (resist to corrosion)	
Ii	Nuts & Bolts	resist to corrosion	
Iii	Other fixing components	resist to corrosion	

\*Data sheets of mounting structures, data sheets and test certificates of DC and AC Cables should be attached

**Earth System**

**Table: 5A**

Description	Wire	Rod
Material		
Withstand Maximum Current (A)		Not Applicable
Cross Section (mm <sup>2</sup> )		
Length (ft)	-----	

\*Data sheets should be attached

## Monitoring System

Table: 06

No	Required Feature	Bidder's Response		Remarks
		Yes	No	
1	Real Time data			
2	Past Data			
3	Peak Power			
4	Cumulating Power			
5	CO <sub>2</sub> Emission			
6	Power & Energy Graphs			
8	Fault & Safety Event			
9	Monitoring portal with hardware			

\*Data sheets of equipment require for monitoring should be attached. Internet connection for 20 years should be provided free of charge.

## Surge Protector Device

Table: 07

No	Feature	AC surge arrester	DC surge arrester	Direct lightning conductor
1	Model/Trade name			
2	Country of origin			
3	Manufacture			
4	Type of design			
5	Type			-
6	Maximum Current			
7	Maximum Energy			
8	Maximum number of surge			-
9	Response Time			-
10	Case Material			-
11	Warranty			
12	Standards		SLS 1473	

\*Data sheets & test certificates should be attached

## Switch Gear

Table: 08

No	Feature	AC	DC	String Fuses	DC Connectors
1	Trade name				
2	Model				
3	Country of origin				
4	Manufacturer				
5	Type				
6	Standards (SLS 1554)	IEC 60947-2:2016	IEC 60947-3:2015		
7	Ampere Range				
8	Maximum voltage				

## ANNEXURE 01 - STANDARDS

### CODE OF PRACTICE

**1. SLS 1522: 2016** Sri Lanka Standard Code of Practice for Grid Connected Photovoltaic Power Systems - Requirements for System Documentation, Installation, Testing & Commissioning

### POWER CONVERTERS

**2. SLS 1543** Sri Lanka Standard Specification for Safety of Power Converters for use in Photovoltaic Power Systems –

**Part 1:2016** General Requirements (**IEC 62109-1:2010**)

**Part 2:2016** Particular Requirements for Inverters (**IEC 62109-2:2011**)

**3. SLS 1547:2016** Sri Lanka Standard Specification for Photovoltaic (PV) Systems – Characteristics of the Utility Interface (**IEC 61727:2004**).

### SWITCHGEAR AND CONTROLGEAR

**4. SLS 1554** - Sri Lanka Standard Specification for Low-Voltage Switchgear and Controlgear

**Part 1: 2017** General Rules (**IEC 60947-1:2014**)

**Part 2: 2017** Circuit-Breakers (**IEC 60947-2:2016**)

**Part 3: 2017** Switches, Disconnectors, Switch-Disconnectors and Fuse-Combination Units (**IEC 60947-3:2015**).

### DC CABLE

**5. SLS 1542:2016** Sri Lanka Standard Specification for Electric Cable for Photovoltaic Systems (**EN 50618:2014**)

### PHOTOVOLTAIC (PV) MODULES

**6. SLS 1553** Sri Lanka Standard Specification for Photovoltaic (PV) Module Safety Qualification –

**Part 1: 2017** Requirements for Construction (**IEC 61730-1:2016**)

**Part 2: 2017** Requirements for Testing (**IEC 61730-2:2016**)

**7. SLS 1544** Sri Lanka Standard Specification for Terrestrial Photovoltaic (PV) Modules – Design qualification and type approval –

**Part 1:2016** Test Requirements (**IEC 61215-1:2016**)

**Part 1-1:2016** Special Requirements for Testing of Crystalline Silicon Photovoltaic (PV) Modules (**IEC 61215-1-1:2016**)

**Part 2:2016** Test Procedures (**IEC 61215-2:2016**)

**8. SLS 1546:2016** Sri Lanka Standard Specification for Photovoltaic Systems – Power Conditioners – Procedure for Measuring Efficiency (**IEC 61683:1999**)

## **PERFORMANCE TESTING AND ENERGY RATING**

**9. SLS 1545** Sri Lanka Standard Specification for Photovoltaic (PV) Module Performance Testing and Energy Rating –

**Part 1:2016** Irradiance and Temperature Performance Measurements and Power Rating (**IEC 61853-1:2011**)

**Part 2: 2017** Spectral Responsivity, Incidence Angle and Module Operating Temperature Measurements (**IEC 61853-1:2017**)

**10. SLS 1637: 2019** Sri Lanka Standards Specification for Connectors for DC-application in photovoltaic systems – Safety requirements and tests

**11. SLS IEC 62548: 2018** - Sri Lanka Standard Specification for Photovoltaic (PV) Arrays – Design Requirements (**IEC 62548: 2016**)

**12. SLS IEC 62446:2017** - Sri Lanka Standard Specification for Photovoltaic (PV) Systems – Requirements for Testing, Documentation and Maintenance – **Part 1: 2017** Grid Connected Systems – Documentation, Commissioning Tests and Inspection (**IEC 62446- 1:2016**).

**13. SLS IEC 60364: 2018** - Sri Lanka Standard Specification for Low Voltage Electrical Installation - **Part 6: 2018** verification (**IEC 60364-6: 2016**)

## **14. SLS 1472 SRI LANKA STANDARD FOR PROTECTION AGAINST LIGHTNING**

### **a) PART 1: 2013 // IEC 62305 - 1: 2010 – GENERAL PRINCIPLES**

This part of IEC 62305 provides general principles to be followed for protection of structures against lightning, including their installations and contents, as well as persons.

### **b) PART 2: 2013 // IEC 62305 - 4: 2010 – RISK MANAGEMENT**

This part of IEC 62305 is applicable to risk assessment for a structure due to lightning flashes to earth. Its purpose is to provide a procedure for the evaluation of such a risk.

### **c) PART 3 // IEC 62305 - 4: 2010 – PHYSICAL DAMAGE TO STRUCTURES AND LIFE HAZARD**

This part of IEC 62305 provides the requirements for protection of a structure against physical damage by means of a lightning protection system (LPS), and for protection against injury to living beings due to touch and step voltages in the vicinity of an LPS

### **d) PART 4 // IEC 62305 - 4: 2010 – ELECTRICAL AND ELECTRONIC SYSTEMS WITHIN STRUCTURES**

This part of IEC 62305 provides information for the design, installation, inspection, maintenance and testing of electrical and electronic system protection (SPM) to reduce the risk of permanent failures due to lightning electromagnetic impulse (LEMP) within a structure. This standard does not cover protection against electromagnetic interference due to lightning, which may cause malfunctioning of internal systems.

## **15. SLS 1473 SRI LANKA STANDARD FOR LOW VOLTAGE SURGE PROTECTIVE DEVICES**

**a) PART 1: 2013// IEC 61643 - 11: 2011 – SURGE PROTECTIVE DEVICES CONNECTED TO LOW-VOLTAGE POWER SYSTEMS – REQUIREMENTS AND TEST METHODS**

This part of IEC 61643 is applicable to devices for surge protection against indirect and direct effects of lightning or other transient over voltages.

**b) PART 2: 2015 // IEC 61643 - 12: 2008 – SURGE PROTECTIVE DEVICES CONNECTED TO LOW-VOLTAGE POWER DISTRIBUTION SYSTEMS - SELECTION AND APPLICATION PRINCIPLES**

This part of IEC 61643 describes the principles for selection, operation, location and coordination of SPDs to be connected to 50 Hz to 60 Hz a.c. and to d.c. power circuits and equipment rated up to 1 000 V r.m.s. or 1 500 V d.c.

**c) PART 3: 2015 // IEC 61643 - 21: 2009 – SURGE PROTECTIVE DEVICES CONNECTED TO TELECOMMUNICATIONS AND SIGNALLING NETWORKS – PERFORMANCE REQUIREMENTS AND TESTING METHODS**

This International Standard is applicable to devices for surge protection of telecommunication and signaling networks against indirect and direct effects of lightning or other transient over voltages.

**d) PART 4: 2015 // IEC 61643 - 22: 2004 – SURGE PROTECTIVE DEVICES CONNECTED TO TELECOMMUNICATIONS AND SIGNALLING NETWORKS –SELECTION AND APPLICATION PRINCIPLES**

This part of IEC 61643 describes the principles for the selection, operation, location and coordination of SPDs connected to telecommunication and signaling networks with nominal system voltages up to 1 000 V r.m.s. A.C. and 1 500 V D.C.

**e) PART 5: 2019 // IEC 61643-31: 2018 REQUIREMENTS AND TEST METHODS FOR SPDS FOR PHOTOVOLTAIC INSTALLATIONS**

This part of IEC 61643 is applicable to Surge Protective Devices (SPDs), intended for surge protection against indirect and direct effects of lightning or other transient over voltages. These devices are designed to be connected to the DC side of photovoltaic installations rated up to 1 500 V DC.

**f) PART 6: 2019 // IEC 61643-32 SURGE PROTECTIVE DEVICES CONNECTED TO THE D.C. SIDE OF PHOTOVOLTAIC INSTALLATIONS – SELECTION AND APPLICATION PRINCIPLES.**

This part of IEC 61643 describes the principles for selection, installation and coordination of SPDs intended for use in Photovoltaic (PV) systems up to 1 500 V DC and for the AC side of the PV system rated up to 1 000 V rms 50/60 Hz.

**16. SLS 1496 SRI LANKA STANDARD FOR LIGHTNING PROTECTION SYSTEM COMPONENTS**

**a. PART 1: 2015 // IEC 62561 - 1: 2012 – REQUIREMENTS FOR CONNECTION COMPONENTS**

**b. PART 2: 2015 // IEC 62561 - 2: 2012 – REQUIREMENTS FOR CONDUCTORS AND EARTH ELECTRODES**

**c. PART 3: 2015 // IEC 62561 - 3: 2012 – REQUIREMENTS FOR ISOLATING SPARK GAPS (ISG)**

**d. PART 4: 2015 // IEC 62561 - 4: 2010 – REQUIREMENTS FOR CONDUCTOR FASTENERS**

e. PART 5: 2015 // IEC 62561 - 5: 2011 – REQUIREMENTS FOR EARTH ELECTRODE INSPECTION HOUSINGS AND EARTH ELECTRODE SEALS

f. PART 6: 2015 // IEC 62561 - 6: 2011 – REQUIREMENTS FOR LIGHTNING STRIKE COUNTERS

g. PART 7: 2015 // IEC 62561 - 7: 2011 – REQUIREMENTS FOR EARTHING ENHANCING COMPOUNDS

**ANNEXURE - 2**

**TECHNICAL DETAILS OF PV MODULES, INVERTERS AND SPDS**

<b>Description</b>	<b>Bidders Comment</b>
<b>PV Module</b>	
Module manufacturer	
Manufacturing country	
Country of origin	
Module manufacturing year	
PV module type (Poly crystalline/ Mono crystalline)	
Module dimensions in mm (Length X Width X Thickness)	
Module area (Sq. m)	
Module weight (kg)	
PV Module Standards	
Maximum system voltage (V)	
Maximum series fuse rating (A)	
Maximum reverse current (A)	
Operational temperature range (°C)	
Nominal power @ STC-PMPP (WP)	
Nominal voltage @ STC-VMPP (V)	
Nominal current @ STC-IMPP A)	
Open circuit voltage @ STC- V <sub>oc</sub> (V)	
Short circuit current @ STC- I <sub>sc</sub> (A)	
Module Efficiency @ STC (%)	
Maximum performance digression per annum (%)	
Product warranty (years)	
<b>Grid Inverter</b>	
Inverter Manufacturer & Origin	
Inverter Efficiency	
Inverter standards	
I-V curve and other technical details (Pl. attach brochures)	
<b>Surge Protective Devices (SPD)- AC side</b>	
Manufacturer & Origin	
Country of origin	
Brand name	
Model	
Maximum continuous operating voltage-Uc (phase to neutral conductor)	
Maximum continuous operating voltage-Uc (neutral conductor to PE)	

Description	Bidders Comment
Voltage protection level-Up	
Maximum discharge current I <sub>max</sub> (8/20 μs curve)	
Nominal discharge current I <sub>max</sub> (8/20 μs curve)	
Visual indicator LED or Mechanical	
Standards to be complied	
<b>Surge Protective Devices (SPD)- DC side</b>	
Manufacturer & Origin	
Country of origin	
Brand name	
Model	
Maximum continuous operating voltage-U <sub>c</sub>	
Voltage protection level-Up	
Maximum discharge current I <sub>max</sub> (8/20 μs	
Nominal discharge current I <sub>max</sub> (8/20 μs	
Visual indicator LED or Mechanical	
Standards to be complied	

.....

