

Resettlement Due Diligence Report

May 2020

Cambodia: Grid Reinforcement Project

Subprojects

- i) New 230/115 kV Dangkor Substation (SPP1)
- ii) New 230/115/22 kV Samiki Meanchey Substation (SKCN1)
- iii) New 115/22 kV Kampong Tralach Substation (SKCN2)
- iv) New 230/115/22 kV Thnal Keng Substation (SKPC1)
- v) New 230/22 kV Skun Substation (SKPC2)
- vi) New 230/115/22 kV Samroang Yoang Substation (STKO1)

Prepared by the Electricité du Cambodge for the Asian Development Bank.

CURRENCY EQUIVALENTS

(as of 13 May 2020)

Currency unit	–	Riel (KR)
KR1.00	=	\$0.00024
\$1.00	=	KR4,111

ABBREVIATIONS

ADB	–	Asian Development Bank
BESS	–	battery energy storage system
EDC	–	Electricité du Cambodge
EPC	–	engineering, procurement and construction
GS6	–	Grid Substation 6
ha	–	hectare
kV	–	kilovolt
LV	–	low voltage
MV	–	medium voltage
MW	–	megawatt
PIC	–	project implementation consultant
SPS	–	Safeguard Policy Statement

NOTE

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

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A. Project Background

1. Cambodia underwent significant development in recent years reaching lower middle-income status in 2015. The country continues to demonstrate strong economic growth, mainly driven by urban based industries such as garment exports, tourism, and more recently construction and real estate. Per capita gross national income grew on average 7.3% per annum from \$950 in 2013 to \$1,230 in 2018.¹
2. Cambodia's population is about 15.3 million and continues to annually increase by 1.3%.² The country is at an early stage of urbanization with 23% of people living in cities. At an average annual urbanization growth rate of 3.3%, it is expected that 28% of the population will live in urban areas by 2030 and 40% by 2050.³ The bulk of urbanization is taking place in Phnom Penh which serves as a regional economic center, strategically located along the Greater Mekong Subregion Southern Economic Development Corridor and regional industrial developments.⁴
3. Phnom Penh, the capital, where presently 2 million people live, and government, business and industry are concentrated, currently accounts for 57% of electricity consumed. About 23% of total electricity consumption is used in the other urban areas including Preah Sihanouk, Siem Reap, Kampong Cham, Takeo, and Battambang. Households and businesses face frequent unpredictable power shortages and voltage fluctuations. It severely constraints quality of life and undermines the country's effort to diversify into a manufacturing destination.
4. The government aspires to attain middle-income status by 2030. In its Socio-Economic Policy Agenda, 2018–2023, the government recognizes the importance of developing the energy sector to increase competitiveness, ensure sustained economic growth and thereby continue to reduce poverty. Constructing transmission lines and substations to enhance adequate and reliable supply of power is one of the key energy policy objectives of the government and the Electricité du Cambodge (EDC). Cambodia's electricity consumption grew to 9,307 gigawatt-hours in 2018 and is forecast to rise to 28,542 gigawatt-hours by 2025, a greater than threefold increase relative to consumption in 2018. To meet growing demand for electricity with environmentally and socially sustainable supply, it is planned to increase solar power generation capacity from 10 megawatt (MW) to 615 MW and to develop 80 MW of generation capacity from wind by 2022.
5. The Asian Development Bank (ADB) is working with Cambodia's national electric utility, EDC, to develop a Grid Development Project. The Grid Reinforcement Project (the project) will support EDC, the state-owned power utility, in improving transmission network capacity and stability. The project will (i) expand and reinforce the electricity transmission infrastructure by constructing 115 kilovolt (kV) and 230 kV transmission lines and associated substations in Phnom Penh, Kampong Chhnang, Kampong Cham, and Takeo provinces; and (ii) introduce the first utility-scale battery energy storage system to enhance power reliability and grid stability accompanied by an increase in electricity generated from renewable energy sources. Project implementation consultants (PIC) will complement existing staff of EDC, thus ensuring a high degree of implementation efficiency of components financed under the project.

¹ ADB. 2015. *Basic Statistics 2015*. Manila; and ADB. 2019. *Basic Statistics 2019*. Manila.

² Royal Government of Cambodia. 2019. *General Population Census of the Kingdom of Cambodia*. Phnom Penh.

³ World Bank Data. <https://data.worldbank.org/indicator/SP.URB.GROW>. Accessed 12 July 2019.

⁴ Baker, Judy L.; Kikutake, Natsuko; Lin, Sarah Xinyuan; Johnson, Erik Caldwell; Yin, Soriya; Ou, Narya. 2017. *Urban development in Phnom Penh* (English). Washington, D.C.: World Bank Group.

6. The project is aligned with the following impact: adequate and reliable power supply from environmentally sustainable energy sources ensured. The project will have the following outcome: transmission network capacity and stability improved. The project will finance the following outputs:

- (i) **Output 1: 115 kilovolt and 230 kilovolt grid infrastructure expanded and reinforced.** The proposed project will support the expansion of 115 kV and 230 kV overhead and underground transmission lines and associated substations in Phnom Penh, Kampong Chhnang, and Kampong Cham provinces. It will add 13 circuit-kilometer (cct-km) of 230 kV transmission lines, 36.7 cct-km of 115 kV transmission lines, 1,475 megavolt-ampere to 230 kV/ 115 kV/ 22 kV substation transformer capacity and 350 megavolt-ampere to 115 kV/ 22 kV substation transformer capacity.

Table 1. 115 kilovolt and 230 kilovolt Grid Infrastructure Expanded and Reinforced

N°	Subproject Name	Subproject Scope
Transmission Lines and Substations in Phnom Penh		
TPP1	New 6.52 km 230 kV transmission line from existing GS5 to proposed Sen Sok substation	230 kV double circuit line; ~ 5 km overhead on monopoles and 1.5 km underground cable
TPP2	New 2.44 km 115 kV transmission line from proposed Sen Sok to proposed Russei Keo substations	115 kV double circuit line; ~ 1.5 km overhead on monopoles and 1.0 km underground cable
TPP3	New 4.4 km 115 kV transmission line from proposed Boeung Tompon substation to new Olympic substation	115 kV double circuit line; ~ 2.4 km overhead on monopoles and 2.0 km underground cable; plus 0.8 km underground cable for SPP3 connection
SPP1	New 230/115 kV Dangkor substation	2x240 MVA 230/115 kV transformers; outdoor switchyard; 2 x 230 kV circuits; 4 x 115 kV circuits
SPP2	New 230/115/22 kV Sen Sok substation	1x360 MVA 230/115 kV transformer; 1x75 MVA 115/22 kV transformer; GIS indoor switchgear; 2 x 230 kV circuits; 2 x 115 kV circuits
SPP3	New 115/22 kV RUPP substation	1x75 MVA 115/22 kV transformers; GIS indoor switchgear; 4 x 115 kV circuits
SPP4	New 115/22 kV Boeung Tompon substation	1x75 MVA 115/22 kV transformer; GIS indoor switchgear; 6 x 115 kV circuits
SPP5	New 115/22 kV Russei Keo substation	1x75 MVA 115/22 kV transformer; GIS indoor switchgear; 4 x 115 kV circuits
Transmission Lines and Substations in Kampong Chhang (KCN), Kampong Cham (KPC) and Takeo (TKO) provinces		
TKCN1	New 11.1 km 115 kV transmission line from proposed Samiki Meanchey to proposed Kampong Tralach substations	115 kV double circuit line; overhead on steel towers
SKCN1	New 230/115/22 kV Samiki Meanchey substation	1x160 MVA 230/115/22 kV transformer; outdoor switchyard; 4 x 230 kV circuits; 2 x 115 kV circuits

N°	Subproject Name	Subproject Scope
SKCN2	New 115/22 kV Kampong Tralach substation	1x50 MVA 115/22 kV transformer; outdoor switchyard; 2 x 115 kV circuits
SKPC1	New 230/115/22 kV Thnal Keng substation	1x160 MVA 230/22 kV transformer; outdoor switchyard; 4 x 230 kV circuits, 2 x 115 kV circuits
SKPC2	New 230/22 kV Skun substation	1x75 MVA 230/22 kV transformer; outdoor switchyard; 4 x 230 kV circuits
STKO1	New 230/115/22 kV Samroang Yoang substation	1x240 MVA 230/115/22 kV transformer; outdoor switchyard; 4 x 230 kV circuits; 2 x 115 kV circuits

- (ii) **Output 2: First utility-scale energy storage system provided.** The project will support EDC in installing the first utility-scale battery energy storage system (BESS) in Cambodia. The BESS will be capable of storing 16 megawatt-hour.⁵ This is a desirable size to support the applications of (a) smoothing output at 80% from a 60MW solar park,⁶ (b) providing at least 0.5 hour of curtailment reserve to address daily power shortcuts, (c) providing primary frequency control, (d) deferring upgrades in transformer capacity at GS6 substation, and (e) shifting lower cost electricity supply to high cost peak demand to achieve savings. Such stacking of multiple services is a standard feature of BESS installations and the project will enable EDC to test the requirements for and benefits of BESS in providing the combined set of services as a precursor to scaling-up its use in future. Validation tests will be conducted to understand the effectiveness of the storage system at stabilizing the grid. It will help building capacity for deploying and operating energy storage technology thus, creating the foundation for EDC to scale-up energy storage as part of power system development in the near future. The BESS will be constructed at the site of the national solar park substation which is financed by ADB, and for which the land has been acquired by EDC through negotiated land acquisition in accordance with respective requirements of ADB SPS 2009 and an independent external party was engaged to document negotiation and settlement processes.⁷

7. The project will support EDC in implementing the project components with a focus on procurement and contract management, construction supervision, testing and commissioning, implementation, updating and monitoring of social and environmental safeguards, implementation of gender and social equality dimensions, project performance monitoring and evaluation. The PIC will complement existing staff of EDC, thus ensuring a high degree of project implementation efficiency.

8. Land acquisition will be required for Output 1, where land is needed for the expansion and development of transmission lines and substations. Except for the new 11.1 km 115 kV transmission line from proposed Samiki Meanchey substation to proposed Kampong Tralach

⁵ The BESS will be financed with a \$6.7 million grant. Based on cost estimates using 2018 prices, a BESS size of 15MW/15MWh can be installed. Considering, however, that prices for BESS continue to decrease, the BESS was designed for an optimal size of 18MW/18MWh.

⁶ ADB. 2019. *Report and Recommendations of the President to the Board of Directors: Proposed Loan and Administration of Loan, Grant, and Technical Assistance Grant to the Kingdom of Cambodia for the National Solar Park Project*. Manila.

⁷ Based on the agreement between ADB and EDC the DDRs are prepared and submitted to ADB for its due diligence and records.

substation (TKC1), EDC intends to acquire the land required for the (i) New 230/115 kV Dangkor substation (SPP1); (ii) New 230/115/22 kV Samiki Meanchey substation (SKCN1); (iii) New 115/22 kV Kampong Tralach substation (SKCN2); (iv) New 230/115/22 kV Thnal Keng substation (SKPC1); (v) New 230/22 kV Skun substation (SKPC2); and (vi) New 115/22 kV Samroang Yoang substation (STKO1) through negotiated settlement based on meaningful consultation with affected persons, consistent with Safeguard Requirements 2, paragraph 25 of the 2009 ADB Safeguard Policy Statement (SPS).⁸ EDC and ADB agreed that after completion of detailed engineering design, when the alignment and location of substations will be finalized, EDC will proceed with acquiring the land plots for substations. EDC will engage an independent external party to document the negotiation and settlement processes and submit to ADB the report prepared by the engaged third-party firm/consultant for due diligence and records. Once concurred, this report will serve a basis for ADB's "no-objection" to commencement of civil works for any respective substation. Should negotiated settlement with the owners of affected plots of land, EDC will not resort to expropriation measures but will look for an alternative location for the same. However, a land acquisition and resettlement framework has been prepared and disclosed on ADB website, in case negotiations fail with any of the landowners, finding suitable alternative plot will not be possible for technical reasons, and this results in expropriation as an acquisition option. This due diligence report is to provide overview of the proposed locations of the substations. A third party will be engaged by EDC to verify the negotiation and settlement processes and will prepare the report for ADB due diligence processes.

