

# Social Monitoring Report

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Project Number: 51182-001  
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Semestral Report (January-June 2022)  
October 2022

## Cambodia: National Solar Park Project

Prepared by the Electricité Du Cambodge (EDC) and the Asian Development Bank.

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**KINGDOM OF CAMBODIA  
Nation Religion King**



**ELECTRICITÉ DU CAMBODGE**

**CONSULTING SERVICES FOR PROJECT IMPLEMENTATION CONSULTANT  
FOR NATIONAL SOLAR PARK PROJECT**

**CONTRACT NO. CS-NSPP-ADB-EDC-2020-01  
ADB LOAN NO. 3789(COL)-CAM**

**October 2022**

**SOCIAL SAFEGUARD MONITORING REPORT (SSMR) N° 3  
(JANUARY TO JUNE 2022)**



**JOINT VENTURE OF NEWJEC INC. AND CHEANG ENGINEERING CONSULTANTS CO., LTD.**

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**ABBREVIATIONS**

ADB	Asian Development Bank
CEMP	Construction Environmental Management Plan
CCOF	Climate Change Operational Framework, ADB
CRVA	Climate Risk and Vulnerability Analysis
EDC	Electricite du Cambodge
EHS	Environment, Health and Safety
EIA	Environmental Impact Assessment
EMF	Electric and Magnetic Fields
EMP	Environmental Management Plan
EMOP	Environmental Monitoring Plan
EPC	Engineering, Procurement and Construction
ERP	Emergency Response Plan
GHG	Greenhouse Gas
GRC	Grievance Redress Committee
GRM	Grievance Redress Mechanism
IBAT	Integrated Biodiversity Assessment Tool
IPP	Independent Power Producer
ICNIRP	International Commission on Non-Ionizing Radiation Protection
IEE	Initial Environmental Examination
ILO	International Labor Organization
IUCN	International Union for Conservation of Nature
LARP	Land Acquisition and Resettlement Plan
MAFF	Ministry of Agriculture, Forestry and Fisheries
MOE	Ministry of Environment
MOWRAM	Ministry of Water Resources and Meteorology
MRC	Mekong River Commission
PAM	Project Administration Manual
PCR	Physical Cultural Resources
PIC	Project Implementation Consultant
PPA	Power Purchase Agreement
PDoe	Provincial Department of Environment
PMO	Project Management Office
PPE	Personnel Protective Equipment
PV	Photovoltaic
REA	Rapid Environmental Assessment
ROW	Right of Way
SEPRO	Social, Environment and Public Relations Office
SCADA	Supervisory Control and Data Acquisition
SPS	Safeguard Policy Statement
STD	Sexually Transmitted Disease
TA	Technical Assistance
TAS	Transaction Advisory Services
TOR	Terms of Reference
UNFCCC	United Nations Framework Convention on Climate Change
USD	United States Dollar
UXO	Unexploded Ordinance
WHO	World Health Organization

### **WEIGHTS AND MEASURES**

dBA	–	A-weighted decibel
km	–	kilometer
km <sup>2</sup>	–	square kilometer
ha	–	Hectare (10,000 square kilometer or 2.47105 Acre
LAeq	–	Equivalent Continuous Level 'A weighting' - 'A'-weighting = correction by factors that weight sound to correlate with the sensitivity of the human ear to sounds at different frequencies
m	–	Meter
°C	–	Degree Celsius
PM10	–	Particulate Matter 10 micrometers or less
PM2.5	–	Particulate Matter 2.5 micrometers or less
µg/m <sup>3</sup>	–	Microgram per cubic meter
kV	–	Kilovolt (1,000 volts)
kW	–	Kilowatt (1,000 watt)
MW	–	Megawatt (1000 kilowatt)
GWh	–	Gigawatt-hour
MVA	–	Megavolt Amperes

### **Currency Equivalent**

In this report, "\$" refers to United States dollars.

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## GLOSSARY

District	–	Sub-divisions of the 24 provinces in Cambodia
Commune	–	Sub-divisions of districts
Compensation	–	Refers to payment in cash or in kind for an asset or resource that is acquired or affected by a Project at the time the asset needs to be replaced. All compensation is based on the principle of replacement cost, which is the method of valuing assets to replace the loss at current market rates, plus any transaction costs such as administrative charges, taxes, registration and titling costs.
Consultations	–	A process that (i) begins early in the project preparation stage and is carried out at different stages of the project and land acquisition and involuntary resettlement cycle; (ii) provides timely disclosure of relevant and adequate information in Khmer Language that is understandable and readily accessible to Displaced Person (DP); (iii) is undertaken in an atmosphere free of intimidation or coercion with due regard to cultural norms; and (iv) is gender inclusive and responsive, and tailored to the needs of disadvantaged and vulnerable groups; enables to consider the incorporation of all relevant views of affected people and other stakeholders into decision making, such as project design, mitigation measures and implementation issues.
Corridor of Impact (COI)	–	It is the area which is required by the project or by the need to retain sites for future use for construction or for repair and maintenance.
Cut-off Date	–	This refers to the date prior to which the occupation or use of the project area makes residents/users of the same eligible to be categorized as AP. Persons not covered in the census are not eligible for compensation and other entitlements, unless they can show proof that (i) they have been inadvertently missed out during the census and inventory of losses (IOL) or (ii) they have lawfully acquired the affected assets following completion of the census and the IOL and prior to the conduct of detailed measurement survey (DMS).
Displaced Household (DH)	–	Any household physically and/or economically directly affected because of land acquisition and involuntary resettlement. Household means all persons living and eating together as a single social unit.
Displaced Person (DP)	–	Refer to all of the people who would have their (1) standard of living adversely affected; or (2) right, title, interest in any house, land (including premises, agricultural and grazing land) or any other fixed or moveable asset acquired or possessed temporarily or permanently; (3) access to productive assets adversely affected, temporarily or permanently; or (4) business, occupation, work or place of residence or habitat adversely affected; and “displaced person” means any of the displaced persons.
Detailed Measurement Survey (DMS)	–	The DMS is a measuring activity to be conducted based on the approved detailed engineering drawings to measure and count all affected properties. This activity involves the finalization and/or validation of the results of the IOL, severity of impacts, and list of AHs earlier done during RP preparation. The final cost of resettlement will be determined after the DMS and updated RCS.
Economic Displacement	–	Refers to loss of land, assets, access to assets, income sources, or means of livelihood because of (i) involuntary acquisition of land, or involuntary restrictions on land use or on access to legally designated parks and protected areas.
Eligibility	–	Refers to any person or persons, household, firm, private or public institution who has settled in the Project area before the cut-off date, that (i) loss of shelter, (ii) loss of assets or ability to access such assets, permanently or temporary, or (iii) loss of income sources or mean of livelihood, regardless of relocation will be entitled to be compensation and/or assistance.

Entitlement	–	Refers to a range of measures, such as compensation for loss of affected assets and assistance to be provided to the AHs depending on the type and severity of their losses.
Income Restoration	–	Refers to re-establishing productive livelihood of the DPs to enable income generation equal to or, if possible, better than that earned by the DPs before the resettlement or of pre-project levels.
Inventory of Losses (IOL)	–	This is the process where all affected trees and sources of income and livelihood inside the COI are identified, and their replacement costs calculated.
Involuntary Resettlement	–	Refers to when displaced persons have no right to refuse land acquisition by the state that result in their displacement which occurs when land is acquired through (i) expropriation by invoking the eminent domain power of the state, or (ii) land is acquired through negotiated settlement when the pricing is negotiated, and the failure will result in expropriation through invoking the eminent domain of power of the state.
Land Acquisition	–	Refers to the process whereby an individual, household, firm or private institution is compelled by the government through the Project's Executing Agency to alienate all or part of the land it owns or possesses to the ownership and possession of that agency for public purpose in return for compensation at replacement cost.
Physical Displacement	–	Refers to relocation, loss of residential land, or loss of shelter because of (i) involuntary acquisition of land; or (ii) involuntary restrictions on land use or on access to legally designated parks and protected areas.
Relocation	–	This is the physical relocation of a displaced people from her/his pre-project place of residence and/or business.
Replacement Cost	–	Replacement cost involves replacing an asset, including land, at a cost prevailing at the time of its acquisition. This includes fair market value, transaction costs, interest accrued, transitional and restoration costs, and any other applicable payments, if any. Depreciation of assets and structures should not be considered for replacement cost. Where there are no active market conditions, replacement cost is equivalent to delivered cost and building materials, labor cost for construction or relocation costs. Where land market conditions are absent or in a formative stage, the DPs and host populations will be consulted with to obtain adequate information about recent land transactions, land value by types, land titles, land use, cropping patterns and crop production, availability of land in the project area and region, and other related information.
Replacement Cost Study	–	This refers to the process involved in determining replacement costs of affected assets and land and performed by an independent qualified national consultant (firm or individual) with necessary expertise to carry out asset valuation.
Resettlement Plan	–	This is a time-bound action plan, with budget, setting out the resettlement objectives and strategies, entitlements the income and livelihood restoration strategy, institutional arrangements, monitoring and reporting framework, budget, and implementation schedule.
Significant Impact	–	Refers to DHs who will (i) lose 10% or more of their total productive land and/or assets; (ii) have to relocate; and/or (iii) lose 10% or more of their total income sources due to the Project.
ROW	–	Right of Way: ROW is the area, owned or still to be acquired, reserved for public use or for a government project.
Vulnerable Groups	–	These are distinct groups of DPs who are likely to be more adversely affected than others and who are likely to have limited ability to re-establish their livelihoods or improve their status and comprise: (i) all households living below the national poverty rate established by the Government,* (ii) female headed households with dependents living below the national poverty rate, (iii) disabled headed households with no other means of support, (iv) elderly headed households who are landless and with no other means of support, (v) landless poor living below the



national poverty rate, and (vi) indigenous people or ethnic minorities (who often have traditional land rights but no formal titles)

## 1 Executive Summary:

1. This report represents the third Semi-annual Social Safeguard Monitoring Report (The 3<sup>rd</sup> SSMR) for the NATIONAL SOLAR PARK PROJECT OF CAMBODIA covering the period of January 2022 to June 2022.

2. This project is Classified as “Category B” as per ADB’s Safeguards Policy Statements. Thus, this project is required to prepare Land Acquisition and Resettlement Plan (LARP) for which the Project is subject to submit Semi-annual Social Safeguard Monitoring Report to ADB.

3. The National Solar Park Project (“Project”) is implemented by Electricité du Cambodge (EDC) in constructing a 100-megawatt (MW) capacity of solar park and associated sub-station in Kampong Chhnang province and a transmission interconnection infrastructure to Phnom Penh, the demand center. The project is included the design and conduct a competitive tender for procuring the photovoltaic (PV) power plant within the solar park as well as the construction works of the transmission line. The general Engineering, Procurement and Construction works (EPC) as of June 2022 is on progressing works of 60%, the details is presented in Table 4.

4. **Permanent Land Acquisition:** Phase I of the Solar Park require 100 ha of land for the initial 60 MW PV plant construction work. Phase II will require a further 150 ha to accommodate additional PV plants up to 100 MW.<sup>1</sup> The development of the access road to the Solar Park will affect three to four km, with a Right of Way (ROW) width of 5.5 m. the land acquisition for the access road is included in the solar park land requirements. The 230-kV transmission line from the new substation at the Solar Park to an existing grid substation (GS6) will affect a 40 km long Right of Way (the ROW would be equal or greater than 20m, 10m either side of the center line). Total land area subject to acquisition is estimated at 117 ha including the transmission line’s tower footings. The total land area subject to acquisition for a 100 MW solar park and associated infrastructure will become 370 ha.

5. For this period, EDC does not have any progress for resettlement, but only one (1) tower IP8 in Taing Pour village, and another one (1) tower in Lar village, Brambei Mum commune, Thpong district have been compensated in January 2022.

**Table 1: Land Acquisition for the Project**

Infrastructure type	Land requirements
Phase I – 60 MW	100 ha
Phase II – remaining capacity up to 100 MW	150 ha
40 km Transmission line ROW – 20 m (10 m either side of centerline), between new pooling substation at the solar park and existing grid substation GS6	For three (I, II & III) of 733,263 m <sup>2</sup> (for both Updated LARPs) <sup>2</sup> (temporary disturbance during construction and maintenance)
Transmission line tower footings	1) Section I&II (68 Towers): Total area of <b>418,795m<sup>2</sup></b> of lands (15,312m <sup>2</sup> is

<sup>1</sup> One MW requires 1.5 to 2.5 ha of land; Source: Cambodia Solar Park Feasibility Study, 2018. The land requirements for each phase are not scaled by MW; however, the total requirement for 100 MW will be met with ~250 ha.

<sup>2</sup> The both LARPs were finalized since 09 Sep. 2021

Infrastructure type	Land requirements
	<p>required for land towers, and 403,483m<sup>2</sup> is required for land with the COI of the transmission line).</p> <p>2) Section III: i) 32 Towers: Total land area of 199,150m<sup>2</sup> of lands (7,200m<sup>2</sup> is required for land towers, and 191,950m<sup>2</sup> is required for land within the COI of the transmission line), and ii) 17 Towers: Total land area of 115,318m<sup>2</sup> (3,825m<sup>2</sup> is required for land towers, and 111,493m<sup>2</sup> is required for land within the COI of the transmission line).</p> <p>The total for land area of Section III is <b>314,468m<sup>2</sup></b> (11,025m<sup>2</sup> is required for land towers, and 303,443m<sup>2</sup> is required for land within the COI of the transmission line).</p>
Access roads to solar park site (approximate ROW – 5.5 m)	3-4 km (included in park land requirements)

6. According to the technical guidelines of EDC, the Corridor of Impact (COI) for 230kV transmission line of this Project is defined as 20m width (10m on each side from a central tower/pole) for the transmission line. Land within the COI of the transmission line will not be permanently acquired but restrictions such as limited height of structures/buildings within the COI to 3 meters – and trees planted within the COI which exceed 3m in height will be cut-off.

7. The status of compensation payment to the AHs for this period (Jan. to June 2022) as presented in **Annex 2** for 2 sheets of request payment with AH's thumb, the total of 5 AHs were paid with 2 towers (7/2, IP8) and vulnerable with income restoration allowance (US\$). The total amount of USD 8,446.00, this amount total included other additional payments such as: i) living allowance; ii) income restoration allowance, that mentioned in the CAP implementation report, the summary in Table 2 and details cost compensation is in **Table 9**.

**Table 2: Summary Compensation Payment Cost by June 2022**

Commune	Compensation Cost US\$						AHs	APs
	Vulnerable <sup>3</sup>	Income restoration allowance	Land Use		Structur es/trees	Total Amount		
			Tower	ROW				
4 communes	150.00	200.00	787.50	7,189.50	119.00	8,446.00	5	N/A
Total:	150.00	200.00	787.50	7,189.50	119.00	8,446.00	5	N/A

8. By June 2022, no complaints letter or/and by direct verbal have been received for this report period.

<sup>3</sup> The VAHs here was calculated only Elderly Household (EHH) & Female Household Head (FHH), the details in CAP implementation report.??? Should have been stated in ULARP.

9. The progress work has been monitored during this period (January to June 2022) under Section 1, 2 and 3 of the transmission lines as of June 2022. The progress work is presented as following:

**Table 3: Summary of Progress of Overall Works as of June 2022**

Package	Proportion	Progress of Civil Works		Progress work end of June 2022
		Plan	Actual	
Solar Park Sub-Station	41.43%	69%	61%	61%
GS6 Sub-Station	3.65%	55%	35%	35%
230kV T&L	45.04%	80%	75%	75%
Ground work	9.88%	5%	1%	1%
<b>Total</b>	<b>100%</b>	<b>67%</b>	<b>60%</b>	<b>60%</b>

Source: EPC Work Progress in June 2022

10. The CAP implementation for the Project of Section 1, 2 and 3 has been conducted and the first draft of CAP implementation report has been submitted to ADB on 30 December 2021 for reviewing and approved by ADB on 24 January 2022.

## 2 Project Background and Social Safeguard Matters:

### 2.1: Project Background and Progress:

11. **Country Background.** Cambodia's economy has grown quickly over the past decade, averaging annual growth of 7.0% from 2006 to 2016 and poverty has fallen substantially, from 47.8% in 2007 to 13.5% in 2014.<sup>4</sup> Nonetheless, gross domestic product (GDP) per capita, estimated at \$1,427 in 2017, remains among the lowest in Asia. An underdeveloped energy sector is a key constraint to the further improvement of Cambodia's economic competitiveness and the welfare of its people. Cambodia's energy sector is faced with several strategic challenges. Access to reliable energy is the most pressing one in the short and medium term while broader and longer-term issues of energy security, affordability and environmental sustainability also need to be addressed. Nearly 5 million Cambodians do not have access to electricity and are reliant on batteries, wood and other traditional fuels for energy. Historically, the high cost of power, dependence on conventional energy sources and limited transmission and distribution networks, coupled with intermittent power supply, have hindered economic competitiveness and discouraged private sector investments. Annual electricity demand growth in Cambodia averaged 16% from 2011 to 2017. In 2017, Cambodia's energy consumption was 8,073 gigawatt-hour (GWh), of which 44% was coal, 34% hydro, 4% diesel, less than 1% renewables and 18% power imports from neighboring countries. The hydropower and coal-fired plants are owned by the private sector and operated under long-term Power Purchase Agreements (PPAs) with take-or-pay arrangements. The current Power Development Plan (PDP), revised in 2015, projects demand growth to average about 7% through 2030.

12. The government's Rectangular Strategy, Phase IV (2018–2023), highlights increased investment in solar energy to reduce electricity costs and ensure long-term energy security.<sup>5</sup>

<sup>4</sup>ADB. 2016. *Country Economic Indicators 2016*. Manila.

<sup>5</sup>Government of Cambodia. 2018. *Rectangular Strategy for Growth, Employment, Equity and Efficiency: Building the Foundation Toward Realizing the Cambodia Vision 2050, Phase IV of the Royal Government of*

The government also prioritized the development of renewable energy in its National Strategic Development Plan, 2014–2018 to meet growing demand for electricity in Phnom Penh and address the country's electrification target of 100% of villages by 2020.<sup>6</sup> In addition, the Government's Industrial Development Policy 2015–2025<sup>7</sup> identifies the historically high power tariffs in the country as a major impediment to the competitiveness of the country's manufacturing sector and calls for alternate sources of energy to be developed. Furthermore, Cambodia's Nationally Determined Contribution, enshrined in the 2016 Paris Agreement<sup>8</sup> commits to a 16% reduction in GHG emissions from a business-as-usual scenario by 2030 from the energy sector.<sup>9</sup> Ideally, alternate, clean sources of energy would complement installed and planned hydropower-based generation, which is often inadequate during the dry season as well as help provide ancillary benefits to the grid around the key demand centers.

**13. Output of the Project:** The project is to construct a 100 MW solar park in Kampong Chhnang Province and a transmission interconnection system to grid substation 6 (GS6) near Phnom Penh, which is the demand center, for supplying electric power to the national grid. The solar park will initially consist of 100 hectares (ha) of land; associated construction works (i.e., fencing, access road, and drainage systems); common facilities such as office buildings; and supporting infrastructure to accommodate initial 60 MW of solar PV plant. The transmission interconnection infrastructure comprises (i) the 100 MW capacity substation at the solar park, with two 50 MV transformers (and room for two additional transformers); switchgear; an ancillary system; and controls; (ii) a supervisory control and data acquisition system compatible with EDC's requirements, advanced forecasting tools, and expanded information and communication technology applications; (iii) a dedicated 40-kilometer 230-kilovolt double circuit overhead transmission line between the solar park substation and GS6; and (iv) two new bays with switchgear at GS6.<sup>10</sup>

**14. Capacity Development:** Capacity development of Electricite du Cambodge in solar power plant construction and operation, project design and supervision, grid integration and competitive procurement capacity are intended within the framework of the Project. Thereby the Project will strengthen EDC's capacity to design, construct, and operate solar photovoltaic plants and solar parks including management of environmental and social safeguards issues. The project will also strengthen EDC's capacity to procure solar photovoltaic generation capacity through the private sector, and to adopt energy storage systems and other measures to integrate intermittent renewable energy into the national grid. ADB's Office of Public-Private Partnership is assisting EDC to design and conduct a competitive tender for procuring the first power plant to be built by the private sector and located within the solar park.<sup>11</sup> As transaction advisor, ADB is performing project due diligence (including legal, technical, financial,

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*Cambodia of the Sixth Legislature of the National Assembly.* Phnom Penh.

<sup>6</sup> Government of Cambodia, Ministry of Planning. 2014. *National Strategic Development Plan, 2014–2018*. Phnom Penh.

<sup>7</sup> Government of Cambodia. 2015. *Cambodia Industrial Development Policy 2015–2025: Market Orientation and Enabling Environment for Industrial Development*. Phnom Penh.

<sup>8</sup> The Paris Agreement entered into force on 4 November 2016.

<sup>9</sup> Government of Cambodia. 2015. *Cambodia's Intended Nationally Determined Contribution*. Phnom Penh.