.....

**Signature of the Bidder  
On Common seal**

**Date**

**Name** .....

**Identity Card No** .....



**ANNEXURE - 4**

**FORMAT FOR MANUFACTURER'S AUTHORISATION LETTER (on letter head)**

Ref. No.

Date:

To,  
NORTHERN PROVINCIAL  
COUNCIL

Sub.: **Authorization Letter.**

Dear Sir,

We, \_\_\_\_\_, who are established and reputed manufacturers of \_\_\_\_\_, having factory at \_\_\_\_\_, hereby authorize M/s. \_\_\_\_\_ (name & address of distributor / agent in Sri Lanka) to bid, negotiate and conclude the order with you for the above goods manufactured by us.

We shall remain responsible for the Procurement / contract / agreement negotiated by the said M/s. \_\_\_\_\_, jointly and severally.

We ensure that we would also support / facilitate the M/s \_\_\_\_\_ on regular basis with technology / product updates for up-gradation / maintenance / repairing / servicing of the supplied goods manufactured by us, during the warranty period.

In case duties of the agents / distributors in Sri Lanka are changed or agent / distributor is changed it shall be obligatory on us to automatically transfer all the duties and obligations to the new Agent in Sri Lanka failing which we will ipso-facto become liable for all acts of commission or omission on the part of new Agent /

Yours faithfully,

[Name & Signature]

For and on behalf of M/s. \_\_\_\_\_ [Name of manufacturer]

Note: This letter of authorization should be on the letterhead of the manufacturing concern and should be signed by a person competent and having the power of attorney to bind the manufacturer. A copy of notarized power of attorney should also be furnished.

**ANNEXURE -5  
FORM OF BID**

Name of Lease: Procurement of Renting the Rooftop of Selected buildings of Northern Provincial Councils for implementation of rooftop solar PV systems

To: Chief Secretary, Northern Province

Gentleman,

1. Having examined the Bidding Document for the execution of the above-named Lease Based Assignment, we the undersigned, offer to execute and complete such Lease Based Assignment in conformity with the aforesaid Conditions of Lease, Capacity Schedule (Annexure 6) and Addenda.
2. We propose to finance, install, own, operate, maintain and removal of the Solar Energy Facility as per the Conditions of Lease; and
3. We proposes to sell the solar generated electricity to Ceylon Electricity Board (CEB) through an agreement (Interconnection Agreement(s)) between us and Ceylon Electricity Board on the basis of Net Plus Plus, where Ceylon Electricity Board will pay (“Revenue”), for the total amount of electricity we generate as per the terms and conditions and as per the Conditions of Lease; and
4. (a) We propose to pay to Lessor a % of Revenue as revenue share (Lease Payment as defined in the Conditions of Lease) as per the details given below in the table.  
  
 (b) Our bid price calculated as per the details given below per Year in the table is .....  
 .....(LKR .....) or such other sums as may be ascertained in accordance with the said Conditions.  
  
 (c) The table illustrating the calculation of bid price based on offered % of Revenue and the proposed capacity schedule in annexure 6

No	Description	Percentage (%) (a)	Total Bidder's request capacity as per Capacity Schedule (Annexure 6) in KW (b)	Rate of Revenue per unit (Rs.) (c)	Anticipated Revenue per year (d) = (a)/100 x (b) x (c) x 12
01	Percentage of Revenue offered by the Bidder for 20 years of the term				

5. We acknowledge that the Lease Data form part of our Bid.
6. We undertake, if our Bid is accepted, to commence the Lease Based Assignment as stipulated in the Terms of Reference and Lease Data, and to complete the whole of the Lease Based Assignment comprised in the Lease within the time stated in the Conditions of Lease.
7. We agree to abide by this bid for the period up to 31.12.2023 or any extended period and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
8. Unless and until a formal agreement is prepared and executed this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.
9. We understand that you are not bound to accept the highest or any Bid you may receive.
10. We certify / confirm that we comply with the requirement of Clauses in the Bidding document.

Dated this ..... day of ..... 20..... in the capacity of ..... duly authorized to sign bids for and on behalf of .....

(IN BLOCK CAPITALS)

Signature : .....

Address : .....

Witness : .....

**ANNEXURE -6**  
**CAPCITY SCHEDULE**

Place	Connection	Approved Capacity by CEB (kW)	Roof Covering	Bidder request capacity(kW)
Total				

Use separate sheets to prepare the capacity schedule in the above format all the identified buidings

.....  
NAME & SIGNATURE OF  
BIDDER

.....  
OFFICIAL SEAL

.....  
DATE

Identity Card No .....

**STANDARD FORM (BID)  
BID SECURITY**

**BID SECURITY FORM (BID BOND)**

To: .....

WHEREAS .....  
(hereinafter called “the Bidder”) has submitted his Bid dated ..... for the .....  
..... (Insert Brief Description of the Goods) **Bid No:**  
..... (hereinafter called “ the Bid”)

KNOW ALL MEN by these presents that:

WE ..... of  
..... having our registered office at  
..... (hereinafter called “ the Bank”) are bound unto NORTHERN  
PROVINCIAL COUNCIL (hereinafter called “ the NORTHERN PROVINCIAL COUNCIL”) in the sum  
of ..... (Amount of the Guarantee in words  
and Figures).

Whereas we have agreed to give the Bidder a security /guarantee for which payment well and truly to be  
made to the said NORTHERN PROVINCIAL COUNCIL, the Bank binds itself, its successors and  
assigns by these presents. Sealed with the common seal of the said Bank this ..... Day  
of ..... 2023.

THE CONDITIONS of this obligation are:

1. If the Bidder withdraws its Bid during the period of Bid validity specified by the NORTHERN  
PROVINCIAL COUNCIL on the Bid Form; or
2. If the Bidder does not accept the correction of errors
3. If the Bidder, having been notified of the acceptance of its Bid by the NORTHERN  
PROVINCIAL COUNCIL during the period of Bid validity:
  - (a) fails or refuses to execute the Contract Form, when requested; or
  - (b) fails or refuses to furnish the Performance Security, in accordance with the Instructions to the  
Bidder,

We undertake to pay to NORTHERN PROVINCIAL COUNCIL up to the above amount upon receipt of  
its first written demand, without the NORTHERN PROVINCIAL COUNCIL having to substantiate its  
demand, provided that in its demand the NORTHERN PROVINCIAL COUNCIL will note that the  
amount claimed by it is due to it owing to the occurrence of one or both of the two above-stated  
conditions, specifying the occurred condition or conditions.

THIS GUARANTEE will remain in force up to 30.01.2024, and any demand in respect thereof should  
reach the bank not later than 30.01.2024.

(Name of the Bank) By .....

(Title) (Authorized Representative)

..... (Signature of Witness)

..... Name of Witness

..... Address of Witness

# **STANDARD FORM (LEASE)**

**FORM OF PERFORMANCE SECURITY  
(Unconditional)**

.....  
*[Issuing Agency's Name, and Address of Issuing Branch or Office]*

**Beneficiary:** ..... *[ name and address of Lessor]*

**Date:** .....

**PERFORMANCE GUARANTEE No.:** .....

We have been informed that ..... *[Name of Lessee]*  
(hereinafter called "the Lessee") has entered into Lease No. .... *[reference  
number of the Lease]* dated ..... With you, for the  
..... *[insert "lease"]* of ..... *[Name of Lease and brief  
description of Lease Based Assignment]*, (hereinafter called "the Lease")

Furthermore, we understand that, according to the condition of the Lease, a performance guarantee is required.

At the request of the Lessee, we ..... *[Name of Agency]* hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of ..... *[amount in figures]* (.....) *[amount in words]*, upon receipt by us of your first demand in writing accompanied by a written statement stating that the Lessee is in breach of its obligation(s) under the Lease, without your needing to prove or to show grounds for your demand or the sum specified therein.

This guarantee shall expire, no later than the .....day of ....., 20..... *[insert the date, 28 days beyond the date of completion of initial Term]* and any demand for payment under it must be received by us at this office on or before that date.

.....  
*[signature(s)]*

**FORM OF AGREEMENT**

**This AGREEMENT** made the ..... [day] of ..... [month] ..... [year], between ..... [name and address of Lessor] (hereinafter called and referred to as “the Lessor”), of the one part, and ..... [name and address of Lessee] (hereinafter called and referred to as “the Lessee”), of the other part:

**WHEREAS** the Lessor desires that the Lessee execute ..... [name and identification no of Lease] (hereinafter called and referred to as “the Lease Based Assignment”) and the Lessor has accepted the Bid by the Lessee for the execution and completion of such Lease Based Assignment.

**The Lessor and the Lessee agree as follows:**

**WHEREAS**, Lessor desires and proposes to lease to Lessee a Rooftop of Selected buildings of Northern Provincial Councils for implementation of rooftop solar PV systems (the “Property”) (as further set forth on Exhibit A), such portion (as further set forth on Exhibit A) constituting the Lessee’s leasehold interest hereunder (the “Premises”);

**WHEREAS**, Lessee is in the business of financing, developing, owning, operating and maintaining solar power electric generation facilities; and

**WHEREAS**, Lessee proposes to finance, install, own, operate and maintain the Solar Energy Facility on the Premises as per the Conditions of Lease; and

**WHEREAS**, Lessee proposes to sell the solar generated electricity to Ceylon Electricity Board (CEB) through an agreement (Interconnection Agreement(s)) between Lessee and Ceylon Electricity Board on the basis of Net Plus Plus, where Ceylon Electricity Board will pay (“Revenue”), for the total amount of electricity the Lessee generate as per the terms and conditions as per the Conditions of Lease; and

**WHEREAS**, Lessee proposes to pay to Lessor a “Lease Payment” as further set forth in Section 4.1 of Conditions of Lease;

**In Witness** whereof the parties hereto have caused this Lease to be executed the day and year aforementioned, in accordance with laws of Sri Lanka.

.....

**Authorized signature of Lessee**

**Authorized signature of Lessor**

COMMON SEAL

COMMON SEAL

In the presence of:

Witnesses :

1. Name and NIC No. ....

Signature .....

Address .....

2. Name and NIC No. ....

Signature .....

Address .....

# Conditions of Lease

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## **Conditions of Lease**

- 1. Definitions** When used in this Lease, the following terms shall have the meanings given below, unless a different meaning is expressed or clearly indicated by the context. Words defined in this Clause I which are capitalized shall be given their common and ordinary meanings when they appear without capitalization in the text.
- 1.1 Access Easement Area** “Access Easement Area” means the portion of the Property over which the Lessee has appurtenant rights for ingress, egress, and access to and from the Premises pursuant to Clause 2.1, as is described, depicted or mapped on Exhibit A, as such Exhibit A may be amended in accordance with the provisions of this Lease.
- 1.2 Applicable Legal Requirements** “Applicable Legal Requirements” means any present and future law, act, rule, requirement, order, by-law, ordinance, regulation, judgment, decree, or injunction of or by any Governmental Authority, ordinary or extraordinary, foreseen or unforeseen, and all licenses, permits, and other governmental consents, which may at any time be applicable to a Party’s rights and obligations hereunder, including, without limitation (i) the Lessee’s leasehold, access and easement interests in and to the Premises or any part thereof in connection with the Permitted Use, and (ii) the construction, operation, ownership, maintenance, repair, decommissioning and removal of the Solar Energy Facility.
- 1.3 CEB** “CEB” means Ceylon Electricity Board (CEB), which is established by a CEB Act No. 17 of 1969, and has legal obligation to develop and maintain an efficient, coordinated and economical system of electricity supply in accordance with any licenses issue in Sri Lanka.
- 1.4 Commencement Date** The date notified by the Lessee in the Notice of Commencement as on which Lessee’s obligations under this Lease shall have commenced as set forth in Clause 2.5.
- 1.5 Commissioning Completion** “Commissioning Completion” means the Solar Energy Facility is mechanically complete, is capable of generating electricity, and has been interconnected to the distribution system of CEB in accordance with the Interconnection Agreement(s).
- 1.6 Concealed Conditions** “Concealed Conditions” means subsurface or otherwise concealed physical conditions at the Premises that differ materially from the Documented Site Conditions or those conditions ordinarily expected to exist at a site like the Property and generally recognized as inherent in construction activities of the type and character as the work to be performed by Lessee under this Lease, and that Lessee could not have otherwise discovered through the exercise of reasonable diligence in advance of commencing its performance of its obligations at the Premises.