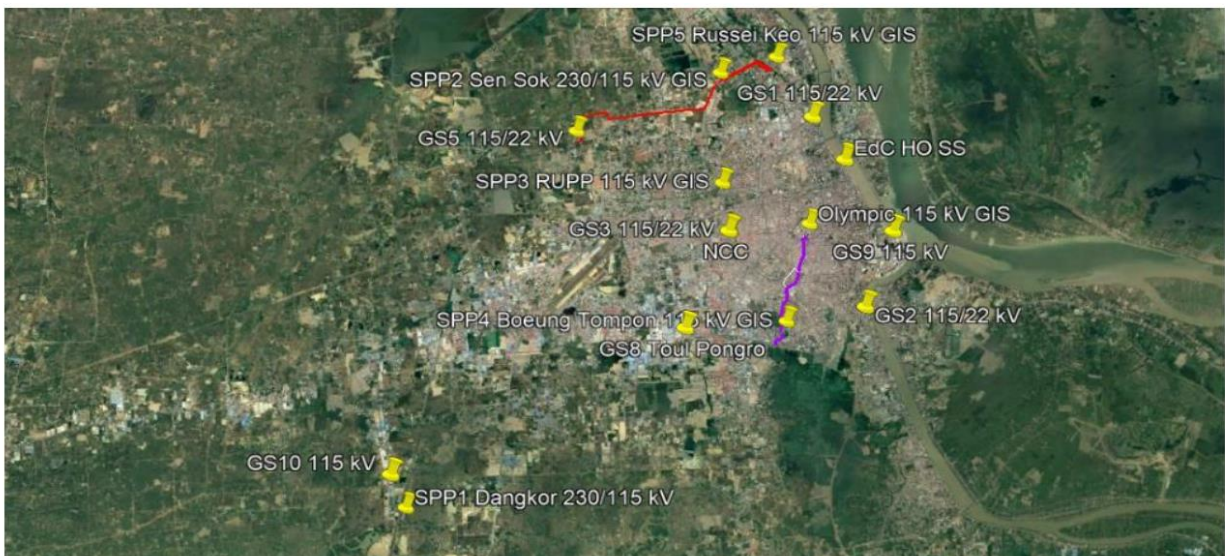


Figure 1. Transmission Lines and Substations in Phnom Penh

⁸ Safeguard Requirements 2 does not apply to negotiated settlements, unless expropriation would result upon the failure of negotiations. Negotiated settlements help avoid expropriation and eliminate the need to use governmental authority to remove people forcibly. The borrower/client is encouraged to acquire land and other assets through a negotiated settlement wherever possible, based on meaningful consultation with affected persons, including those without legal title to assets.



Figure 2. Transmission Lines and Substations in Kampong Chhnang and Kampong Cham provinces



Figure 3. Transmission Lines and Substations in Takeo Province

B. Description of the Substation Component

1. New 230/115 kV Dangkor Substation (SPP1)

9. **Location.** The substation will be located in Khan Po Senchey, Phnom Penh city. The planned substation's location is rice field with rice and palm trees. The geographical boundary of the substation is as follows:

- i) bordered to the North by Phnom Penh Special Economic Zoon;
- ii) bordered to the South by Preaek Tnaot River;
- iii) bordered to the West by road connect to national road number 4; and
- iv) bordered to the East by border Khan Dangkor.



Figure 4. Location of the proposed SPP1 115 kV Substation



Figure 5. Proposed SPP1 Site

10. **Objectives.** The objectives of the subproject are to (i) ensure better power supply at 115 kV to the adjacent industrial zone area; (ii) provide a more reliable 115 kV supply to neighbouring GS10 115 kV substation; (iii) improve the reliability and safe operation of the medium voltage (MV)/ low voltage (LV) system and reduce losses.

11. **Scope of work.** The scope of the subproject includes installation of new greenfield 2 x 240 MVA 230/115 kV Dankor substation; including outdoor switchyard with initially 2 x 230 kV and 4 x 115 kV circuits. There is no requirement for 22 kV.

12. The subproject requires the adjacent 230 kV double circuit line to be cut and terminated onto two terminal towers, for connecting to the 230 kV switchyard. This component is included in subproject TKCN1.

13. This subproject also includes two new 230 kV line bays at GS5 needed for Subproject TPP1.

14. **Description.** The proposed substation location is on private land in south-west Phnom Penh area. The concept design provides for approximately 160m x 200m (3.2 ha), situated adjacent to a railway line and approximately 50m from the road on flat land currently used for crops. The exact location and use of the site are pending land acquisition by EDC. It is estimated that implementation of this engineering, procurement and construction (EPC) subproject, excluding detailed design, will take approximately 36 months from start of construction.

2. New 230/115/22 kV Samiki Meanchey substation (SKCN1)

15. **Location.** The substation is proposed to be located in the shrub land of Srae Sar village, Tbaeng Khpos commune, Samiki Meanchay District, Kampong Chhnang province. This substation will be constructed on shrub land belonging to individual households near other cashew plantations. The geographical boundary of the substation is as follows:

- i) bordered to the North by Kdouch mountain;
- ii) bordered to the South by Shrubland of Srae Sar village of Tbeng Kpos commune;
- iii) bordered to the West by main grid and railway; and
- iv) bordered to the East by Khnach village of Sethei commune.

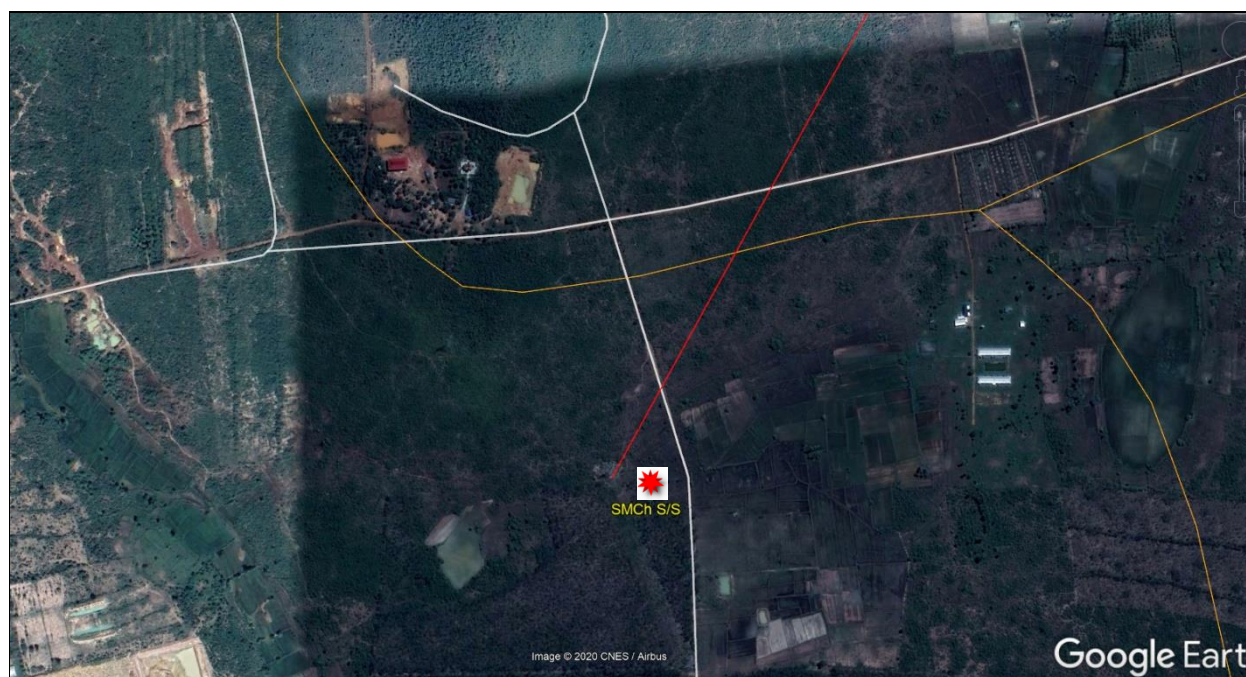


Figure 6. Samiki Meanchay SS Location



Figure 7. Proposed Saiki Meanchey 115 kV Site

16. **Objectives.** The objectives of the subproject are to (i) ensure the increasing power supply for Kampong Chhang province; (ii) provision of secure HV n-1 supply to the new Kampong Tralach substation; (iii) improve the reliability and safe operation of the MV/LV system and reduce losses.

17. **Scope of work.** The scope of the subproject includes installation of a new greenfield 230/115/22 kV Samiki Meanchey substation, located adjacent or under the existing 230 kV double circuit transmission line connecting Grid Substation 6 (GS6) to Kampong Cheang substations. It will provide 115 kV supply to Subprojects TKCN1 transmission line and SKCN2 substation. The scope includes (i) one 100 MVA 230/115/22 kV transformer; and (ii) 22 kV indoor panel to supply the adjacent 22 kV distribution network.

18. The subproject requires the adjacent 230 kV double circuit line to be cut and terminated onto two terminal towers, for connecting to the 230 kV switchyard. This component is included in subproject TKCN1.

19. **Description.** The location of Samiki Meanchey substation is shown in Figures 6 and 7. The proposed substation location is on private land in Kampong Chhang Province, north-east of Phnom Penh. The site is 200m x 160m (3.2 ha), situated approximately 50m from the road on flat land currently used for crops. The exact location and use of the site are pending land acquisition by EDC. It is estimated that implementation of this EPC subproject, excluding detailed design, will take approximately 36 months from start of construction.

3. New 115/22 kV Kampong Tralach Substation (SKCN2)

20. **Location.** The substation will be located in the rice field of the Soben village, Peani commune, Kampong Tralach District, Kampong Chhang province. The geographical boundary of the substation is as follows:

- i) bordered to the North by Paddy land;
- ii) bordered to the South by Paddy land;
- iii) bordered to the West by Paddy land; and

- iv) bordered to the East by Residential land of Soben village of Peani commune.

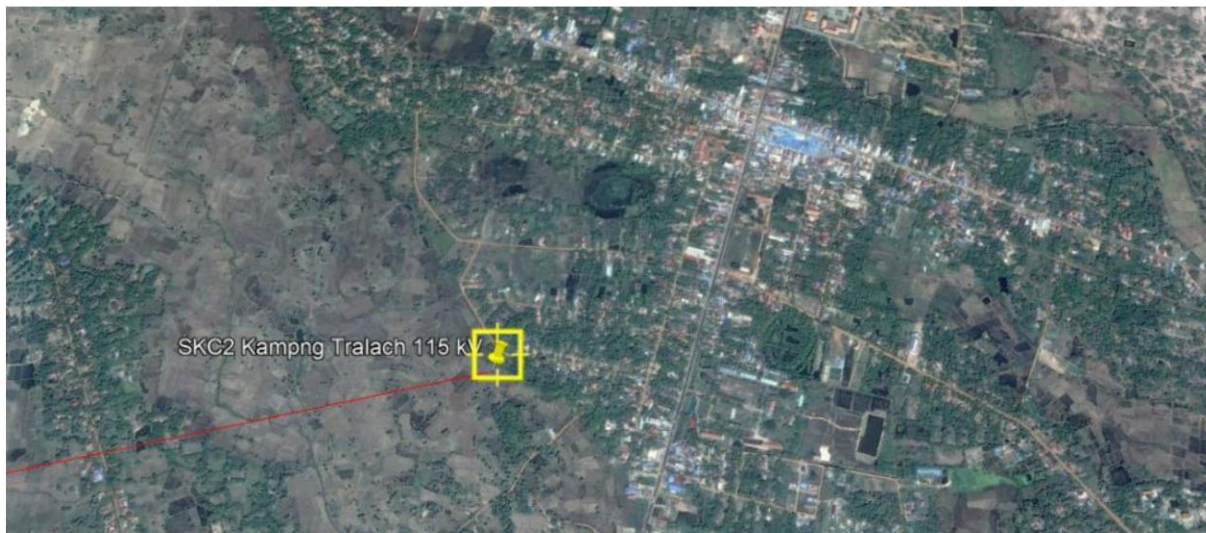


Figure 8. Kampong Tralach SS Location



Figure 9. Proposed Kampong Tralach Substation 115 kV Site

21. **Objectives.** The objectives of the subproject are to (i) ensure the increasing power supply for Kampong Chhang province; and (ii) improve the reliability and safe operation of the MV/LV system and reduce losses.
22. **Scope of work.** The scope of the subproject includes installation of a new greenfield 1x75 MVA 115/22 kV Kampong Tralach substation to be supplied by subproject TKCN1 double circuit 115 kV transmission line. The scope includes a 22 kV indoor panel to supply the adjacent 22 kV distribution network.
23. **Description.** As shown in Figure 9, the proposed substation location is on private land in Kampong Chhang Province. The site is approximately 100m x 150m (1.5 ha), situated

approximately 50 m from the road on flat land currently used for rice growing. The exact location and use of the site are pending land acquisition by EDC. It is estimated that implementation of this EPC subproject, excluding detailed design, will take approximately 36 months from start of construction.