<sup>10</sup> EDC is considering a 10 MW (2-hour) battery storage system for output smoothing to counterbalance intermittent solar power generation. ADB is applying for grant funds to support this component; if available, they will be processed as additional financing. The transmission line will be rated at 230 kilovolts but will be initially operated at 115 kilovolts.

<sup>11</sup> The tender will be for a 60 MW solar PV generating plant, to include crystalline-silicon solar arrays and mounting structures, power conversion units (inverters and associated transformers), direct current and alternating current plant cabling, power controls, and SCADA. The development of the plant will be financed by the private sector through private sector equity and commercial debt. Additional power plants supplying the remaining 40 MW are expected to be tendered out to the private sector by EDC in a subsequent phase.

environmental and social due diligence), preparing the feasibility study,<sup>12</sup> assisting the development of tender documents and long-term power purchase agreements, and supporting the review and selection process.

15. **Climate Resilience.** A climate risk and vulnerability analysis (CRVA) has been carried out for the project and the project is classified as being at medium risk from future climate change impacts. The study indicates that the key climate change impacts in the region would be extreme rainfall events causing flooding and precipitation induced landslides. While climate change impacts are not anticipated to be significant over the design life of the solar park (+25 years), the preliminary design integrates flood resilience measures such as ensuring solar park and transmission tower footings are raised above the highest flood level, paving and raising embankment height of access roads, strengthened the existing drainage canals and building a storm water retention pond. Regular maintenance of drainage canals, storm water retention pond and access roads will be carried out during the operation and maintenance period in order to ensure their ongoing effective function. The any other key climate vulnerable components will be subject to further monitoring and analysis during the project detailed engineering design as well as during the construction period. Flood resilience measures that will permanently become part of the solar park and transmission interconnection infrastructure will be included within the main civil work contract costs (indicative estimate of \$1.17 million<sup>13</sup>). Climate mitigation is attributed to \$25.54 million of the project costs. ADB will finance 25.34% of mitigation costs.

16. This project will support the construction of solar PV plants in Cambodia and address the country's need to: (i) expand low-cost power generation, (ii) diversify the power generation mix with an increase in the percentage of clean energy in line with the national GHG emissions reductions targets, and (iii) expand the use of competitive tenders and other global best practices in the sector.

17. The project will support EDC in constructing a 100-MW capacity solar park in Kampong Chhnang province and a transmission interconnection system to the Phnom Penh demand center to supply power to the national grid.<sup>14</sup> The project will also assist EDC to design and conduct a competitive tender for procuring the first solar PV plant within the solar park. The solar PV plants will be tendered to IPPs in two phases: Phase I will be for a 60 MW capacity while Phase II will procure the remaining capacity.

18. The project is the first of its kind in Cambodia and builds on lessons learnt from ADB Private Sector Operations Department's financing of a 10 MW solar PV plant at Bavet, Svay Rieng province in 2016. The project aims to demonstrate the ability of large-scale solar parks to produce solar energy at a competitive price while also providing technical benefits to the national grid<sup>15</sup> and substitute for planned fossil fuel and hydropower generation in the future. This project will build appreciation for the costs, operational requirements and actual performance of solar PV plants. It will also inform further policy development and give EDC knowledge and experience in structuring a transparent, competitive procurement for private sector-led power projects and negotiating with private developers. These early projects will also build experience among grid operators on management of the variable power produced by solar PV plants. Under the ADB regional Technical Assistance (TA), Demonstration of an Assisted Broker Model for Transfer of Low Carbon Technologies to Asia and the Pacific, a

<sup>12</sup> The feasibility study will focus on optimal park site selection and design, and future power plant design.

<sup>13</sup> Source: Detailed Cost Estimates by Expenditure Category, Project Administration Manual, April 2019. The total costs are indicative costs and may be subject to revision.

<sup>14</sup> The project is included in ADB. 2017. *Country Operations Business Plan: Cambodia, 2018–2020*. Manila.

<sup>15</sup> Technical or ancillary benefits include: (i) voltage support during peak loading periods, (ii) reduction of loading levels on transformers, (iii) and reduction of the amount of power that needs to be generated from distant sources (hydro and coal, in particular), and therefore reduction of losses in the transmission system.

Pre-Feasibility Study of the solar park was prepared. The Feasibility Study was completed in August 2018 under the regional TA - Supporting Regional Project Development for Association of Southeast Asian Nations Connectivity and the Office of Public-Private Partnerships' TAS. To improve project readiness, the TA will also prepare basic engineering designs and assist procurement of the civil works.<sup>16</sup> Under the TAS, ADB will assist in structuring the tender for the construction of the first solar PV plant.

19. Furthermore, in April 2018 the Global Scaling Up Renewable Energy Program (SREP) subcommittee of the Climate Investment Funds approved the Cambodia National Solar Park Project, thereby approving \$3 million in grants and \$11 million in concessional loans for use by EDC.

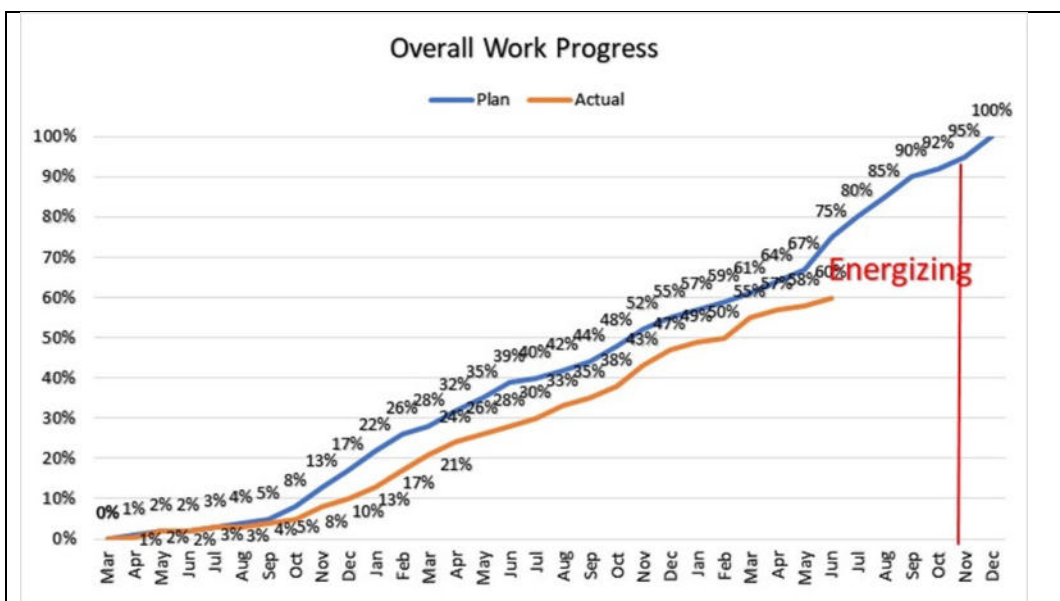
20. The PMO-1 under EDC is in charge of monitoring of the overall implementation of the Project. PMO-1 will review the quarterly progress reports including fielding its own missions to verify the progress and the validity of the data and information, where necessary; and (ii) compile semi-annual monitoring reports for submission to EDC and ADB. Since the Project is not deemed to have significant impacts and is **categorized B** for involuntary resettlement, external monitoring is not required. On the other hand, the Project will not directly or indirectly affect the dignity, human rights, livelihood systems, or culture of Indigenous Peoples (IPs), neither will it affect the territories or natural or cultural resources that IPs own, use, occupy, or claim as their ancestral domain. Therefore, Safeguard Requirements 3: Indigenous Peoples is not triggered.

21. As of June 2022, the Project has been progressing based on the planned. The progress of the civil works/construction on transmission line, power towers, solar parks and others are details in the Table with actual activity photos below:

**Table 4: Progress of Construction Works:**

No.	Package	By June 2022 (%)	Plan for next month (%)	Remarks
A	Solar Park	55%	2%	Steel roof structure, construction work, and foundation work.
B	GS6 upgrading	0%	0%	.....
C	230kV T/L Foundation Work	50% 89% (104 towers)	5%	Tower Foundation Done
D	Ground Works	0%	0%	Access road
<b><u>Overall Work Progress by June 2022</u></b>				

<sup>16</sup> Basic engineering design for bidding purposes will be issued in Q1/2019 (indicative timeline).



Source: Quarterly Progress Report N.9 (April – June 2022)

The details in Table below:

No	Package	Actual from June, 2021 to 30 June, 2022	Plan for next month	Remarks
<b>A</b>	<b>Solar Park SS</b>	<b>55%</b>	<b>2%</b>	
1	Control Building	45%	2%	Steel roof structure
2	Pump House	65%	2%	Steel roof structure
3	Ware House	60%	2%	Steel roof structure
4	Guard House	60%	2%	Steel roof structure
5	Drainage system	50%	2%	Construction work
6	Cable Trench	50%	2%	Construction work
7	Outdoor Equipm.	05%	2%	Foundation work
8	Main Transformer	10%	2%	Foundation work
9	Fire fighting system	15%	5%	Construction work
10	Brick Fence	95%	2%	Construction work
11	Maintenance Road	05%	2%	Construction work
<b>B</b>	<b>GS6 upgrading</b>	<b>0</b>	<b>0</b>	
<b>C</b>	<b>230kV T/L Foundation work</b>	<b>50%</b> <b>89%(104 tower)</b>	<b>5 %</b>	Tower Foundation Done
1	Foundation	25% (30/117) End of June, 2021  27% (32/117) End of July, 2021  0 % (0/117) End of July to 15Nov 2021  25% (28/117) 15 Nov to End Dec, 2021  9% (11/117) 31 January 2022  30 April, 2022 31 May, 2022	2 %	Work done up to end of June,2021  Work done up to end of July,2021  Work has been suspended from July to 15 November 2021  Work done up to end of Dec,2021 (90 Towers done end of Dec.2021) (101 Tower done at 31 Jan.2022) (102 Tower done at 30 Apr.2022) (104 Tower done at 31 May.2022)
2	Erection Tower	24/117 (20%)	10%	Done and ongoing Erection works
3	Stringing Work	0	0	
<b>D</b>	<b>Ground Works</b>	<b>0</b>	<b>0</b>	Access road

Source: Quarterly Progress Report No. 9 (April to June 2022)



**Figure 1: Activity Photos during this period for the foundation works**

**January 19, 2022**

**1. CONTROL BUILDING**



**Progress of Control Building at the end of January 2022: 43%**

**2. PUMP HOUSE**



**Progress of Pump House at the end of January 2022: 63%**



All grounding calculation and drawings must be ready and approved before backfill of outdoor equipment foundations, on March 2022.



Building Progress Works: Being noted that from January 20 to March 31 2022 of site visit, there is no progress for control building, pump house, warehouse and guard house (control building & pump house)

## 2.2: Social Safeguard Matters:

**22. Involuntary Resettlement:** Based on the ULAR of Section I, II and Section III, the construction of the 230 kV transmission line requires land acquisition for construction of power towers and for transmission line. For construction of power towers, an area of 225 m<sup>2</sup> of land (15 x 15 m) will be permanently acquired for constructing of each power tower for 117 towers in total. To identify the scope of impacts of the transmission line's COI, a COI of 20m was applied (10m one each side from a central tower/pole) to determine the impacts on assets within the COI. Land within the COI will not be permanently acquired but restrictions such as limited height of structures/buildings within the COI to 3 meters – and trees planted within the COI which exceed 3 m in height will be cut-off. Land acquisition will be required for the construction of 117 power towers and a dedicated 40km of the transmission line. To identify the scope of impacts of the transmission line's COI, a COI of 20m was applied (10m one each side from a central tower/pole) to determine the impacts on assets within the COI. Land within the COI will not be permanently acquired but restrictions such as limited height of structures/buildings within the COI to 3 meters – and trees planted within the COI which exceed 3 m in height will be cut-off. As shown in the LARP report, for construction of the 117 power towers and Section 1,2 and 3 transmission line, a total area of 733,263 m<sup>2</sup> of lands will be affected, consisting of 67,797 m<sup>2</sup> of lands that will be acquired permanently for the

construction of the 117 power towers and 665,466 m<sup>2</sup> of lands within the COI of the transmission line that will be restricted on land use.

23. However, the clarification letter on EDC's policy related to compensation cost for high voltage transmission line project has been confirmed on 31 May 2021 that in 2017 EDC revised their own policy related to the resettlement and compensation for high voltage transmission line projects. While the prior policy did not compensate affected people for the affected rice paddy and plantations fields, the new policy provides adequate benefits to all affected people for the affected lands. The letter of EDC to ADB on 31 May 2021 attached letter in the last report of the 2<sup>nd</sup> of SSMR.

24. The construction work for tower foundation had been started before ULARP, Corrective Action Plan (CAP) was made, and CAP implementation report has been approved/disclosed in January 2022.

25. **Indigenous Peoples:** The project is classified for category C for Indigenous People (IP). There are no indigenous/ethnic minority people have been found to be affected by the project. In the project area, less than 0.5% of the total inhabitants are ethnic minorities (Cham) and are integrated into mainstream society. Based on the approved LARP of both section 1 & 2, and 3 there is no ethnic minority residing within or nearby the project area.

26. **Grievance Redress Mechanism (GRM):** GRC meeting held with remaining AHs for section 1,2 and 3 but they have not yet accepted the compensation rate wait for the next discussion meeting. However, under monitoring, no complaints have occurred. During this period, four (4) meetings has been conducted: two (2) meetings has been arranged with AHs in April and June 2022, and other two (2) meetings has been arranged with Contractor in May and June 2022, the details outcome during these meetings in **Section 6**, and summary issues and attendant lists in **Annex 8** and **Annex 9**.

### 3 Scope of Impacts:

27. **Impacts during Design and Pre-Construction Period:** To identify the scope of impacts of the transmission line's COI, a COI of 20m was applied (10m one each side from a central tower/pole) to determine the impacts on assets within the COI. Land within the COI will not be permanently acquired but restrictions such as limited height of structures/buildings within the COI to 3 meters – and trees planted within the COI which exceed 3 m in height will be cut-off.

28. **Impacts During Construction Period:** There will be temporary localized impacts during peak construction such as increased noise and dust levels, vibration, traffic congestion, potential interruption to existing utilities (e.g. power outages), waste generation, disrupted access to properties and agricultural land, presence of workers at construction camps and work sites as well as loss of vegetation, trees, plantations, orchards and/or crop damage.

29. The two ULARP reports and specify the dates which ADB has approved on each report and DDR CAP for Sections 1 and Section 2 were approved by ADB on September 8<sup>th</sup>, 2021, and ULARP and DDR CAP for section 3 were also approved by ADB on September 9<sup>th</sup>, 2021. The No Objection Letters (NOL) is in the last SSMR#2.

30. **Affected Households (AHs):** The number of the affected peoples per each of the eight (8) affected communes for Section 1 & 2, and Section 3 that are subject to social safeguard matters as are shown in Table 6. below.

**Table 5: Total Number of Affected People in Each Commune (Section 1, 2&3)**

District	Commune	No. of villages	No. of Towers	Names of villages	No. of AHs	No. of APs
Odongk	Khsem Khsant	7	22	Sdok Lpov, Damnak Trach, Trach Tong, Ta Ling, Prey Ta Chey, Prey Totueng, Ou Samrae	82	289
	Trach Tong	4	10	Trapeang Lpeak, Krang Trob, Trapeang Kdol, Boeung Va	60	257
	Chant Saen	1	5	Krang Tumnob	52	240
	Mean Chhey	6	13	Sdok, Sdok S'at, Prey Chongrok, Kandal, Trapeang Chambak, Prey Smet	116	560
Thpong	Monourom	2	4	Tang Sdok, Thnal	26	117
	Rung Roeang	4	14	Roleang Thlaeung, Thmei, Chambak Sa, Krang Ta Char	101	496
SUB-TOTAL		24	68	-	437	1,959
Thpong	Prambei Mum	7	49	Taing Pou, Chamback Thum, Doun Tip, Tbeang Prachoab, Tranh Veaeng, Trapean Trach, Trapeang Track	163	716
Tuek Phos	Kbal Tuek	1		Prey Chrov	11	47
SUB-TOTAL		8	49		174	763
<b>GRAND TOTAL</b>		<b>32</b>	<b>117</b>	<b>32 villages</b>	<b>611</b>	<b>2,722</b>

Source: ULARP in June and September 2021

31. **Affected Land Area:** Affected land study for a 230kV high-voltage transmission line with a tower-type steel tower poles of 230kV shows that the total land required for the site of the transmission tower is generally farmland and residential land. The area to be procured for the transmission line is shown in the table below.

**Table 6: Total Land Area Affected for Construction of Towers (m2) of Sec. 1, 2 & 3**

Communes	Residential land			Agricultural land						Unused land		
				Paddy land			Land for annual crops/trees					
	Area (m²)	No. of AHs	No. of APs	Area (m²)	No. of AHs	No. of APs	Area (m²)	No. of AHs	No. of APs	Are a (m²)	No. of AHs	No. of APs
Khsem Khsant	900	3	18	3,837	23	63	225	1	2	-	-	-

Trach Tong	-	-	-	1,800	12	53	225	1	3	225	1	3
Chant Saen	-	-	-	1,125	10	43	-	-	-	-	-	-
Mean Chey	-	-	-	2,925	19	96	-	-	-	-	-	-
Monourom	-	-	-	900	6	23	-	-	-	-	-	-
Rung Roeung	-	-	-	3,150	24	107	-	-	-	-	-	-
<b>Total Sec. 1&amp;2</b>	<b>900</b>	<b>3</b>	<b>18</b>	<b>13,737</b>	<b>94</b>	<b>385</b>	<b>450</b>	<b>2</b>	<b>5</b>	<b>225</b>	<b>1</b>	<b>3</b>
Prambei Mum	432	2	7	5,552	30	124	3,025	17	78	-	-	-
Kbal Tuek	-	-	-	900	3	6	1,125	3	20	-	-	-
<b>Total Sec. 3</b>	<b>423</b>	<b>2</b>	<b>7</b>	<b>6,452</b>	<b>33</b>	<b>130</b>	<b>4,150</b>	<b>20</b>	<b>98</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Grant-Total</b>	<b>1,323</b>	<b>5</b>	<b>25</b>	<b>20,189</b>	<b>127</b>	<b>515</b>	<b>4,600</b>	<b>22</b>	<b>103</b>	<b>225</b>	<b>1</b>	<b>3</b>

Source: ULARP in June and Sep. of Sec. 1,2 &3

(AH = affected household; AP = affected person; m<sup>2</sup> = square meter; No. = number

\* The affected land is categorized as residential land, but no construction has taken place on it and the landowners are not local residents.)

**Table 7: Type of affected land area within the COI for section 1 & 2 and 3**

Districts	Communes	Residential land			Agricultural land					
					Paddy land			Land for annual crops/trees		
		Area (m <sup>2</sup> )	No. of AHs	No. of APs	Area (m <sup>2</sup> )	No. of AHs	No. of APs	Area (m <sup>2</sup> )	No. of AHs	No. of APs
Odongk	Khsem Khsant	18135	11	26	97735	59	224	4235	1	4
	Trach Tong	2130	1	4	46935	50	218	8105	1	6
	Chant Saen	140	1	5	29760	46	213	0	0	0
	Mean Chey	755	2	5	83405	102	495	930	2	8
Thpong	Monourom	0	0	0	27260	26	117	0	0	0
	Rung Roeung	4110	3	14	79848	87	436	0	0	0
<b>Total Sec. 1 &amp; 2</b>		<b>25,270</b>	<b>18</b>	<b>54</b>	<b>364,943</b>	<b>370</b>	<b>1,703</b>	<b>13,270</b>	<b>4</b>	<b>18</b>
<b>Thpong</b>	Prambei Mum	8,730	8	39	144,615	101	429	106,893	52	57
<b>Tuek Phos</b>	Kbal Tuek	-	-	-	20,355	2	9	22,850	9	38
<b>Total Sec. 3</b>		<b>8,730</b>	<b>8</b>	<b>39</b>	<b>164,970</b>	<b>103</b>	<b>438</b>	<b>129,743</b>	<b>61</b>	<b>95</b>
<b>Grant-Total</b>		<b>34,000</b>	<b>26</b>	<b>93</b>	<b>529,913</b>	<b>473</b>	<b>2,141</b>	<b>143,013</b>	<b>65</b>	<b>113</b>

Source: ULARP in June and Sep. of Sec. 1,2 &3

**32. Impacts on Trees:** Within the 30m ROW the total number of trees was found to be 2,516 (see **Table 9** below) for both section 1,2 and 3. EDC will compensate these affected trees that have to be cut down within a ROW of 30 m with a full price based on RCS.