**1.7 Confidential Information**

“Confidential Information” means all oral and written information exchanged between the Parties which contain proprietary business or confidential information of a Party, and is designated as “confidential” by such Party. The following exceptions, however, do not constitute Confidential Information for purposes of this Lease: (a) information that is or becomes generally available to the public other than as a result of a disclosure by either Party in violation of this Lease; (b) information that was already known by either Party on a non-confidential basis prior to this Lease; (c) information that becomes available to either Party on a non-confidential basis from a source other than the other Party if such source was not subject to any prohibition against disclosing the information to such Party; and (d) information a Party is required to disclose in connection with any administrative or regulatory approval or filing process in connection with the conduct of its business or in accordance with any statute or regulations. In connection with the above, the Parties acknowledge that notwithstanding the above, Lessor is a public entity which is subject to certain public records disclosure statutes and regulations.

**1.8 Construction Easement Area**

“Construction Easement Area” means the portion of the Property over which the Lessee has appurtenant rights for installation and construction of the Solar Energy Facility pursuant to Clause 2.1, as is described, depicted or mapped on Exhibit A, as such Exhibit A may be amended in accordance with the provisions of this Lease.

**1.9 Day**

“Day” means calendar day.

**1.10 Documented Site Conditions**

“Documented Site Conditions” means those conditions at the Premises documented in any engineering or other similar reports that are provided by Lessor to Lessee, or are conducted by or on behalf of Lessee, prior to the Effective Date.

**1.11 Effective Date**

“Effective Date” means the date of the Letter of Acceptance.

**1.12 Environmental Laws**

“Environmental Laws” means all Applicable Legal Requirements regarding or related to the protection of the environment or human health and safety.

**1.13 Event of Default**

“Event of Default” has the meaning set forth in Clause 14.

**1.14 Financier**

“Financier” means any individual or entity providing money or extending credit to Lessee for the purpose of procuring, constructing, owning, operating, maintaining, repairing, decommissioning or removing the Solar Energy Facility.

- 1.15 Force Majeure** “Force Majeure” means any cause not within the reasonable control of the affected Party which precludes that Party from carrying out, in whole or in part, its obligations under this Lease, including, but not limited to, Acts of God; high winds, hurricanes or tornados (but not the lack of sunshine); fires; epidemics; landslides; earthquakes; floods; other natural catastrophes; strikes; lock-outs or other industrial disturbances; acts of public enemies; acts, failures to act or orders of any kind of any Governmental Authority acting in its regulatory or judicial capacity, provided, however, that any such discretionary acts, failures to act or orders of any kind by Lessor may not be asserted as an event of Force Majeure by Lessor; insurrections; military action; war, whether or not it is declared; sabotage; riots; civil disturbances or explosions. A Party may not assert an event of Force Majeure to excuse it from performing due to any governmental act, failure to act, or order, where it was reasonably within such Party’s power to prevent such act, failure to act, or order. Economic hardship of either Party shall not constitute an event of Force Majeure.
- 1.16 Full Operations Date** “Full Operations Date” means the date on which the Solar Energy Facility has achieved Commissioning Completion and has commenced delivering electricity to national grid of CEB distribution system.
- 1.17 Governmental Authority** “Governmental Authority” means any national, state or local government, independent system operator, regional transmission owner or operator, any political subdivision thereof or any other governmental, judicial, regulatory, public or statutory instrumentality, authority, body, agency, department, bureau, or entity.
- 1.18 Hazardous Materials** “Hazardous Materials” means those substances defined, classified, or otherwise denominated as a “hazardous substance,” “toxic substance,” “hazardous material,” “hazardous waste,” “hazardous pollutant,” “toxic pollutant” or oil in any Environmental Law or in any regulations promulgated pursuant to Environmental Laws.
- 1.19 Initial Contract Price** “Initial Contract Price” means the amount stated in the Letter of Acceptance.
- 1.20 Interconnection Agreement(s)** “Interconnection Agreement(s)” shall mean one or more Interconnection Service Agreements entered into with Ceylon Electricity Board (CEB) which authorize the interconnection of the Solar Energy Facility with the national grid electric distribution system of CEB, which confirms the entirety of or each unit of the Solar Energy Facility as eligible for treatment as per the criteria of Net Plus Plus, where Electricity Board will pay (“Revenue”), for the total amount of electricity the Lessee generate and upload to National Grid as per the terms and conditions stated under this Interconnection Agreement(s).
- 1.21 Interest Rate** “Interest Rate” means rate of interest of 1% over the lending rate of the Central Bank to Commercial Banks.

<b>1.22 kW</b>	“kW” means kilowatt.
<b>1.23 kWh</b>	“kWh” means kilowatt hour.
<b>1.24 Lease</b>	<p>“Lease” is the Lease between Lessor and the Lessee to execute the Lease Based Assignment and shall include the following documents and the priority of the documents shall be in accordance with the order as listed below:</p> <ol style="list-style-type: none"> <li>1. Lease Agreement</li> <li>2. the Letter of Acceptance</li> <li>3. Memorandum of Understanding (if any)</li> <li>4. the Lessee's Bid</li> <li>5. Lease Data</li> <li>6. Conditions of Lease</li> <li>7. Terms of Reference</li> </ol>
<b>1.25 Lessee</b>	“Lessee” is a person, corporate body, partnership, joint venture or consortium who’s Bid to carry out the Lease Based Assignment has been accepted by the Lessor.
<b>1.26 Lease Based Assignment</b>	“ Lease Based Assignment ” has a name and identification number as given in the Lease Data and has the meaning of an assignment consists of financing, developing, owning, operating, maintaining and removal of solar power electric generation facilities on the selected buildings of Northern Provincial Councils as further set forth on Exhibit A,; obtained under lease basis and sell the solar generated electricity to Ceylon Electricity Board (CEB) through an agreement (Interconnection Agreement(s)) between Lessee and Ceylon Electricity Board on the basis of Scheme 3 – Net Plus, where Ceylon Electricity Board will pay, for the total amount of electricity the Lessee generate as per the terms and conditions under Soorya Bala Sangramaya program and sharing a portion of revenue with the Lessor.
<b>1.27 Lease Payment</b>	“Lease Payment” has the meaning set forth in Clause 4.1.
<b>1.28 Lessor</b>	“Lessor” is the Party named in the Lease Data, who employs the Lessee to carry out the Lease Based Assignment.
<b>1.29 Lessor’s Authorized Representative</b>	“Lessor’s Authorized Representative” as named in the Lease Data and authorized by the Lesser to administrate the Lease on his behalf.
<b>1.30 Lessor Indemnified Parties</b>	“Lessor Indemnified Parties” has the meaning set forth in Clause 12.
<b>1.31 Letter of Acceptance</b>	“Letter of Acceptance” means the letter signed and issued by the Lessor accepting the Bid submitted by the Lessee to finance, install, own, operate and maintain the Solar Energy Facility on the Premises; and to provide a portion of “Revenue” to Lessor as “Lease Payment”, as further set forth in Clause 4.1.
<b>1.32 MW</b>	“MW” means Megawatt.

<b>1.33 MWh</b>	“MWh” means Megawatt hour.
<b>1.34 Notice of Commencement</b>	“Notice of Commencement” has the meaning set forth in Clause 2.5.
<b>1.35 Parties</b>	“Parties” means Lessor and Lessee, and their respective successors and permitted assignees.
<b>1.36 Party</b>	“Party” means Lessor or Lessee, and their respective successors and permitted assignees.
<b>1.37 Permits</b>	“Permits” means all state, provincial, and local authorizations, certificates, permits, licenses and approvals required by any Governmental Authority for the construction, operation and maintenance of the Solar Energy Facility.
<b>1.38 Permitted Improvements</b>	“Permitted Improvements” means the Solar Energy Facility that will be used to conduct the Permitted Use, together with accessory uses thereto, including, but not limited to, access roads and electric interconnection facilities.
<b>1.39 Permitted Use</b>	“Permitted Use” means the use and occupation of the Premises solely and exclusively for the design, construction, operation, maintenance, repair and removal of the Permitted Improvements, which are designed and intended for the purpose of generating solar-generated electricity.
<b>1.40 Person</b>	“Person” means an individual, partnership, corporation (including a business trust), limited liability company, joint stock company, trusts, unincorporated association, joint venture, consortium or other business entity.
<b>1.41 Premises</b>	“Premises” has the meaning set forth in Exhibit A, as such Exhibit A may be amended in accordance with the provisions of this Lease.
<b>1.42 Property</b>	“Property” means the buildings located in Northern Province (the “Property”) as further set forth on Exhibit A, and may be amended in accordance with the provisions of this Lease.
<b>1.43 Prudent Solar Industry Practice</b>	“Prudent Solar Industry Practice” means those practices generally recognized by the solar industry, including Lessee, in Sri Lanka as good and proper, and such other practices, methods or acts which, in the exercise of reasonable judgment by those reasonably experienced in the industry in light of the facts known at the time a decision is made, would be expected to accomplish the result intended at a reasonable cost, consistent with reliability, safety, site security, expedition, project economics and Applicable Legal Requirements. Prudent Solar Industry Practices are not intended to be limited to the optimum practices, methods or acts to the exclusion of all others, but rather to be a spectrum of good and proper practices, methods and acts.

- 1.44 Release** “Release” has the meaning set forth in Clause 20.5.
- 1.45 Revenue** “Revenue” shall mean the payment received by the Lessee from Ceylon Electricity Board (CEB) for the total amount of electricity the Lessee generate and upload to national grid of CEB electric distribution system as per the terms and conditions of Interconnection Agreement(s).
- 1.46 Solar Energy Facility** “Solar Energy Facility” means the solar power electrical generation facility to be constructed (using new and previously unused components), owned, operated and maintained by Lessee, with specifications for an aggregate nameplate capacity as defined in the Contact Agreement, together with all appurtenant facilities, including but not limited to necessary interconnection facilities and transformers required to interconnect the Solar Energy Facility to the national grid of CEB electric distribution system, and any and all Substantial Alterations, additions, replacements or modifications thereto, all to be located on or adjacent to the Premises.
- 1.47 Substantial Alteration** “Substantial Alteration” has the meaning set forth in Clause 9.8.
- 1.48 Term** “Term” has the meaning set forth in Clause 3.1.
- 1.49 Termination Date** “Termination Date” means the earlier to occur of (i) the last day of the Term, (ii) the date of termination of this Lease as the result of an Event of Default, and (iii) the date of termination pursuant to Clause 16.
- 1.50 Title** “Title” has the meaning set forth in Clause 6.2.
- 1.51 Triggering Event** “Triggering Event” has the meaning given to it in Clause 7.1.
- 1.52 Utility Easement Area** “Utility Easement Area” means the portion of the Property over which the Lessee has appurtenant rights for the installation, construction, operation and maintenance of electrical utility infrastructure required for the Solar Energy Facility pursuant to Clause 2.1, as may be described, depicted or mapped on Exhibit A, as such Exhibit A may be amended in accordance with the provisions of this Lease.
- 1.53 Work** “Work” has the meaning set forth in Clause 13.1.

## 2. Lease of Premises

### 2.1 Premises

Lessor, for and in consideration of the rents, covenants, and agreements herein contained on the part of Lessee to be paid, kept, and performed, does hereby lease, rent, let, and demise unto Lessee, and Lessee does hereby take, accept, hire, and lease from Lessor, upon and subject to the conditions hereinafter expressed, the Premises (as further described in and shown on Exhibit A, as such Exhibit A may be amended in accordance with the provisions of this Lease) for the sole and exclusive purpose of conducting the Permitted Use and designing, constructing, operating, maintaining, repairing, and expanding the Permitted Improvements. Appurtenant to Lessee's rights to the Premises is the non-exclusive right, subject to the terms set forth herein, to use each of the Access Easement Area, Construction Easement Area, and Utility Easement Area for its specified purpose. The Premises, which shall include the Lessee's appurtenant rights to the Access Easement Area, Construction Easement Area, and Utility Easement Area, are demised subject to the following:

- (a) any encumbrances shown on the survey of the Property or the Premises;
- (b) covenants, restrictions, easements, agreements, and reservations, as set forth in Exhibit A, as such Exhibit A may be amended in accordance with the provisions of this Lease;
- (c) present and future zoning laws, ordinances, resolutions and regulations of the local authority in which the land lies, and all present and future ordinances, laws, regulations, and orders of all boards, bureaus, commissions, and bodies of any local authority, provincial council or state, now or hereafter having jurisdiction, so long as they permit or otherwise regulate the use of the Premises for the Permitted Use (provided that Lessor shall not restrict or encumber the Premises for the Permitted Use after the Effective Date);
- (d) the condition and state of repair of the Premises as the same may be on the Effective Date;
- (e) full compliance by the Lessee to meet expenditures on all water charges, electric charges, and sewer rents, accrued or un-accrued, fixed or not fixed, from and after the Effective Date arising as a result of the construction and operation of the Solar Energy Facility, the Permitted Improvements, or any other appurtenant facilities or improvements associated with the Permitted Use; and
- (f) full compliance by the Lessee with all Applicable Legal Requirements that require compliance by Lessee in connection with the Premises, the Permitted Use or the Permitted Improvements (provided, however, that Lessor shall not restrict or otherwise encumber the Premises for the Permitted Use after the Effective Date).