4. New 230/115/22 kV Thnal Keng substation (SKPC1)

24. **Location.** The substation will be located in rice field Chong village, Sambour commune, Batheay district, Kampong Cham province. This substation will be constructed nearby the grassland to the South of the national road behind Sambour commune and is about 2.5 km to the West of Thnal Keng road. The geographical boundary of the substation is as follows:

- i) bordered to the North by National Road;
- ii) bordered to the South by Paddy Land;
- iii) bordered to the West by Paddy Land; and
- iv) bordered to the East by Paddy Land.

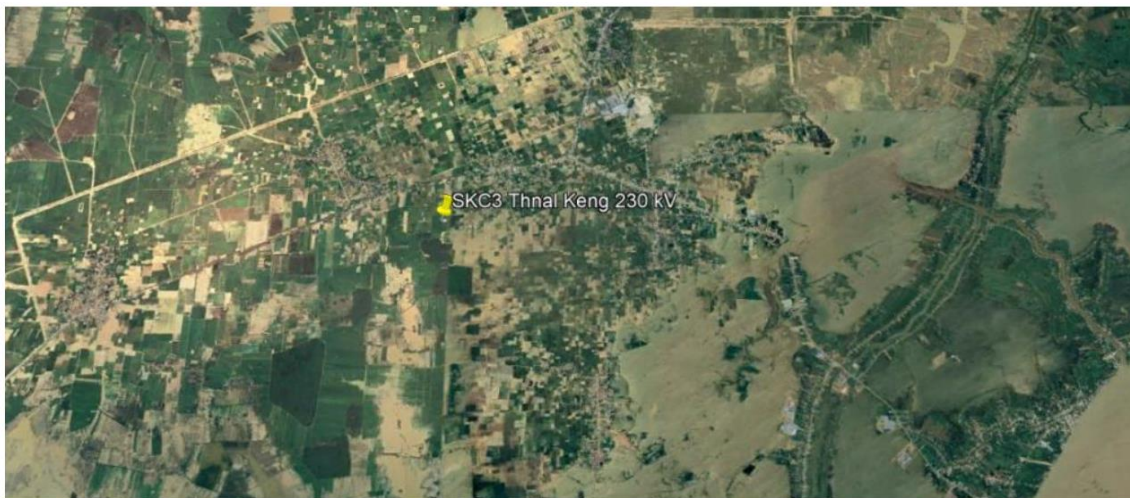


Figure 10. Thnal Keng SS Location



Figure 11. Proposed Thnal Keng 230 kV Site

25. **Objective.** The objectives of the subproject are to (i) ensure the power supply for Kampong Cham province; (ii) reduce load on existing GS6 substation; (iii) improve the reliability and safe operation of the MV/LV system and reduce losses.

26. **Scope of work.** The scope of the subproject includes installation of a new greenfield 1x160 MVA 230/22 kV Thnal Keng substation, adjacent to the existing double circuit 230 kV transmission line between GS6 and Kampong Cham.

27. The subproject requires the adjacent 230 kV double circuit line to be cut and terminated onto two terminal towers, for connecting to the 230 kV switchyard. This component is included in subproject TKCN1.

28. **Description.** The proposed substation location, as shown in Figures 10 and 11, is on private land in Kampong Chhang Province. The site is approximately 200m x 160m (3.2 ha), situated approximately 50m from the road on flat land currently used for rice growing. The exact location and use of the site are pending land acquisition by EDC. It is estimated that implementation of this EPC subproject, excluding detailed design, will take approximately 36 months from start of construction.

5. New 230/22 kV Skun substation (SKPC2)

29. **Location.** The substation will be located in rice field in Thmei village, Soutip commune, Chheuong Prey District, Kampong Cham province. It will be developed on the land planted to rice and some palm trees next to the irrigation canal near the Skun Market. The geographical boundary of the substation is as follows:

- i) bordered to the North by Skun Market;
- ii) bordered to the South by road to Ngong Village;
- iii) bordered to the West by main road to Daun Dom health center; and

- iv) bordered to the East by irrigation canal.



Figure 12. Skun SS Location



Figure 13. Proposed Skun 115 kV Site

30. **Objective.** The objectives of the subproject are to (i) ensure the power supply for Kampong Cham province; (ii) reduce load on existing GS6 and Kampong Cham substations; (iii) improve the reliability and safe operation of the MV/LV system and reduce losses.

31. **Scope of work.** The scope of the subproject includes installation of new greenfield 1x75 MVA 230/22 kV Skun substation, adjacent to the existing double circuit 230 kV transmission line between GS6 and Kampong Cham.

32. The subproject requires the adjacent 230 kV double circuit line to be cut and terminated onto two terminal towers, for connecting to the 230 kV switchyard. This component is included in subproject TKCN1.

33. **Description.** The proposed substation location, as shown in Figure 13, is on private land in Kampong Chhang Province. The site is approximately 200m x 160m (3.2 ha), situated approximately 50m from the road on flat land currently used for rice growing. The exact location and use of the site are pending land acquisition by EDC. It is estimated that implementation of this EPC subproject, excluding detailed design, will take approximately 36 months from start of construction.

6. New 230/115/22 kV Samroang Yoang substation (STKO1)

34. **Location.** The substation will be located in rice field in Acheang village of Trapang Sap commune of Tonle Bati district and Takeo Province. The geographical boundary of the substation is as follows:

- i) Bordered to the North by paddy field;
- ii) Bordered to the South by national road number 126;
- iii) Bordered to the West by railway; and
- iv) Bordered to the East by internal road of the village.

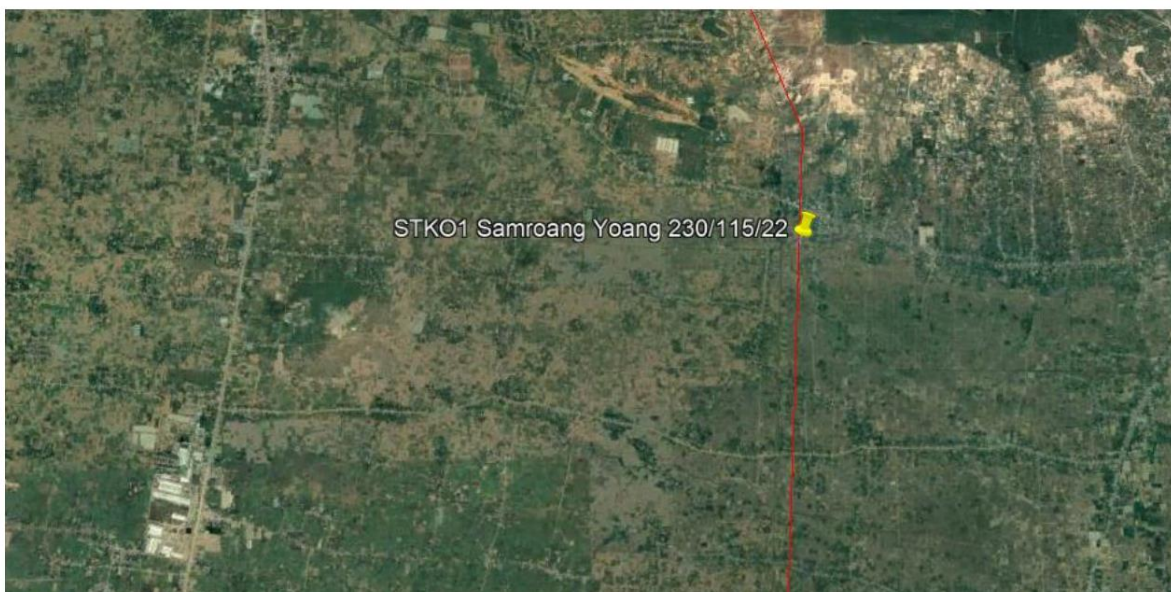


Figure 14. Samroang Yoang SS Location



Figure 15. Proposed Samroang Yoang 115 kV Site

35. **Objective.** The objectives of the subproject are to (i) ensure the increasing power supply for Takeo province; (ii) reduce load on adjacent GS4 grid substation; and (iii) improve the reliability and safe operation of the MV/LV system and reduce losses.

36. **Scope of work.** The scope of the subproject includes installation of a new greenfield 230/115/22 kV Samroang Yoang substation, located adjacent or under the existing 230 kV double circuit transmission line connecting GS4 to Takeo substations. It will provide a new 115 kV supply to the province. The scope includes (i) one 240 MVA 230/115/22 kV multi-winding transformer; and (ii) 22 kV indoor panel to supply the adjacent 22 kV distribution network.

37. The subproject requires the adjacent 230 kV double circuit line to be cut and terminated onto two terminal towers, for connecting to the 230 kV switchyard. This component is included in subproject TKCN1.

38. **Description.** The location of Samroang Yoang substation is shown in Figure 15. The proposed substation location is on private land in Kampong Chhang Province, north-east of Phnom Penh. The site is 200m x 160m (3.2 ha), situated approximately 100 m from the road on flat land currently used for crops. The exact location and use of the site are pending land acquisition by EDC. It is estimated that implementation of this EPC subproject, excluding detailed design, will take approximately 36 months from start of construction.

7. Battery Energy Storage System

39. **Location.** The BESS will be located at the 250-ha site of the ADB National Solar Park (GS5) in Tuek Phos district of Kampong Chhnang province, located northwest of Phnom Penh. The BESS will be contained within a building at the ADB solar park. The BESS will be located at the ADB solar park site which will be constructed in 2020. The ADB solar photovoltaic plant will be connected to the 230/115/22 kV grid substation (GS6).⁹ The connection is locally at 22 kV and will be transformer to 115 kV for connection and transmission to the GS6 substation. The BESS allows energy to be stored at a given time for later use. The BESS shall absorb the short-term power variations in the solar power plant output power by fast charging or discharging the lithium-ion batteries to generate smoother generation curve that can be absorbed in the grid.

⁹ GS6 is an interconnection point between two transmission voltages (115 kV and 230 kV) and is located between two solar parks (60 MWp ADB and 80 MWp KPS). The KPS solar park is already under operation.

40. **Objective.** According to EDC the most needed services required from the BESS are:

- i) output smoothing of the PV production;
- ii) curtailment reserve in case of power shortcuts;
- iii) primary frequency response; and
- iv) congestion relief and thus, transformer upgrade deferral at the G6 substation

41. **Description.** For the land area required for BESS, as the BESS is located at the ADB Solar Park for which negotiated settlement will be applied by EDC to acquire the land area of the Solar Park. The social safeguard requirements for this area has been addressed under the National Solar Park Project for which a Land Acquisition and Resettlement Framework has been prepared in case the negotiated settlement fails. The LARF has been disclosed on ADB website¹⁰.

C. Civil Works to be Undertaken

42. Civil works include (i) the construction of grounding, control house, fence, drainage system, access road, gate and guardhouse; and (ii) monopoles for connection lines.

D. Measures to Minimize Resettlement Impacts

43. Efforts were made to minimize impact by adopting suitable engineering design while selecting the land area for the substation. The following steps have been taken for minimizing the resettlement impact.

- (i) The EDC surveyed the area and residential areas were avoided when selected the land for the substations;
- (ii) when choosing a location to place a substation, the engineering team always studies 2-3 locations for station placement. The location chosen is usually based on (a) meeting the technical requirements; (b) minimizing the land acquisition impacts of the substations; and (c) convenience to connect to the grid;
- (iii) construction will commence after the harvesting; and
- (iv) affected communities and persons will be notified about construction schedule at least 30 days in advance of commencement of works.