**Table 8: Summary Number of trees by type affected along the ROW in each Section**

Type of trees	Affected Trees (1*)	Affected Trees (2*)	Affected Trees (3*)	Total
	No. of trees	No. of trees	No. of trees	
Total Sec. 1 & 2:	1,387	77	186	1,650
Total Sec. 3:	519	400	102	1,021
<b>Grant-Total:</b>	<b>1,906</b>	<b>477</b>	<b>288</b>	<b>2,671</b>

Note: (1\*) Large Trees; (2\*) Medium Trees; (3\*) Small Trees

**33. Impacts on Structures:** There are three types of structures subject to compensation. Total of 7 HHs in three communes of Khsem Khsant. Monourom and Rung Roeang will be affected by the project during construction of Section I and II. There are 2 wooden houses (2A) with aggregate area of 70.84m<sup>2</sup>, 4 stalls (SH1) with aggregate area of 82.08m<sup>2</sup>, and 1 partially Eave with the size of 21.7m<sup>2</sup>. On the other hand, for Section 3, it is indicated that no structures (main and secondary structures) will be demolished by the construction of 32 power towers and the transmission line.

**34. Income Restoration Program (IRP):** There are 45 AHs/APs are vulnerable households and eligible to receive allowance for income restoration program. Following the CAP reports for section 1, 2 and 3, the allowance for the vulnerable AHs and Income Restoration Program (IRP) have been made. The compensation was provided for 45 AHs of the household vulnerability at the amount of USD 15,630.00 (allowance for HH vulnerable is USD 6,450.00, living allowance during transition period of USD 200.00, income disruption during the time of re-establishment of business of USD 300.00, transportation allowance of USD 80.00, and income restoration allowance of USD 8,600.00).

#### **4 Compensation:**

**35.** During this report period, the compensation was made to AHs as: The compensation payment was made to 5 households (N/A) who were affected by the construction of 2 power towers under Section I and II in amount of USD 8,446.00. The details on the total amount was paid for the compensation by types of affected assets and allowance for vulnerable and IRP, there are: 1) compensation cost for affected land on the towers of USD 787.50; 2) compensation cost for land along the ROW of USD 7,189.50, 3) compensation cost for income restoration allowance of USD 200.00, 4) living allowance of USD 150.00, and compensation for affected trees of USD 119.00, the details is presented in Table 2.

**36.** For this semi-annual social safeguard monitoring (SSMR#3), the progress work has been monitored during this period, however; the compensation payment has been compensated the total of 5 AHs. The compensation was made to 3 AHs which were impacted by the ROW, 1 AH impacted their land both within the ROW and Tower, and 1 AH was compensated for living allowance and income restoration allowance as presented in Table 9.

**Table 9: Details of Compensation Payment Cost for this period (June 2022)**

Commune	Compensation Cost US\$						AHs	APs
	Additional Allowances		Land Use		Structures /Trees	Total Amount		
			Tower	ROW				
Prambei Mum	Vulnerable <sup>17</sup>	Income restoration allowance						
	150.00	200.00	-	-	-	350.00	1	N/A
	-	-	787.50	2,740.50	-	3,528.00	1	N/A
Khsem Khsan				2,104.50	-	2,104.50	1	N/A
Mean Chey	-	-	-	1,350.00	-	1,350.00	1	N/A
Rung Roearng	-	-	-	994.50	119.00	1,113.50	1	N/A
4 communes	150.00	200.00	787.50	7,189.50	119.00	8,446.00	5	

**Table 10: Issues were taken action:**

Issues	Required Action	Responsibility and Timing	Resolution
Issues from previous report			
The safeguard non-compliance in the CAP report of section 1 & 2:			
Compensation for affected business (1 AH-5 APs)	Action Plan (CAP) has been produced and approved on 08 September 2021.	EDC/SEPRO	The compensation has been paid and draft CAP implementation report has submitted on 30 December 2021 and approved & disclosed by ADB on 24 January 2022.
The living allowance (1 AH-5 APs)			
The transportation allowance for houses and personal goods (2 AHs-10 APs)			
Special allowance for vulnerable household (32 AHs – 135 APs)			
Income restoration allowance (33 AHs – 140 APs)			
The safeguard non-compliance in the CAP report of section 3			
Special allowance for vulnerable household (3 AHs – 10 APs)	Action Plan (CAP) has been produced and approved on 09 September 2021.	EDC/SEPRO	The compensation has been paid and draft CAP implementation report has been submitted on 30 December 2021 and approved & disclosed on 24 January 2022.
Income restoration allowance (3 AHs –10 APs)			

<sup>17</sup> The VAHs here was calculated only Elderly Household (EHH) & Female Household Head (FHH), the details in CAP implementation report.

## 5 Compliance with Social Safeguard Related to Project Loan Covenants:

37. Based on the loan agreement for this Project stipulates that civil works must not be started until EDC has provided compensation and other entitlements to all affected households as per the approved updated LARP; hence, this represents non-compliance with ADB's safeguards requirements. EDC is advised to stop ongoing civil works in all tower locations where compensation payments are not yet paid. In line with ADB requirements, civil works may only be resumed in the remaining part of Sections 1 and 2 after compensation and other entitlements are paid to the affected households; and in Section 3 after the LARP is updated and approved by ADB and compensation and other entitlements are paid.

38. As the previous mentioned in SSMR#2, ADB issued a letter on actions required for non-compliance with Safeguards Requirements, and some contents quoting from the ADB's letter to EDC dated on 29 July 2021, however; this non-compliance was resolved through preparation of DDR and CAP for section 1, 2 and 3 since December 2021, and the CAP implementation report has been approved and disclosed by ADB on 24 January 2022.

**Table 11: Compliance with Social Safeguards to Project Loan Covenants**

Reference	Description	Status of Compliance
<b>Schedule 4, Procurement</b>		
Para 5	The Borrower shall not commence any Works which involves involuntary resettlement impacts until the Project Executing Agency has provided compensation and other entitlements as per the updated LARP submitted by the Project Executing Agency and cleared by ADB.	<p>Being Compliance with r</p> <p>Since the construction started before the approval by ADB, the borrower has submitted 02 DDR-CAP to ADB. Construction has been suspended and should be resumed after the CAP report has been fully implemented.</p> <p>The compensation has been made to AHs following the issue defined in the CAP reports.</p> <p>The Corrective Action Plan Implementation Report submitted on 31 Dec. 2021 and approved it on 24 January 2022.</p>
<b>Schedule 4, Land Acquisition and Involuntary Resettlement</b>		
Para 7	The Borrower, through the Project Executing Agency, shall ensure that all land and all rights-of-way required for the Project are made available to the Works contractor in accordance with the schedule agreed under the related Works contract and all land acquisition and resettlement activities are implemented in compliance with (a) all applicable laws and regulations of the Borrower relating to land acquisition and involuntary resettlement; (b) the Involuntary Resettlement Safeguards; and (c) all measures and requirements set forth in the LARP and	Ongoing/being complied with.



Reference	Description	Status of Compliance
	conditions specified in Paragraph 9 below (Land Acquired through Negotiated Settlement), and any corrective or preventative actions set forth in the Safeguards Monitoring Report.	
Para 8	<p>Without limiting the application of the Involuntary Resettlement Safeguards or the LARP, the Borrower, through the Project Executing Agency, shall ensure that no physical or economic displacement takes place in connection with the Project until:</p> <p>(a) compensation and other entitlements have been provided to affected people in accordance with the LARP, as shall be confirmed in a LARP compliance report to be provided by the Project implementation consultant engaged under the Project; and</p> <p>(b) a comprehensive income and livelihood restoration program have been established in accordance with the LARP.</p>	<p>Ongoing/being complied with.</p> <p>No full amount of Vulnerable allowance and no allowance for IRP have been paid to AHs while the civil works have been commenced. CAP reports have been approved and allowance have been paid to AHs and the CAP implementation report was approved by ADB on 24 January 2022.</p>
<b>Schedule 4, Land Acquired through Negotiated Settlement</b>		
Para 9	The Borrower, through the Project Executing Agency, shall comply with the requirement for meaningful consultation with affected persons, mechanisms for calculating the replacement costs of land and any other assets affected, engage an independent external party to validate and document the negotiation and settlement process, and submit the third-party validation report on such negotiated land acquisition. In the event that negotiation fails, and expropriation applies, the Borrower, through the Project Executing Agency, shall comply with the principles and requirements as stipulated in the LARF.	Being complied with.
<b>Schedule 4, Indigenous Peoples</b>		
Para 10	The Borrower, through the Project Executing Agency, shall ensure that the Project does not have any indigenous people's impact, all with the meaning of the SPS. In the event that the Project does have any such impact, the Borrower, through the Project Executing Agency, shall take all steps required to ensure that the Project complies with the applicable laws and regulations of the Borrower and the SPS.	Being complied with.
<b>Schedule 4, Human and Financial Resources to Implement Safeguards Requirements</b>		
Para 11	The Borrower, through the Project Executing Agency, shall make available necessary budgetary and human resources to fully implement the EMP, LARF and the LARP.	Being complied with.

Reference	Description	Status of Compliance
<b>Schedule 4, Related Provisions in Bidding Documents and Works Contracts</b>		
Para 12	<p>The Borrower, through the Project Executing Agency, shall ensure that all bidding documents and contracts for Works contain provisions that require contractors to:</p> <ul style="list-style-type: none"> <li>(a) comply with the measures relevant to the contractor set forth in the IEE, the EMP, the LARF and the LARP (to the extent they concern impacts on the affected people during construction), and any corrective or preventative actions set forth in a Safeguards Monitoring Report.</li> <li>(b) make available a budget for all such environmental and social measures;</li> <li>(c) provide the Project Executing Agency with a written notice of any unanticipated environmental or resettlement risks or impacts that arise during construction, implementation or operation of the Project that was not considered in the IEE, the EMP, LARF and the LARP.</li> <li>(d) adequately record condition of roads, agricultural land and other infrastructure prior to starting to transport materials and construction; and</li> <li>(e) reinstate pathways, other local infrastructure, and agricultural land to at least their pre-project condition upon the completion of construction.</li> </ul>	Being Complied with
<b>Schedule 4, Safeguards Monitoring and Reporting</b>		
Para 13	<p>The Borrower, through the Project Executing Agency, shall do the following:</p> <ul style="list-style-type: none"> <li>(a) submit Safeguards Monitoring Reports to ADB and disclose relevant information from such reports to affected persons upon submission.</li> <li>(b) if any unanticipated environmental and/or social risks and impacts arise during construction, implementation or operation of the Project that were not considered in the IEE, the EMP, LARF and the LARP, promptly inform ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan; and</li> <li>(c) report any actual or potential breach of compliance with the measures and requirements set forth in the EMP and the LARP promptly after becoming aware of the breach.</li> </ul>	Being Complied with
<b>Schedule 4, Grievance Redress Mechanism</b>		
Para 15	<p>Within 30 days of Effectiveness, the Borrower, through the Project Executing Agency, shall ensure (a) efficient grievance redress mechanisms are in place and functional to assist the affected persons resolve queries and complaints, if any, in a timely manner; (b) all</p>	<p>Complied with.</p> <p>Complaints Solving Committee of Kampong</p>

Reference	Description	Status of Compliance
	complaints are registered, investigated and resolved in a manner consistent with the provisions of the grievance redress mechanism detailed in the IEE/EMP, LARF and LARP; (c) the complainants or aggrieved persons are kept informed about the status of their grievances and remedies available to them; and (d) adequate staff and resources are available for supervising and monitoring the mechanism.	Speu was established on 22 October 2020. Committee of Kampong Chhnang was established on 18 March 2021.  (Under monitoring, no complaints have occurred).

## 6 Project Disclosure, Public Consultation and Site visits:

39. Two (2) discussion Meetings have been arranged with some remaining households who did not agree for compensation rates during this period of section I, II and III, the meeting hold on 26 January 2022 and 28 April 2022 in Thpong and Odongk districts of Kampong Speu. Those AHs were invited to joint this meeting. These actions were to prevent the COVID-19 explosion following the guidelines of Ministry of Health. A total number of the meeting participants was 37, of which 3 attendees were females, accounting for 8.10%. The meeting participants included the representatives of local authorities, village chiefs and all AHs. In the meetings, the participants were shared and discussed some issues during the meeting such as: (i) special meeting with AHs who did not agree with the compensation rate; and (ii) confirm with directly AHs who did not join the previous meeting about the among of their compensation cost. The summary of Issues Discussed in the discussion meetings and list of attendees are attached in **Annex 8**. Table 12 shows the number of participants attending the discussion meetings.

40. Furthermore, the actual three (3) site visits have been occurred from April to June 2022 with all relevant stakeholders, the details in **Annex 9** (Minute of meeting site visit reports).

**Table 12: Number of Participants Attending of Discussion Meetings**

No	Date	Time	Number of participants		Total	Venue meeting	Commune	Name of village
			M	F				
1	26/1/2022	8:00 – 10:00	12	1	13	Thpong district	Rong Roeung, Prambei Mum	Tbeang Prachoab, Krang Ta Char, La
2	28/4/2022	8:00 – 10:00	22	2	24	Odongk district	Khsem Khsan, Mean Chey	Prey Ta Chey, Ta Ling, Prey Totueng, Ou Samrae
<b>Total</b>			<b>34</b>	<b>3</b>	<b>37</b>	<b>2</b>	<b>4</b>	<b>7</b>

Source: Minutes of Discussion Meeting, January to April 2022

**Figure 2: Discussion Meeting During this period with stakeholders**

Photo 1: Discussion meeting with AHs through District Authorities & EDC on 26 Jan. 2022 in Thpong Administration Office (source from SEPRO Team)



Photo 2: Discussion meeting with AHs through District Authorities & EDC on 28 April 2022 in Odongk Administration Office (source from SEPRO Team)

41. During this period the monitoring activities undertaken by PIC on the compensation payment processes to AHs especially on CAP implementation or to oversee/visit the ongoing construction sites for 3 times (date: 22/4/2022, 26/5/2022, and 30/6/2022) to ensure the safeguard compliance on the ongoing civil works at Package A (Solar Park Sub-station) and Package C (transmission line from GS6 to Solar Park S/S). Compensation payments are made based on the CAP (corrective action plan) approved in September 2021. The Corrective Action Plan Implementation Report was prepared and submitted in December 2021 and approved on 24 January 2022 by ADB. The PIC, EDC and EPC Contractor visited site of Solar Park substation, Transmission Line Site regularly. Photos of site visited during construction are in **Annex 13**.

**Table 13: Summary of the main outcomes of the field visits during this period**

Date	Location	Activities/outcomes
22/4/2022	Package A: Solar Park Sub-station & TL from GS6 to S/S	<ul style="list-style-type: none"> <li>- Check all modification on site which is different from the approved drawing, monitor general progress works</li> <li>- Tower erection for location &amp; safety works with PPE at site</li> <li>- Checking GRM complaint recording</li> </ul>
26/5/2022	Package A: Solar Park Sub-station & TL from GS6 to S/S	Ditto
30/6/2022	Package A: Solar Park Sub-station & TL from GS6 to S/S	Ditto

## **7 Grievance Redress Mechanism:**

42. The objective of the GRM is to resolve any disagreements and conflicts as early and quickly as possible and at the local level through a reconciliation process, and if that is not possible, to provide clear and transparent procedures for appeal. If the affected people filing complaints will not be satisfied with the outcome of the GRM, they may also resolve the issue through the Cambodian legal system (see Step 4 below).

43. EDC will ensure through public consultation meetings in the project areas and through a Project Information Booklet distributed to the affected households that all the affected people are fully aware of their rights to complain and about the GRM. Any party who is affected by land acquisition or any other impacts related to the project construction and operation, is eligible to file a complaint.

44. A Grievance Redress Committee (GRC) were established at the provincial level with a process starting from commune offices is attached in **Annex 4** and **5**. As practiced, the GRC includes the relevant local commune or village chiefs and where needed, a local NGO may assist the affected persons in filing complaints. The designated commune officials shall exercise all efforts to settle complaints and issues at the commune level through appropriate community consultations. All meetings shall be recorded in each grievance process and copies shall be provided to the affected persons. A copy of the minutes of meetings and actions undertaken shall be provided to EDC and ADB upon request. The simple logbook will be used for the project during implementation is presented in **Annex 6**.

45. All costs for resolving complaints (meetings, consultations, communication, and reporting/information dissemination) will be borne by EDC.

46. The procedure of GRM has been updated based on the updated of LARPs consist of the following 4 steps:

### **Step 1**

*1. AHS/ APs will submit a letter of complaint/request either directly or through the village chief to the commune office. The commune office will be obliged to provide immediate written information of receipt of the complaint to SEPRO under EDC. SEPRO will have 15 days to resolve the complaint through negotiation. If the issue is not handled within 15 days, or if the complainant is not satisfied with the result, he/she can bring the issue to the District office.*

### **Step 2**

*2. The District office has 15 days to negotiate the complaint and bring it into a resolution. If the complaint cannot be resolved in a way that is satisfactory to all parties, the District office will bring the issue to the Provincial CSC.*

### **Step 3**

*3. The Provincial CSC will meet the complainant and try to resolve the issue. Within 30 days of the submission of the complaint to the Committee, it has to take a decision and inform in writing both the complainant and SEPRO of the decision.*

### **Step 4 (Final Stage)**

*4. The affected households could address their complaints to the Court. All the complaints in the above stage will be not disturb or abandon the implementation of the project.*

47. If efforts to resolve disputes using the grievance procedures remain unresolved or unsatisfactory, affected persons have the right to directly discuss their concerns or problems with the ADB's Environment, Natural Resources and Agriculture Division, Southeast Asia Department through the ADB Cambodia Resident Mission. If affected persons are still not satisfied with the responses of the Mission, they can directly contact the ADB Office of the Special Project Facilitator. The Office of the Special Project Facilitator procedure can proceed based on the accountability mechanism in parallel with the project implementation.

48. By June 2022, no complaints have occurred. There was no complaint received during this report period.

**Table 14: Complaints Received During the Reporting Period**

No.	Issue	Required Action	Responsibility and Timing	Resolution
1	None			
2				

## **8 Institutional Arrangement:**

49. EDC's SEPRO Unit will be responsible for social safeguard matters and managing all the land acquisition procedures for the project. Figure 1 below shows the organizational structure of EDC and the responsible offices for land acquisition and resettlement. Figure 2 presents the organizational structure of SEPRO. According to assessment during the FS, SEPRO is working with land acquisition for several projects at the time and lacks sufficient time and person resources. Additional staff should be appointed by EDC/SEPRO for updating and implementing the LARP according to advice from the Project Implementation Consultant, who will be responsible for appropriate capacity building and training of EDC staff as needed.