Exhibit A attached to this Lease as of the Effective Date includes the Parties' initial approximation of the Premises. Lessee shall be permitted to propose to Lessor amendments to Exhibit A that set forth an updated description of and drawings indicating the Premises (including the Access Easement Area, Construction Easement Area, Point of Delivery and Utility Easement Area), one such amendment to be submitted before commencement of installation work on the Solar Energy Facility and another to be submitted upon completion of the Solar Energy Facility that shall indicate the as-built location of the Solar Energy Facility and all Permitted Improvements. Lessor shall review such proposed amendments to Exhibit A and approve such amendments in a written consent executed by Lessee and Lessor. Lessor's approval shall not be unreasonably denied or delayed; provided, however, in the event the Lessor does not provide such approval, the Parties shall be obligated to negotiate in good faith in order to reach agreement on the form of such proposed amendments.

#### 2.2 Net Lease.

Lessor shall not be required to make any expenditure, incur any obligation, or incur any liability in connection with this Lease or the ownership, construction, operation, maintenance, or repair of the Permitted Improvements throughout the Term, except as otherwise provided in this Lease. Lessee hereby accepts the condition of the Premises and the Property as they may affect Lessee's construction, operation, repair, demolition, maintenance, and management of the Permitted Improvements. The Parties agree that Lessee shall not be liable for any conditions on the Premises (a) arising from or related to acts or omissions occurring prior to the Effective Date, except to the extent arising from or related to Lessee's negligence or willful misconduct; or (b) occurring after the Effective Date that arise from or are related to Lessor's negligence or willful misconduct.

#### 2.3 Ownership of the Permitted Improvements

Except as otherwise expressly provided herein, Lessor shall have no ownership of, or other interest in, the Permitted Improvements.

#### 2.4 Additional Use

Except with the prior express written consent of Lessor, Lessee shall not use the Premises for any use other than the Permitted Use.

#### 2.5 Notice of Commencement; Delivery of Possession.

At any time after the Effective Date and before Lessee's commencement of its construction activities on the Premises with respect to the Permitted Improvements, Lessee shall deliver to Lessor a notice of commencement of its obligations under this Lease (the "Notice of Commencement"), which notice shall state the date as of which Lessee's obligations under this Lease shall have commenced and shall state the approximate date as of which Lessee intends to begin its construction activities at the Premises with respect to the Permitted Improvements. Lessor shall deliver full possession of the Premises to Lessee as of the date of Lessee's Notice of Commencement.

2.6 Access to Premises Before Notice of Commencement During the period after the Effective Date and before Lessee's delivery of its Notice of Commencement, as requested by Lessee after Lessee's having provided reasonable advance notice Lessor, Lessor shall provide Lessee with reasonable access to the Premises for purposes of evaluating the condition of the Premises and in connection with designing and engineering the Permitted Improvements; provided, however, that Lessee's access shall be subject to (a) Lessee's compliance with applicable law, and (b) the provision by Lessee of reasonable insurance in reasonable amounts, consistent with the provisions of Clause 5 herein.

### 3. Term

3.1 Term (a) The term of this Lease (the "Term") shall commence on the Effective Date, and, unless terminated earlier pursuant to the provisions of this Lease, shall continue until 11:59 PM on the day preceding the thirtyfifth (35<sup>th</sup>) anniversary of the Effective Date (the "Termination Date").

(b) The Parties, upon mutual written agreement entered into at least one year before the end of the Term, may extend the Term for an additional period of time as may be agreed upon by the Parties.

3.2 Early Termination. Either Party may terminate this Lease without penalty or any liability to the other Party prior to the achievement of the Full Operations Date as specified below:

(a) in the event that Lessee has not prepared and submitted a complete interconnection application to CEB seeking authorization to construct and interconnect the Solar Energy Facility to the national grid electric distribution system within ninety (90) days of the Effective Date;

(b) in the event a Governmental Authority decrees, orders or demands that development of the Solar Energy Facility cease by reason of or arising in connection with the performance or non-performance of either Party of any of its obligations under any Permit;

(c) in the event that the Interconnection Agreement(s), in form and substance satisfactory to Lessee and Lessor, in each of its reasonable discretion, are not finalized and executed within two hundred ten (210) days of Lessee's submission of the interconnection application, provided, however, that the terminating Party shall give the other Party thirty (30) days prior written notice of its intent to terminate this Lease if such Interconnection Agreement(s) are not timely obtained, and such notice of termination shall be void if such Interconnection Agreement(s) are obtained within thirty (30) days of the non-terminating Party's receipt of such notice;

(d) in the event that Lessee has not obtained financing sufficient to purchase, construct, commission, own and operate the Solar Energy

Facility within eighteen (18) months of the Effective Date, provided, however, Lessor (subject to the provisions of sub Clause (e), below) shall not have the right to terminate this Lease at such time if any final Permit necessary for the construction, financing, or operation of the Solar Energy Facility has not been obtained due to a legal challenge, and Lessee is using and continues to use commercially reasonable efforts to obtain such final, non-appealable Permits;

(e) except as set forth below, in the event that Lessee has not entered into a binding purchase order for the material components of the Solar Energy Facility within eighteen (18) months of the Effective Date; or

(f) except as set forth below, in the event that the Full Operations Date does not occur within twenty-four (24) months of the Effective Date. In the case of termination pursuant to any of sub Clauses (a) through (f) above, the terminating Party shall give the other Party thirty (30) days prior written notice of its intent to terminate within thirty (30) days after the occurrence of the applicable deadline.

In the event that a Party fails to provide such notice, the Party shall be deemed to have waived its right to terminate under the applicable sub Clause in question. Notwithstanding any other provision of this Lease, the Parties acknowledge and agree that the deadlines set forth in sub Clauses (e) and (f) above shall not be extended or otherwise excused by Force Majeure. Notwithstanding any other provision of this Lease, the Parties also acknowledge and agree that provided Lessee has used all commercially reasonable efforts to cause CEB to timely issue the Interconnection Agreement(s) in accordance with the norms of Soorya Bala Sangramaya program, the deadline set forth in sub Clause (c) above shall be extended on a day-to-day basis in the event that CEB has not tendered to Lessee such Interconnection Agreement(s) on or before the one hundred eightieth (180th) day after the date on which Lessee filed its application with CEB under sub Clause (a) above.

Except as specifically set forth in this Lease, each Party's right to terminate this Lease in accordance with this Clause 3.2 shall constitute its sole remedy for the failure to achieve the milestones specified in this Clause 3.2.

#### **4. Rent and Other Consideration**

#### 4.1 Lease Payment

(a) During the Term of first 20 years of this Lease, Lessee shall pay to Lessor, pursuant to Lessor's written instructions, without notice or demand, a Lease Payment on monthly basis of amount equivalent to the percentage (%) of Revenue offered by the Lessee is his Bid and / or modified by a Memorandum of Understanding and accepted by the Lessor in his Letter of Acceptance within 21 Days of the following Month from Full Operations Date until the expiry of the Term of this Lease.

(b) During the Term of this Lease, Lessee shall pay all property (real or personal) taxes assessed by Lessor with respect to the Solar Energy Facility or Lessee's leasehold interest in the Premises.

(c) If the Lessee makes a late payment the Lessor shall be paid interest on the late payment in the next payment. Interest shall be calculated from the date by which the payment should have been made up to the date when the late payment is made at the prevailing rate of interest of 1% over the lending rate of the Central Bank to Commercial Banks.

#### 4.2 Financial Assurance

Lessee shall furnish, for Lessor's benefit, performance security (s), issued by a commercial bank operating in Sri Lanka approved by the Central Bank using the form for Performance Security (unconditional guarantee) and as follows:

(a) Within 14 Days after receipt of the Letter of Acceptance, the successful bidder shall deliver to the Lessor a Performance Security in the amount stipulated in the Lease Data and shall be valid till 28 days beyond the expiry date of initial Term.

(b) no later than nineteen (19) years prior to the expiration of the initial Term, a Performance Security in the amount stipulated in the Lease Data and shall be valid till 28 days beyond the expiry date for the removal of the Solar Energy Facility from the Premises (end of 35 years) as security to pay for the removal of the Solar Energy Facility from the Premises upon expiration of the Lease.

Any dispute between the Parties with respect to the application of the proceeds of any such bond shall be resolved pursuant to the provisions of Clause 21.5 herein.

### 5. Insurance

- 5.1 Public Liability and Property Damage Insurance. Commencing on the date of its Notice of Commencement and during the remainder of the Term, and except to the extent otherwise required by Applicable Legal Requirements or by the Interconnection Agreement, Lessee at its cost shall maintain commercial general liability insurance on the Premises that is written on an occurrence basis insuring against all liability for personal injury and property damage arising out of and in connection with the Premises, the Permitted Use, the Permitted Improvements, or Lessee’s use or occupancy of the Premises, in standard form with a general aggregate limit of not less than the amount stipulated in the Lease Data, a products-completed operations aggregate limit of not less than the amount stipulated in the Lease Data, and a per occurrence limit of not less than the amount stipulated in the Lease Data, for bodily injury and property damage, with a commercially-reasonable deductible, and which shall include operations and blanket contractual liability coverage which insures performance by Lessee of the indemnity provisions of this Lease.
- 5.2 Property Insurance – Personal Property. Commencing on the date of its Notice of Commencement and during the remainder of the Term, Lessee at its cost shall maintain on all of its personal property on or about the Premises a policy of “all risk” or “special causes of loss” property insurance, with a commercially-reasonable deductible, and with vandalism and malicious mischief endorsements, to the extent of at least 100 percent of their full replacement value.
- 5.3 Property Insurance – Permitted Use. Commencing on the date of its Notice of Commencement and during the remainder of the Term, Lessee at its cost shall maintain on the Permitted Improvements a policy of “all risk” property insurance in an amount not less than 100 percent of the full replacement value of the Permitted Improvements, and with a commercially reasonable deductible. Such insurance shall also include, if applicable, flood and earthquake perils in such amounts and with such deductibles as are approved by Lessor, which approval shall not be unreasonably conditioned, withheld or delayed.
- 5.4 Workers’ Compensation Insurance. Commencing on the date of its Notice of Commencement and during the remainder of the Term, if applicable, Lessee shall at its cost maintain Workers’ Compensation Insurance, an employer’s liability insurance with a limit of at least the amount stipulated in the Lease Data per accident and per employee.
- 5.5 Lessor’s Insurance. During the Term, Lessor at its cost may maintain insurance of the type and in the amount(s) customarily maintained to mitigate omissions or negligence by Lessor or any of its tenants, agents, contractors, servants, employees, subtenants, licensees or invitees on the Premises that may affect the Permitted Improvements.
- 5.6 Insurance Companies. All insurance required under this Lease shall be issued by insurance companies acceptable to the Lessor and authorized to do business in Sri Lanka.

5.7 Policy Delivery, Payment Evidence. Concurrently with the delivery of its Notice of Commencement and not less than thirty (30) days prior to the expiration dates of the expiring policies furnished pursuant to this Clause 5, certificates of insurance bearing notations evidencing the payment of premiums or accompanied by other evidence satisfactory to the other Party of such payment shall be delivered by Lessee and Lessor to the other Party.

5.8 Notice of Cancellation. Each certificate of insurance delivered hereunder, to the extent obtainable, shall contain an agreement by the insurer that such policy shall not be cancelled or surrendered without at least thirty (30) days prior written notice to the other Party.

## **6. Surrender on Termination**

6.1 Surrender and Removal of Property (a) On the Termination Date, Lessee shall peaceably and quietly leave, surrender and yield up unto Lessor the Premises and all the solar system installed.

(b) Notwithstanding the foregoing, Lessee shall be required to change the agreement between Lessee and CEB to Lessor and CEB.

(c) Notwithstanding anything to the contrary contained elsewhere in this Lease, any waiver in whole or in part of the foregoing requirement to decommission and remove the Permitted Improvements shall require the written approval of the Lessor. Any property, improvements, or Permitted Improvements left on the Premises after the passage of one hundred twenty (120) days after the Termination Date may, at the option of Lessor, be deemed to have been abandoned, and either may be retained by Lessor as its property, or may be disposed of in such manner as Lessor may see fit and at Lessee's sole cost; provided, however, that Lessor's election to retain all or any portion of the Permitted Improvements as its property shall relieve Lessee from any liability for its failure to remove such Permitted Improvements; and provided further, however, that the forgoing shall not apply to any property, improvements or Permitted Improvements of Lessee that are not timely removed if the failure to remove is caused by an event of Force Majeure or the negligent acts or omissions of Lessor (in which in either case the time period for removal shall be extended on a day for day basis).