E. Scope of Land Acquisition

44. In January 2020, a team of local enumerators, guided by ADB resettlement specialist consultants and accompanied by EDC survey staff and local government representatives, carried out a survey (i.e., inventory of losses) of fixed assets and businesses that stand to be adversely affected by the construction of substations.

45. For the six substations, it is estimated that an aggregate of 166,000 m² will be acquired permanently for the construction of the substations and access road, in which, 162,000m² of land for substation area and 4,000m² for the access roads of these substations. It is envisaged that about 180,000m² will be temporarily affected during the construction duration for material transportations and storage areas.

Table 2. Impacts on Land

Substation				Affected land by land type (m ²)	Total
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¹⁰

<https://www.adb.org/projects/51182-001/main#project-documents>

	Access Road (m ²)	Substation area (m ²)	Annual cropland	Perennial cropland	Shrub land	Residential land	
SPP1	1000	32,000	33,000	0	0	0	33,000
SKCN1	500	32,000	0	0	32,500	0	32,500
SKCN2	500	15,000	15,500	0	0	0	15,500
SKPC1	1000	31,000	32,000	0	0	0	32,000
SKPC2	0	31,000	31,000	0	0	0	31,000
STKO1	1000	21,000	22,000	0	0	0	22,000
Total	4,000	162,000	166,000	0	32,500	0	166,000

46. **Land use status.** The total area of 166,000m² of land are annual cropland and shrub land, covering 80 land plots belonging to 58 households. In which, 4,000 m² of seven households are to be affected for the construction of the access roads. Among these substations, the SKCN1 substation is located on shrub land area while all the remaining substation locations are on rice fields. There are some palm trees planted in the area proposed for SPP1 substation.

Table 3. Affected household and land plots affected by the substations

SS	Name	Commune/Khan	# AHs	# Land Plot	Land use status
SPP1	New 230/115 kV Dankor (Kambol) substation	Prateah Lang	20	27	Rice and palms
SKCN1	New 230/115/22 kV Samiki Meanchey substation	Tbeng Kpos	1	1	Bushes
SKCN2	New 115/22 kV Kampong Tralach substation	Peani	18	21	Rice
SKPC1	New 230/115/22 kV Thnal Keng substation	Sambour	3	3	Rice
SKPC2	New 230/22 kV Skun substation	Soutip	6	6	Rice
STKO1	New 230/115/22 kV Samroang Yoang substation	Trapang Sap	10	22	Rice
	Total		58	80	

Impacts on structures

47. No houses or auxiliary structures belonging to individual households will be affected by the subprojects.

48. During the construction duration, the commune infrastructure will be affected, in which the irrigation canal next to the Skun location may be damaged by the heavy vehicles. Original condition of the access road and the irrigation canal will be recorded by contractor prior to construction after detailed design is completed. All the damages caused by construction activities will be repaired, restored or compensated by the contractor. The PIC will monitor and report on the respective cases of reinstatement of infrastructure and/or compensation of damage, and report through semi-annual safeguard monitoring report with evidences/photos annexed to the report.

Impacts on tree, crop and livelihood

49. Six subprojects will affect 133,500 m² of rice and 25 palm trees. (Table 4) According to the survey results, none of the 57 households are vulnerable households. Income from agriculture

is among the sources of incomes of these households in addition to incomes from salary, livestock raising, and fishing.

50. According to the results of public consultations and focused group discussions with the affected people and the interviews with commune staff, it is reported that most of the affected households have one or more members of their families as workers at garment, shoe or agricultural factories. Two affected households in SKC 4 area have main income from fishing.

Table 4. Impacts on Trees and Crops

Substation	Affected		
	Household	Crops (m ²)	Palm tree
SPP1	20	33,000	25
SKCN1	0	0	0
SKCN2	18	15,500	0
SKPC1	3	32,000	0
SKPC2	6	31,000	0
STKO1	10	22,000	0
Total	57	133,500	25

F. Information Disclosure and Public Consultation

51. On 18 and 19 November 2019, EDC conducted preliminary consultations with government stakeholders at MMF and MEM to introduce the proposed substation project and to solicit their views and suggestions. In that consultation, representatives from MMF and MEM suggested that the project should be in line with Energy Development Master Plan of Cambodia.

52. In January 2020, EDC carried out at the all Khans and communes in Phnom Penh, Kampong Chhnang and Kampong Cham a second consultation with representatives of 76 people, including administrators of various communes where the transmission lines and substations are located, to discuss the project and to present the transmission line alignment and the substation locations, ensuring the least adverse social impacts as possible. ***(List of participants is attached to the Appendix 2; and Picture of public consultation is attached to the Appendix 3 of this report).***

Table 5. Dates of Public Meetings and Consultations

SS &	Name	Date of consultation	Commune/Khan	Number of Participants		
				Total	Male	Female
SPP1	New 230/115 kV Dankor (Kambol) substation	04 Feb 2020	Sangkat Prateah Lang	38	26	12
SKCN1	New 230/115/22 kV Samiki Meanchey substation	20 Jan 2020	Tbeng Kpos	22	8	14
SKCN2	New 115/22 kV Kampong Tralach substation	21 Jan 2020	Peany	57	33	24
SKPC1	New 230/115/22 kV Thnal Keng substation	17 Jan 2020	Sambour	29	26	3
SKPC2	New 230/22 kV Skun substation	17 Jan 2020	Soutip	25	24	1
STK01	New 230/115/22 kV Samroang Yoang substation	23 Feb 2020	Trapang Sap	69	31	38
Total				240	148	92

Table 6. Highlights of the Public Consultation

Area	Location	Comments of local authorities and mass organizations and affected person	Feedback from the Representative of the Project Owner and The Consultant Unit
SKPC1	New 230/115/22 kV Thnal Keng substation	<p>Happy and welcome project. Posted question on previous project grid affected their land and tree and some not compensate.</p> <p>Q: Can we get electricity directly from proposed transmission line?</p> <p>Under string of transmission line, can we raise fishpond, do rice field? Built warehouse? How far from string will be affected people</p> <p>Q: Is there any natural forest, protected area or natural lake in this commune?</p> <p>A: There is no natural forest, protected area or natural lake in this commune</p> <p>There are about 70% using smart phone/Facebook</p>	<p>This project is only Substation under ADB which require only 2ha of Paddy land. It will be applied willing buy will sell at market price. We cannot get it directly and it is dangerous due to high voltage. It needs a sub-station to low down the voltage that is why EDC is proposing to construct substation in this commune</p> <p>Yes-owner of land can raise and rice cultivation, building or any structure was not allowed to construct. The buffer from string is require only 4.5m and technically, it was constructed very high and far will not affected</p>
SKPC2	New 230/22 kV Skun substation	<p>This project is very important to community because current private enterprise sell high price and each family spent more on electricity. Q: When the proposed grid sub-station is operating, is electricity supplied stably? Q: When there is the sub-station constructed, the local electricity supplier will be changed? Replacing previous private enterprise?</p> <p>Q: During the construction, if the contractor damages the public road,</p>	<p>EDC is also enterprise but belong to government while private enterprise has license approval with period. So, when the government issue new price to reduce price when the license is expired, that private enterprise needs to follow. If they could not operation business with this new price, the EDC will operate directly to replace.</p> <p>It will be more stable for electricity supply once the proposed grid sub-station in operation</p>

Area	Location	Comments of local authorities and mass organizations and affected person	Feedback from the Representative of the Project Owner and The Consultant Unit
		<p>will contractor repair the road to normal condition? Previous construction company have damaged road and after finishing their work, they are gone they are remaining this problem to local authority. If any damage such public road by construction company, can we request that company to rehabilitate?</p> <p>Q: Will ADB approve the loan? I am happy with the proposed project as it will ensure stability of electricity. What are differences between hydropower and grid sub-station?</p> <p>Q: Is there any natural forest or protected area in this commune? Is there are natural lake in this commune?</p> <p>A: There is no natural forest or protected area in this commune. There are several natural lakes in the commune such as Chhroy lake, Khloy lake, Chhreung lake and Prek lake and they are 6-7km away from the proposed site.</p> <p>There are about 70% using smart phone/Facebook</p>	<p>If there is damage to the public infrastructure such as road, the contractor has to repair or rehabilitate to normal condition (before the construction). With principle of ADB Safeguard, this project will require that contractor to rehabilitate those damage. Not only road, such community irrigation canal near by area of substation, if the constructor have damage or restrict temporary operation, it is require to study how affected to rehabilitate and what kind of compensation.</p> <p>After our consulting team completing works, ADB board will make decision; whether loan should be approved or not. It is different between hydropower and grid sub-station. Hydropower is power source where electricity/power is generated from flowing water, and grid sub-station is a station to decrease or increase voltage and the proposed grid sub-station in this commune is to decrease voltage from high to low, then local people can use</p>
SKCN1	New 230/115/22 kV Sameakki Meanchey substation and transmission line	<p>Q: Local people complained their fruit trees were cut without compensation because of installing low voltage transmission line along the road.</p> <p>Q: Is there any major environmental issues in the commune</p> <p>There are no major environmental issues in the commune.</p> <p>There is no affected household due to some land was sold and transfer to outsider. The substation was proposed in the area does not belong villager there. There is no Islam household affected by project.</p> <p>Participants are happy to support the project to be loaned and implemented</p> <p>Representative from provincial, one window service concluded that project would direct benefit to local community and vision of province and royal government of Cambodia.</p>	ADB-funded project requires project owner compensating on types and scale of impacts based on market price.
SKCN2	Peani Commune	Q: Is there any natural forest or protected area in this commune?	Mostly, area of 15m*15m will be secured for foundation of the

Area	Location	Comments of local authorities and mass organizations and affected person	Feedback from the Representative of the Project Owner and The Consultant Unit
	New 115/22 kV Kampong Tralach substation	<p>There is no natural forest or protected area in this commune.</p> <p>Q: How far from the foundation of the transmission pole that is allowed for rice farming?</p> <p>Q: What can we do under transmission line?</p> <p>Commune Chief and patriarch support the project and request to have another consultation and inform community with affected household. The transmission line will affect some house, can project adjust line?</p>	<p>transmission pole and local people can grow vegetable or rice nearby. Rice farming or growing vegetable is allowed under transmission line and constructing building or growing big tree are not allowed under transmission line.</p> <p>With screening with village chief, there is some household affected and ADB safeguard principle will minimize those affected and potential will adjust line to space without house structure near or full compensate at market price.</p>
STK01	New 23011522kV Samroang Yoang SS	<p>The Public Consultation was conducted in Prech Village hall, mixed group, Health Center, Teacher, Commune Council, District, Village Chief, Villager from Achang Village, Prech Village and Trapang Sap Village,</p> <p>Conducting in Sunday, many participants join the public consultation since they did not work at garment factory in their commune. Welcome remark by Commune Chief, the new proposal of EDC will be benefit to local community and this area.</p> <p>Participant concerns, scaring about effected by electricity, are there any affected? Is there any wastewater discharge/flow from the sub-station? If so, is there any impact? If we grow rice near the sub-station, is there any impact?</p> <p>Which specific location of substation?</p> <p>Q: Is there any natural forest, protected area or natural lake in this commune?</p> <p>Is there flooded in the area? Acheang Village? Is it tower foundation flooded?</p> <p>Is there any spirit forest, or vulnerable land group in the area?</p> <p>A: There is no natural forest, protected area or natural lake in this commune. The proposed land in Acheang will affected paddy land which product the highest yield in the commune. It is very good quality of soil due to downstream water flow from Tamao</p>	<p>EDC, Consultant present location of propose to possible two options. One option in Prech village and another option in ACheang village.</p> <p>EDC response and elaborate more form consultant, the substation will look like house with fencing boundary. It will afterguard and security with signboard. There are no any effected. EDC have never had any experiences and problem with that. We have built many substations over Cambodia and it was applying international standard. The sub-station has to be dried, so there is no wastewater flow from the sub-station. People can grow rice on their land near the sub-station safely as long as people do not get inside the sub-station</p>

Area	Location	Comments of local authorities and mass organizations and affected person	Feedback from the Representative of the Project Owner and The Consultant Unit
		<p>mountain. However, during the rainy season, it was flooded few days. Many villagers have small land plot in this area which about 10 households may affected. Some people willing to sell but depend on price. There is no spirit forest in Acheang but some spirit tree in Prech Village.</p> <p>The proposed land in Prech will not be affected, villager sold to other businessman, they have big land.</p> <p>There are some affected people from the previous ADB transmission line project attending the public meeting.</p>	

G. Negotiated Settlement

53. EDC will endeavor to reach an agreement through negotiation with the owners of the land in substations location on the amount of compensation the landowners will get for the plots needed for the substation development. In the event that negotiated settlement with the affected households fails, EDC will apply the land acquisition method in line the Land Acquisition and Resettlement Framework prepared for the project.