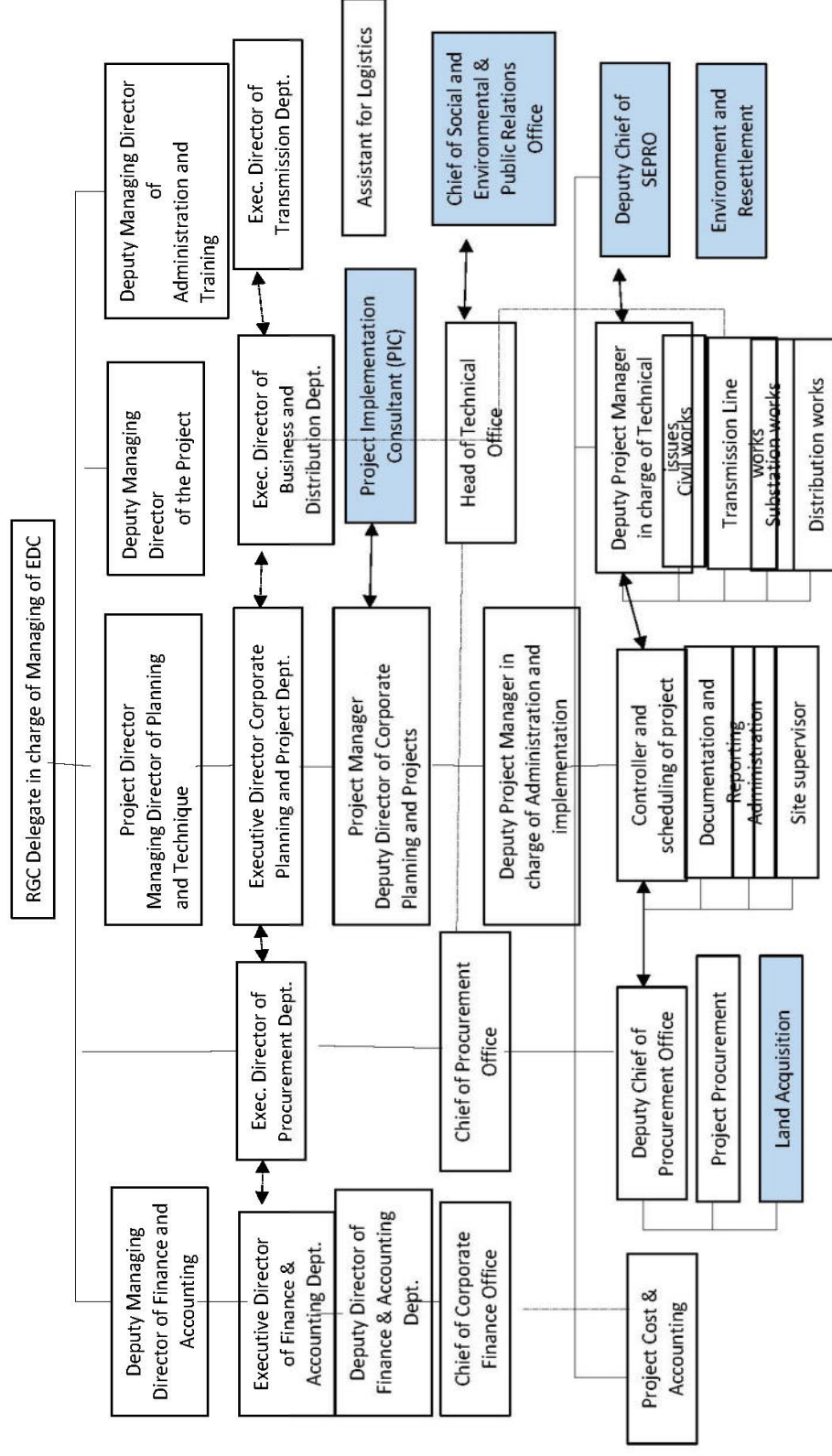


Figure 3: EDC's Organizational Structure

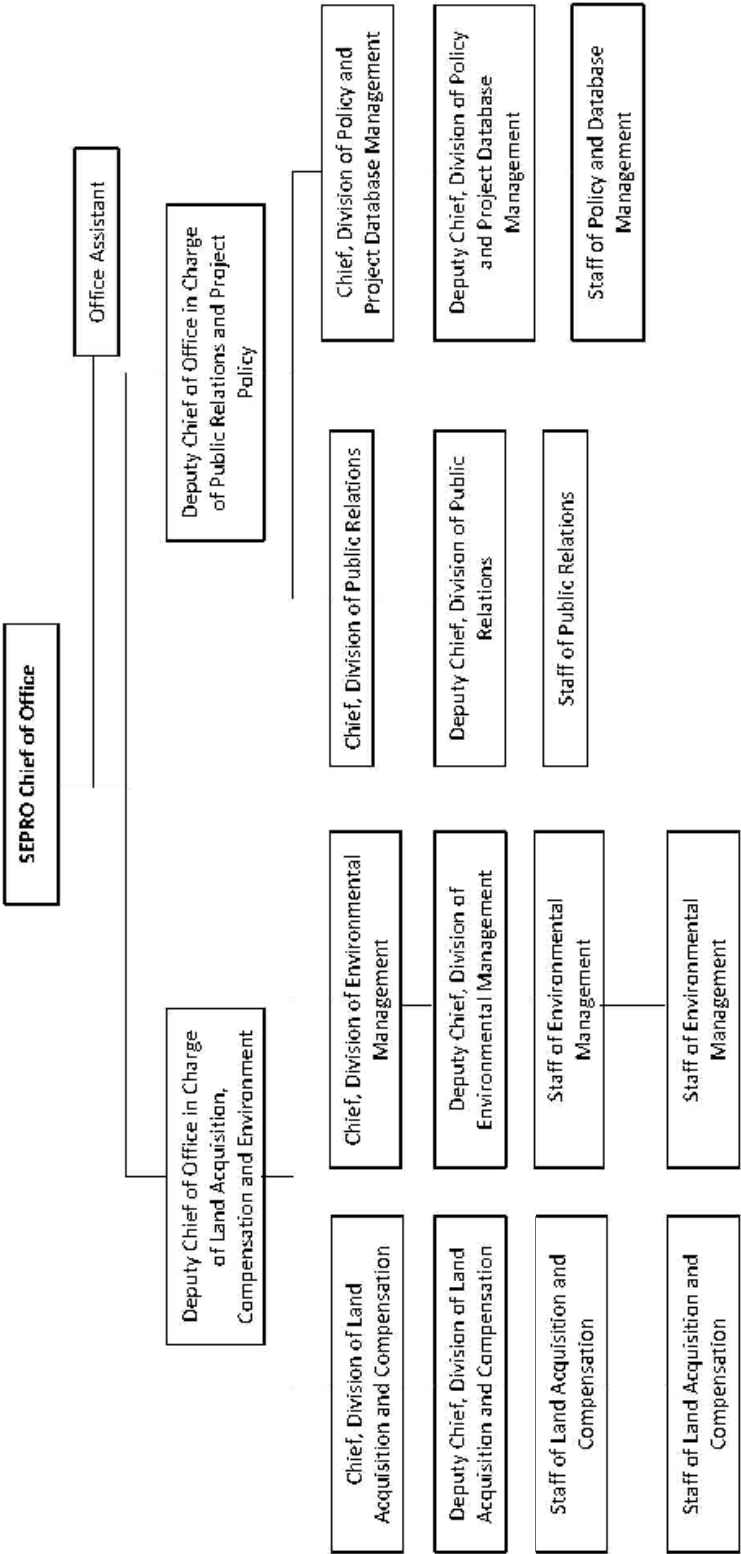


Figure 4: SEPRO Organizational Structure



50. Role of EDC (SEPRO) is shown as follows:

- i) Identify the affected persons in the remaining part of the transmission line, including vulnerable groups, complete the census and conduct DMS.
- ii) Undertake meaningful consultations with all the affected persons as described in the ADB SPS10 in the communities affected by the project. Separate consultations will be conducted with vulnerable groups in addition to the public consultations.
- iii) Update the information on the project and its expected impacts, schedule, land acquisition procedures, entitlement policy and GRM, including GRC, and distribute the updated Project Information Booklet (PIB) to the affected persons.
- iv) Establish and disclose the cut-off date for eligibility right after the completion of census and DMS.
- v) As soon as the updated LARP has been approved by the EDC Corporate Planning and Projects Department and concurred by ADB, SEPRO will disclose the LARP to affected persons and communities through village, commune, and district offices; and
- vi) EDC will document and report all the consultations and compensation procedures and prepare a LARP Implementation Compliance Report as soon as all the procedures have been completed. The LARP Compliance Report concurred by ADB will serve a basis for “no objection” for the civil works and will be disclosed on ADB website.
- vii) EDC will monitor and document the ongoing impacts in order to avoid potential later grievances; and prepare and submit quarterly progress reports to ADB throughout the project time.

## 9 Monitoring Findings:

51. More activities have been progressing for this period, the monitoring works carried out during this period due to the progress of foundation works, the details see in **Table 9 and Table 10**.

52. In the general construction work compared to the previous Simi-annual reports, the energizing has been delayed for one month due to the delay in the procurement process, such as the roof of the control building of the solar park substation was installed, but the progress is still slow due to the delay in the arrival of the equipment. As for transmission lines, three tower foundations have been completed in this quarter, a total of 104 tower foundations have been completed, and 24 towers have been erected or are under construction. For GS6, site clearance was carried out in the expansion area. The grievance redress mechanism is still normal functioning for this period, but no any issue from affected household was complained and recorded. However, there are two (2) meetings has been conducted for all affected households who are do not compensation, the results meeting with attendant list in **Annex 8**.

53. Five (5) AHs has been accepted the compensation cost, while other four (4) AHs requested to increase the compensation rate as a results of GRC meetings at district and provincial levels.

54. It's observed that some AHs did not join the GRC meeting, therefore; such meeting will be organized as well as invite all affected households (AH) in the next meeting., The GRM committee with Local Authorities have proposed to arrange the next meeting with those households who did not attend the previous meeting to solve the remaining problems soon.

55. The compensation to AHs as defined in both CAP reports have been made in December 2021 and the first draft of CAP implementation report has been submitted to ADB on 30 December 2021 and has been already approved by ADB on 24 January 2022.

## **10 Follow Up Actions and Recommendations:**

56. The procedure for social safeguard matters have not been addressed before the start of construction works, foundation work for transmission tower has begun on some of the tower sites where the land acquisition has been completed. The social safeguard monitoring system has not explicitly been established; it is necessary to establish monitoring system urgently. However, this system has been established and monitored during the payment processing since the 1<sup>st</sup> Semi-annual Social Safeguard Monitoring (January to June 2021).

57. Before full scale of the mobilization of construction plans and construction workers as well as the materials, strict social safeguard measures should be imposed as the scale of operation gradually becomes extensive and intensive. By June 2022, the civil works for the Power Towers has been completed for 89 % and TL for 50%, details in the **Table 4**.

58. The following action will be taken during the next report period:

- 1) Follow up the compensation payment to the remaining AHs.
- 2) Periodical information dissemination for the affected village.
- 3) Submit next Semi-annual Social Safeguard Monitoring report (July to December 2022) by 15 January 2023.
- 4) The PIC and EDC have requested the Contractor to systematically resubmit the drawings "Returned for Correction" and encourage the remaining design drawings to be submitted as planned.
- 5) PIC and EDC have requested the Contractor to review the construction process, and in the case of delay, clarify the reason and cause and consider measures to rewind the delay.
- 6) Conduct regular site visits especially to the ongoing construction sites ensure safeguard compliance.

**Annex 1: Compensation Payment for Land paid of 106 Towers as of June 2022**

No.	Quantity of Towers	ID Tower No.	Date for compensation
1	3	5/5, 5/4 & IP5	16-Feb-21
2	3	4/11, 4/10 & 4/9	20-Feb-21
3	12	5/9, 5/8, 5/7, 4/8, 4/7, 4/6, 4/5, 4/4, 4/2, 4/1, IP4 & 3/8	20-Mar-21
4	4	4/3, 3/11, 3/10 & 3/9	29-Mar-21
5	3	3/5, 3/3 & 2/4	30-Mar-21
6	6	3/2, 3/1, IP3, 1/9S1, 1/8 & 1/6	12-Apr-21
7	6	1/5, 1/3, 1/2, 1/1, IP1 & DE-GS6	13-Apr-21
8	2	5/6 & 5/3	14-May-21
9	2	5/2 & 5/1	15-May-21
10	4	5/10, IP6, 6/1 & 6/2	20-May-21
11	5	6/3, 6/4, 6/5, 6/6 & 6/7	21-May-21
12	5	6/8, 6/9, 6/10, 6/11 & IP7	28-May-21
13	4	8/1, 8/2, 8/3 & 8/4	19-Jul-21
14	4	8/5, 8/6, IP9 & 9/1	20-Jul-21
15	4	9/2, 9/3, 9/7 & 9/8	23-Jul-21
16	5	9/9, IP10, 10/1, 10/2 & 10/3	24-Jul-21
<b>Sub-Total</b>	<b>72</b>	<b>Land paid 31 July 2021</b>	
17	3	10/4, 10/5 & 10/6	17-Aug-21
18	3	10/7, 10/8 & 10/9	18-Aug-21
19	3	IP11, 11/02 & 11/03	19-Aug-21
20	2	11/01 & 11/04	20-Aug-21
21	2	11/05 & 11/06	21-Aug-21
22	2	7/01 & 7/02	26-Aug-21
23	2	7/03 & 7/04	27-Aug-21
24	2	7/05 & 7/06	28-Aug-21
<b>Sub-Total</b>	<b>91</b>	<b>Land paid 31 August 2021</b>	
25	4	1/09, IP2, 2/1 & 3/4	7-Sep-21
26	4	11/7, 11/8, IP12 & 12/01	27-Sep-21
27	5	12/02, 12/03, IP13, DE-GS.T.Phos1 & DE-GS.T.Phos2	28-Sep-21
<b>Sub-Total</b>	<b>104</b>	<b>Land paid up to 30 September 2021</b>	
28	1	3/7	30-Oct-21
	<b>105</b>	<b>Land paid up to 31 October 2021</b>	
	<b>105</b>	<b>Land paid up to 30 November 2021</b>	
	<b>105</b>	<b>Land paid up to 31 December 2021</b>	
	<b>1</b>	<b>IP8</b>	
	<b>106</b>	<b>Land paid up to 30 June 2022</b>	

30

[illegible]

**Annex 3: Compensation Payment during this report period****A) Summary of Compensation Provided for 05 AHs:**

Commune	Compensation Cost US\$						AHs	APs
	Additional Allowances		Land Use		Structures /Trees	Total Amount		
			Tower	ROW				
	Vulnerable <sup>18</sup>	Income restoration allowance						
Prambei Mum	150.00	200.00	-	-	-	350.00	1	N/A
	-	-	787.50	2,740.50	-	3,528.00	1	N/A
Khsem Khsan				2,104.50	-	2,104.50	1	N/A
Mean Chey	-	-	-	1,350.00	-	1,350.00	1	N/A
Rung Roeurng	-	-	-	994.50	119.00	1,113.50	1	N/A
4 communes	150.00	200.00	787.50	7,189.50	119.00	8,446.00	5	

Source: SEPRO, January 2022

**B) Compensation provided for 1 vulnerable AH:**


Issues	Corrective Actions Agreed	Implementation /Responsibility	Milestones	Progress as of 30 June 2022
Special allowance for vulnerable household (1 AH)	Providing additional allowance to meet the level of the support specified in the Updated LARP for Section 3 transmission line Additional cash assistance of \$150/household	EDC SEPRO PMO-1		1 AH has been paid amount US\$ 150.00 for Special allowance for vulnerable (The compensation was done on 15 Jan 2022)
Income restoration allowance (1 AH – 5 APs)	Providing income restoration allowance to the 1 vulnerable AH: Cash assistance of \$200/household.	EDC SEPRO PMO-1		1 AH – 5 APs have been paid amount US\$ 200.00 for Income restoration allowance (The compensation was done on 15 Jan 2022)  <i>(Note: This HH is the same family above who has received a special allowance for vulnerable household as well).</i>

Source: SEPRO, January 2022

<sup>18</sup> The VAHs here were calculated only Elderly Household (EHH) & Female Household Head (FHH), the details in CAP implementation report.

Annex 4: Establishment of the Committee and Workgroup for GRM

**ព្រះរាជាណាចក្រកម្ពុជា**  
**ជាតិ សាសនា ព្រះមហាក្សត្រ**



**អគ្គិសនីកម្ពុជា**  
លេខ: ០០៧០ អន.អស.២០២០

ថ្ងៃ ២៧ ខែ មេសា ឆ្នាំ កុរ ឯកស័ក ព.ស.២៥៦៣  
រាជធានីភ្នំពេញ, ថ្ងៃទី ១៧ ខែ មេសា ឆ្នាំ ២០២០

**សេចក្តីសម្រេច**  
**ស្តីពី**  
**ការរៀបចំសមាសភាពគណៈកម្មការ និងក្រុមការងារដោះស្រាយផលប៉ះពាល់ជីវ្គី**  
**ផ្ទះសម្បែង ដើមឈើហូបផ្លែ របស់ប្រជាពលរដ្ឋ សម្រាប់គម្រោងឧបត្ថម្ភហិរញ្ញវត្ថុសន្តិ ២៣០ គីឡូវ៉៉ាត**  
**ពីអនុស្ថានីយអគ្គិសនីខាងជើងរាជធានីភ្នំពេញ (GS6) ទៅអនុស្ថានីយអគ្គិសនីស្រុកទឹកជ្រូក**  
**ខេត្តកំពង់ឆ្នាំង**

- បានឃើញ ព្រះរាជក្រឹត្យលេខ ជស/រកត/០៣៩៦/១០ ចុះថ្ងៃទី០៩ ខែមីនា ឆ្នាំ១៩៩៦ ស្តីពី ការបង្កើត  
អគ្គិសនីកម្ពុជា ជាក្រុមហ៊ុនទទួលខុសត្រូវមានកំណត់មួយរបស់រដ្ឋ ។

- បានឃើញ ព្រះរាជក្រឹត្យលេខ នស/រកត/០៨០៨/៩៨៧ ចុះថ្ងៃទី២៨ ខែសីហា ឆ្នាំ២០០៨ ស្តីពីការ  
តែងតាំង ប្រតិភូរាជរដ្ឋាភិបាលកម្ពុជា ទទួលបន្ទុកជា អគ្គនាយកអគ្គិសនីកម្ពុជា ។

- បានឃើញ ព្រះរាជក្រឹត្យលេខ នស/រកត/០៩១៨/៩២៦ ចុះថ្ងៃទី០៦ ខែកញ្ញា ឆ្នាំ២០១៨ ស្តីពីការ  
តែងតាំងឥស្សរជន ជាអគ្គនាយកប្រតិភូអនុនាយករដ្ឋមន្ត្រី ។

- យោងលិខិតលេខ ១៥១៨ សជណ របស់ទីស្តីការគណៈរដ្ឋមន្ត្រីចុះថ្ងៃទី ២៨ ខែ ធ្នូ ឆ្នាំ ២០១០។

- កិច្ចព្រមព្រៀងឥណទាន L3789, L8357, G0645-CAM ចុះថ្ងៃទី២៨ ខែមិថុនា ឆ្នាំ២០១៩ រវាងរាជរដ្ឋា  
ភិបាលកម្ពុជា និងធនាគារអភិវឌ្ឍន៍អាស៊ី (ADB) ។

**សម្រេច**

**ប្រការ ១៖** សមាសភាពគណៈកម្មការដោះស្រាយផលប៉ះពាល់ជីវ្គី ផ្ទះសម្បែង ដើមឈើហូបផ្លែ របស់ប្រជាពលរដ្ឋ  
សម្រាប់គម្រោងឧបត្ថម្ភហិរញ្ញវត្ថុសន្តិ ២៣០ គីឡូវ៉ាត ពីអនុស្ថានីយអគ្គិសនីខាងជើងរាជធានីភ្នំពេញ (GS6) ទៅអនុស្ថានីយ  
អគ្គិសនីស្រុកទឹកជ្រូក ខេត្តកំពង់ឆ្នាំង ដែលមានសមាសភាពដូចខាងក្រោម៖

១. លោកបណ្ឌិត ប្រាំង ជួលសា	អគ្គនាយករងផែនការ និងបច្ចេកទេស	ប្រធាន
២. លោក ឈឹម ម៉ាន	នាយកផែនការយុទ្ធសាស្ត្រ និងគម្រោងការ	អនុប្រធាន
៣. លោក អ៊ឹម សុងតិច	នាយករងផែនការយុទ្ធសាស្ត្រ និង គម្រោងការ	សមាជិក
៤. លោក ម៉ៅ វិសាល	ប្រធានការិ.សង្គម បរិស្ថាន និងទំ.ទំ សាធារណៈ	សមាជិក
៥. លោក សោ ប៉េងឃី	ប្រធានការិយាល័យគ្រប់គ្រងគម្រោងទី១	សមាជិក
៦. លោក ផាត់ តេនៈ	អនុប្រធានការិយាល័យវិវាទ នាយកដ្ឋានរដ្ឋបាល	សមាជិក

អគ្គិសនីកម្ពុជា ២២ ផ្លូវ ព្រះយុគន្ទៈ សង្កាត់ វត្តភ្នំ ខណ្ឌដូនពេញ រាជធានីភ្នំពេញ ទូរស័ព្ទលេខ ០២៣ ៧២៣ ៩៧១ ទូរសារ (៨៥៥) ២៣ ៤២៦ ០១៨



**ប្រការ ២៖** គណៈកម្មការនេះមានភារកិច្ច៖

- រៀបចំធ្វើផែនការដឹកនាំ កំណត់ទីតាំងក្នុងផែនទី ទីតាំងដែលត្រូវវាស់វែងជាក់ស្តែង និងរាយការណ៍ សុំការអនុញ្ញាតពីឯកឧត្តមរដ្ឋមន្ត្រីប្រតិភូអមនាយករដ្ឋមន្ត្រី អគ្គនាយកអគ្គិសនីកម្ពុជា។
- រៀបចំធ្វើផែនការដឹកនាំ ការពិគ្រោះយោបល់ជាមួយប្រជាពលរដ្ឋ ដែលរងផលប៉ះពាល់ មុនពេលចុះ ធ្វើការវាស់វែងលម្អិត (DMS) ចុះកិច្ចសន្យា និងទូទាត់សំណង។
- សហការជាមួយអនុគណៈកម្មការខេត្តកំពង់ស្ពឺ / កំពង់ឆ្នាំង ដើម្បីដោះស្រាយរាល់បញ្ហា។

**ប្រការ ៣៖** សមាសភាពក្រុមការងារដោះស្រាយផលប៉ះពាល់ដីធ្លី របស់ប្រជាពលរដ្ឋសម្រាប់គម្រោងខ្សែបញ្ជូន អគ្គិសនី ២៣០ គីឡូវ៉ុល ពីអនុស្ថានីយអគ្គិសនីខាងជើងរាជធានីភ្នំពេញ (GS6) ទៅអនុស្ថានីយអគ្គិសនីស្រុកទឹកជុំស ខេត្តកំពង់ឆ្នាំង ដូចខាងក្រោម ៖

១. លោក ម៉ៅ វិសាល	ប្រធានការិ.សង្គម បរិស្ថាន និងទំ.ទំ សាធារណៈ	ប្រធាន
២. លោក ចិន សុផាន់ណា	អនុប្រធានការិ.សង្គម បរិស្ថាន និងទំ.ទំ សាធារណៈ	អនុប្រធាន
៣. លោក ហ៊ាវ ចាន់វិសាល	អនុប្រធានការិ.សង្គម បរិស្ថាន និងទំ.ទំ សាធារណៈ	អនុប្រធាន
៤. លោក នង សុវណ្ណណេត	អនុប្រធានការិ.យល់យល់គ្រប់គ្រងគម្រោង១	សមាជិក
៥. ប្រធានក្រុមការងារខេត្តកំពង់ស្ពឺ / ខេត្តកំពង់ឆ្នាំង		សមាជិក