(d) Lessor shall keep the Performance Security until the end of Terms (35 Years). The Lessee shall do decommission the Solar Energy Facility and return the Premises and appurtenant areas to approximately their original condition existing on the Effective Date after end of Term (35 Years).

6.2 Title. Title to the Permitted Improvements shall be in the Lessee; provided, however, that in the event that Lessor elects to retain any portion of the Permitted Improvements then existing on the Premises as Lessor's property, Title to such portion of the Permitted Improvements shall automatically vest in Lessor without the necessity of any deed, conveyance or bill of sale thereon and without any representations or warranties by Lessee.

**7. Lessor's  
Performance of  
Lessee's  
Obligations**

7.1 Cures – Rights, Costs and Damages. If Lessee fails to make any payment required under this Lease beyond the expiration of all applicable notice and grace periods, or shall default in the performance of any material covenant, term, provision, limitation, or condition contained in this Lease beyond the expiration of all applicable notice and grace periods (hereafter, collectively, a "Triggering Event"), Lessor, without being under any obligation to do so and without waiving such default, may make such payment and/or remedy such other default for the account and at the expense of Lessee, immediately upon notice in the case of emergency or if necessary to protect public health or safety, or to avoid forfeiture of a material right, or in any other case only provided Lessee shall fail to make such payment within sixty (60) days or remedy such default within sixty (60) days, or such longer period as may be required due to the nature of such default (provided Lessee has commenced and is diligently prosecuting a cure), after Lessor notifies Lessee in writing of such default.

7.2 Step-in Rights/Step-out. If necessary to protect the public health and safety, regardless of whether Lessor exercises its rights pursuant to Clause 7.1 of this Lease, Lessor shall have the right, but not the obligation, and to the extent permitted by Applicable Legal Requirements, to take possession of the Premises and the Permitted Improvements and to operate the Permitted Improvements, until Lessee demonstrates to the reasonable satisfaction of Lessor that the events giving rise to the endangerment of the public health and safety have been cured, and that Lessee has taken all reasonably necessary steps to ensure that such events shall not reoccur. Lessor shall not be liable to Lessee for any damages, losses or claims sustained by or made against Lessee as a result of Lessor's exercise of possession and operational control of the Permitted Improvements except to the extent such damages, losses or claims result from the negligence or willful misconduct of Lessor. Lessor and Lessor's representatives shall at all times comply with all reasonable safety and other operating procedures established by Lessee, and with all Applicable Legal Requirements.

## 8. Duty to Maintain

### 8.1 Lessee's Duty

- (a) Maintenance; Repairs. Subject to Clauses 13 and 14, commencing upon and continuing after the date of Lessee's Notice of Commencement, Lessee shall take good care of the Permitted Improvements and perform its obligations with respect to the Premises, conduct all required maintenance and make all repairs to the Permitted Improvements, interior and exterior, structural and non-structural, ordinary and extraordinary, foreseen and unforeseen, and shall maintain and keep the Permitted Improvements in accordance with Prudent Solar Industry Practice, reasonable wear and tear excepted. Such obligations, in addition to Lessee's obligations to maintain and repair the Permitted Improvements, shall include, but not be limited to, maintaining the Permitted Improvements in a condition of commercial operation, and taking all actions necessary or desirable to comply with the Applicable Legal Requirements.
- (b) Utilities. Lessee shall make all arrangements for and pay directly to the entity providing the service, before delinquent, all charges for all utilities and services furnished to or used by it, including, without limitation, gas, electricity, water, steam, telephone service, trash collection and connection charges.

### 8.2 Public Safety.

Lessor shall, as promptly as possible, notify Lessee of the occurrence of any event or the existence of any condition or circumstance that, in Lessor's reasonable judgment, poses an imminent threat or hazard to public health or safety (an "Emergency"). Lessor shall have the right (but not the obligation), to the extent permitted by Applicable Legal Requirements, to enter the Premises for the sole purpose of responding to the dangerous condition; provided that any actions taken by Lessor upon such entry shall be limited to those reasonably necessary to respond to the Emergency. Lessee shall respond to any such Emergency as promptly as possible (which period of time shall not exceed 48 hours), and take all measures necessary to address the condition that gave rise to the Emergency.

8.3 Construction, Maintenance, and Monitoring of Solar Energy Facility.

(a) Lessee, at its sole cost and expense, and in accordance with Prudent Solar Industry Practice, shall at all times:

(i) have responsibility for the costs and performance of construction of the Solar Energy Facility, procuring and maintaining insurance on the Solar Energy Facility, and paying taxes on the Solar Energy Facility;

(ii) bear the risk of loss in case of a theft, damage, casualty, condemnation or confiscation of the Solar Energy Facility; and

(iii) remove the Solar Energy Facility from the Premises upon the termination or expiration of this Lease.

(b) The Lessor shall have no obligation to perform any of the Lessee obligations set forth in sub-Clause (a) above, and Lessee shall be solely responsible for the performance of all such obligations.

(c) In connection with its performance of the obligations set forth in sub Clause (a) above, Lessee may, in its reasonable discretion, elect to use subcontractors in performing any of such obligations, and the performance of any such obligation of Lessee by any such subcontractor shall satisfy such obligation; provided, however, that (i) each such subcontractor shall have performed such obligations in accordance with the standards of performance required of Lessee under this Lease; and (ii) Lessee shall remain liable to Lessor for the performance of such obligations under this Agreement, notwithstanding Lessee's use of such subcontractors.

8.4 Lessor's Right to Re-Roof.

If the Solar Energy Facility is mounted on the roof of a building, Lessee agrees that it shall bear the cost of moving the Solar Energy Facility, at the request of the Lessor and only, if necessary, once during the Term to allow Lessor to re-roof the building. This will include removing the Solar Energy Facility from the roof, storing the Solar Energy Facility components at Lessee's expense or as arrangements allow for storage at the building, and re-installing the Solar Energy Facility as per the approved design and plans; provided, however, that (i) Lessor shall provide Lessee with at least thirty (30) days' prior written notice of its intent to re-roof the building, (ii) Lessor shall complete all re-roofing activities where the Solar Energy Facility was removed within sixty (60) days, weather permitting, and (iii) any new roof installed by Lessor on the Premises shall be suitable to support the continued operation of the Solar Energy Facility, as it existed and operated prior to such reroofing installation. Lessee agrees that it will defend, indemnify and hold harmless Lessor for any damages incurred as a result of Lessee's removal, storage, and re-installation of the Solar Energy Facility, and shall reinstall the Solar Energy Facility in a manner that will not jeopardize the warranty of the new roof as installed.

**9. Construction and Operation of Permitted Improvements**

9.1 General Description.

Except as otherwise specified herein, the Permitted Improvements shall consist solely of the improvements attached hereto as of the Effective Date includes a preliminary description of the specifications of the major components of the Solar Energy Facility to be constructed by the Lessee. Lessee shall update to include a description of the Permitted Improvements prior to Lessee's commencement of construction of the Permitted Improvements.

9.2 Governmental Approval.

(a) Except as otherwise specified herein if any, or otherwise obtained prior to the Effective Date, Lessee will obtain at its sole cost all Permits required for Lessee's use of the Premises, the Permitted Use, and the Permitted Improvements from any and all Governmental Authorities having jurisdiction in the matter. Lessee will promptly inform Lessor of all significant developments relating to the issuance of such Permits. If any changes in such plans and/or specifications are required by any Governmental Authority, then Lessee shall submit such changes, if any, to Lessor for its approval, which shall not be unreasonably conditioned, withheld or delayed.

(b) Lessor shall reasonably cooperate with Lessee so that Lessee can meet its obligations under this Lease. Lessor agrees to take all reasonable measures with respect to which it has legal capacity to facilitate and expedite the review of all local permits and approvals necessary for the design, construction, engineering, operations, maintenance and deconstruction of the Solar Energy Facility and to act at all times during such review within its legal capacity.

9.3 Development Commences Promptly.

Lessee shall:

(a) commence the necessary activities for the permitting, designing and engineering of the Permitted Improvements promptly following the Effective Date;

(b) commence the necessary activities for the construction of the Permitted Improvements promptly following the date of its Notice of Commencement; and

(c) proceed diligently and continuously thereafter until completion, subject to only an event of Force Majeure.

9.4 Completion Requirements.

Lessee will arrange for the construction of the Permitted Improvements in a good, careful, proper and workmanlike manner in accordance with Prudent Solar Industry Practice and all Applicable Legal Requirements.

9.5 Construction Insurance.

During the course of construction of the Permitted Improvements, Lessee will carry or cause Lessee's contractor(s) to carry (and cause each such contractor to cause its subcontractors to carry) adequate workers' compensation insurance and such other insurance as is specified in Clause 5.

- 9.6 Access to and Use of the Premises. Subject to Clause 8, during construction and operation of the Permitted Improvements, including, but not limited to, all related preconstruction activities, Lessee and its contractors or agents shall have access to the Premises at all times.
- 9.7 As-built Plans. Within ninety (90) days following the Full Operations Date, Lessee shall prepare and deliver to Lessor detailed as-built plans accurately depicting the Permitted Improvements including, without limitation, all underground structures.
- 9.8 Alterations. Lessee shall have the right from time to time both before and after the completion of the Permitted Improvements and at Lessee's sole cost and expense to make additions, alterations and changes, other than structural changes, to the Premises as is reasonably required to conduct the Permitted Use in compliance with the provisions of this Lease, subject, however, in all cases to the following:
- (a) Except as set forth herein, no alteration shall be made which would tend to (i) materially change the general design, use, character or structure of the Solar Energy Facility, or (ii) reduce or impair, to any material extent, the use of the Solar Energy Facility for the generation of electricity, subject to applicable laws and safety standards (any such alteration, a "Substantial Alteration").
  - (b) No Substantial Alteration shall be commenced except after prior written notice to and consent from Lessor, which consent shall not be unreasonably conditioned, withheld or delayed by Lessor.
  - (c) Substantial Alterations shall not include any repairs or replacement of parts to the Permitted Improvements, as set forth in Clause 2.1
  - (d) Any Substantial Alteration shall be conducted under the supervision of a contractor, architect or engineer selected by Lessee and approved in writing by Lessor, which approval shall not be unreasonably conditioned, withheld or delayed, and no such Substantial Alteration shall be made except in accordance with detailed plans and specifications and cost estimates prepared and approved in writing by such contractor, architect or engineer and approved in writing by Lessor, which approval shall not be unreasonably conditioned, withheld or delayed.
  - (e) Any alteration or Substantial Alteration shall be made with reasonable dispatch (Force Majeure events excepted) and in a good and workmanlike manner and in compliance with all applicable permits and authorizations and with all other Applicable Legal Requirements.
  - (f) At or prior to completion of any Substantial Alteration, Lessee will provide Lessor with complete copies of all final plans and specifications thereof not previously provided.

9.9 Concealed  
Conditions.

Prior to the Full Operations Date, Lessee may suspend its performance of its obligations under this Agreement if it encounters Concealed Conditions at the Premises.

(a) If the presence of or required remedy of such Concealed Conditions could reasonably be expected to cause a material increase in the length of time required for Lessee to perform its obligations under this Lease, Lessee shall be entitled to a day-for-day extension in any deadline applicable to such performance under this Lease.

(b) If the presence of or required remedy of such Concealed Conditions could reasonably be expected to cause a material increase in Lessee's cost of performance of any of its obligations under this Lease, Lessee shall be entitled to terminate this Lease upon ten (10) days prior notice to Lessor; provided, however, that if the required remedy for such Concealed Conditions consists of the implementation of structural changes or improvements to the Premises that are required to support the Solar Energy Facility, in lieu of such termination, Lessee shall have the right to request Lessor (at Lessee's sole cost and expense) to use commercially reasonable efforts to implement the required structural changes or improvements in accordance with Applicable Legal Requirements.

**10. Liens**

10.1 No Liens on  
Premises or  
Permitted Use.

Lessee shall not create, or suffer to be created or to remain, and shall promptly discharge, any mechanic's, laborer's or materialman's lien or any mortgage upon the Premises, and Lessee will not suffer any other matter or thing arising out of Lessee's use and occupancy of the Premises whereby the estate, rights and interests of Lessor in the Premises or any part thereof might be impaired.