54. The following procedures will be followed in negotiated settlement:

- i) EDC will employ a third party (agency or individual, but not associated with the Project or the government) to provide the independent verification of the agreements reflecting that: (a) consultation/s with landowner/s have been undertaken meaningfully, freely and in good faith and the landowners have made informed decisions on use of land, and (b) terms and conditions of the agreements have been explained to them and understood and agreed by the landowner/s.
- ii) The third-party will perform following tasks: (a) Review of the documentation on the identification of affected landowners and the consultation and negotiation process leading up to the signing of the agreements; (b) Validate that consultations with the landowners have been undertaken and that they were provided with relevant information as per the resettlement framework; (c) Validate that the agreement is voluntary (free of coercion) and that the landowner/s have fully understood and agreed to the agreement's terms and conditions; (d) Validate that the landowner representative/s signing the agreement duly represent the landowners; (e) Validate that landowner/s or any other users/occupants will not experience major adverse impacts from land use or purchase by the Project; (f) Validate that any minor impacts have been identified, sufficiently addressed and documented by the Project; (g) Validate that compensation for any land purchase represents a fair and reasonable replacement cost based on market prices and verify whether or not the land owners were fully informed of the comparative market rates for the land and potential loss of incomes generated from the crop land and trees, and that the negotiated amount will cover the land, loss of crops/trees and potential loss of incomes; and (h) Validate that the agreement is

- in compliance with safeguard requirements stipulated in the Land Acquisition Resettlement framework.
- iii) The External Validation report will not be publicly disclosed because transaction will be based on the commercial contract, and not under involuntary acquisition under the Expropriation Law. The external party validation report will be kept in files of EDC and copy sent to ADB for internal concurrence. **A Sample Negotiated Settlement Agreement and Summary of Units to be Purchased Agreed Price are attached in Appendix 1.**
 - iv) In case if negotiations fail, expropriation will be followed, and Land Acquisition Resettlement Plan will be prepared based on the Land Acquisition Resettlement Framework prepared for the Project, and according the ADB SPS (2009).

H. Due Diligence of the Associated Facilities to the Subprojects

1. Rationale for due diligence of the associated facilities

55. The following subprojects, namely (i) 115kV GS4 – Toul Prongo TL and 115 kV GS4 – GS10 TL; and (ii) 230 kV BOT from GS 6 to GS Kampong Cham; are considered associated facilities of SPP1, SKC3, and SSCK4, respectively. The reasons are that (i) the proposed 230 kV Dangkor substation will connect to the 115kV GS4 – Toul Prongo TL and 115 kV GS4 – GS10 TL; (ii) the propose 230/115 kV Skun and 230/115kV Thnang Keng substations will feed the power from 230 kV BOT from GS6 to GS Kampong Cham.

56. As per ADB 2009 SPS and 2012 A Planning and Implementation Good Practice Sourcebook (para. 21), for a project that is not funded by ADB and may cause involuntary resettlement but is critical to the design or implementation of the ADB project, ADB will carry out due diligence on involuntary resettlement that results from such projects by obtaining information on how the adverse impacts will be identified and addressed. As the above-listed projects, namely 115kV GS4 – Toul Prongo TL and 115 kV GS4 – GS10 TL; and 230 kV BOT from GS 6 to GS Kampong Cham are critical to the design and implementation of the SPP1, SKC3, and SKC4 subprojects, due diligence is thus required to ensure that the land acquisition activities of these projects are in compliance with the SPS 2009 requirements and Cambodian land laws and regulations.

2. Description of the associated facilities

a. 115 kV from GS4 – Toul Pongro and 115 GS4 – GS 10 transmission lines

57. The 230kV proposed Dankor substation will connect to 2 transmission lines including 115kV GS4–Toul Prongo TL and 115 kV GS4 – GS10 TL and contribute to improving the quality of energy supply for EDC's power transmission network in the greater Phnom Penh.

58. Two 115 kV TL were built in 2015 with 28 Km in total and put under operation in 2017.

Table 7. Features of the two TLs

Components	Technical Specifications	
	115 kV GS 4 – Toul Pongro	115 kV GS 4 – GS 10
Length of transmission line (in km)	20 Km	8 Km
- Starting point	GS4	GS4
- Ending point	GS8 (Toul Pongro)	GS10 (PPSEZ)

Components	Technical Specifications	
	115 kV GS 4 – Toul Pongro	115 kV GS 4 – GS 10
Width of Right-of-way (ROW)	15 m	15 m
Width of Earth Grounding Zone	30 m	30 m
Voltage level	115 kV	115 kV
Number of circuits	1	1
Conductor	ACSR 1x630 mm ²	ACSR 1x630 mm ²
Earth wire	ACSR 1x98.9 mm ² skunk type	ACSR 1x98.9 mm ² skunk type
Number of Optical	24 cores	24 ores

b. 230 kV BOT from GS 6 to GS Kampong Cham

59. The 230 kV BOT project will feed power for proposed SCK 3 and SCK4 subprojects. The line is 110 km length and traverse from GS6 substation to GS Kampong Cham (KPC) substation. It is BOT line and the owner of the line is Chinese company.

60. The line was built in 2010 and completed in 2013. To 2043 the line will be transferred to EDC.

Table 8. Feature of the 230 kV BOT from GS6 to GS Kampong Cham

Components	Technical Specifications
Length of transmission line (in km)	110 km
- Starting point	GS6
- Ending point	GS Kampong Cham (KPC)
Width of Right-of-way (ROW)	15 m
Width of Earth Grounding Zone	30 m
Voltage level	230 kV
Number of circuits	2
Conductor	ACSR 2x400mm ²
Earth wire	ACSR 1x98.9 mm ² skunk type
Number of Optical	24 ores

c. Impacts of Associated Facility Subprojects

61. Total of acquired land area is 68,893 m² for construction of tower foundations and 2,001,107m² land under the right-of-way and almost of the 2,070,000 m² is rice land and transportation land. In addition to land acquisition impacts, the construction of three projects caused impacts to tree, rice and structures.

Table 9. Associated Facility Subprojects Impacts

Subproject	Permanently acquired land (m2)	Land within the right-of-way	Total
115 kV GS4 - Grongpor	8,333	291,667	300,000
115 GS4 – GS 10	3,360	116,640	120,000
230 kV BOT line	57,200	1,592,800	1,650,000
Total	68,893	2,001,107	2,070,000

d. Associated facility projects' implementing progress

62. Survey methods were applied to collect the information on the compensation implementation progress of the associated facility projects. In January 2020, the public consultation was conducted in Kampong Cham and Phnom Penh on the impact of the Grid Reinforcement Project, some affected people by the associated facility projects were identified and thus were invited to join the discussions on the impacts and compensation status of these projects. In February 2020, the technical assistance consultant interviewed some affected people on the compensation and support as well as grievance redress mechanism of these projects (***List of people met is attached in Appendix 5***).

63. The results of the interviews and focused group discussions showed that:

- i) In the communes where the substations are built, the number of households affected by the projects is small, as the land has been transferred to investors from other provinces, especially from Phnom Penh in the 2000–2006 period;
- ii) The public consultations and disclosure of the project information were not conducted in the project preparation stages, and the households only knew about the projects when they were invited for compensation negotiation (BOT TL) or the detailed measurement survey;
- iii) The AHs received the compensation amount for their affected asset such as land, trees and houses/structures;
- iv) The price for compensation for land was good at that time and included the crops. It is reported that about \$500–700/tower position; for trees, the rates were higher than they expected;
- v) For relocated house, the compensation price included the compensation for land, for house, and for transportation;¹¹
- vi) There was no pending compensation issues/complaints; and
- vii) No households have worse standard of living than before the project because the project's impacts on the land was not significant.

64. EDC confirmed that compensation has been fully paid in line with the Land Law of Cambodia. EDC also confirmed that there are no outstanding issues and/or complaint under these projects. Please refer to EDC's confirmation on the completion of the land acquisition and compensation for these projects in the ***Appendix 4***.

65. The 3 transmission lines are identified as existing facilities associated with the Dangkor substation in Phnom Penh, Skun substation and Thnang Keng substation in Kampong Cham province.

66. All of 3 TLs were built between 2010 and 2015 period, so the compensation activities are completed and there is no outstanding issue or complaint as confirmed through desk review and site visits. Corrective action plan is, thus, not required.

I. Conclusion

67. EDC will acquire land for six substations (SPP1, SKC1, SKC2, SKC3, SKC4, and STKO1) through negotiated settlement. For the six substations, it is estimated that an aggregate of 166,000 m² covering 80 land plots of 58 households will be acquired permanently for the construction of the substations and access road, in which, 162,000m² of land for substation area

¹¹ It is reported by the village leader, the consultants could not meet the household head because he moved to Phnom Penh.

and 4,000m² of seven households for the access roads of these substations. It is envisaged that about 180,000m² will be temporarily affected during the construction duration for material transportations and storage areas.

68. No houses or auxiliary structures belonging to individual households will be affected by the subprojects. In addition, six subprojects will affect 133,500 m² of rice and 25 palm trees. Income from agriculture is among the sources of incomes of these households in addition to incomes from salary, livestock raising, and fishing. The consultation results show that as the impacts of these households are not significant, the households will not be affected on livelihoods of landowners as a result of land acquisition.

69. During construction, the commune infrastructure (irrigation canal and existing roads) will be affected. Original condition of the access road and the irrigation canal will be recorded by contractor prior to construction after detailed design is completed. All the damages caused by construction activities will be repaired, restored or compensated by the contractor. PIC will monitor and report on the respective cases of reinstatement of infrastructure and/or compensation of damage, and report through semi-annual safeguard monitoring report with evidences/photos annexed to the report.

70. In general, the planning and executing of land acquisition and resettlement tasks are mainly related to the preconstruction phase containing (i) detailed engineering design, (ii) bid document preparation and approval, and (iii) procurement of civil works contractor before start of the construction phase. The subproject is estimated to commence its construction from Q4 2020 and completed by end of 2021. Any acquisition of land or loss of assets will be verified and confirmed after the detailed engineering design. However, failed negotiation settlement, changed layout of the subproject and/or adjustment of the feasibility study design can lead to a change of subproject categorization with respect to the impacts on involuntary resettlement. In the event of this change in classification a land acquisition and resettlement plan will be prepared following the land acquisition and resettlement framework of the Grid Reinforcement Project.

A Sample Negotiated Settlement Agreement

The following agreement has been made on.....day of Between Mr./Ms., aged....., resident of zone, district (the owner) and (the recipient/subproject proponent).

1. That the land with certificate no.....is a part of, is surrounded from eastern side by....., western side by....., northern side by, and southern side by.....

2. That the owner holds the transferable rights of land (area in sqm), with plot No..... at the above location (include a copy of the certified map, if available) .

3. That the Owner testifies that the land/structure is free of squatters or encroachers and not subject to any other claims.

3.1 That the owner(s) agree to sell above assets for the negotiated price in accordance with the attached schedule.

3.2 That the project owners agree to pay the agreed price for the land and other assets within two weeks from the date of getting approval for the project from the Government of / PMU.

3.3. In case of any delay in payment within the stipulated time, this agreement will become null and void and the recipient will no longer have any claim over the land and assets.

4. That the recipient shall construct and develop theand take all possible precautions to avoid damage to adjacent land/structure/other assets.