**ក្រុមការងារវាស់វែងលម្អិត (DMS) និងចុះកិច្ចសន្យា**

១. លោក ជា វ៉ៃ	ការិ.សង្គម បរិស្ថាន និងទំនាក់ទំនងសាធារណៈ	ប្រធាន
២. លោក ប៊ិន សុភ័ក្ត្រជា	ការិ.សង្គម បរិស្ថាន និងទំនាក់ទំនងសាធារណៈ	អនុប្រធាន
៣. លោក ស៊ុន វ៉ាសនា	ការិ.សង្គម បរិស្ថាន និងទំនាក់ទំនងសាធារណៈ	សមាជិក
៤. លោក ជិន ជំនាញ	ការិ.សង្គម បរិស្ថាន និងទំនាក់ទំនងសាធារណៈ	សមាជិក
៥. លោក ចុង សុខុម	ការិ.សង្គម បរិស្ថាន និងទំនាក់ទំនងសាធារណៈ	សមាជិក
៦. លោក សន សុភ័ក្ត្រា	ការិយាល័យគ្រប់គ្រងគម្រោងទី១	សមាជិក
៧. លោក សុខ សាលីម	ការិយាល័យគ្រប់គ្រងគម្រោងទី១	សមាជិក
៨. តំណាងអនុគណៈកម្មការខេត្តកំពង់ស្ពឺ / ខេត្តកំពង់ឆ្នាំង		សមាជិក

**ក្រុមការងារកំណត់បោះបង្គោលទំហំរបៀងនៃផលប៉ះពាល់ អ្នកបញ្ជូនទេសឋានលេខ២**

១. លោក អ៊ុន ណារុន	ការិ.វិភាគប្រព័ន្ធបញ្ជូន និង GIS	ប្រធាន
២. លោក ពេញ សុភា	ការិ.វិភាគប្រព័ន្ធបញ្ជូន និង GIS	សមាជិក

**ក្រុមការងារគ្រប់គ្រងទិន្នន័យ**

១. លោក ឌិន សកល	ការិ.សង្គម បរិស្ថាន និងទំនាក់ទំនងសាធារណៈ	ប្រធាន
២. លោក ស៊ឹម កុសល	ការិ.សង្គម បរិស្ថាន និងទំនាក់ទំនងសាធារណៈ	អនុប្រធាន

**ប្រការ ៤៖** ក្រុមការងារនេះមានភារកិច្ច ៖

- ជាជំនួយការផ្ទាល់ឲ្យគណៈកម្មការដោះស្រាយផលប៉ះពាល់គម្រោង។
- ចុះធ្វើការអង្កេតវាស់វែងលម្អិតលើផលប៉ះពាល់ដីធ្លី ផ្ទះសម្បែង ដើមឈើហូបផ្លែ ទ្រព្យសម្បត្តិរបស់ប្រជា ពលរដ្ឋដោយសាគរគម្រោង។



- បូកសរុបការងារ និងធ្វើរបាយការណ៍ពីលទ្ធផលការងារជូនគណៈកម្មការដោះស្រាយផលប៉ះពាល់របស់អគ្គិសនីកម្ពុជា នូវគ្រប់សកម្មភាពការងារដែលអនុវត្តបាន។
- រៀបចំបែបបទស្នើសុំដកថវិកា និងចុះទូទាត់ប្រាក់សំណងជូនប្រជាពលរដ្ឋដែលផលប៉ះពាល់ដើមឈើ ដំណាំ ហូបផ្លែ ផ្ទះសម្បែង ដីធ្លី និងសំណង់ផ្សេងៗ។

**ប្រការ៥៖** នាយករដ្ឋបាល នាយកហិរញ្ញកិច្ច-គណនេយ្យ និងនាយកផែនការយុទ្ធសាស្ត្រ និងគម្រោងការ និងលោក លោកស្រី ដូចមានចែងក្នុងប្រការ១ និងប្រការ៣ មានភារៈកិច្ចអនុវត្តតាមសេចក្តីសម្រេចនេះ ឲ្យមានប្រសិទ្ធភាពខ្ពស់ចាប់ពីថ្ងៃចុះហត្ថលេខាតទៅ។

**រដ្ឋមន្ត្រីប្រតិភូអមនាយករដ្ឋមន្ត្រី**  
**អគ្គនាយកអគ្គិសនីកម្ពុជា**



**កែវ រតនៈ**

**បង្គាប់ជូន**

- លោកអគ្គនាយកអគ្គិសនីកម្ពុជា
- នាយកដ្ឋានរដ្ឋបាល
- នាយកដ្ឋានហិរញ្ញកិច្ច-គណនេយ្យ
- នាយកដ្ឋានផែនការយុទ្ធសាស្ត្រ និងគម្រោងការ
- ដូចមានក្នុងប្រការ១ និងប្រការ៣  
“ ដើម្បីអនុវត្ត ”
- ឯកសារ-កាលប្បវត្តិ

Electricite du Cambodge  
Number 0040 SSR AK PYK

Phnom Penh, 17<sup>th</sup> January 2020

### Decisions

#### On

**Establishment the Committee and Workgroup (GRM) to solve the impacts of land, tree and household resettlement to villagers in the project of 230kV Power Transmission Line connecting from Northern Phnom Penh Substation (GS6) to Tuek Pos district Substation in Kampong Chhnang**

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- Seen Royal Decree No. JS/RKT/0396/10 dated 9<sup>th</sup> March 1996 on the establishment of Electricite du Cambodge as the state limited company
- Seen Royal Decree No. NS/RKT/0808/987 dated 28<sup>th</sup> August 2008 on the assigning the RGC Delegate in charge of managing EDC
- Seen Royal Decree No. NS/RKT/0918/926 dated 6<sup>th</sup> September 2018 on the assigning the dignitaries as Delegate Minister to the Prime Minister
- Referring to the letter No. 1518 SJN of the Council of Ministers dated 28<sup>th</sup> December 2010
- Loan Agreement L3789, L8357, G0645-CAM dated 28<sup>th</sup> June 2019 between RGC and ADB

### Decision

**Article 1:** Resettlement Committee solving impacts on households, fruits trees, and land in this project of 230kV Transmission Lines connecting Northern Phnom Penh (GS6) to Tuek Pos district substation in Kampong Chhnang province, consists of the following members:

- |                                    |                       |
|------------------------------------|-----------------------|
| 1. Dr. Praing Chulasa              | Deputy Managing       |
| Director Planning and Technique    | Chairman              |
| 2. Mr. Chhim Man                   | Director of Corporate |
| Planning and Projects              | Vice-chairman         |
| 3. Mr. Im SongTek                  | Deputy Director of    |
| Corporate Planning and Projects    | Member                |
| 4. Mr. Mao Visal                   | Manager Social        |
| Environmental & Public Relation    | Member                |
| 5. Mr. Sor Pengkhy                 | Project Management    |
| Office                             | Member                |
| 6. Mr. Phat Ratanak                | Deputy Manager        |
| Litigation Office Admin Department | Member                |

**Article 2:** Duties of the Committee:

- Make planning, lead, mark locations on map and on actual land locations, report to get approval from the H.E. Delegate Minister to the Prime Minister Managing Director of EDC.
- Make planning, lead, consult with impacted people before detail measurement survey (DMS), contract agreement, and compensation.
- Cooperate with the sub-committee of provinces Kampong Speu/Kampong Chhnang to solve all problems.

**Article 3:** Workgroup for the land resettlement in the project of 230kV Transmission Lines connecting Northern Phnom Penh substation (GS6) to Tuek Pos district substation in Kampong Chhnang province consists of the following:

- |                     |   |        |
|---------------------|---|--------|
| 1. Mr. Mao Visal    | Manager Social Environmental & Public Relation    | Leader |
| 2. Mr. Chen Sophana | Deputy Mgr Social Environmental & Public Relation |        |

- Vice-leader: In charge prepare procurement procedures and compensation
3. Mr. Hav Chan Visal Deputy Mgr Social Environmental & Public Relation  
Vice-leader: In charge management of social and environment
  4. Mr. Nong Sovanneth Deputy Project Management Office I Member  
Leader of Workgroups of provinces Kampong Speu/Kampong Chhnang Member

**Detail Measurement Survey Team (DMS) and Contracting:**

1. Mr. Chea Vuthy Social Environmental & Public Relation Office Leader
2. Mr. Ben Sopheak Da Social Environmental & Public Relation Office Vice-leader
3. Mr. Sun Veasna Social Environmental & Public Relation Office Member
4. Mr. Chin Chumnean Social Environmental & Public Relation Office Member
5. Mr. Thong Sokhom Social Environmental & Public Relation Office Member
6. Mr. Sorn Sopheaktra Project Management Office I Member
7. Mr. Sok Salim Project Management Office Member
8. Representatives of Sub-committee Kampong Speu/Kampong Chhnang Member

**Team for setting-out of impact corridor and topography:**

1. Mr. Un Narun Transmission System Analysis Office and GIS Leader
2. Mr. Penh Sophea Transmission System Analysis Office and GIS Member

**Database Management Team:**

1. Mr. Din Sakal Social Environmental & Public Relation Office Leader
2. Mr. Sim Kosal Social Environmental & Public Relation Office Vice-leader

**Article 4:** This team has duties:

- Direct assistant to the project impacts resettlement committee
- Conduct impacts detail survey on land, fruits trees, households, and properties of the impacted people caused by this project
- Works summary and making progress reports on all work activities done to the resettlement committee of Electricite du Cambodge
- Prepare budget withdrawal application forms and make compensation to the impacted people on the trees, fruits plants, households, lands, and other structures.

**Article 5:** Director of Administration, Director of Finance-Accounting, and Director of Strategic Planning and Projects, and all members stipulated in article 1 and article 3, are responsible for implementing this decision effectively.

Minister attached to the Prime Minister  
Managing Director of EDC  
**Keo Rottanak**

**Copy for:**

- Deputy Managing Director of EDC
- Administration Department
- Department of Finance-Accounting
- Department of Strategic Planning and Projects
- As in article 1 and article 3 to carry out
- Documents-Chronology

## Annex 5: Establishment of GRC of Kampong Speu Province and GRC of Kampong Chhnang Province

Kingdom of Cambodia

Nation Religion King

TRANSLATE BY PIC

Kampong Speu Provincial Administration

Number 118/20 SSR

[stamp of Kampong Speu EDC  
incoming letter dated 23<sup>rd</sup> October  
2020]

### Decisions

On

**Establishment the Complaints Solving Committee to settle impacts on buildings, households, land, and fruits trees, caused by the project of 230kV Power Transmission Lines connecting from the Northern Phnom Penh Substation (GS6) to the solar power substation in Tuek Phos district Kampong Chhnang province**

### Governor of Kampong Speu Provincial Board

- Seen the Constitution of the Kingdom of Cambodia
- Seen Royal Decree No. NS/RKT/0918/925 dated 6<sup>th</sup> September 2018 on the appointment of the Royal Government of Cambodia
- Seen Royal Code No. NS/RKM/0618/012 dated 28<sup>th</sup> June 2018 promulgating the law on organizing and functioning of the Council of Ministers
- Seen Royal Code No. NS/RKM/0508/017 dated 24<sup>th</sup> May 2008 promulgating the law on the administration of Capital, Provinces, Cities-Towns, Districts and Khan
- Referring to the letter No. 8595 LS.AK.PYK dated 22<sup>nd</sup> November 2019 of EDC
- According to the necessity required by the Kampong Speu Provincial Administration

### Decision

**Article 1:** Established the Complaints Solving Committee to cooperate in settling impacts on buildings, households, land, and fruits trees of the people, plus socio-environment impacts caused by the project of 230kV Power Transmission Lines connecting from the Northern Phnom Penh Substation (GS6) in Kampong Speu Province to the solar power substation in Tuek Phos district Kampong Chhnang province, consisting of the following members:

- |                        |   |               |
|------------------------|---|---------------|
| 1. Mr. Kang Vannaro    | Deputy Provincial Governor                  | Chairman      |
| 2. Mr. Keo Kuchsey     | Provincial Administration Director          | Vice-chairman |
| 3. Mr. Thorn Buntha    | Provincial Economy and Finance Dpt Director | Vice-chairman |
| 4. Mr. Binh Chiv Tong  | Provincial Mines and Energy Dpt Director    | Vice-chairman |
| 5. Maj.Gen.Sam Samuon  | Provincial Police Commissioner              | Member        |
| 6. Brig.Gen. Chu Sarun | Provincial Gendarmerie Commander            | Member        |
| 7. Mr. Tab Malay       | Prov. Dept of Land Manag Urban Pln Constr   | Member        |

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8. Mr. Su Sunthara	Prov. Dept of Publ Works and Transpt. Director	Member
9. Ieng Dam	Prov. Dept of Rural Development Director	Member
10. Suos Sophal	Acting Director of Provincial Environment Dpt	Member
11. Mr. Klot Ketya	Head of Provincial EDC	Member
12. Mr. Kiev Leang Kia	Thpong District Governor	Member
13. Mr. Nguon Veasna	Udong District Governor	Member
14. Mr. Bun Sambath	Inter-sectorial Office of Provincial Hall Director	Member
15. Heads of Communes and Villages involved		Member

**Article 2:**

This Complaints Solving Committee has the following duties:

1. Guide and explain the people impacted about the process of making the action plan and the schedule of their resettlement
2. Guide and explain people the content of complaints in accordance with the action plan document for resettlement to the people impacted by the development project
3. Explain them the policy for determining the right to receive compensation
4. Receive complaints from people and solve it timely
5. Make a regular report on the day of 15 the situation and work progress of the complaints committee. On the other hand, continually report to the his excellency chairman after any project impacts complaints are solved
6. Start receiving complaints after completing compensation

**Article 3:**

Works Carrying Out of the Complaints Solving Committee:

- In the process of complaints solving, it should check and verify the problems against the impact management policy to ensure the accountability and transparency in responding to the concerns and requests of the impacted people
- In order to respond to this goal, the complaints solving mechanism must follow the following four-stage procedure:

**Stage 1:** the impacted people can request negotiation with the inter-ministerial committee working group and the provincial sub-committee or submit complaints to the chief of village, chief of commune or chief of Sangkat. If there is no solution within 14 days, the impacted people can continue their complaints

**Stage 2:** the impacted people can submit complaints to the relevant commune/Sangkat authorities. If there is no solution within 15 days, the impacted people can continue their complaints

**Stage 3:** provincial complaints solving committee to check and solve it with the relevant parties. If there is no solution within 30 days, the impacted people can continue their complaints

**Stage 4 (final stage):** the people can submit their complaints to the court. Complaints in the above stages will not be able to interrupt or suspend the project implementation

**Article 4:**

Any provisions that are contrary to this decision shall be considered repealed

**Article 5:**

Provincial administration, police commissioner, gendarmerie commander, all relevant institutions, departments, units, and the members as stipulated in the article 1 shall implement this decision effectively from the date of this signature.

Kampong Speu, 22<sup>nd</sup> October 2020

**Provincial Governor**

[Stamp of Kampong Speu Provincial Administration]

**Vey Samnang**

**Copy for:**

- Office of the Council of Ministers
- Ministry of Interior
- Ministry of Economy and Finance
- Electricity Authority of Cambodia (for information)
- As article 1 (to implement)
- Documents-Chronology





រដ្ឋបាលខេត្តកំពង់ស្ពឺ  
លេខ: ១១៤/២០.ស.សរ

**ព្រះរាជាណាចក្រកម្ពុជា**  
**ជាតិ សាសនា ព្រះមហាក្សត្រ**



**សេចក្តីសម្រេច**  
**ស្តីពី**

**ការបង្កើតគណៈកម្មការដោះស្រាយបណ្តឹងសារទុក្ខ**  
**សម្រាប់អនុវត្តការងារដោះស្រាយផលប៉ះពាល់សំណង់ ផ្ទះសម្បែង ដីធ្លី និងដីមឈើ**  
**ហូបផ្លែ ដោយសារគម្រោងវិនិយោគសាងសង់ស្រះ ២៣០គីឡូម៉ែត្រ ពីអនុស្ថានីយ**  
**អគ្គិសនីខាងជើងរាជធានីភ្នំពេញ (GS6) ទៅអនុស្ថានីយអគ្គិសនីថាមពលព្រះអាទិត្យ**  
**នៅស្រុកទឹកជុំស ខេត្តកំពង់ស្ពឺ**

**អភិបាល នៃគណៈអភិបាលខេត្តកំពង់ស្ពឺ**

- បានឃើញរដ្ឋធម្មនុញ្ញនៃព្រះរាជាណាចក្រកម្ពុជា
- បានឃើញព្រះរាជក្រឹត្យលេខ នស/រកត/០៩១៨/៩២៥ ចុះថ្ងៃទី០៦ ខែកញ្ញា ឆ្នាំ២០១៨ ស្តីពីការតែងតាំងរាជរដ្ឋាភិបាលនៃព្រះរាជាណាចក្រកម្ពុជា
- បានឃើញព្រះរាជក្រមលេខ នស/រកម/០៦១៨/០១២ ចុះថ្ងៃទី២៨ ខែមិថុនា ឆ្នាំ២០១៨ ដែលប្រកាសឱ្យប្រើច្បាប់ស្តីពីការរៀបចំ និងការប្រព្រឹត្តិទៅនៃគណៈរដ្ឋមន្ត្រី
- បានឃើញព្រះរាជក្រមលេខ នស/រកម/០៥០៨/០១៧ ចុះថ្ងៃទី២៤ ខែឧសភា ឆ្នាំ២០០៨ ដែលប្រកាសឱ្យប្រើច្បាប់ស្តីពីការគ្រប់គ្រងរដ្ឋបាលរាជធានី ខេត្ត ក្រុង ស្រុក ខណ្ឌ
- យោងលិខិតលេខ ៨៩៩៥ លស.អក.ផយគ ចុះថ្ងៃទី២២ ខែវិច្ឆិកា ឆ្នាំ២០១៩ របស់អគ្គិសនីកម្ពុជា
- យោងតាមការចាំបាច់របស់រដ្ឋបាលខេត្តកំពង់ស្ពឺ

**សម្រេច**

**ប្រការ១.\_**

ត្រូវបានបង្កើតគណៈកម្មការដោះស្រាយបណ្តឹងសារទុក្ខ ដើម្បីសហការដោះស្រាយផលប៉ះពាល់សំណង់ផ្ទះសម្បែងដីធ្លី និងដីមឈើហូបផ្លែរបស់ប្រជាពលរដ្ឋ រួមទាំងសង្គម និងបរិស្ថាន ដែលរងផលប៉ះពាល់ដោយគម្រោងវិនិយោគសាងសង់ស្រះ ២៣០គីឡូម៉ែត្រ ពីអនុស្ថានីយអគ្គិសនីខាងជើងរាជធានីភ្នំពេញ (GS6) ទៅអនុស្ថានីយអគ្គិសនីថាមពលព្រះអាទិត្យ នៅស្រុកទឹកជុំស ខេត្តកំពង់ស្ពឺ ដែលមានសមាសភាពដូចខាងក្រោម៖

- |                          |                      |           |
|--------------------------|----------------------|-----------|
| ១-លោក <b>កង បណ្ណារ៉ូ</b> | អភិបាលរងខេត្ត        | ប្រធាន    |
| ២-លោក <b>កែវ គុជសី</b>   | នាយករដ្ឋបាលសាលាខេត្ត | អនុប្រធាន |

**KINGDOM OF CAMBODIA**  
**Nation Religion King**

(Logo)  
**Electricité du Cambodge**  
 N. 184 SSR.EDC.P.Y.K

*Thursday, 5<sup>th</sup> rising moon day of the lunar month of Cheth,  
 Year of the Rat, the second era of Tonaka, 2564 B.E*  
 Phnom Penh, 18 March, 2021

**Decision**  
**On**

**Organization of the Composition of Committee and Working Group to Address  
 Impacts on Land, Houses, Fruit trees, Environmental and Social Safety  
 Protection, and Complaints of the People for 230 kV transmission line project  
 connecting GS6 Substation North of Phnom Penh to Tuek Phos Solar Substation  
 in Kompong Chhnang Province**

- Having seen the Royal Decree No. JS/RKT/0396/10, dated 09 March 1996, on the establishment of Electricité du Cambodge - EDC as a state-owned limited liability company,
- Having seen the Royal Decree No. NS/RKT/0508/987, dated 28 August, 2008, on the Appointment of RGC Delegate in charge of General Director of Electricité Du Cambodge,
- Having seen the Royal Decree No. NS/RKT/0918/926, dated 06 September 2018, on the Appointment of the Dignitaries as Delegated Minister attached to the Prime Minister,
- Referring to Office of the Council of Ministers' letter No. 1518SJN, dated 28 December, 2010,
- Loan Agreement No. L3789, L8357 & G0645-CAM, dated 28 June 2019 between the Royal Government of Cambodia and Asian Development Bank (ADB),

**Hereby Decided**

**Article 1:**

The Committee of Resettlement to Address Impacts on Land, Structure, Houses, Fruit trees, Environmental and Social Safeguard and Complaints of the People for 230 KV transmission line project connecting North of Phnom Penh Substation (GS6) to Solar Substation in Tuek Phos, Kompong Chhnang Province is as follows:

1. Dr. Praing Chulasa	Deputy General Director of Planning and Techniques	Chairman
2. Mr. Chhim Mann	Director of Corporate Planning and Projects	Vice Chairman
3. Mr. Im Songtech	Deputy Director of Strategic and Project Planning	Member
4. Mr. Mao Visal	Chief of Social, Environmental and Public Relations Office	Member
5. Mr. Sor Phengkhy	Chief of Project Management Office No. I	Member
6. Mr. Phat Rotanak	Deputy Chief of Dispute Office, Administration Department	Member



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 86485 (English/Ministry)

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 submitted for translation purposes only.  
 RIEL Chanserey, Managing Director of GO Co., Ltd.  
 Phnom Penh, May 7, 2021





**Article 2:**

This Committee shall perform the following duties:

- Plan and lead mapping of locations subject to actual survey and report for approval from H.E Delegated Minister attached to the Prime Minister in charge of General Director of EDC.
- Conduct planning for public consultation with the affected people before starting a Detailed Measurement Survey (DMS), entering into agreement, and compensation payment,
- Ensure that displaced people who do not have the right to own land or any legal land title are entitled to assistance in settlement work and compensation for loss of current asset other than land.
- Raise awareness of the project to local stakeholders, affected people and local authorities on the project grievance redress mechanism.
- Develop preventive, emergency preparedness and response measures to avoid and reduce risks and adverse effects on the health and safety of local communities.
- Establish a grievance redress mechanism for the protection of safety, environmental and social safeguard to receive and coordinate all grievances and project impacts.
- Develop an Environmental Management Plan (EMP) that includes proposals for mitigation measures, environmental monitoring and reporting requirements, relevant institutional arrangements, capacity building and training measures.
- Manage and resolve blocking issues, land impacts, housing construction, fruit trees, safety, environmental and social safeguard and complaints for the project.
- Cooperate with Kompong Speu/Kompong Chhnang Province Sub-Committee to address all concerns and issues.