10.2 Discharge.

If any mechanic's, laborer's or materialman's lien, or any mortgage, shall at any time be filed against the Premises, Lessee, within ten (10) days after notice to Lessee of the filing thereof, shall cause such lien to be discharged of record by payment, deposit, bond, insurance, order of court of competent jurisdiction or otherwise. If Lessee shall fail to cause such lien to be discharged within the period aforesaid, then, in addition to any other right or remedy, Lessor may, but shall not be obligated to, discharge the same either by paying the amount claimed to be due or by procuring the discharge of such lien by deposit or by bonding. Any amount so paid by Lessor and costs and expenses reasonably incurred by Lessor in connection therewith, together with interest thereon at the Interest Rate from the respective dates of Lessor's making of the payment of the cost and expenses, shall be paid by Lessee to Lessor within ten (10) Days of Lessor's invoice therefor.

10.3 No Liens on Permitted Improvements.

Lessor shall not create, or suffer to be created or to remain, and shall promptly discharge, any mechanic's, laborer's or materialman's lien upon the Permitted Improvements or the income therefrom, or any lien arising under or imposed in accordance with any final landfill closure permit and post-closure permit, except to the extent any such lien as may be permitted to be placed upon or remain upon the Permitted Improvements in accordance with and subject to the provisions of this Lease, or arises other than as a result of the acts or omissions of Lessor.

**11. Quiet Enjoyment**

11.1 Quiet Enjoyment.

Lessor covenants that Lessee shall quietly have and enjoy the Premises throughout the Term and any extensions thereof. Lessor warrants and agrees that, throughout the Term and any extensions thereof:

- (a) any other uses of the Premises by Lessor or any third party shall not unreasonably interfere with the Permitted Use and the operational requirements of the Permitted Improvements and shall not materially reduce the solar insolation available to the Solar Energy Facility; and
- (b) Lessor shall, in good faith, use its best efforts to protect Lessee's quiet enjoyment of its rights hereunder.

Lessor's failure to carry out any of its obligations and duties under this provision shall be an Event of Default under Clause 16.1 of this Lease, and Lessee shall be entitled to all of its rights and remedies with respect to such Event of Default as provided in this Lease. Lessor's exercise of self-help pursuant to Clause 7 and rights of entry and inspection pursuant to Clause 11.2 shall not be considered a breach of the covenant of quiet enjoyment. Subject to the specific provisions of this Lease permitting the same, Lessor shall have the right to enter upon the Premises at reasonable times and upon reasonable prior notice, except in the case of emergency, for purposes reasonably related to the Permitted Use of this Lease and no such entry which complies with the provisions of this Lease permitting the same shall be considered a breach of the covenant of quiet enjoyment.

11.2 Inspection and Entry.

During the course of construction and completion of the Permitted Improvements and any Substantial Alteration thereto, Lessee shall maintain all plans, shop drawings, and specifications relating to such construction which Lessor, its agents or contractors may examine at reasonable times upon reasonable prior notice for the purpose of determining whether the work conforms to the agreements contained or referenced in this Lease. Lessor may, upon reasonable prior notice to Lessee, and when accompanied by an employee or agent of Lessee (unless Lessee does not make such employee or agent available to Lessor), enter upon the secured portion(s) of the Premises for the purpose of ascertaining their condition or whether Lessee is observing and performing the obligations assumed by it under this Lease, all without hindrance or molestation from Lessee, and to perform

maintenance and services pursuant to Clause 8.1. Lessor shall also have the right to enter upon the Premises, upon reasonable prior notice to Lessee, for the purpose of exercising its rights under Clause 7. Lessor and Lessor's representatives shall at all times comply with all reasonable safety and other operating procedures established by Lessee, and with all Applicable Legal Requirements.

### 11.3 Limitation of Liability.

Lessor may, during the progress of any work performed by Lessor pursuant to Clause 7, Clause 8.1 or Clause 11.2, keep and store upon the Premises all necessary materials, tools, supplies and equipment, provided that Lessor shall use reasonable efforts to minimize the impact thereof on the normal operation of the Premises, and provided the risk of loss of such materials, tools, supplies, and equipment is that of Lessor unless such loss results from the negligence or intentional misconduct of Lessee, or of Lessee's agent, employee, or contractor. Lessor agrees to promptly remove such materials, tools, supplies, and equipment from the Premises upon completion of Lessor's work.

## 12. Indemnification

### 12.1 Indemnification of Lessor.

Lessee shall indemnify and save harmless Lessor and each of its officials, employees, agents, and assigns (the "Lessor Indemnified Parties") from and against all liabilities, losses, damages, penalties, costs, and expenses, including reasonable attorneys' fees, that may be imposed upon or incurred by or asserted against any Lessor Indemnified Party by reason of any of the following occurrences during the Term, except to the extent such liabilities, losses, damages, penalties, costs, and expenses, including reasonable attorneys' fees, are caused by either (i) the gross negligence or intentional wrongful acts of the Lessor Indemnified Parties, or (ii) the failure or other breach by any Lessor Indemnified Party to perform any of its obligations under Applicable Legal Requirements or any Permit:

- (a) any breach by Lessee of its obligations, covenants, representations or warranties contained in this Lease or made pursuant thereto;
- (b) any negligence on the part of Lessee or any of its agents, contractors, servants, employees, subtenants, licensees or invitees in connection with the Permitted Use or Premises; and
- (c) any failure on the part of Lessee or any of its agents, contractors, servants, employees, subtenants, licensees or invitees to comply with any Applicable Legal Requirements that require compliance by Lessee in connection with the Premises, the Permitted Use or the Permitted Improvements.

In case any action or proceeding is brought against any Lessor Indemnified Party by reason of any such claim, Lessee, upon written notice from Lessor, shall defend such action or proceeding at Lessee's expense to the reasonable satisfaction of Lessor.

### **13. Damage or Destruction; Shutdown**

- 13.1 Lessee Repair and Restoration. If, at any time during the Term, the Solar Energy Facility shall be substantially damaged or destroyed and rendered inoperable by fire or other occurrence of any kind, Lessee shall at its sole cost and expense either (a) repair or replace the Permitted Improvements, or (b) elect to terminate this Lease in which case Lessee shall decommission and remove the Permitted Improvements and promptly restore the Premises to substantially the same condition as existed prior to the Effective Date, except as otherwise specified in Clause 6.1 of this Lease. Such removal, repair or replacement, including such changes and alterations as aforementioned and including temporary repairs, are referred to in this Clause as the “Work.”
- 13.2 Conditions of the Work. Except as otherwise provided in this Clause 13, the conditions under which any Work is to be performed and the method of proceeding with and performing the same shall be governed by all of the provisions of this Lease.
- 13.3 Payment of Insurance Proceeds. All insurance money paid to Lessee on account of such damage or destruction under the policies of insurance provided for in Clause 5, less the cost, if any, incurred in connection with the adjustment of the loss and the collection thereof (the “Insurance Proceeds”), shall be applied by Lessee to the payment of the cost of the Work to the extent such Insurance Proceeds shall be sufficient for the purpose. If the Insurance Proceeds received by Lessee shall not be sufficient to pay the entire cost of the Work or if Lessee finds that the Work is otherwise not economically justified, Lessee may elect not to repair and replace the Permitted Improvements, and to terminate this Lease pursuant to Clause 13.1.
- 13.4 Failure to Commence Repairs. If the Work shall not have been commenced within one hundred eighty (180) days of the date of the casualty or other occurrence, or such longer period as may be reasonably required to adjust the insurance, achieve final plans and obtain all necessary Permits, or if such Work after commencement shall not proceed with due diligence (any Force Majeure event excepted), Lessor may terminate this Lease pursuant to Clause 16. On such termination, the Insurance Proceeds received by Lessee shall be used to the extent necessary to demolish and remove the Permitted Improvements and any other structures on the Premises and to restore the Premises, except as otherwise specified in Clause 6.1 of this Lease.
- Upon the completion of such activities, Lessee shall have no further obligation to pay Lessor the Monthly Lease Payment or any other amount under this Lease (other than payments due as of the effective date of termination and payments required by any provisions of this Lease that expressly survive termination).

13.5 Lessee Right to Terminate in Event of Shutdown. In the event a Governmental Authority decrees, orders or demands that operation of the Solar Energy Facility cease or that the Solar Energy Facility be removed from the Premises, Lessee shall have the right to terminate this Lease without penalty to either Party upon delivery to Lessor of thirty (30) days prior written notice.

**14. Remedies and Limitation of Liability**

14.1 Remedies. Subject to the limitations set forth in this Lease, Lessor and Lessee each reserve and shall have all rights and remedies available to it at law or in equity with respect to the performance or non-performance of the other Party hereto under this Lease. Each Party agrees that it has a duty to mitigate damages that it may incur as a result of the other Party's nonperformance under this Lease.

14.2 Limitation of Liability. Neither party shall be liable to the other for any special, indirect, incidental, consequential, or punitive damages of any character, resulting from, arising out of, in connection with or in any way incident to any act or omission of either party related to the provisions of this lease, irrespective of whether claims or actions for such damages are based upon contract, warranty, negligence, strict liability or any other theory at law or equity.

**15. Assignment, Subletting, Mortgage**

15.1 Assignment, Subletting, Mortgage. Lessee shall not assign or in any manner transfer this Lease or any part thereof to third party under an assignment, subletting or mortgage.

**16. Default and Termination**

16.1 Events of Default by Lessor. The following shall each constitute an Event of Default by Lessor.

(a) Lessor breaches or fails to perform or comply with any material covenant or agreement set forth in this Lease and such failure continues for a period of thirty (30) days after written notice thereof from Lessee to Lessor; provided that if Lessor proceeds with due diligence during such thirty (30) day period to cure such breach and is unable by reason of the nature of the work involved using commercially reasonable efforts to cure the same within the said thirty (30) days, Lessor's time to do so shall be extended by the time reasonably necessary to cure the same.

(b) Fraud or intentional misrepresentation by Lessor with respect to any of the covenants or agreements of this Lease.

16.2 Events of Default by Lessee. The following shall each constitute an Event of Default by Lessee.

(a) Lessee fails to make any material payment due under the Lease within thirty (30) days after such payment is due unless such payment is contested, and payment of such uncontested amount is not made within thirty (30) days of Lessor's written notice to Lessee of such failure.

(b) Lessee breaches or fails to perform or comply with any material covenant or agreement set forth in this Lease and such failure continues for a period of thirty (30) days after written notice thereof from Lessor to Lessee; provided that if Lessee proceeds with due diligence during such thirty (30) day period to cure such breach and is unable by reason of the nature of the work involved using commercially reasonable efforts to cure the same within the said thirty (30) days, Lessee's time to do so shall be extended by the time reasonably necessary to cure the same.

(c) Fraud or intentional misrepresentation by Lessee with respect to any of the covenants or agreements of this Lease.

(d) Lessee: (i) is dissolved (other than pursuant to a consolidation, amalgamation or merger); (ii) becomes insolvent or is unable to pay its debts or fails (or admits in writing its inability) generally to pay its debts as they become due; (iii) makes a general assignment, arrangement or composition with or for the benefit of its creditors; (iv) has instituted against it a proceeding seeking a judgment of insolvency or bankruptcy or any other relief under any bankruptcy or insolvency law or other similar law affecting creditor's rights, or a petition is presented for its winding-up, reorganization or liquidation, which proceeding or petition is not dismissed, stayed or vacated within ninety (90) days thereafter; (v) commences a voluntary proceeding seeking a judgment of insolvency or bankruptcy or any other relief under any bankruptcy or insolvency law or other similar law affecting creditors' rights; (vi) seeks or consents to the appointment of an administrator, provisional liquidator, conservator, receiver, trustee, custodian or other similar official for it or for all or substantially all of its assets; (vii) has a secured party take possession of all or substantially all of its assets, or has a distress, execution, attachment, sequestration or other legal process levied, enforced or sued on or against all or substantially all of its assets; (viii) causes or is subject to any event with respect to it which, under the applicable laws of any jurisdiction, has an analogous effect to any of the events specified in clauses (i) to (vi) inclusive; or (ix) takes any action in furtherance of, or indicating its consent to, approval of, or acquiescence in, any of the foregoing acts.