5. That the provisions of this agreement will come into force from the date of signing of this deed.

.....
Name and Signature of the Owner Signature of subproject proponent/representative

Witnesses:

1.....

2.....

(Signature, name and address)

Compensation in the Case of Negotiated Settlement

Summary of Units to be Purchased Agreed Price

Affected Units/Item

1. Land (agricultural, residential, etc.)(sqm)

2. House/structure to be

Demolished (unit/sqm)

3. Description of structures Not applicable

(type of material etc.)

4. Trees or crops affected

5. Other fixed assets affected

(well, electric meter, other structures)

.....

(signature of owner) (signature of subproject proponent)

.....

(signature of village head) (signature of NGO/CBO representative)

Include record of any complaint raised by the owners;

Attach map of the area showing location of affected land.

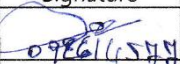
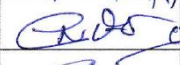
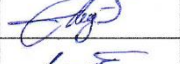




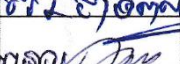



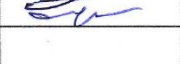
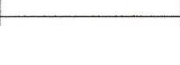
List of Consultation Participants

III. PUBIC CONSULTATION ON ENVIRONMENT AND SOCIAL/RESETLEMENT

LIST OF PARTICIPANTS

Date : 17 Jan 2020

Location : Otdam Mony Rangsey pagoda, Sambour, Bathey, Kampong Cham

ល.រ No	ឈ្មោះ Name	ភេទ Sex	តួនាទី / មុខរបរ Position	ស្ថាប័ន Organization	ហត្ថលេខា Signature	
១	លី - ហង់	ប	សេដ្ឋកិច្ច	គាត់		098614544
២	ស៊ី. ថាវ	ប	សេដ្ឋកិច្ច	ទួល		012507695
៣	ស៊ី. ថាវ	ប	សេដ្ឋកិច្ច	ស៊ី. ថាវ		011882056
៤	ស៊ី. ថាវ	ប	សេដ្ឋកិច្ច	ស៊ី. ថាវ		0172216
						74 x
៥	ស៊ី. ថាវ	ប	សេដ្ឋកិច្ច	ស៊ី. ថាវ		099875361
៦	ស៊ី. ថាវ	ប	សេដ្ឋកិច្ច	ស៊ី. ថាវ		095777449
៧	ស៊ី. ថាវ	ប	សេដ្ឋកិច្ច	ស៊ី. ថាវ		016399329
៨	ស៊ី. ថាវ	ប	សេដ្ឋកិច្ច	ស៊ី. ថាវ		089444446
៩	ស៊ី. ថាវ	ប	សេដ្ឋកិច្ច	ស៊ី. ថាវ		
១០	ស៊ី. ថាវ	ប	សេដ្ឋកិច្ច	ស៊ី. ថាវ		
១១	ស៊ី. ថាវ	ប	សេដ្ឋកិច្ច	ស៊ី. ថាវ		
១២	ស៊ី. ថាវ	ប	សេដ្ឋកិច្ច	ស៊ី. ថាវ		
១៣	ស៊ី. ថាវ	ប	សេដ្ឋកិច្ច	ស៊ី. ថាវ		

ល.រ	គោត្តនាម និងនាម	ភេទ	កូនាទី	អង្គភាព	លេខទូរស័ព្ទ	ហត្ថលេខា
1	ហ៊ុន សែន	♂	ប្រាសាទស្រី	ក្រុង		
2	ហ៊ុន សែន	♂	ប្រាសាទស្រី	ក្រុង		
3	ហ៊ុន សែន	♂	ប្រាសាទស្រី	ក្រុង		
4	ហ៊ុន សែន	♂	ប្រាសាទស្រី	ក្រុង		
5	ហ៊ុន សែន	♂	ប្រាសាទស្រី	ក្រុង		
6	ហ៊ុន សែន	♂	ប្រាសាទស្រី	ក្រុង		
7	ហ៊ុន សែន	♂	ប្រាសាទស្រី	ក្រុង		
8	ហ៊ុន សែន	♂	ប្រាសាទស្រី	ក្រុង		
9	ហ៊ុន សែន	♂	ប្រាសាទស្រី	ក្រុង		
10	ហ៊ុន សែន	♂	ប្រាសាទស្រី	ក្រុង		
11	ហ៊ុន សែន	♂	ប្រាសាទស្រី	ក្រុង		
12	ហ៊ុន សែន	♂	ប្រាសាទស្រី	ក្រុង		
13	ហ៊ុន សែន	♂	ប្រាសាទស្រី	ក្រុង		
14	ហ៊ុន សែន	♂	ប្រាសាទស្រី	ក្រុង		
15	ហ៊ុន សែន	♂	ប្រាសាទស្រី	ក្រុង		
16	ហ៊ុន សែន	♂	ប្រាសាទស្រី	ក្រុង		
17	ហ៊ុន សែន	♂	ប្រាសាទស្រី	ក្រុង		
18	ហ៊ុន សែន	♂	ប្រាសាទស្រី	ក្រុង		
19	ហ៊ុន សែន	♂	ប្រាសាទស្រី	ក្រុង		
20	ហ៊ុន សែន	♂	ប្រាសាទស្រី	ក្រុង		

Date : 17 Jan 2020

Location : Daun Dom Health Center, Soutip, Chheng Prey, Kampong Cham

ល.រ No	ឈ្មោះ Name	ភេទ Sex	តួនាទី / មុខរបរ Position	ស្ថាប័ន Organization	ហត្ថលេខា Signature	លេខទូរស័ព្ទ Phone Number
1	ល. វ៉ាន់ណា	ប.	នាយករង	រាជធានី		
2	ល. វ៉ាន់ណា	ប.	លេខ ២	រាជធានី		096486601
3	ល. វ៉ាន់ណា	ប.	លេខ ២	រាជធានី		089675692
4	ល. វ៉ាន់ណា	ប.	លេខ ២	រាជធានី		01647823
5	ល. វ៉ាន់ណា	ប.	លេខ ២	រាជធានី		096672072
6	ល. វ៉ាន់ណា	ប.	លេខ ២	រាជធានី		09779442
7	ល. វ៉ាន់ណា	ប.	លេខ ២	រាជធានី		09229628
8	ល. វ៉ាន់ណា	ប.	លេខ ២	រាជធានី		08843965
9	ល. វ៉ាន់ណា	ប.	លេខ ២	រាជធានី		09259136
10	ល. វ៉ាន់ណា	ប.	លេខ ២	រាជធានី		01272165
11	ល. វ៉ាន់ណា	ប.	លេខ ២	រាជធានី		011324046
12	ល. វ៉ាន់ណា	ប.	លេខ ២	រាជធានី		097220262
13	ល. វ៉ាន់ណា	ប.	លេខ ២	រាជធានី		012283301
14	ល. វ៉ាន់ណា	ប.	លេខ ២	រាជធានី		099706097
15	ល. វ៉ាន់ណា	ប.	លេខ ២	រាជធានី		016334404
16	ល. វ៉ាន់ណា	ប.	លេខ ២	រាជធានី		097573390
17	ល. វ៉ាន់ណា	ប.	លេខ ២	រាជធានី		077827672
18	ល. វ៉ាន់ណា	ប.	លេខ ២	រាជធានី		016397322
19	ល. វ៉ាន់ណា	ប.	លេខ ២	រាជធានី		091282712
20	ល. វ៉ាន់ណា	ប.	លេខ ២	រាជធានី		097743121
21	ល. វ៉ាន់ណា	ប.	លេខ ២	រាជធានី		0177245
22	ល. វ៉ាន់ណា	ប.	លេខ ២	រាជធានី		09289845
23	ល. វ៉ាន់ណា	ប.	លេខ ២	រាជធានី		434
24	ល. វ៉ាន់ណា	ប.	លេខ ២	រាជធានី		
25	ល. វ៉ាន់ណា	ប.	លេខ ២	រាជធានី		

Date : 20 Jan 2020

Location : Kdouch pagoda, Srae Sar, Tbeng Kpos, Samaki Meanchey, Kampong Chhnang

ល.រ No	ឈ្មោះ Name	ភេទ Sex	តំណាង /មុខរបរ Position/Occupation	ស្ថាប័ន Organization	លេខទូរស័ព្ទ Phone Number	ហត្ថលេខា Signature
1	ស្រី - ឈ្មោះ	ស	សិស្សស្រី	ស្រីស្រី	012-991.808	[Signature]
2	ស្រី - ឈ្មោះ	ស	សិស្សស្រី	ស្រីស្រី	086.301.368	[Signature]
3	ស្រី - ឈ្មោះ	ស	សិស្សស្រី	—	—	[Signature]
4	ស្រី - ឈ្មោះ	ស	—	—	—	[Signature]
5	ស្រី - ឈ្មោះ	ស	—	—	—	[Signature]
6	ស្រី - ឈ្មោះ	ស	—	—	—	[Signature]
7	ស្រី - ឈ្មោះ	ស	—	—	—	[Signature]
8	ស្រី - ឈ្មោះ	ស	—	—	—	[Signature]
9	ស្រី - ឈ្មោះ	ស	—	—	—	[Signature]
10	ស្រី - ឈ្មោះ	ស	—	—	—	[Signature]
11	ស្រី - ឈ្មោះ	ស	—	—	—	[Signature]
12	ស្រី - ឈ្មោះ	ស	—	—	—	[Signature]
13	ស្រី - ឈ្មោះ	ស	—	—	—	[Signature]
14	ស្រី - ឈ្មោះ	ស	—	—	—	[Signature]
15	ស្រី - ឈ្មោះ	ស	—	—	—	[Signature]
16	ស្រី - ឈ្មោះ	ស	—	—	095.30.8096	[Signature]
17	ស្រី - ឈ្មោះ	ស	—	—	—	[Signature]
18	ស្រី - ឈ្មោះ	ស	—	—	—	[Signature]
19	ស្រី - ឈ្មោះ	ស	សិស្សស្រី	LWD	012908799	[Signature]
20	ស្រី - ឈ្មោះ	ស	សិស្សស្រី	សិស្សស្រី	093816733	[Signature]
21	ស្រី - ឈ្មោះ	ស	សិស្សស្រី	—	097858166	[Signature]
22	ស្រី - ឈ្មោះ	ស	សិស្សស្រី	—	017874896	[Signature]

ស្រី

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Date : 20 Jan 2020

Location : Sethei Commune Office, Samaki Meanchey, Kampong Chhnang

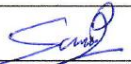





ល.រ No	ឈ្មោះ Name	ភេទ Sex	តំណាង /មុខរបរ Position/Occupation	ស្ថាប័ន Organization	លេខទូរស័ព្ទ Phone Number	ហត្ថលេខា Signature
1	ស្រី ឈន់	ប្រុស	អគ្គនាយក	សមាគម	012912481	
2	ស្រី ឈន់	ប្រុស	អគ្គនាយក	សមាគម	012562008	
3	ស្រី ឈន់	ប្រុស	អគ្គនាយក	សមាគម	015417963	
4	ស្រី ឈន់	ប្រុស	អគ្គនាយក	សមាគម	017329063	
5	ស្រី ឈន់	ប្រុស	អគ្គនាយក	សមាគម		
6	ស្រី ឈន់	ប្រុស	អគ្គនាយក	សមាគម	0963183407	
7	ស្រី ឈន់	ប្រុស	អគ្គនាយក	សមាគម		
8	ស្រី ឈន់	ប្រុស	អគ្គនាយក	សមាគម	0973633463	
9	ស្រី ឈន់	ប្រុស	អគ្គនាយក	សមាគម	012438785	
10	ស្រី ឈន់	ប្រុស	អគ្គនាយក	សមាគម		
11	ស្រី ឈន់	ប្រុស	អគ្គនាយក	សមាគម		
12	ស្រី ឈន់	ប្រុស	អគ្គនាយក	សមាគម	015246696	
13	ស្រី ឈន់	ប្រុស	អគ្គនាយក	សមាគម	096 6980654	
14	ស្រី ឈន់	ប្រុស	អគ្គនាយក	សមាគម	096356119	
15	ស្រី ឈន់	ប្រុស	អគ្គនាយក	សមាគម	0883957177	
16	ស្រី ឈន់	ប្រុស	អគ្គនាយក	សមាគម		
17	ស្រី ឈន់	ប្រុស	អគ្គនាយក	សមាគម	012677273	
18	ស្រី ឈន់	ប្រុស	អគ្គនាយក	សមាគម	092538097	
19	ស្រី ឈន់	ប្រុស	អគ្គនាយក	សមាគម	09224970	
20	ស្រី ឈន់	ប្រុស	អគ្គនាយក	សមាគម	092958308	
21	ស្រី ឈន់	ប្រុស	អគ្គនាយក	សមាគម	0967235350	
22	ស្រី ឈន់	ប្រុស	អគ្គនាយក	សមាគម	017374001	
23	ស្រី ឈន់	ប្រុស	អគ្គនាយក	សមាគម		
24	ស្រី ឈន់	ប្រុស	អគ្គនាយក	សមាគម	012300372	
25	ស្រី ឈន់	ប្រុស	អគ្គនាយក	សមាគម	097557080	