**Article 3:**

The Working Group of Resettlement to Address Impacts on Land, Structure, Houses, Fruit trees, Environmental and Social Safeguard Protection, and Grievance of the People for 230 kV transmission line project connecting North of Phnom Penh Substation (GS6) to Solar Substation in Tuek Phos, Kompong Chhnang Province is as follows:

1. Mr. Mao Visal	Chief of Social, Environmental and Public Relations Office-SEPRO	Leader
2. Mr. Chen Sophanna	Deputy Chief of SEPRO Office in charge of Project Management and Social and Environmental Settlement	Deputy Leader
3. Mr. Nong Sovannet	Deputy Chief of Project Management Office No. I (PMOI)	Member
4. Leader of Kompong Speu/Kompong Chhnang Provincial Working Group		Member

**DMS and Contract Team**

1. Mr. Chea Vuthy	SEPRO Office	Leader
2. Mr. Bin Sopheakda	SEPRO Office	Deputy Leader
3. Mr. Sun Veasna	SEPRO Office	Member
4. Mr. Chin Chomneanh	SEPRO Office	Member
5. Mrs. Y Nary	SEPRO Office	Member
6. Mr. Sorn Sokpheaktra	PMOI Office	Member
7. Mr. Sok Salim	PMOI Office	Member
8. Representative of Kompong Speu/Kompong Chhnang Provincial Sub-Committee		Member



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18645 (Registry/Ministry)

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submitted for translation purpose only.  
RIEL Chanserey, Managing Director of GO Co., Ltd.  
Phnom Penh, May 7, 2023



**Working Group demarcating boundary markers to determine the scope of affected corridor - Topography Technicians**

1. Mr. Un Narun	Transmission System Analysis & GIS Office	Leader
2. Mr. Penh Sophea	Transmission System Analysis & GIS Office	Deputy Leader

**Data, Social, and Environmental Management and Grievance Teams**

1. Mr. Din Sakal	SEPRO Office	Leader
2. Mr. SemKosal	SEPRO Office	Deputy Leader
3. Mr. Thong Sokhom	SEPRO Office	Member

**Article 4:**

The Working Group shall perform the following duties:

- Act as personal assistant to the Committee of Resettlement to Address Impacts on Land, Structure, Houses, Fruit trees, Environmental and Social Safeguard and Grievance of the Project,
- Conduct Detailed Measurement Survey (DMS) of impacts on people's land, structure, houses, fruit trees and other assets affected people by of the project,
- Summarize and report the work progress to the EDC Resettlement Committee for all work activities implemented,
- Prepare an application for fund withdraw land payment of compensation to affected people for loss of fruit trees, crops, houses, land and others structures.
- Monitor and report to the Committee on the work of construction company (Contractor) in the implementation of the Environmental Management Plan (EMP),
- Receive complaints and record them on the list and resolve complaints about project impacts and environmental impacts caused by project activities in accordance with subsequent procedures at the request of the affected people,
- Participate in resolving complaints about the impact on private or public property or disturbing or polluting the environment, welfare and environmental safety, etc, caused by project activities, including environmental and social safe guard, and
- Monitor and record the progress of resolving complaints based on environmental and social safeguard protection and report to the Committee for Resolving Impacts on Land, Structure, Housing, Fruit Trees, Social and Environmental Safe guard and Complaints.

**Article 5:**

Decision No. 0040SSR.EDC.P.Y.K, dated 17 January 2020, of Electricité du Cambodge, which is contrary to this Decision shall be abrogated.

**Article 6:**

The Administration Director, Director of Finance-Accounting, and Director of Corporate Planning and Projects, and those listed in Article 1 and 3, shall implement this Decision in a high effective manner from the date of its signature.

**Delegate Minister attached to the Prime Minister  
In charge of General Director of EDC  
(Signature and Stamp)**

**KEO ROTTANAK**

**CC:**

- Deputy General Director(s) of EDC
- Administration Department
- Finance-Accounting Department
- Corporate Planning and Projects Department
- As mentioned in Article 1 & 3 "for implementation"
- File - Archive




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1660 (English/Ministry)

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submitted for translation purposes only.  
RIEL Chanserey, Managing Director of GO Co., Ltd.  
Phnom Penh, May 7, 2021



**ព្រះរាជាណាចក្រកម្ពុជា**  
**ជាតិ សាសនា ព្រះមហាក្សត្រ**



**អគ្គិសនីកម្ពុជា**  
លេខ: ១៧/ គណៈ អគ្គិសនី

ថ្ងៃចេញផ្សាយ: ០៩ កើត ខែ ឧសភា ឆ្នាំជូត ទោស័ក ព.ស.២៥៦៤  
រាជធានីភ្នំពេញ, ថ្ងៃទី ១៧ ខែ ឧសភា ឆ្នាំ ២០២១

**សេចក្តីសម្រេច**  
**ស្តីពី**

**ការរៀបចំសមាសភាពគណៈកម្មការដោះស្រាយជម្លោះការលំដើម្បី សំណង់ ផ្ទះសម្បែង ដើមឈើរូបថត កិច្ចការការសុវត្ថិភាពបណ្តុះសង្គម និងបណ្តុះបណ្តាល របស់ប្រជាពលរដ្ឋ សម្រាប់គម្រោងវិនិយោគអគ្គិសនីតំបន់ស្បែង ២៣០ គីឡូវ៉ុល ពីអនុស្សាវរីយ៍អគ្គិសនីខាងជើងរាជធានីភ្នំពេញ (GS6) ទៅអនុស្សាវរីយ៍អគ្គិសនីថាមពលព្រះអាទិត្យ នៅស្រុកទឹកថ្លា ខេត្តកំពង់ឆ្នាំង**

- បានឃើញព្រះរាជក្រឹត្យលេខ ជស/រកត/០៣៩៦/១០ ចុះថ្ងៃទី ០៩ ខែ មីនា ឆ្នាំ ១៩៩៦ ស្តីពីការបង្កើត អគ្គិសនីកម្ពុជា ជាក្រុមហ៊ុនទទួលខុសត្រូវមានកំណត់មួយរបស់រដ្ឋ។

- បានឃើញព្រះរាជក្រឹត្យលេខ នស/រកត/០៨០៨/៩៨៧ ចុះថ្ងៃទី ២៨ ខែ សីហា ឆ្នាំ ២០០៨ ស្តីពីការតែងតាំងប្រតិភូរាជរដ្ឋាភិបាលកម្ពុជា ទទួលបន្ទុកជា អគ្គនាយកអគ្គិសនីកម្ពុជា។

- បានឃើញព្រះរាជក្រឹត្យលេខ នស/រកត/០៩១៤/៩២៦ ចុះថ្ងៃទី ០៦ ខែ កញ្ញា ឆ្នាំ ២០១៤ ស្តីពីការតែងតាំង ឥស្សរជន ជាមជ្ឈមណ្ឌលប្រតិភូអន្តរក្រុមប្រឹក្សា។

- យោងលិខិតលេខ ១៩១៨ សជណ ចុះថ្ងៃទី ២៨ ខែ ធ្នូ ឆ្នាំ ២០១០ របស់ទីស្តីការគណៈរដ្ឋមន្ត្រី។

- កិច្ចព្រមព្រៀងកំណត់លេខ L3789, L8357, G0645-CAM ចុះថ្ងៃទី ២៨ ខែ មិថុនា ឆ្នាំ ២០១៩ រវាងរាជរដ្ឋាភិបាល កម្ពុជា និងធនាគារអភិវឌ្ឍន៍អាស៊ី (ADB)។

**សម្រេច**

**ប្រការ ១៖** សមាសភាពគណៈកម្មការដោះស្រាយជម្លោះការលំដើម្បី សំណង់ ផ្ទះសម្បែង ដើមឈើរូបថត កិច្ចការការសុវត្ថិភាពបណ្តុះសង្គម និងបណ្តុះបណ្តាល របស់ប្រជាពលរដ្ឋ សម្រាប់គម្រោងវិនិយោគអគ្គិសនីតំបន់ស្បែង ២៣០ គីឡូវ៉ុល ពីអនុស្សាវរីយ៍អគ្គិសនីខាងជើងរាជធានីភ្នំពេញ (GS6) ទៅអនុស្សាវរីយ៍អគ្គិសនីថាមពលព្រះអាទិត្យ នៅស្រុកទឹកថ្លា ខេត្តកំពង់ឆ្នាំង ដែលមានសមាសភាពដូចខាងក្រោម៖

១. លោកបណ្ឌិត ប្រាំង ជលសា

២. លោក ឈឹម ម៉ាន

៣. លោក អ៊ឹម សុងតិច

អគ្គនាយករងផែនការ និងបច្ចេកទេស

នាយកផែនការយុទ្ធសាស្ត្រ និងគម្រោងការ

នាយករងផែនការយុទ្ធសាស្ត្រ និង គម្រោងការ

ប្រធាន

អនុប្រធាន

សមាជិក

អគ្គិសនីកម្ពុជា ៧២ ផ្លូវ ព្រះយុគន្ទៈ សង្កាត់ វិហ្វូ ខណ្ឌដូនពេញ រាជធានីភ្នំពេញ

ទូរស័ព្ទលេខ ០២៣ ៨២២ ៩៨១ ទូរសារ (៨៩៩) ២៣ ៨២២ ០១៨

**Annex 6: List of Grievance Registration Logbook**

## **GRIEVANCE REGISTRATION LOGBOOK**

**Project:** National Solar Park Project for the Transmission line and Substation in the province of Kampong Chhnang, and Kampong Speu.

ADB Loan No. 3789 – CAM (COL)

**Location:** Kampong Speu/Kampong Chhnang Provinces

**Grievance Focal Person:** .....

**Type of Grievance:**

**A** Inquiry, clarification, suggestion, request

**B** Complaint regarding alleged breach of the SPS 2009 or Public Communication Policy 2011

**C** Allegation of fraud or corruption

**D** Natural flooding

**SOC** Social


**ENV** Environment

**GRIEVANCE REGISTRATION LOG BOOK**

No.	Name of Affected Person	Affected Person Contact Details (Address, telephone)	Type (A, B, C, D, SOC or ENV)	Location of impact (village name)	Grievance Summary (describe issue/inquiry raised)	Date of Screening of EDC/SEPRO	Resolution/Agreed
1							
2							
3							
4							
5							
6							



## Annex 7: Clarification on EDC's policy related to compensation cost for high voltage transmission line project.



**KINGDOM OF CAMBODIA**  
NATION RELIGION KING

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**ELECTRICITÉ DU CAMBODGE**  
Ref: **3817 EDC-CPD**

Phnom Penh, 31, May, 2021

To : Mr. Toru Kubo  
Director  
Energy Division, Southeast Asia Department  
6 ADB Avenue, Mandaluyong City 1550 Metro Manila, Philippines

Tel : +63 2 632 4444

**Subject : Clarification on EDC's policy related to compensation cost for high voltage transmission line project.**

Dear Mr. Toru Kubo,

We would like to inform you that in 2017, EDC revised our policy related to resettlement and compensation for high voltage transmission line projects. While the prior policy did not compensate affected people for the affected rice paddy and plantations fields, the new policy provides adequate benefits to all affected people for the affected lands. The policy also differentiates between a Right of Way (ROW) and a narrower, Corridor of Impact (COI). While the ROW is the overall land that is being considered for the transmission line, the COI represents a small portion within the ROW where the direct impacts are expected. Details on the ROW and COI set asides, and related compensation amounts that are applicable is provided below:

1. 115 kV high voltage transmission line Projects:
  - The land to be acquired for the tower location within the COI is compensated 100% and neither the COI, nor the wider ROW is acquired, and the easement fees specified below are being paid to offset the restrictions imposed. Costs will be determined through a Replacement Cost Study (RCS).
  - A COI of 15 m (7.50m on each side from a central tower/pole), would apply. Within the COI, an easement fee of 30 % of the land value would be paid for all privately owned land and 100% compensation will be paid for houses and other structures. Costs will be determined through RCS.
  - The ROW would be equal or greater than 15 m ( $\geq 7.50\text{m}$  on each side from a central tower/pole) 100 % compensation will be paid for all tall fruit trees and other trees, which pose a risk to the transmission line and therefore need to be cut down. No compensation is provided for the land. Costs will be determined through RCS.
2. 230 kV high voltage transmission line Projects:
  - The land to be acquired for the power towers within the COI is compensated 100% and neither the COI, nor the wider ROW is acquired, and the easement fees specified below are being paid to offset the restrictions imposed. Costs will be determined through RCS.
  - A COI of 20 m (10 m on each side from a central tower/pole), would apply. Within the COI, an easement fee of 30 % of the land value would be paid for all privately owned land and 100% compensation will be paid for houses and other structures. Costs will be determined through RCS.

*sm Ark*

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Electricité du Cambodge: #2, St. Preah Yukunthor, Sangkat Wat Phnom, Khan Duan Penh, Phnom Penh Phone: (855) 23 723 971 – 724 771

- The ROW would be equal or greater than 20 m ( $\geq 10$  m on each side from a central tower/pole) 100 % compensation will be paid for all tall fruit trees and other trees, which pose a risk to the transmission line and therefore need to be cut down. No compensation is provided for the land. Costs will be determined through RCS.
3. High voltage transmission line projects constructed on ROW of public road or public land:  
As per the national technical standards for safe operation of transmission lines and minimization of socio-economic impacts, when high voltage transmission line with narrow towers made of steel or concrete poles are installed in the ROW of public roads, and which are at a safe distance from houses and structures, no compensation will be provided. This is because the tower/pole and transmission line infrastructure are located on public land. In addition, based on the construction law of The Royal Government of Cambodia, all structure must maintain a safe distance from the boundary of private property. If there are fruit trees that are on private property that need to be cut as they might affect the functioning of the transmission line, in such cases, due compensation based on RCS will be paid.
  4. For the existing houses and other structures beyond the COI but within the ROW:  
In general, there is no requirement to relocate houses/structures beyond the COI. In special case (rare case), where relocation of those asset is required, EDC will apply the compensation as per process and procedure used as within the affected assets along the COI.

Therefore, EDC would appreciate your acknowledgement of EDC's policy related to resettlement and compensation payments, and we intend to apply this policy for the National Solar Park Project and Grid Reinforcement Project.



Sincerely yours,

**KEO ROTTANAK**

Minister attached to the Prime Minister.

Managing Director of EDC *Handwritten signature*

**Annex 8: Summary of Issues Discussed in the Meetings**

Issues Discussed	Date/location	Concerns, suggestions, and opinions raised by AHs	Resolution/Agreed
Compensation and Assistance Payment for AHs in Thpong District	26 Jan. 2022 (Thpong district office)	<ol style="list-style-type: none"> <li>1) Mr. Chea Voeurn raised his concerns about how the compensation and assistance payment would be paid to them (AHs) and they wanted to increase more rate of land rate than the market rate accordingly by EDC. The rate cost was suggested from USD 0.90 to USD 3.00 per s.q m2 of affected land.</li> <li>2) Ms. Sotheavy has agreed with this amount rate</li> <li>3) Mr. Keang Se did not decision-making during this time, he said that let him discuss with his family later.</li> </ol>	1 AH has agreed with the RCS rate; accordingly, and 2 AHs will make appointment for the next discussion meeting
Compensation and Assistance Payment for AHs in Odongk District	28 April 2022 (Odongk district office)	<ol style="list-style-type: none"> <li>1) Most of the AHs (4 AHs) did not agree with the RCS was updated in the LARP reports. All of AHs requested the price from USD20 to USD50 per s.q.m2 of compensation cost for the land tower, and USD8 to USD25 for the ROW land of the transmission line, while in the RCS is USD12 to USD20 per s.q.m2 for the land tower, and USD3.6 to USD6 for ROW land only.</li> </ol>	<p>13 AHs were invited to join this meeting, but only 4 AHs has participated (9AHs absent).</p> <p>The 4 AHs requested to the GRM/GRC to increase the compensation rate. This meeting has not been decided yet. In conclusion, during this meeting, the committee has not yet decided what to do at the request of these affected households, waiting to meet with the households who are not present at this time. So, another meeting will be arranged.</p>

Source: Minutes of public consultation meeting, January and April 2022



Minute of Meeting on 26 January 2022 in Thpong District Administration Office

ព្រះរាជាណាចក្រកម្ពុជា  
ជាតិ សាសនា ព្រះមហាក្សត្រ

ខេត្តកំពង់ឆ្នាំង  
រដ្ឋបាលស្រុក  
លេខៈ ២៤ ២២ ល.អ.ជ

ថ្ងៃ ចន្ទ រាជធានីភ្នំពេញ ថ្ងៃទី ២៦ ខែ មករា ឆ្នាំ ២០២២

**លិខិតអញ្ជើញ**

សូមគោរពអញ្ជើញ៖ លោកប្រធានគណៈបន្ទប់សន្តិភាព និងសហការី  
ដើម្បីចូលរួម បោះឆ្នោតយល់ឈប់របស់ក្រុមប្រឹក្សាភិបាលស្រុកលេខ២០០៧អនុសាសន៍បោះឆ្នោត  
ក្នុងការជ្រើសរើសក្រុមប្រឹក្សាភិបាលស្រុកលេខ២០០៧អនុសាសន៍បោះឆ្នោត  
ដែលមានសមាជិកៗ ០១០ នាក់ ក្នុងចំណោមសមាជិកៗ ០១០ នាក់  
ក្រសួងព្រៃទឹកដី ខេត្តកំពង់ឆ្នាំង ឆ្នាំ ២០២២  
រយៈពេល៖ ០៨:០០ ព្រឹក  
ទីកន្លែង៖ ក្រសួងព្រៃទឹកដី ខេត្តកំពង់ឆ្នាំង

រាស្ត្រសហគមន៍ប្រជាជនប្រជាជនស្រុក និងសហគមន៍ប្រជាជនស្រុក  
សូមលោក ប្រធានគណៈបន្ទប់សន្តិភាព និងសហការី អញ្ជើញចូលរួមការងារ។

( ត្រួតពិនិត្យ )  
**អគ្គប្រតិភូ**  
លេខៈ ២៤ ២២ ល.អ.ជ

ព្រះរាជាណាចក្រកម្ពុជា  
ជាតិ សាសនា ព្រះមហាក្សត្រ

**កិច្ចសន្យា**

ថ្ងៃទី ២៦ ខែ មករា ឆ្នាំ ២០២២ ព្រឹក ០៨:០០ ព្រឹក  
ខេត្តកំពង់ឆ្នាំង រដ្ឋបាលស្រុក  
លេខៈ ២៤ ២២ ល.អ.ជ

**កិច្ចសន្យា**

សហគមន៍ប្រជាជនប្រជាជនស្រុក និងសហគមន៍ប្រជាជនស្រុក  
សូមលោក ប្រធានគណៈបន្ទប់សន្តិភាព និងសហការី អញ្ជើញចូលរួមការងារ។