- 16.3 Force Majeure. (a) If by reason of Force Majeure, either Party is unable to carry out, either in whole or in part, its obligations herein contained, such Party shall not be deemed to be in default during the continuation of such inability, provided that: (i) the non-performing Party, within two (2) weeks after the occurrence of the event of Force Majeure, gives the other Party hereto written notice describing the particulars of the occurrence and the anticipated period of delay; (ii) the suspension of performance be of no greater scope and of no longer duration than is required by the event of Force Majeure; (iii) no obligations of the Party which were to be performed prior to the occurrence causing the suspension of performance shall be excused as a result of the occurrence; and (iv) the non-performing Party shall use commercially reasonable efforts to remedy with all reasonable dispatch the cause or causes preventing it from carrying out its obligations.
- (b) If a Force Majeure event affecting a Party continues for a period of one hundred eighty (180) days or longer, either Party may treat such an event as an Event of Default and may terminate this Lease.
- 16.4 Termination for Default. (a) Upon the occurrence of an Event of Default, the non-defaulting Party at any time thereafter may give written notice to the defaulting Party specifying such Event of Default and such notice may state that this Lease and the Term shall expire and terminate on a date specified in such notice, which shall be at least thirty (30) days after the giving of such notice, and unless such Event of Default is earlier cured by the defaulting Party, this Lease shall terminate upon any termination date specified in such notice as though such date were the date originally set forth herein for the termination hereof.
- (b) In the event this Lease is terminated as a result of an Event of Default by Lessee, Lessee shall remove the Solar Energy Facility from the Premises in accordance with the provisions of this Lease.
- 16.5 Lessee Liability Upon Termination. Except as set forth in provisions surviving the termination of this Lease, as provided in Clause 21.16, and except with respect to any amounts owed and due by Lessee prior to the date of termination, the termination of this Lease shall relieve Lessee of its liability and obligations under this Lease.
- 16.6 Additional Damages. If this Lease shall terminate as provided in Clause 16.2, Lessor, in addition to any other rights under this Clause 16, shall be entitled to recover as damages (i) the cost of performing any work required to be (but not) done by Lessee under this Lease, and (ii) the cost of placing the Premises to approximately the original condition of the Premises as of the Effective Date.

**17. Lessee  
Representations,  
Warranties, and  
Covenants**

- 17.1 Lessee Representations and Warranties. As of the date of this Lease, Lessee represents and warrants to Lessor as follows.
- (a) Lessee is a limited liability company, duly organized, validly existing, and in good standing under the laws of the country of registration and is qualified to transact business in Sri Lanka.
  - (b) Lessee has legal capacity to enter into and perform this Lease.
  - (c) The execution of this Lease has been duly authorized, and each person executing this Lease on behalf of Lessee has authority to do so and to bind Lessee.
  - (d) To Lessee's knowledge, there is no pending or threatened action, suit, proceeding, inquiry, or investigation before or by any judicial court or administrative or law enforcement agency against or affecting Lessee or its properties wherein any unfavorable decision, ruling, or finding would materially and adversely affect the validity or enforceability of this Lease or Lessee's ability to carry out its obligations under this Lease.
  - (e) To Lessee's knowledge, none of the documents or other written or other information furnished by or on behalf of Lessee to Lessor or Lessor's agents pursuant to this Lease contains any untrue statement of a material fact or omits to state any material fact required to be stated therein or necessary to make the statements contained herein or therein, in the light of the circumstances in which they were made, not misleading.
- 17.2 Lessee Payment of Cost Covenants. Lessee covenants to Lessor that Lessee shall be responsible for all costs related to capital improvements to the Premises, including, without limitation, those costs necessary to construct, operate, maintain, repair, remove, replace, and expand the Permitted Improvements.
- 17.3 Lessee Additional Covenants. Lessee makes the following additional covenants to Lessor.
- (a) Lessee shall promptly inform Lessor of the occurrence of any event that materially and adversely affects the operation of the Solar Energy Facility or the performance of Lessee's obligations under this Lease (including, but not limited to, any notices of default under any third party contract and the occurrence of any event that may result in the imposition of material liability or obligations on Lessee or Lessor under any Environmental Law).
  - (b) Lessee shall provide Lessor such other information as Lessor may reasonably request in order to review Lessee's compliance with the terms of this Lease.

**18. Lessor  
Representations,  
Warranties and  
Covenants**

- 18.1 Lessor Representations and Warranties. As of the date of this Lease, Lessor represents and warrants the following to Lessee.
- (a) Lessor is a government entity.
  - (b) Lessor has legal capacity to enter into and perform this Lease.
  - (c) The execution of this Lease has been duly authorized, and each person executing this Lease on behalf of Lessor has authority to do so and to bind Lessor.
  - (d) To Lessor's knowledge, none of the documents or other written or other information furnished by or on behalf of Lessor to Lessee or Lessee's agents pursuant to this Lease contains any untrue statement of a material fact or omits to state any material fact required to be stated therein or necessary to make the statements contained herein or therein, in the light of the circumstances in which they were made, not misleading.
- 18.2 Lessor Covenants. Lessor makes the following covenants to Lessee.
- (a) Throughout the Term and any extensions thereof, Lessor and its officers, employees, contractors, agents, tenants, subtenants, servants, licensees and invitees shall not interfere or allow a third party to interfere with the solar patterns affecting the Permitted Improvements.
  - (b) Throughout the Term and any extensions thereof, as provided in Clause 11.1, Lessor shall protect Lessee's rights of quiet enjoyment.
  - (c) Lessor shall promptly inform Lessee of the occurrence of any event that materially and adversely affects the operation of the Solar Energy Facility or the performance of Lessor's obligations under this Lease (including, but not limited to, any notices of default under any third party contract and the occurrence of any event that may result in the imposition of material liability or obligations on Lessee or Lessor under any Environmental Law).
  - (d) Lessor shall provide Lessee such other information as Lessee may reasonably request in order to review Lessor's compliance with the terms of this Lease.

## **19. No Waivers**

### **19.1 No Implied Waivers – Remedies Cumulative.**

No covenant or agreement of this Lease shall be deemed to have been waived by Lessor or Lessee, unless such waiver shall be in writing and signed by the Party against whom it is to be enforced or such Party's agent. Consent or approval of Lessor or Lessee to any act or matter must be in writing and shall apply only with respect to the particular act or matter in which such consent or approval is given and shall not relieve the other Party from the obligation wherever required under this Lease to obtain consent or approval for any other act or matter. Lessor or Lessee may restrain any breach or threatened breach of any covenant or agreement herein contained, but the mention herein of any particular remedy shall not preclude either Lessor or Lessee from any other remedy it might have, either in law or in equity.

The failure of Lessor or Lessee to insist upon the strict performance of any one of the covenants or agreements of this Lease or to exercise any right, remedy or election herein contained or permitted by law shall not constitute or be construed as a waiver or relinquishment for the future of such covenant or agreement, right, remedy or election, but the same shall continue and remain in full force and effect. Any right or remedy of Lessor or Lessee herein specified or any other right or remedy that Lessor or Lessee may have at law, in equity or otherwise upon breach of any covenant or agreement herein contained shall be a distinct, separate and cumulative right or remedy and no one of them, whether exercised or not, shall be deemed to be in exclusion of any other.

### **19.2 Acceptance of Payment.**

Neither receipt nor acceptance by Lessor of any payment due herein, nor payment of same by Lessee, shall be deemed to be a waiver of any default under the covenants or agreements of this Lease, or of any right or defense that Lessor or Lessee may be entitled to exercise hereunder.

### **19.3 Waiver of Termination for Convenience.**

Lessor hereby expressly waives any rights it may have to cancel this Lease or discharge any of its obligations hereunder on the basis that there may be a right of termination for convenience (whether it be express, implied or constructive) in contracts with public entities.

## **20. Environmental Matters**

### **20.1 Pre-Existing Environmental Conditions.**

(a) Lessee acknowledges and agrees that:

(1) all activities on the Premises, including but not limited to the construction, operation, maintenance, decommissioning and removal of the Solar Energy Facility, must be conducted in conformance with Applicable Legal Requirements and any Permit; and

- (2) Lessee is familiar with the condition and all aspects of the Premises, and that it has approved and accepted the same.
- (b) it is understood and agreed that lessor is not making and has not at any time made any warranties or representations of any kind or character, express or implied, with respect to the premises, including, but not limited to, any warranties or representations as to environmental conditions, habitability, merchantability or fitness for a particular purpose.
- (c) lessee acknowledges and agrees that it has leased and shall accept the premises “as is, where is, with all faults”. Lessee has not relied and will not rely on, and lessor is not liable for or bound by, any express or implied warranties, guaranties, statements, representations or information pertaining to the premises or relating thereto made or furnished by lessor, its employees, or any agent representing or purporting to represent lessor, to whomever made or given, directly or indirectly, orally or in writing. Lessee also acknowledges that the monthly lease payment reflects and takes into account that the premises is being leased “as-is.”
- (d) lessee represents to lessor that lessee is familiar with the premises and has conducted inspections and investigations of the premises, including but not limited to, the physical and environmental conditions thereof, as lessee deems necessary or desirable to satisfy itself as to the condition of the premises and the existence or nonexistence of curative action to be taken with respect to any hazardous or toxic substances on or discharged from the premises, and will rely solely upon same and not upon any information provided by or on behalf of lessor or its agents or employees with respect thereto. Upon the effective date, lessee shall assume the risk that adverse matters, including but not limited to, adverse physical and environmental conditions, may not have been revealed by lessee’s investigations. Lessee, upon the effective date, shall be deemed, for and on behalf of itself and all successors in title, to have waived, relinquished and released lessor (and lessor’s employees and agents) from and against any and all claims, demands, causes of action (including causes of action in tort), losses, damages, liabilities, costs and expenses (including reasonable attorneys’ fees) of any and every kind or character, known or unknown, which lessee might have asserted or alleged against lessor (and lessor’s employees and agents) at any time by reason of or arising out of physical conditions (including environmental conditions), violations of any applicable legal requirements and any and all other acts, omissions, events, circumstances or matters of or regarding the premises.

20.2 Lessee's Obligations with Respect to Hazardous Materials	<p>(a) Lessee shall not cause, suffer or allow any Hazardous Materials to be used, generated or stored on, under or at the Premises without first receiving Lessor's written consent, which may be withheld in Lessor's reasonable discretion, provided, however, that Lessee may store and use at the Premises such Hazardous Materials as are customarily used to construct and maintain the Permitted Improvements, so long as the same are stored, used and disposed of in strict accordance with Applicable Legal Requirements and the location of any such storage is approved by Lessor, such approval not to be unreasonably conditioned, withheld or delayed.</p> <p>(b) Lessee shall exercise best efforts to minimize any risks from the Premises, the Permitted Use, and the Permitted Improvements to the environment.</p> <p>(c) Storage of all oil and Hazardous Materials shall be in strict accordance with Environmental Laws.</p>
20.3 Notices of Release of Hazardous Materials.	<p>Lessee shall immediately notify Lessor of all Releases of Hazardous Materials on the Premises (such oral notification to promptly be followed with a written notification), including, without limitation, all Releases of Hazardous Materials for which Lessee has an obligation to report under Applicable Legal Requirements, and all material notices, orders, fines, or communications of any kind received by Lessee from any Governmental Authority or third party concerning the presence or potential presence of Hazardous Materials on the Premises, the migration or suspected migration of Hazardous Materials from the Premises to other property, or the migration or suspected migration of Hazardous Materials from other property to the Premises.</p>
20.4 Hazardous Materials	<p>Hazardous Materials means those substances defined, classified, or otherwise denominated as a "hazardous substance," "toxic substance," "hazardous material," "hazardous waste," "hazardous pollutant," "toxic pollutant" or oil in any Environmental Law or in any regulations promulgated pursuant to Environmental Laws.</p>
20.5 Release	<p>Release means a release of hazardous materials as defined under Guidelines for the Management of Scheduled Waste in Sri Lanka in accordance to the national environmental (Protection and Quality) regulation No: 1 of 2008 published by Central Environmental Authority of Sri Lanka.</p>
20.6 Lessor Right to Inspect and Enter Premises.	<p>Subject to Clause 11, Lessor and its officers, employees, contractors and agents shall have the right, but not the duty, to: (a) inspect areas of the Premises to determine whether Lessee is in compliance with Applicable Legal Requirements, and, if Lessor finds or reasonably suspects non-compliance by Lessee, Lessor shall promptly notify Lessee, and Lessee shall promptly take actions necessary or desirable to achieve or confirm such compliance; and (b) to enter the Premises for the purposes of complying with any obligations that Lessor may have under Applicable Legal Requirements with respect to the Premises.</p>

## 21. Miscellaneous

### 21.1 Notices.

All notices and other formal communications which either Party may give to the other under or in connection with this Lease shall be in writing (except where expressly provided for otherwise), shall be effective upon receipt, and shall be sent by any of the following methods: hand delivery; reputable overnight courier; registered post, return receipt requested; or facsimile transmission.

The communications shall be sent to the contacts agreed by both Parties. Any Party may change its address and contact person for the purposes of this Clause by giving notice thereof in the manner required herein.