ល.រ No	ឈ្មោះ Name	ភេទ Sex	តំណាង /មុខរបរ Position/Occupation	ស្ថាប័ន Organization	លេខទូរស័ព្ទ Phone Number	ហត្ថលេខា Signature
26	អ៊ុន ផ្លែ	ប្រុស	សេចក្តី	ពាក្យ	078356872	07
27	អ៊ុន ផ្លែ	ប្រុស	អគ្គនាយក	ក្រសួងសេដ្ឋកិច្ច	099491002	
28	អ៊ុន ផ្លែ	ប្រុស	សមាជិកគណៈកម្មាធិការ	ក្រសួងសេដ្ឋកិច្ច	087862070	
29	អ៊ុន ផ្លែ	ប្រុស	ប្រធានការពារ	ក្រសួងសេដ្ឋកិច្ច	09677201032	
30	អ៊ុន ផ្លែ	ប្រុស	ប្រធានការពារ	ក្រសួងសេដ្ឋកិច្ច	016301581	
31	អ៊ុន ផ្លែ	ប្រុស	ប្រធានការពារ	ក្រសួងសេដ្ឋកិច្ច	098779872	CUMS
32	អ៊ុន ផ្លែ	ប្រុស	អគ្គនាយក	ក្រសួងសេដ្ឋកិច្ច	092479169	
33	អ៊ុន ផ្លែ	ប្រុស	អគ្គនាយក	ក្រសួងសេដ្ឋកិច្ច		
34	អ៊ុន ផ្លែ	ប្រុស	ប្រធានការពារ	ក្រសួងសេដ្ឋកិច្ច	010544331	
35	អ៊ុន ផ្លែ	ប្រុស	អគ្គនាយក	ក្រសួងសេដ្ឋកិច្ច	015644655	
36	អ៊ុន ផ្លែ	ប្រុស	អគ្គនាយក	ក្រសួងសេដ្ឋកិច្ច	092347476	
37	អ៊ុន ផ្លែ	ប្រុស	អគ្គនាយក	ក្រសួងសេដ្ឋកិច្ច		
38	អ៊ុន ផ្លែ	ប្រុស	អគ្គនាយក	ក្រសួងសេដ្ឋកិច្ច		
39	អ៊ុន ផ្លែ	ប្រុស	អគ្គនាយក	ក្រសួងសេដ្ឋកិច្ច		
40	អ៊ុន ផ្លែ	ប្រុស	អគ្គនាយក	ក្រសួងសេដ្ឋកិច្ច		
41	អ៊ុន ផ្លែ	ប្រុស	អគ្គនាយក	ក្រសួងសេដ្ឋកិច្ច	092217078	COS
42	អ៊ុន ផ្លែ	ប្រុស	អគ្គនាយក	ក្រសួងសេដ្ឋកិច្ច	095966641	
43	អ៊ុន ផ្លែ	ប្រុស	អគ្គនាយក	ក្រសួងសេដ្ឋកិច្ច	07897088	
44	អ៊ុន ផ្លែ	ប្រុស	អគ្គនាយក	ក្រសួងសេដ្ឋកិច្ច		
46	អ៊ុន ផ្លែ	ប្រុស	អគ្គនាយក	ក្រសួងសេដ្ឋកិច្ច		

Date : 21 Jan 2020

Location : Thlok Vien Commune Office, Samaki Meanchey, Kampong Chhnang

ល.រ No	ឈ្មោះ Name	ភេទ Sex	តំណាង /មុខរបរ Position/Occupation	ស្ថាប័ន Organization	លេខទូរស័ព្ទ Phone Number	ហត្ថលេខា Signature
1	ឈុន ឈុន	ប្រុស	ស្រាវជ្រាវ	ស្ថាប័ន	017465942	
2	ស្រី ឈុន	ស្រី	ស្រាវជ្រាវ	ស្ថាប័ន	09173523	
3	ស្រី ឈុន	ស្រី	ស្រាវជ្រាវ	ស្ថាប័ន	07823694	
4	ស្រី ឈុន	ស្រី	ស្រាវជ្រាវ	ស្ថាប័ន	089291388	
5	ស្រី ឈុន	ស្រី	ស្រាវជ្រាវ	ស្ថាប័ន	012552513	
7	ស្រី ឈុន	ស្រី	ស្រាវជ្រាវ	ស្ថាប័ន		
8	ស្រី ឈុន	ស្រី	ស្រាវជ្រាវ	ស្ថាប័ន	08588599	
9	ស្រី ឈុន	ស្រី	ស្រាវជ្រាវ	ស្ថាប័ន	099670857	
10	ស្រី ឈុន	ស្រី	ស្រាវជ្រាវ	ស្ថាប័ន	0963225700	
11	ស្រី ឈុន	ស្រី	ស្រាវជ្រាវ	ស្ថាប័ន	0968198514	
12	ស្រី ឈុន	ស្រី	ស្រាវជ្រាវ	ស្ថាប័ន		
13	ស្រី ឈុន	ស្រី	ស្រាវជ្រាវ	ស្ថាប័ន	097349715	
14	ស្រី ឈុន	ស្រី	ស្រាវជ្រាវ	ស្ថាប័ន		
15	ស្រី ឈុន	ស្រី	ស្រាវជ្រាវ	ស្ថាប័ន		
16	ស្រី ឈុន	ស្រី	ស្រាវជ្រាវ	ស្ថាប័ន	089422331	
17	ស្រី ឈុន	ស្រី	ស្រាវជ្រាវ	ស្ថាប័ន	017942742	
18	ស្រី ឈុន	ស្រី	ស្រាវជ្រាវ	ស្ថាប័ន	011772178	
19	ស្រី ឈុន	ស្រី	ស្រាវជ្រាវ	ស្ថាប័ន	097543656	
20	ស្រី ឈុន	ស្រី	ស្រាវជ្រាវ	ស្ថាប័ន	097586546	
21	ស្រី ឈុន	ស្រី	ស្រាវជ្រាវ	ស្ថាប័ន	0969104161	
22	ស្រី ឈុន	ស្រី	ស្រាវជ្រាវ	ស្ថាប័ន	096882223	
23	ស្រី ឈុន	ស្រី	ស្រាវជ្រាវ	ស្ថាប័ន	078901347	
24	ស្រី ឈុន	ស្រី	ស្រាវជ្រាវ	ស្ថាប័ន	017327248	
25	ស្រី ឈុន	ស្រី	ស្រាវជ្រាវ	ស្ថាប័ន	097297364	
26	ស្រី ឈុន	ស្រី	ស្រាវជ្រាវ	ស្ថាប័ន	012206429	


ល.រ No	ឈ្មោះ Name	ភេទ Sex	តំណាង /មុខរបរ Position/Occupation	ស្ថាប័ន Organization	លេខទូរស័ព្ទ Phone Number	ហត្ថលេខា Signature
26	លី ឌីវ៉ា	ប	ស្រីក្រសួង	ស្ថាប័ន	0928965947	
27	វ៉ាន់ ប៊ុនផាត	ប	សមាជិកស្ថាប័ន	ស្ថាប័ន	09251633	
28	វ៉ាន់ ប៊ុនផាត	ប	សមាជិកស្ថាប័ន	ស្ថាប័ន	0978521567	
29	វ៉ាន់ ប៊ុនផាត	ប	សមាជិកស្ថាប័ន	ស្ថាប័ន	017874896	
30	វ៉ាន់ ប៊ុនផាត	ប	សមាជិកស្ថាប័ន	ស្ថាប័ន	012303656	
31	វ៉ាន់ ប៊ុនផាត	ប	សមាជិកស្ថាប័ន	ស្ថាប័ន	077 314195	

Date : 21 Jan 2020

Location : Peani Commune Office, Kampong Tralach, Kampong Chhnang

ល.រ No	ឈ្មោះ Name	ភេទ Sex	តំណាង /មុខរបរ Position/Occupation	ស្ថាប័ន Organization	លេខទូរស័ព្ទ Phone Number	ហត្ថលេខា Signature
1	ឈ្មោះ យ៉ា វ៉ាន់	ប្រុស	សាមីស	ឧបករណ៍	012483921	
2	ឈ្មោះ ហ៊ុន ណាម	ប្រុស	ប្រធាន			
3	ឈ្មោះ ហ៊ុន វ៉ាន់	ប្រុស	ប្រធាន			
4	ឈ្មោះ ហ៊ុន វ៉ាន់	ប្រុស	ប្រធាន		097416446	
5	ឈ្មោះ ហ៊ុន វ៉ាន់	ប្រុស	ប្រធាន		097457939	
6	ឈ្មោះ ហ៊ុន វ៉ាន់	ប្រុស	ប្រធាន		092354809	
7	ឈ្មោះ ហ៊ុន វ៉ាន់	ប្រុស	ប្រធាន		0979544467	
8	ឈ្មោះ ហ៊ុន វ៉ាន់	ប្រុស	ប្រធាន		0974449251	
9	ឈ្មោះ ហ៊ុន វ៉ាន់	ប្រុស	ប្រធាន		097212688	
10	ឈ្មោះ ហ៊ុន វ៉ាន់	ប្រុស	ប្រធាន			
11	ឈ្មោះ ហ៊ុន វ៉ាន់	ប្រុស	ប្រធាន			0976569423
12	ឈ្មោះ ហ៊ុន វ៉ាន់	ប្រុស	ប្រធាន			
13	ឈ្មោះ ហ៊ុន វ៉ាន់	ប្រុស	ប្រធាន			
14	ឈ្មោះ ហ៊ុន វ៉ាន់	ប្រុស	ប្រធាន			
15	ឈ្មោះ ហ៊ុន វ៉ាន់	ប្រុស	ប្រធាន			
16	ឈ្មោះ ហ៊ុន វ៉ាន់	ប្រុស	ប្រធាន			
17	ឈ្មោះ ហ៊ុន វ៉ាន់	ប្រុស	ប្រធាន		0972525892	
18	ឈ្មោះ ហ៊ុន វ៉ាន់	ប្រុស	ប្រធាន			
19	ឈ្មោះ ហ៊ុន វ៉ាន់	ប្រុស	ប្រធាន			
20	ឈ្មោះ ហ៊ុន វ៉ាន់	ប្រុស	ប្រធាន			
21	ឈ្មោះ ហ៊ុន វ៉ាន់	ប្រុស	ប្រធាន			
22	ឈ្មោះ ហ៊ុន វ៉ាន់	ប្រុស	ប្រធាន			
23	ឈ្មោះ ហ៊ុន វ៉ាន់	ប្រុស	ប្រធាន			
24	ឈ្មោះ ហ៊ុន វ៉ាន់	ប្រុស	ប្រធាន			
25	ឈ្មោះ ហ៊ុន វ៉ាន់	ប្រុស	ប្រធាន			