កិច្ចសន្យា ៖ ក្រុមប្រឹក្សាភិបាលស្រុកលេខ២០០៧អនុសាសន៍បោះឆ្នោត  
ដែលមានសមាជិកៗ ០១០ នាក់ ក្នុងចំណោមសមាជិកៗ ០១០ នាក់  
ក្រសួងព្រៃទឹកដី ខេត្តកំពង់ឆ្នាំង ឆ្នាំ ២០២២  
រយៈពេល៖ ០៨:០០ ព្រឹក  
ទីកន្លែង៖ ក្រសួងព្រៃទឹកដី ខេត្តកំពង់ឆ្នាំង

( ត្រួតពិនិត្យ )  
**អគ្គប្រតិភូ**  
លេខៈ ២៤ ២២ ល.អ.ជ

២. ក្រុមប្រឹក្សាភិបាលស្រុកលេខ២០០៧អនុសាសន៍បោះឆ្នោត  
ដែលមានសមាជិកៗ ០១០ នាក់ ក្នុងចំណោមសមាជិកៗ ០១០ នាក់  
ក្រសួងព្រៃទឹកដី ខេត្តកំពង់ឆ្នាំង ឆ្នាំ ២០២២  
រយៈពេល៖ ០៨:០០ ព្រឹក  
ទីកន្លែង៖ ក្រសួងព្រៃទឹកដី ខេត្តកំពង់ឆ្នាំង

( ត្រួតពិនិត្យ )  
**អគ្គប្រតិភូ**  
លេខៈ ២៤ ២២ ល.អ.ជ

ព្រះរាជាណាចក្រកម្ពុជា  
ជាតិ សាសនា ព្រះមហាក្សត្រ

ខេត្តកំពង់ឆ្នាំង  
រដ្ឋបាលស្រុក  
លេខៈ ២៤ ២២ ល.អ.ជ

**កិច្ចសន្យា**

សហគមន៍ប្រជាជនប្រជាជនស្រុក និងសហគមន៍ប្រជាជនស្រុក  
សូមលោក ប្រធានគណៈបន្ទប់សន្តិភាព និងសហការី អញ្ជើញចូលរួមការងារ។

កិច្ចសន្យា ៖ ក្រុមប្រឹក្សាភិបាលស្រុកលេខ២០០៧អនុសាសន៍បោះឆ្នោត  
ដែលមានសមាជិកៗ ០១០ នាក់ ក្នុងចំណោមសមាជិកៗ ០១០ នាក់  
ក្រសួងព្រៃទឹកដី ខេត្តកំពង់ឆ្នាំង ឆ្នាំ ២០២២  
រយៈពេល៖ ០៨:០០ ព្រឹក  
ទីកន្លែង៖ ក្រសួងព្រៃទឹកដី ខេត្តកំពង់ឆ្នាំង

( ត្រួតពិនិត្យ )  
**អគ្គប្រតិភូ**  
លេខៈ ២៤ ២២ ល.អ.ជ

កំណត់សម្គាល់

မြို့ပေါ်ရှိ အောက်ကမ်းခြေ၊ အောက်ကမ်းခြေ၊ အောက်ကမ်းခြေ၊ အောက်ကမ်းခြေ.....  
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សមាសភាពចូលរួម

សមាសភាពអញ្ជើញចូលរួមសូមភ្ជាប់ក្នុងបញ្ជីវត្តមានជាមួយ។

၍မကောင်းပေ။

[illegible]







## Annex 9: Minute of Meeting for Site Visit Reports



KINGDOM OF CAMBODIA  
NATION RELIGION KING

### Minutes of Meeting SITE VISIT REPORT April 22, 2022

Project Name : Solar Park Infrastructure Procurement of Plan,  
Design, Supply, and Installation.

ADB Loan No. : 3789 (COL)-CAM.

Site Visit package A: Solar Park substation at kampong Chhnang province.

Site Visit package C: 230kV Transmission Line from GS6 to Solar Park S/S.

#### Participants:


EDC:	Mr. Prum Channareth	TO
	Mr. Chan Vireak	TO
	Mr. Im Am (Site engineer)	PMO1
EPC:	Mr. Liu Qi	XD
PIC:	Mr. Mak Theakk	CEC

Approved by XD

XD Project Manager

Approved by PIC

PIC Project Manager

Approved by EDC 

EDC project Manager

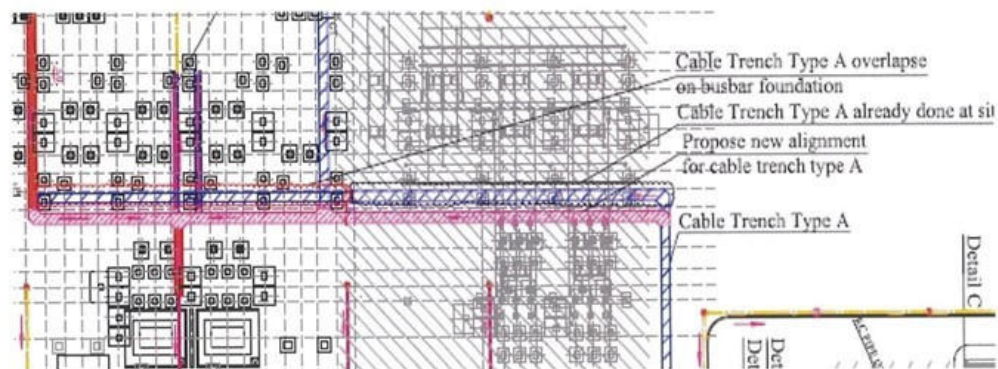


A site inspection visit was carried out by EDC, EPC and PIC on Friday 22<sup>nd</sup>, 2022 at Solar Park Substation and Transmission line, aimed to inspect the implementation of the contractor's works.

#### A- SUBSTATION Works:

##### 1. Cable Trench

- Cable trench type A is overlapped on busbar foundation.
- Cable trench type A around 48 m had been done already and PIC suggested to demolish it and build new alignment at distance 1.5 m from busbar foundation axis (F2 of Dwg no: EDC-XD-SS-SLP-172) to aside of cable trench type A.



##### 2. Outdoor Equipment Foundation

- Reinforcement bar of equipment foundation must be clean before casting concrete.
- Speed up to pour the foundation concrete to avoid reinforcement bar getting more rusted.
- Reinforcement bar must be kept at store at a better condition to void getting more rusted. **This problem has been informed since 31<sup>st</sup> March 2022 site visit report.**



**3. Building Progress Works**

Being noted that there is no progress for control building, pumphouse, warehouse, and guard house.

**Control building**



**Pump House**



**Warehouse**



**Guardhouse**



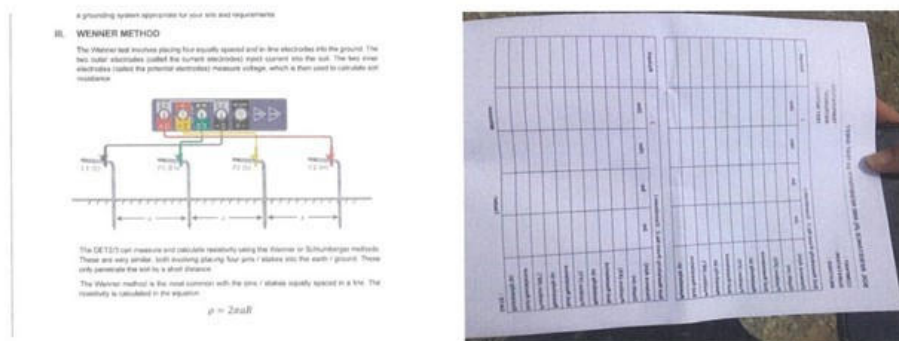
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#### 4. Soil Resistivity Measurement

- Before one day of measurement day, there was heavy rain, thus soil was wet. Thus, the soil resistance was very low and it can be fake the grounding grid of substation calculation.



- Based on Ref No. EDC-XD-SPI-209, contractor did not provide field measurement format in the submission and did not mention how depth of soil resistivity and test probe that could measure base on IEEE 81.



- To prevent error, inject current at C1-C2 and voltage distorting potential at P1 and P2 terminal, based on IEEE 81, contractor shall use Stakes or test probes provide by DET2/3 accessories kit. Contractor shall not use rusted rebar instead of test probes.

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- Based on Ref No. EDC-XD-SPI-209, contractor proposed Wenner method for the measurement. Thus, test probes distance "a" shall be equal for each distance base on IEEE 81.



- Based on site situation, contractor performed soil resistivity measurement in different location which mentioned in Ref No. EDC-XD-SPI-209. Thus, contractor shall provide those locations coordination in the General Layout.



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- Weather condition such air ambient temperature and humidity shall mentioned in the field measurement format.
- To get accuracy test result, contractor shall follow 7.4.2 of IEEE 81 for probes spacing. Probe Spacing (% grid length) shall perform at field to get low error range (%) of Grid Resistance, Touch and Step Voltage value.

## B- Transmission Line Works:

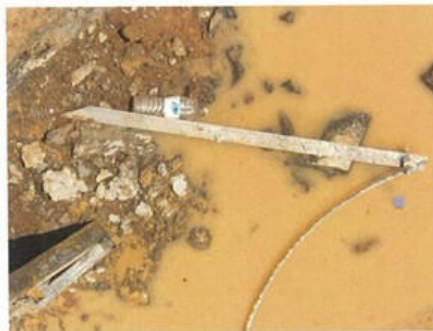
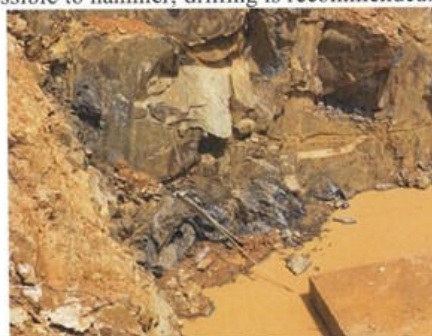
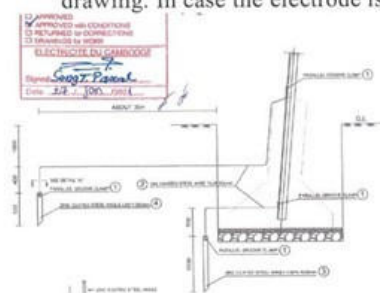
### 5. Tower Foundation Works

- Tower location 7/05: Contractor built with Pad and Chimney foundation (Class: III) of DA tower type.



### 6. Grounding System for Tower Transmission 115kV

- The grounding electrode (Zinc Coated Steel) shall below foundation pad as approval drawing. In case the electrode is impossible to hammer, drilling is recommended.



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th

**7. Conclusion:**

- The progress of construction work is still very slow. To meet the schedule, the contractor must be push the subcontractor by adding manpower and bring anchor bolt, steel plate to site on time for the civil work and speed up the construction of building work.
- The result of soil resistance measurement of substation was very good, because the substation soil was wet. The calculation notes using this result for the grounding of substation grid calculation can be wrong.
- The overlap between outdoor equipment foundations with cable trench, PIC used to inform contractor by checking all outdoor equipment foundation with cable trench and drainage system before starting work (Ref. NSP/PIC/EDC/208). PIC is strongly suggested the contractor to follow up the comments on above.
- The contractor's site manager is not yet presence at site as requested in the contract.



**KINGDOM OF CAMBODIA**  
**NATION RELIGION KING**



**ELECTRICITE DU CAMBODGE**

**Minutes of Meeting**  
**SITE VISIT REPORT**  
**May 26, 2022**

Project Name : Solar Park Infrastructure Procurement of Plan,  
Design, Supply, and Installation.  
ADB Loan No. : 3789 (COL)-CAM.  
Site Visit package A: Solar Park substation at kampong Chhnang province.  
Site Visit package C: 230kV Transmission Line from GS6 to Solar Park S/S.

Approved by XD

XD Project Manager

Approved by PIC

PIC Project Manager

Approved by EDC

EDC project Manager

A site inspection visit was carried out by PIC on Thursday 26<sup>th</sup>, 2022 at Solar Park Substation and Transmission line, aimed to inspect the implementation of the contractor's works.

**A- SUBSTATION Works:**

**1. Control Building**

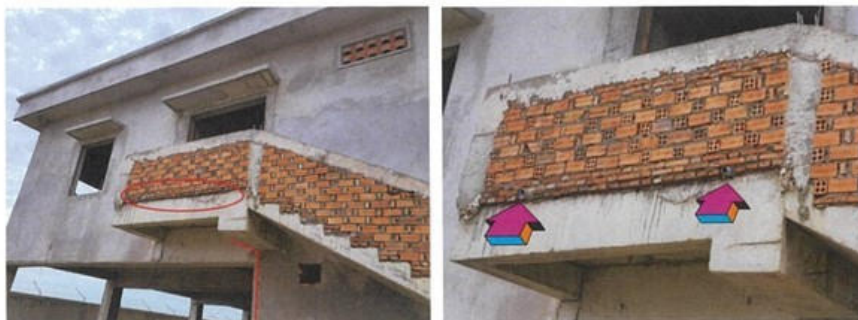
- The slop of gutter slab must be fixed the rain water could not be completely drained out after the rain stop.
- Gutter for building must be applied waterproof with bituminous membrane as the approved drawing before tile roofing work.



- Steel frame roof must be welded connecting to RC support.
- Steel frame connection for roof must be applied with anti-rust paint to prevent corrosion before tile roofing work.
- And roof tile material shall be submitted for approval before starting work.
- Re-direct the waster water pipes to the corner of the kitchen and hide them with brick wall.



- All modification on site which is different from the approved drawing, the site memoire shall be signed and attach it to the site progress report. Being noted that the hand rail is different from the approved drawing.
- Rain water down spout from the staircase shall be attached to the wall and connected to the drainage system manhole.



## 2. Outdoor Equipment Foundation

- Reinforcement bar of equipment foundation must be clean before casting concrete.
- Soil backfilling must be compacted by each layer not exceed 300 mm to avoid collapsing of other infrastructure constructions.



## 3. Main Transformer Foundation

- Discrepancy of reinforcement bar of main transformer foundation that is installing at site and approved drawing by EDC/PIC. (Steel rebar of approved drawing is **DB22**, but the actual implementation is **DB20**).
- Before pouring concrete for main transformer, contractor must invite EDC Site Engineer to inspect and check first.



## 4. Building Progress Works

Being noted that from January 20 to May 26, 2022 of site visit, the progress for control building, pumphouse, warehouse, and guard house is very slow.



**Control building**



**Pump House**



**Ware House**



**Guard House**



**B- Transmission Line Works:**

**5. Tower Foundation Works**

**5.1 Tower location 11/06:**

- Some bore pile qualities are not good (shape of pile section is not round), a random check for integrity or sonic test for the pile shall be done.
- Concrete for pile cap shall be poured asap to avoid reinforcement rebar getting more rusted.



**5.2 Tower location 11/07:**

- Tower foundation for 11/07 was already done.



### 5.3 Tower location IP12:

- Tower foundation for IP12 was already done.



### C-CONCLUSION:

#### ❖ Civil work for Substation

- The progress work seems to be very slow. To meet the schedule, the contractor must be push subcontractor to add more manpower.
- The contractor's site manager is not yet presence at the site as requested in the contract.
- Slope of RC gutter for all building shall be repaired. Rain water shall not be stored in the gutter.
- Gutter for all building must be applied waterproof with bituminous membrane before tile roofing work.
- Roof tile material for all building shall be submitted for approval before starting work.
- Before pouring concrete for all structures, contractor shall invite EDC site engineer to inspect first.
- Contractor's implementation must follow the drawing that approved by EDC/PIC. Other modifications on site shall be done with site memoire signature.

#### ❖ Civil work for Tower Foundation

- Random check for integrity or sonic test for the pile shall be done to confirm pile boring quality.
- Before concrete pouring work at site for tower foundation, contractor shall invite and inform EDC site engineer to check first.





ELECTRICITE DU CAMBODGE

KINGDOM OF CAMBODIA  
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**Minutes of Meeting**  
**SITE VISIT REPORT**  
**June 30, 2022**

**Project Name** : Solar Park Infrastructure Procurement of Plan,  
Design, Supply, and Installation.

**ADB Loan No.** : 3789 (COL)-CAM.

**Site Visit package A:** Solar Park substation at Kampong Chhnang province.

**Site Visit package B:** GS6 substation at Kratie province.

**Site Visit package C:** 230kV Transmission Line from GS6 to Solar Park S/S.


**Subject** : A site visit was carried out by PIC team, Contractor and EDC on Thursday 30, 2022 at Solar Park Substation, GS6 Substation and Transmission line from GS6 to Solar Park Substation and aimed to inspect the implementation of the contractor's works.

Approved by XD

XD Project Manager

Approved by PIC

for PIC Project Manager

Approved by EDC 

EDC project Manager

**A- SOLAR PARK SUBSTATION WORKS:**  
**The progress of Building and Foundation work at SLP Substation estimated is 55%**

**1. Building Progress Works**

**Control Building**

- There was a little growth with roof tile work for control building, pump house, warehouse, and guard house (see the photos as below).
- Roof tile and plastering for exterior wall.



- Steel frame roof must be welded connecting to RC support.
- Have mistaken with RC beam elevation for roof.



- All modification on site which is different from the approved drawing, the site memoire shall be signed and attach it to the site progress report. Being noted that the hand rail is different from the approved drawing.
- Rain water down spout from the staircase shall be attached to the wall and connected to the drainage system manhole.



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**Pump House: Started the Roof tile**



**Ware House: Started the Roof tile**



**Guard house: Started the Roof tile**



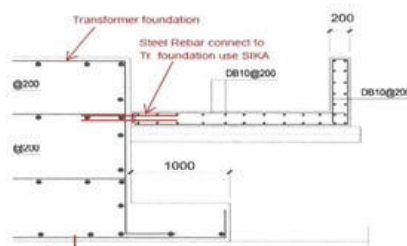
## 2. Outdoor Equipment Foundation

- Soil backfilling must be compacted by each layer not exceed 300 mm to avoid collapsing of other infrastructure constructions.



## 3. Main Transformer Foundation

- Method statement for the construction of transformer pit must be submitted for approval especially anchored rebar and concrete connection. Make sure there is neither cracks nor joint between transformer foundation and its pit in order to avoid fluid leakage into the ground.



## B. GS6 SUBSTATION WORK:

### Outdoor Equipment Foundation: The progress of GGS6 SS work is still 0%

- Contractor has just started site clearance for equipment foundation location.



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**C. TRANSMISSION LINE WORKS:**

**The progress of Transmission line works estimated is 50%**

**1. Tower Foundation Works: At the end of June, 2022, 24 towers erection were done.**

**1.1 Tower location 3/07:**

- Tower erection for location 3/07.
- Before starting work, all workers shall be instructed related with health and safety. CEMP must be instructed and educated for them during tower erection.



**1.2 Tower location 4/06:**

- Tower erection for 4/06 was already done.
- All trash must be cleared after completing the erection.



**1.3 Tower location 4/07:**

- Tower location is erecting/installing for 4/07.
- Contractor shall strictly comply with CEMP, health and safety.



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**D. HEALTH, SAFETY AND ENVIRONMENT:**

- Safety works with PPE at site



- Fire extinguisher at site



- Drinking water at site



**E. CONCLUSION:**

❖ **Civil work for Solar Park Substation**

- Soil backfilling for equipment foundation shall be compacted with each layer of 300 mm thickness avoiding sliding and collapse.
- Soil backfill at leakage oil pit base of transformer shall be compacted such as natural soil.
- Reinforcement bar for leakage oil of transformer shall be connected to Transformer concrete for avoiding crack and let oil absorb into the ground.
- Contractor shall be push subcontractor to add more manpower.

❖ **Civil work for GS6 Substation**

- Before starting work, contractor shall make sure of existing structure location such as outdoor cable trench, drainage system and grounding system.
- Contractor shall resubmit gantry and 115kV outdoor equipment foundation drawing for approval for avoiding some error during implementation at site.

❖ **Civil work for Tower Erection**

- Contractor shall instruct and educate all workers related with health and safety avoiding accidents while working.