### 21.2 Confidentiality

Except as provided in this Clause 21.2, neither Party shall publish, disclose, or otherwise divulge Confidential Information to any person at any time during or after the term of this Lease, without the other Party's prior express written consent.

(a) Each Party shall permit knowledge of and access to Confidential Information only to those of its affiliates, attorneys, accountants, representatives, agents and employees who have a need to know related to this Lease.

(b) If required by any law, statute, ordinance, decision, order or regulation passed, adopted, issued or promulgated by a court, governmental agency or authority having jurisdiction over a Party, that Party may release Confidential Information, or a portion thereof, to the court, governmental agency or authority, as required by applicable law, statute, ordinance, decision, order or regulation, and a Party may disclose Confidential Information to accountants in connection with audits, provided however, to the extent permitted by law, such disclosing Party shall notify the other Party of the required disclosure, such that the other Party may attempt (if such Party so chooses) to cause that court, governmental agency, authority or accountant to treat such information in a confidential manner and to prevent such information from being disclosed or otherwise becoming part of the public domain.

(c) In connection with the above, the Parties acknowledge that Lessor is a public entity that is subject to certain public records disclosure statutes and regulations.

### 21.3 Severability.

If any Clause, phrase or portion of this Lease is, for any reason, held or adjudged to be invalid, illegal or unenforceable by any court of competent jurisdiction, such Clause, phrase, or portion so adjudged will be deemed separate, severable and independent and the remainder of this Lease will be and remain in full force and effect and will not be invalidated or rendered illegal or unenforceable or otherwise

affected by such adjudication, provided the basic purpose of this Lease and the benefits to the Parties are not substantially impaired, and provided further, that the Parties shall enter into negotiations concerning the terms affected by such decisions for the purpose of achieving conformity with requirements of any Applicable Legal Requirements and the intent of the Parties.

21.4 Governing Law. This Lease and the rights and duties of the Parties hereunder shall be governed by and shall be construed, enforced and performed in accordance with the laws of the Democratic Socialist Republic of Sri Lanka.

21.5 Dispute Resolution. Unless otherwise expressly provided for in this Lease, the dispute resolution procedures of this Clause 21.5 shall be the exclusive mechanism to resolve disputes arising under this Lease. The Parties agree to use their respective best efforts to resolve any dispute(s) that may arise regarding this Lease.

(a) Any dispute that arises under or with respect to this Lease that cannot be resolved shall in the first instance be the subject of informal negotiations between the Parties. The dispute shall be considered to have arisen when one Party sends the other Party a written notice of dispute. The period for informal negotiations shall be fourteen (14) days from receipt of the written notice of dispute unless such time period is modified by written agreement of the Parties.

(b) In the event that the Parties cannot resolve a dispute by informal negotiations, the Parties agree that any dispute of whatever nature arising from, out of or in connection with this Lease, on the interpretation thereof, or the rights, duties, obligations or liabilities of any Party, or the operation, breach, termination, abandonment, foreclosure or invalidity thereof, shall be referred to by either Party to arbitration for final settlement, in accordance with the Arbitration Act No.11 of 1995, or any amendment thereof.

(c) Pending the award in any arbitration proceedings hereunder,

(i) this Lease and the right and obligations of the Parties shall remain in full force and effect and

(ii) each of the Parties shall continue to perform their respective obligations under this Lease. The termination of this Lease shall not result in the termination of any arbitration proceedings pending at the time of such termination nor to otherwise affect the rights and obligations of the Parties under or with respect to such pending arbitration.

(d) Any award rendered by the arbitral tribunal shall determine the extent to which the cost of arbitration is to be borne by each Party.

The arbitration centre charges (if any) and the compensation to the arbitrator shall be equally shared by the Parties initially.

(e) Venue & Language:

(i) The venue of arbitration shall be in Sri Lanka

(ii) Unless otherwise agreed to by the Parties the proceedings shall be conducted and the award shall be rendered in the English language.

21.6 Entire Agreement.

This Lease, supersedes and replaces all previous oral or written agreements, memoranda, correspondence or other communications between the parties hereto relating to the subject matter hereof.

21.7 Headings and Captions.

The headings and captions in this Lease are intended for reference only, do not form a part of this Lease, and will not be considered in construing this Lease.

21.8 Singular and Plural, Gender.

If two or more persons, firms, corporations or other entities constitute either Lessee or Lessor, the word "Lessee" or the word "Lessor" shall be construed as if it reads "Lessees" or "Lessors" and the pronouns "it," "he," and "him" appearing in this Lease shall be construed to be the singular or plural, masculine, feminine, or neuter gender as the context in which it is used shall require.

21.9 Press Releases.

Except as provided in this Clause 21.2, each Party shall be permitted to make public statements with respect to this Lease or the Solar Energy Facility.

21.10 No Joint Venture.

Each Party will perform all obligations under this Lease as an independent contractor. Nothing herein contained shall be deemed to constitute any Party a partner, agent or legal representative of the other Party or to create a joint venture, partnership, agency or any relationship between the Parties. The obligations of the Lessee and Lessor hereunder are individual and neither collective nor joint in nature.

21.11 Joint Work Product.

This Lease shall be considered the work product of both Parties hereto.

21.12 Expenses.

Lessee agrees to pay all expenses incurred in connection with entering into this Lease, including, without limitation, all attorneys' fees and expenses. In the event this Lease requires modification to respond to requirements of Financier, Lessee agrees to pay all reasonable expenses incurred by Lessor in connection with such modifications, including, without limitation, all attorneys' fees and expenses.

21.13 No Broker.

Lessee and Lessor each represents and warrants to the other that it has dealt with no broker in connection with the consummation of this Lease, and in the event of any brokerage claims against Lessee or Lessor predicated upon prior dealings with the other Party, the Party purported to have used the broker agrees to defend the same.

- 21.14 Amendments; Binding Effect. This Lease may not be amended, changed, modified, or altered unless such amendment, change, modification, or alteration is in writing and signed by both of the Parties to this Lease or their successor in interest. This Lease inures to the benefit of and is binding upon the Parties and their respective successors and permitted assigns.
- 21.15 Non-discrimination Lessee agrees that it shall not, because of race, color, national origin, ancestry, age, sex, religion, physical or mental handicap, or sexual orientation, discriminate against any qualified employee, applicant for employment, subcontractor, or person or firm seeking to provide goods or services to Lessee.
- 21.16 Survival.
- (a) The provisions of Clauses 8.1(a) (Maintenance; Repairs), 8.1(b) (Utilities), and 20.3 (Notices of Release of Hazardous Materials) shall survive the expiration or termination of this Lease for a period of one hundred twenty (120) days.
  - (b) The provisions of Clauses 6.1 (Surrender and Removal of Property), 6.2 (Title), 13.4 (Failure to Commence Repairs), 16.5 (Lessee Liability Upon Termination), and 16.6 (Additional Damages) shall survive the expiration or termination of this Lease for a period of three (3) years.
  - (c) The provisions of Clauses 1.2 (Applicable Legal Requirements), 14.1 (Remedies), 14.2 (Limitation of Liability), 20.1 (Pre-Existing Environmental Conditions), 20.2 (Lessee's Obligations with Respect to Hazardous Materials), and Clauses 12 (Indemnification) and 21 (Miscellaneous), shall survive the expiration or termination of this Lease indefinitely.
- 21.17 Counterparts. This Lease may be executed in counterparts, each of which shall be deemed an original and all of which shall constitute one and the same agreement.
- 21.18 No Third-Party Beneficiaries. This Lease is intended solely for the benefit of the Parties hereto. Except as expressly set forth in this Lease, nothing in this Lease shall be construed to create any duty to or standard of care with reference to, or any liability to, or any benefit for, any Person not a Party to this Lease.
- 21.19 Further Assurances. From time to time and at any time at and after the execution of the Lease, each Party shall execute, acknowledge and deliver such documents and assurances, reasonably requested by the other and shall take any other action consistent with the terms of the Lease that may be reasonably requested by the other for the purpose of effecting or confirming any of the transactions contemplated by the Lease. Neither Party shall unreasonably withhold, condition or delay its compliance with any reasonable request made pursuant to this Clause.
- 21.20 Good Faith. All rights, duties and obligations established by this Lease shall be exercised in good faith and in a commercially reasonable manner.

- 21.21 Effective Date. “Effective Date” means the date of the Letter of Acceptance.
- 21.22 Obligation to Modify Lease Pursuant to Rules and Regulations under the Actions by Governmental Authority. Upon implementation by Governmental Authority of any rule or regulation that may affect any provision of this Lease, in particular any rule or regulation regarding the provision of or eligibility for Scheme 3 – Net Plus scheme of Soorya Bala Sangramaya program, the Parties shall negotiate in good faith, shall amend this Lease to conform to such rule(s) and/or regulation(s) to the greatest extent possible, and shall use best efforts to conform such amendment to the original intent of this Lease and to do so in a timely fashion.
- 21.23 No Limitation of Regulatory Authority. The Parties acknowledge and agree that Lessor is a government entity, and that nothing in this Lease shall be deemed to be an agreement by Lessor to issue or cause the issuance of any approval, authorization, or permit, or to limit or otherwise affect the ability of Lessor to fulfill its regulatory mandate or execute its regulatory powers consistent with Applicable Legal Requirements.

## **Lease Data**

## Lease Data

### Conditions of Lease Clause Reference

- (1.28) The Lessor is:
- Name: Chief Secretary, Northern Province
- Address:
- Chief Secretary's Secretariat,  
A9 Road,  
Kaithady,  
Jaffna.
- (1.26) Name of the Lease is:
- Renting the Rooftop of Selected buildings of Northern Provincial Councils for implementation of rooftop solar PV systems**
- Lease Identification Number: NPC/Solar/01
- (1.29) Lessor's Authorized Representative:
1. Secretary,  
Ministry of Finance & Planning, Law & Order, Lands, Electricity, Housing & Construction, Tourism, Local Government, Provincial Administration, Rural Development, Road Development, Motor Traffic and Transport
  2. Secretary,  
Ministry of Agriculture & Agrarian Services, Animal Husbandry, Irrigation, Fisheries, Water Supply and Environment
  3. Secretary,  
Ministry of Education, Cultural Affairs, Sports and Youth Affairs
  4. Secretary,  
Ministry of Health, Indigenous Medicine and Probation and Childcare Services.
  5. Secretary,  
Ministry of Women's Affairs, Rehabilitation, Social Service, Cooperatives, Food Supply and Distribution, Industries and Enterprise Promotion and Trade & Commerce

Address:

1. Ministry of Finance & Planning, Law & Order, Lands, Electricity, Housing & Construction, Tourism, Local Government, Provincial Administration, Rural Development, Road Development, Motor Traffic and Transport, Provincial Council Complex, A9 Road, Kaithady, Jaffna.
2. Ministry of Agriculture & Agrarian Services, Animal Husbandry, Irrigation, Fisheries, Water Supply and Environment, No. 655, Navalar Road, Jaffna.
3. Ministry of Education, Cultural Affairs, Sports and Youth Affairs, Chemmany Road, Nallur, Jaffna.
4. Ministry of Health, Indigenous Medicine and Probation and Childcare Services. Health Village, Pannai, Jaffna.
5. Ministry of Women's Affairs, Rehabilitation, Social Service, Cooperatives, Food Supply and Distribution, Industries and Enterprise Promotion and Trade & Commerce No 04, Broody Lane, Kandy Road [A9], Ariyalai, Jaffna

- (4.1 a)** Irrevocable Triparty agreement shall be entered with Lessee, Lessor and the respective bank where the Revenue is deposited by CEB to transfer Lease Payment to Lessor's specified account
- (4.2 a)** Amount of Performance Security required is 05% of 20 times of Initial Contract Price. The Initial Contract Price shall be adjusted if there is any change in the Rate of Revenue per unit by CEB
- (4.2 b)** Amount of Performance Security required is equal to half of the Rate of Skill Labour in the schedule of rate published by the Northern Provincial Council at the time of submission of Performance Security per kW of installed capacity of the Solar Energy Facility.

- (5.1)** Commercial general liability insurance on the Premises that is written on an occurrence basis insuring against all liability for personal injury and property damage arising out of and in connection with the Premises, the Permitted Use, the Permitted Improvements, or Lessee's use or occupancy of the Premises, in standard form with;
- (a) a general aggregate limit of not less than Rs 220 Mn,
  - (b) a products-completed operations aggregate limit of not less than Rs 50 Mn, and
  - (c) a per occurrence limit of not less than Rs 2 Mn, for bodily injury and property damage, with a commercially-reasonable deductible, and which shall include operations and blanket contractual liability coverage.
- (5.4)** Workers' Compensation Insurance, an employer's liability insurance with a limit of not less than Rs5 Mn, per accident and per employee.