លរ No	ឈ្មោះ Name	ភេទ Sex	តំណាង /មុខរបរ Position/Occupation	ស្ថាប័ន Organization	លេខទូរស័ព្ទ Phone Number	ហត្ថលេខា Signature
1	ម៉. គង់	ស	អគ្គនាយក	គ.ក	0713466644	[Signature]
2	កែវ វិហារ	ប	ប្រធាន	គ.ក		[Signature]
3	វិហារ ឈឹម	ស	"	"		[Signature]
4	ហ៊ុក - សៀម	ស	បេតិកភណ្ឌ	ក.ក	0977804889	[Signature]
5	ឡាន - ភាសិន	ស	សាមីស្រី	"	069402447	[Signature]
6	ស៊ីម ឆាន់	ប	ប្រធាន	វិទ្យាស្ថាន		[Signature]
7	ស៊ីម គឹម	"	"	វិទ្យាស្ថាន		[Signature]
8	ស៊ីម ហ៊ុន	"	"	"		[Signature]
9	ស៊ីម គឹម	"	អគ្គនាយក	ស.ក	092918047	[Signature]
10	ស៊ីម ហ៊ុន	"	ប្រធាន	"		[Signature]
11	ស៊ីម ហ៊ុន	ស	អគ្គនាយក	"		[Signature]
12	ស៊ីម ហ៊ុន	ប	ប្រធាន	ស.ក		[Signature]
13	ស៊ីម ហ៊ុន	"	អគ្គនាយក	ស.ក	097530607	[Signature]
14	ស៊ីម ហ៊ុន	ប	ប្រធាន	ស.ក	096972688	[Signature]
15	ស៊ីម ហ៊ុន	ស	អគ្គនាយក	ស.ក		[Signature]
16	ស៊ីម ហ៊ុន	ស	អគ្គនាយក	ស.ក	088905008	[Signature]
17	ស៊ីម ហ៊ុន	ប	ប្រធាន	ស.ក		[Signature]
18	ស៊ីម ហ៊ុន	"	"	"		[Signature]
19	ស៊ីម ហ៊ុន	ស	អគ្គនាយក	ស.ក	0979544467	[Signature]
20	ស៊ីម ហ៊ុន	ស	អគ្គនាយក	ស.ក	098234101	[Signature]
21	ស៊ីម ហ៊ុន	ស	អគ្គនាយក	"	098228611	[Signature]
22	ស៊ីម ហ៊ុន	ប	ប្រធាន	ស.ក		[Signature]
23	ស៊ីម ហ៊ុន	ប	អគ្គនាយក	ស.ក	012606192	[Signature]
24	ស៊ីម ហ៊ុន	ស	អគ្គនាយក	ស.ក	092911933	[Signature]
25	ស៊ីម ហ៊ុន	ស	អគ្គនាយក	"	097704631	[Signature]
26	ស៊ីម ហ៊ុន	ស	ប្រធាន	ស.ក	0716137188	[Signature]
27	ស៊ីម ហ៊ុន	ស	"	"		[Signature]
28	ស៊ីម ហ៊ុន	ស	"	"		[Signature]
29	ស៊ីម ហ៊ុន	ប	អគ្គនាយក	ស.ក	072274784	[Signature]
30	ស៊ីម ហ៊ុន	ស	ប្រធាន	ស.ក		[Signature]

ល.រ No	ឈ្មោះ Name	ភេទ Sex	តំណាង /មុខរបរ Position/Occupation	ស្ថាប័ន Organization	លេខទូរស័ព្ទ Phone Number	ហត្ថលេខា Signature
1	ស្រី ឈី	ស្រី	ស្រីស្រី ២		០១៧៩១១២៤៤	
2	ស្រី ឈី	ស្រី	ស្រីស្រី ២		០១៧៩១១២៤៤	
3	ស្រី ឈី	ស្រី	ស្រីស្រី ២		០១៧៩១១២៤៤	

Date : 04 Feb 2020

Location : Sangkat Prateah Lang, Khan Kambol, Phnom Penh

ល.រ No	ឈ្មោះ Name	ភេទ Sex	តំណាង /មុខរបរ Position/Occupation	ស្ថាប័ន Organization	លេខទូរស័ព្ទ Phone Number	ហត្ថលេខា Signature
1	ឡាន - ជន	ប	សាសនា	ស្ថានភាព	078300573	
2	ស៊ីម ស៊ីន	ប	គ្រូបង្រៀន	ស្ថានភាព		
3	សាត សុខា	ប	សាសនា	ស្ថានភាព		
4	ស៊ីម សុខា	ប	គ្រូបង្រៀន	ស្ថានភាព		
5	ស៊ីម សុខា	ប	—	—		
6	ស៊ីម សុខា	ប	—	—		
7	ស៊ីម សុខា	ប	—	—		
8	សាត សុខា	ប	—	—		
9	សាត សុខា	ប	—	—	096.7296003	
10	សាត សុខា	ប	—	—		
11	សាត សុខា	ប	—	—		
12	សាត សុខា	ប	—	—		
13	សាត សុខា	ប	—	—		
14	សាត សុខា	ប	—	—	092525237	
15	សាត សុខា	ប	—	—	012.408151	
16	សាត សុខា	ប	—	—	012.648909	
17	សាត សុខា	ប	—	—	017.457110	
18	សាត សុខា	ប	—	—	012.434415	
19	សាត សុខា	ប	—	—	070755904	
20	សាត សុខា	ប	—	—	0964276777	
21	សាត សុខា	ប	—	—	089525241	
22	សាត សុខា	ប	—	—	010643765	
23	សាត សុខា	ប	—	—	012.73.8706	

ល.រ No	ឈ្មោះ Name	ភេទ Sex	តួនាទី /មុខរបរ Position/Occupation	ស្ថាប័ន Organization	លេខទូរស័ព្ទ Phone Number	ហត្ថលេខា Signature
26	ស្រី គង់ ឈី	ម	សមាជិក	គណៈកម្មាធិការ	012-389890	Chen
27	ស្រី គង់ ឈី	ម	សមាជិក	គណៈកម្មាធិការ	09-8443216	Chen
28	ស្រី គង់ ឈី	ម	សមាជិក	គណៈកម្មាធិការ	012-771805	Chen
29	ស្រី គង់ ឈី	ម	សមាជិក	គណៈកម្មាធិការ	012-754330	Chen
30	ស្រី គង់ ឈី	ម	សមាជិក	គណៈកម្មាធិការ	012-390103	Chen
31	ស្រី គង់ ឈី	ម	សមាជិក	គណៈកម្មាធិការ	070460876	Chen
32	ស្រី គង់ ឈី	ម	សមាជិក	គណៈកម្មាធិការ	0408875972	Chen
33	ស្រី គង់ ឈី	ម	សមាជិក	គណៈកម្មាធិការ	078420988	Chen
34	ស្រី គង់ ឈី	ម	សមាជិក	គណៈកម្មាធិការ	088867027	Chen
35	ស្រី គង់ ឈី	ម	សមាជិក	គណៈកម្មាធិការ	010442303	Chen
36	ស្រី គង់ ឈី	ម	សមាជិក	គណៈកម្មាធិការ	078799174	Chen
37	ស្រី គង់ ឈី	ម	សមាជិក	គណៈកម្មាធិការ	069234919	Chen
38	ស្រី គង់ ឈី	ម	សមាជិក	គណៈកម្មាធិការ	012622604	Chen

Pictures of the Consultation

New 230/22 kV Thnal Keng substation	
	
Environmental present safeguard policy	Social safeguard policy was presented
New 230/22 kV Skun substation	
	
Presenting social safeguard policy	Participants are happy and support the project
New 230/115/22 kV Sameakki Meanchey substation	
	
Plenary discussion on safeguard policy	Identify potential impact on map by participant

New 115/22 kV Kampong Tralach substation	
	
Commune Chief open remark	Social Resettlement and EDC present potential impact
New 230/115 kV Kambol substation	
	
Social Resettlement present safeguard policy	Participant asked a question

Confirmation of Electricite du Cambodge's Commitment

KINGDOM OF CAMBODIA NATION RELIGION KING



ELECTRICITE DU CAMBODGE

Ref: 2900 EDC-CPD

Phnom Penh, 03 April 2020

Attention: Mr. Andrew Jeffries
Director, Energy Division
Southeast Asia Department
Asian Development Bank

Subject: Confirmation of EDC's commitment on compensation completion and conducting appropriate environmental assessment and mitigation measures for associated facilities

Dear Mr. Andrew Jeffries,

With respect to ADB concern regarding EDC's commitment to complete compensation and environmental assessment for the associated facilities of Grid Reinforcement Project, EDC would like to confirm that land acquisition has been completed and appropriate environmental assessment was conducted at each associated facility (see attachment 1). In addition there was no significant adverse environmental impacts resulted from any phase of project implementation.

Your kind consideration and cooperation is highly appreciated.

Sincerely yours,



KEO ROTTANAK

Minister attached to the Prime Minister
Managing Director of EDC

Cc: - Ms. Daniela Schmidt
- Ms. Rangina Nazrieva

(Attachment 1)
Associated Facilities to the Grid Reinforcement Subprojects Considered for ADB Financing

ID	Subproject Name	Associated Facility
I	Transmission Lines and Substations in Phnom Penh	
TPP1	230kV transmission line from existing GS5 to proposed Sen Sok substation	230kV GS5 substation
TPP2	115kV transmission line from proposed Sen Sok substation to proposed Russei Keo substation	
TPP3	115kV transmission line from proposed Boeung Tompon substation to new Olympic substation	115kV Olympic substation
SPP1	New 230/115kV Dangkor substation	115kV TL from GS4 – GS Toul Pongro and from T – GS10
SPP2	New 230/115/22kV Sen Sok substation	
SPP3	New 115/22kV RUPP substation	115kV UGC from NCC substation – Toul Kork and Boeung Kok substation
SPP4	New 115/22kV Boeung Tompon substation	
SPP5	New 115/22kV Russei Keo substation	
II	Transmission Lines and Substations in Kampong Chhnang (KCN), Kampong Cham (KPC) and Takeo (TKO)	
TKCN1	115kV transmission line from proposed Samiki Meanchey substation to Kampong Tralach	
SKCN1	New 230/115/22 kV Samiki Meanchey substation	230 kV BOT TL from GS6 to GS Kampong Chhnang
SKCN2	New 115/22 kV Kampong Tralach substation	
SKPC1	New 230/22 kV Thnal Keng substation	230 kV BOT TL from GS6 to GS Kampong Cham
SKPC2	New 230/22 kV Skun substation	
STKO1	New 230/115/22 kV Samroang Yoang substation	230 kV TL from Takeo to GS4

for ADB 25-

List of the Affected People who were Interviewed

Dangkor Substation

Province: Phnom Penh, District: Khan Kambol, Commune: Sangkat Prateah Lang

Village: Prateah Lang

Date: 04 Feb 2020

Participant: Total 5 person, 1 Females and 4 Males.

No	Name	Sex	Village	Phone
1	Long Set	Male	Prateah Lang	017 880641
2	Ches Kun	Male	Prateah Lang	010 643765
3	Nut Khin	Female	Prateah Lang	096 7296003
4	Horm Khin	Male	Prateah Lang	012 390103
5	Pang Samadi	Male	Prateah Lang	

BOT 230kV transmission line

No	Name	Sex	Village	Commune	District	Province	Phone
1	Chok Yan	Male	Ngong	Soutip	Choeung Prey	Kampong Cham	0977944709
2	Thol Koy	Male	Thmei	Soutip	Choeung Prey	Kampong Cham	089 675692
3	Chem Sang	Male	Thmei	Soutip	Choeung Prey	Kampong Cham	
4	Son Soeun	Male	Thmei	Soutip	Choeung Prey	Kampong Cham	089 347033
5	Sek Horn	Female	Thmei	Soutip	Choeung Prey	Kampong Cham	
6	Son Roeun	Male	Thmei	Soutip	Choeung Prey	Kampong Cham	097 2050156
7	Khoun Khorn	Male	Chong	Sambour	Bathey	Kampong Cham	095 777 129
8	Than Sam At	Male	Chong	Sambour	Bathey	Kampong Cham	012 499 479
9	Sos Ya	Female	Srae Sar	Tbeng Kpos	Samaki Meanchey	Kampong Chhnang	086 301 368
10	Men Pao	Male	Thlok Vien	Thlok Vien	Samaki Meanchey	Kampong Chhnang	096 5816056
11	Sao Chhok	Male	Acheang	Trapang Sap	Bati	Takeo	092 933327
12	Nut Oeun	Female	Acheang	Trapang Sap	Bati	Takeo	