**Annex 10: The letter from ADB on Non-compliance with Safeguards Requirements****FAX**

<b>To:</b>	H.E. Keo Rottanak Minister Attached to the Prime Minister Managing Director of EDC Royal Government of Cambodia	<b>Date:</b>	29 July 2021
		<b>Fax:</b>	+855 23 426 018
<b>Originator:</b>	Pradeep Tharakan Unit Head, Sovereign Energy Operations Greater Mekong Subregion Email: <a href="mailto:ptharakan@adb.org">ptharakan@adb.org</a>	<b>Approved by:</b>	Toru Kubo Director, SEEN

**Subject: Loan 3789, Loan 8357, Grant 0345-CAM: National Solar Park Project**  
*—Non-compliance with Safeguards Requirements*

Dear Excellency:

1. The Asian Development Bank (ADB) held a monthly progress meeting for the abovementioned project on 14 July 2021 to go over the construction status and review the conditions under which the Électricité du Cambodge (EDC) may commence civil works as stipulated in the loan and project agreements. A couple of days later, based on a progress report submitted by the private power producer (Prime Road), we learned that civil works are already ongoing within the substation area (site preparation, control building, perimeter fence, among others) and at several transmission tower locations (piling and footing).
2. We promptly met with EDC on 21 July 2021 to clarify this matter. EDC explained that right after receiving ADB's approval of the updated Land Acquisition and Resettlement Plan (LARP) (Section 1 and Section 2) on 15 June 2021, the project site engineer misunderstood the required procedures, and allowed the contractor to commence works on some of the tower foundations for Sections 1, 2, and 3 of the 230-kilovolt transmission line, where compensation payments had been made. This was done to accelerate the start of construction prior to the onset of the rainy season. EDC conveyed that there was miscommunication between the project site engineer and the project management unit/SEPRO and expressed their willingness to address the issue. They clarified that works in Sections 1 and 2 were initiated after the updated LARP was approved by ADB, but for Section 3, works were initiated prior to the LARP being updated and approved by ADB.
3. The loan agreement for this Project stipulates that civil works at the transmission line may not commence until EDC has provided compensation and other entitlements to all affected households as per the approved updated LARP; hence, this represents non-compliance with ADB's safeguards requirements. EDC is advised to stop ongoing civil works in all tower locations where compensation payments are not yet paid. In line with ADB requirements, civil works may only be resumed in the remaining part of Sections 1 and 2 after compensation and other entitlements are paid to the affected households; and in Section 3 after the LARP is updated and approved by ADB and compensation and other entitlements are paid.



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4. To rectify this non-compliance, EDC is requested to submit a (i) Due Diligence Report (DDR) and Corrective Action Plan (CAP) for Sections 1 and 2 before 15 August 2021, and an (ii) updated LARP for Section 3 and access road, together with DDR and CAP for this section by 31 August 2021. EDC is requested to follow the outlines of the DDR, CAP and LARP that were discussed and shared with EDC/SEPRO and PIC during the meeting on 26 July 2021 (attached).
5. Kindly note also that the environmental safeguards clearance is still outstanding, and the Construction Environmental Management Plan needs to be prepared, approved, and implemented. Sign boards should be erected at active works site, construction camp and affected villages indicating grievance redress mechanism contact details. Please also include these actions in the DDR and CAP. In addition, please ensure that the recommended bird deflectors for transmission lines are included as part of the mitigation measures set forth in the Initial Environmental Examination/ Environmental Management Plan.
6. In summary, EDC is requested to submit the following:
  - (i) Safeguards Monitoring Report for the period January to June 2021 (to be submitted by 30 July 2021);
  - (ii) DDR and CAP for Sections 1 and 2 (to be submitted by 15 August 2021); and
  - (iii) Updated LARP, DDR and CAP for Section 3 including access road (to be submitted by 31 August 2021).
7. Please accept, Your Excellency, the assurances of my highest consideration.

Sincerely,



Toru Kubo  
Director, Energy Division  
Southeast Asia Department

Attachment: a/s

cc: H.E. Pen Thirong, Under Secretary of State, Ministry of Economy and Finance (MEF)  
Dr. Chulasa Praing, Deputy Managing Director, Electricité du Cambodge (EDC)  
Mr. Yi Sokthearith, Deputy Director General, MEF  
Mr. Ngel Sokhan, Deputy Managing Director, Finance and Business, EDC  
Mr. Chhim Man, Executive Director of Corporate Planning and Projects Department, EDC  
Mr. Rann Seihakkiry, Deputy Director of CPPD, EDC  
Mr. Sor Phengky, Project Manager/Head of Project Management Office No. 1, EDC  
Country Director, Cambodia Resident Mission, ADB  
Project Team



**Annex 11: Approval 3 NOL latters for DDR&CAP-Sec.1&2 and ULARP-DDR for CAP Sct.3****FAX**

<b>To:</b>	H.E. Keo Rottanak Minister Attached to the Prime Minister Managing Director of EDC Royal Government of Cambodia	<b>Date:</b>	15 June 2021
		<b>Fax:</b>	+855 23 426 018
<b>Originator:</b>	Pradeep Tharakan Unit Head, Sovereign Energy Operations Greater Mekong Subregion Email: <a href="mailto:ptharakan@adb.org">ptharakan@adb.org</a>	<b>Approved by:</b>	Toru Kubo Director, SEEN

**Subject: Loan 3789, Loan 8357, Grant 0345-CAM: National Solar Park Project and  
 —Updated Land Acquisition and Resettlement Plan of the 230 kV Transmission Line  
 (Section 1 and Section 2)**

Dear Excellency:

1. This refers to your letter of 10 June 2021 requesting for the Asian Development Bank's (ADB's) review and no objection to the Updated Land Acquisition and Resettlement Plan (LARP) of the 230 kV Transmission Line for Section 1 and Section 2.
2. We have reviewed the updated LARP and found it in order and satisfactory. This will be disclosed in ADB's website in accordance with ADB's Access to Information Policy.
3. Please submit the updated LARP for Section 3 once the detailed engineering design, detailed measurement survey (DMS), inventory of losses, and replacement cost study are finalized, and public consultations are completed. Note that ADB will need to review and monitor the activities, including the compensation process for updating the LARP for Section 3.
4. Please accept, Your Excellency, the assurances of my highest consideration.

Sincerely,

Toru Kubo  
 Director, Energy Division  
 Southeast Asia Department

cc: Dr. Chulasa Praing, Deputy Managing Director, Planning and Technique, EDC +855 23 426 018  
 Mr. Nget Sokhan, Deputy Managing Director, Finance and Business, EDC  
 Mr. Chhim Man, Executive Director of Corporate Planning and Projects Department, EDC  
 Mr. Rann Seihakkiry, Deputy Director of CPPD, EDC  
 Mr. Sor Phengky, Project Manager/Head of Project Management Office No. 1, EDC  
 Country Director, Cambodia Resident Mission, ADB  
 Project Team



CAMBODIA RESIDENT MISSION

8 September 2021

H.E. Keo Rottanak  
Minister Attached to the Prime Minister  
Managing Director of Electricity du Cambodge  
Royal Government of Cambodia

Your Excellency:

**Subject: Loan 3789-CAM (COL)/Loan 8357-CAM (SCF)/Grant 0645-CAM (SCF): National Solar Park Project – Due Diligence Report and Corrective Action Plan for Section 1 and 2**

We refer to your letter dated 31 August 2021 requesting ADB's review and no objection to the Due Diligence Report and Corrective Action Plan for the Section 1 and 2 of the National Solar Park Project.

We find that ADB's comments have been addressed and we therefore have no objection to the Due Diligence Report and Corrective Action Plan for the Section 1 and 2. Please kindly note that ADB will disclose this document on its website.

Should your office need any clarification, please kindly contact Mr. Anthony Gill, Head of Project Administration Unit of the Cambodia Resident Mission and the new Project Team Leader for the National Solar Park Project, at email: [agill@adb.org](mailto:agill@adb.org).

Please accept, Your Excellency, the assurances of my highest consideration.

Sincerely,

Sunniya Durrani-Jamal  
Country Director

cc: H.E. Chhuon Samrith, Director General, GDICDM, MEF  
Mr. Nget Sokhan, Deputy Managing Director, EDC  
Dr. Praing Chulasa, Deputy Managing Director & Project Director, EDC  
Mr. Yi Sokthearith, Deputy Director General, MEF  
Mr. Houl Bonnaroth/Mr. Non Wattanak/Ms. Veng Youim, MEF  
Mr. Chhim Man/Mr. Rann Seihakkiry/Mr. Sor Pengkhy/Mr. Mao Visal/Mr. Nong Sovanneth, EDC  
A. R. Gill, S. Aman-Wooster, S. Kim, M. Ouk, T. Lun, CARM

**ASIAN DEVELOPMENT BANK**  
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CAMBODIA RESIDENT MISSION

9 September 2021

H.E. Keo Rottanak  
Minister Attached to the Prime Minister  
Managing Director of Electricity du Cambodge  
Royal Government of Cambodia

Your Excellency:

**Subject: Loan 3789-CAM (COL)/Loan 8357-CAM (SCF)/Grant 0645-CAM (SCF): National Solar Park Project – Updated Land Acquisition and Resettlement Plan and Due Diligence Report for Corrective Action Plan for Section 3**

We refer to your letter dated 6 September 2021 requesting ADB's review and no objection to the Updated Land Acquisition and Resettlement Plan and Due Diligence Report for the Corrective Action Plan for the Section 3 of the National Solar Park Project.

We find that ADB's comments have been addressed and we therefore have no objection to the Updated Land Acquisition and Resettlement Plan and Due Diligence Report for the Corrective Action Plan for the Section 3. Please kindly note that ADB will disclose this document on its website.

Should your office need any clarification, please kindly contact Mr. Anthony Gill, Head of Project Administration Unit of the Cambodia Resident Mission and the new Project Team Leader for the National Solar Park Project, at email: agill@adb.org.

Please accept, Your Excellency, the assurances of my highest consideration.

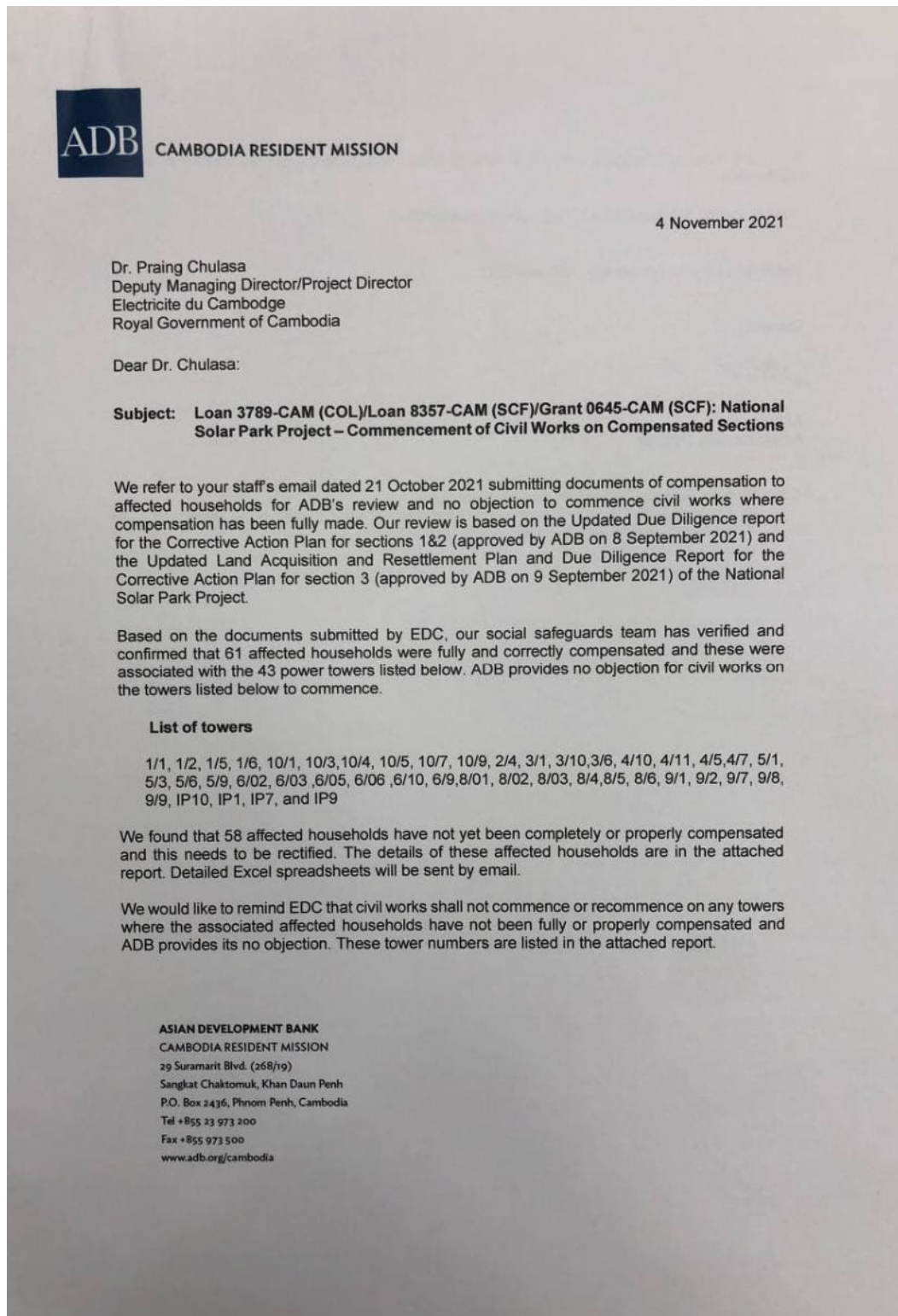
Sincerely,

Sunniya Durrani-Jamal  
Country Director

cc: H.E. Chhuon Samrith, Director General, GDICDM, MEF  
Mr. Nget Sokhan, Deputy Managing Director, EDC  
Dr. Praing Chulasa, Deputy Managing Director & Project Director, EDC  
Mr. Yi Sokthearith, Deputy Director General, MEF  
Mr. Houl Bonnaroth/Mr. Non Wattanak/Ms. Veng Youim, MEF  
Mr. Chhim Man/Mr. Rann Seihakkiry/Mr. Sor Pengkhy/Mr. Mao Visal/Mr. Nong Sovanneth, EDC  
A. R. Gill, S. Aman-Wooster, S. Kim, N. Sok, M. Ouk, T. Lun, CARM

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**Annex 12: 03 NOL letters of ADB on resuming the civil works based on compensation verification**



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We also note that the AHs around the remaining 12 power towers have not yet been compensated and civil works have not yet commenced on those sections. We would like to remind that civil works shall not commence on any towers where the associated affected households have not been fully or properly compensated and until ADB provides its no objection.

At the meantime, we look forward to receiving the submission of corrective action plan implementation report by 30 December 2021.

Your staff may communicate with me directly at email: [agill@adb.org](mailto:agill@adb.org) should they need any clarification.

Thank you for your cooperation and attention.

Sincerely,



Anthony Gill  
Acting Country Director

Cc: Mr. Nget Sokhan, Deputy Managing Director, EDC  
Mr. Chhim Man/Mr. Rann Seihakkiry/Mr. Sor Pengkhy/Mr. Mao Visal/Mr. Nong Sovanneth, EDC  
R. Nazrieva/S. Kim/N. Souk/S. Tem/M. Ouk/T. Lun, CARM





CAMBODIA RESIDENT MISSION

16 November 2021

Dr. Praing Chulasa  
Deputy Managing Director/Project Director  
Electricite du Cambodge  
Royal Government of Cambodia

Dear Dr. Chulasa:

**Subject: Loan 3789-CAM (COL)/Loan 8357-CAM (SCF)/Grant 0645-CAM (SCF): National Solar Park Project – Approval of Additional Civil Works Commencement on Compensated Sections**

We refer to our discussions with EDC on 15 November 2021 on recommencement of civil works. During that discussion, EDC sought ADB approval to commence civil works on all towers for which resettlement compensation had been completed even if income restoration payments had not been made. While ADB is keen to get this project back on track, we must all uphold the agreements in the Land Acquisition and Resettlement Plan. Paragraphs 105 and 115 of the Resettlement Plan requires that civil works cannot commence until full compensation of affected households has been made. As the income restoration is a part of that compensation package, we must ask these payments are also made prior to the commencement of civil works on those towers where that compensation payment is pending. We also confirm that all income restoration is to be in the form of a cash payment as outlined in paragraph 100 of the Resettlement Plan.

We received from EDC by email, on 15 November 2021, additional information on compensation payments. The report is attached for your information. Having reviewed the material, we are pleased to endorse the recommencement of civil works on towers IP2, 2/1, 3/7, 3/4, 7/1, 7/4, 7/5, 11/1, 11/4, 11/5, 11/6, 11/7, 11/8, IP12, 12/1, 12/2, 12/3, 3/2 and 3/8

Our current assessment is that for the related affected households, a:

- (i) total 62 towers have been properly compensated;
- (ii) total 40 towers were underpaid or were not paid for the vulnerable and income restoration allowance;
- (iii) total 12 towers have not yet been compensated; and
- (iv) total three power towers are located on land belonging to EDC and no compensation is required.

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We encourage EDC to complete payment of full compensation to the affected households for those 40 towers where compensation is not completed and start compensation to affected households for those 12 towers where no compensation has been made. We welcome EDC's swift action in this regard and look forward to seeing the corrective action plan implementation report soon.

Your staff may communicate with me directly at email: [agill@adb.org](mailto:agill@adb.org) should they need any clarification.

Thank you for your cooperation and attention.

Sincerely,



Anthony Gill  
Acting Country Director

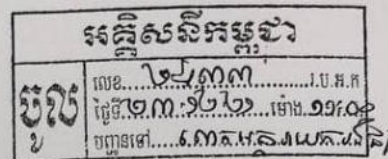
Cc: Mr. Nget Sokhan, Deputy Managing Director, EDC  
Mr. Chhim Man/Mr. Rann Seihakkiry/Mr. Sor Pengkhy/Mr. Mao Visal/Mr. Nong Sovanneth, EDC  
R. Nazrieva/S. Kim/N. Sok/M. Ouk/T. Lun, CARM



CAMBODIA RESIDENT MISSION

22 December 2021

Dr. Praing Chulasa  
Deputy Managing Director/Project Director  
Electricite du Cambodge  
Royal Government of Cambodia



Dear Dr. Chulasa:

**Subject: Loan 3789-CAM (COL)/Loan 8357-CAM (SCF)/Grant 0645-CAM (SCF): National Solar Park Project – Commencement of Civil Works on Compensated Sections (Third Verification)**

We refer to your staff's email dated 17 December 2021 submitting documents of compensation to affected households for ADB's review and no objection to commence civil works where compensation has been fully made. Our review is based on the Updated Due Diligence report for the Corrective Action Plan for sections 1&2 (approved by ADB on 8 September 2021) and the Updated Land Acquisition and Resettlement Plan and Due Diligence Report for the Corrective Action Plan for section 3 (approved by ADB on 9 September 2021) of the National Solar Park Project.

There were 45 affected households which almost all of them (43 AHs) were detected for the underpayment for the vulnerable allowance and no payment for the Income Restoration Program during the first and second compensation verification.

Based on the documents submitted by EDC for this third verification, our social safeguards team has verified that a total 38 power towers were properly paid and ADB has no objection to commence civil works on these compensated sections. List of these towers are provided below:

1/8, 1/9, 10/2, 10/6, 10/8, 3/11, 3/3, 3/5, 3/9, 4/1, 4/2, 4/3, 4/4, 4/6, 4/8, 4/9, 5/10, 5/2, 5/4, 5/5, 5/7, 5/8, 6/01, 6/04, 6/07, 6/11, 6/8, 9/3, IP11, IP3, IP4, IP5, IP6, 7/3, 7/6, 11/2, 11/3, IP13.

The third verification report is also attached for your reference.

We note that:

- 1) One AH has received both transport allowance of \$40 and allowance for disturbance of economic activities of \$300 (this AH has been impacted by PT);
- 2) One AH has received transport allowance of \$40 (this AH has not been impacted by PT); and
- 3) One AH has received living allowance for the transition period of \$200 (this AH has not been impacted by PT).

ASIAN DEVELOPMENT BANK  
CAMBODIA RESIDENT MISSION  
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Sangkat Chaktomuk, Khan Daun Penh  
P.O. Box 2436, Phnom Penh, Cambodia  
Tel +855 23 973 200  
Fax +855 973 500  
www.adb.org/cambodia

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Your staff may communicate with me directly at email: [agill@adb.org](mailto:agill@adb.org) should they need any clarification.

Please accept, the assurance of our highest consideration

Thank you for your cooperation and attention.

Sincerely,



Anthony Gill  
Acting Country Director

Cc: Mr. Nget Sokhan, Deputy Managing Director, EDC  
Mr. Chhim Man/Mr. Rann Seihakkiry/Mr. Sor Pengkhy/Mr. Mao Visal/Mr. Nong Sovanneth, EDC  
R. Nazrieva/S. Kim/N. Sok/S. Tem/M. Ouk/T. Lun, CARM

**Annex 13: Photos of Site Activities during this period**



UAV Survey the Site of Solar Park Substation



Site Survey of Solar Park



Site Survey of GS6 Substation & Review Mission Meeting



Standard Penetration Test of Transmission Line





Survey in progress



Site Survey for Transmission Line and Solar Park Substation

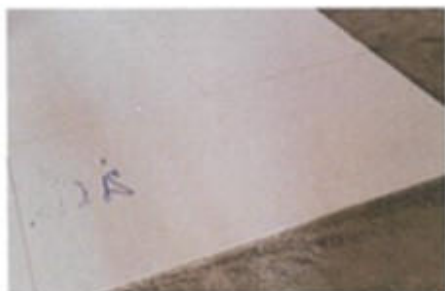
March 31, 2022

**1. Control Building**

- Outside control building finish floor level of 1<sup>st</sup> floor is suggested to be 3-5Cm below inside floor level.



- Finishing material shall be submitted for approval before build it on site.



- Water proofing for gutter of buildings shall follow approved drawing and submit materials specification for approval at first.



- Roof steel structure of all buildings are getting rusted that need to repair galvanized paint before laying roof tiles.