

PART A : BASIC PROJECT INFORMATION

(Must be completed in all cases)

1. PROJECT NAME: **Construction of Underground Fiber Optic Network and Upgrade Fiber Optic Network Infrastructure within the Greater Mekong Subregion and Equipped Dense Wavelength Division Multiplexing-DWDM with build out site plan fiber-to-the home - FTTH in urban areas**
2. PROJECT DATES:
- PROJECT START: **1/1/2025**
- ESTIMATED COMPLETION: **12/31/2027**
3. TOTAL PROJECT COST: **\$55,000,000**
4. RESPONSIBLE MINISTRY: **Ministry of Posts & Telecommunications**
- RESPONSIBLE UNIT: **TELECOM CAMBODIA (T.C.)**
- អង្គភាពទទួលខុសត្រូវ: **ទូរគមនាគមន៍កម្ពុជា(ទ.ក.)**
5. PROJECT STATUS: **Planned**

DETAILED PROJECT INFORMATION

6. TYPE OF PROJECT: **Investment project**
7. SOURCE OF PROJECT FUNDING: **Donor Sought**
8. THE POLICY AREA OF THE PENTAGON STRATEGY PHASE I THAT THIS PROJECT FALLS UNDER:V
Pentagon 2: Economic Diversification and Competitiveness Enhancement
9. THE CONTRIBUTION OF THE PROJECT TO ACHIEVE THE ABOVE POLICY:

- Construction of underground fiber optic cable network and installation of DWDM transmission system with build out site plan network in the town of Broadband Access Network-FTTH from Phnom Penh-Sihanoukville 230km, Kampong Cham-Neak Leung 120km, Bavet-Svay Rieng-Ponhea Krek 150km, Battambang - Pailin - Poipet 310km, Pursat - Veal Veng - Koh Kong 330km, Kralanh - Samrong - O Smach 120km, Kampong Thom - Preah Vihear - Stung Treng - Banlung 480km, Bavet - Phnom Penh - Poipet (National Road No. 1 and No. 5) 664 km, Siem Reap City - Serey Sophorn City - Poipet City (National Road No. 6-5) 151 km.

- Rehabilitation of network infrastructure with the replacement of old SDH transmission system to DWDM with Out site plan network in the town of Broadband Access Network-FTTx from Phnom Penh-Takeo-Kep-Kampot-Sihanoukville, Phnom Penh-Kampong Thom-Siem Reap (National Road No. 6), from Skun - Kampong Cham City - Snoul - Kratie Town - Stung Treng - Trapeang Kriel (National Road No. 7).

10. SUPPORT TO CAMBODIA INDUSTRIAL DEVELOPEMENT POLICY:

Does this Project support to the implementation of the Cambodia Industrial Development Policy? **Yes**

Coordination of Supporting Policies (Skills and Human Resource Development, Sciences, Technology and Innovation Promotion, Establishment and Development of Industrial Infrastructure, and Financing Measures)

11. SECTOR:

Post and Telecommunications

Telecommunications

Telecommunications

12. PROJECT LOCATION: (Describe the location of the project and its components.)

Svay Rieng, Stung Treng, Koh Kong, Ratanak Kiri, Kampot, Kampong Thom, Kampong Chhnang, Pailin, Kampong Cham, Preah Vihear, Prey Veng, Kampong Speu, Siem Reap, Pursat, Kratie, Kep, Kandal, Tbong Khmum, Battambang, Phnom Penh, Otdar Meanchey, Preah Sihanouk, Takeo, Banteay Meanchey,

13. PROJECT OBJECTIVE: (Describe the major purpose of the project.)

The project is designed to promote the telecom sector to bring the application of new technologies, from high-speed system (Broadband Access Network) dissemination of knowledge for people of all ages to all provinces, cities, and rural population. Collaborate Manage the national Internet gateway, accelerate and stimulate the national economy to grow rapidly.

14. PROJECT DESCRIPTION: (Provide a description of the project and all its components.)

- Use 96core fiber optic cable as backbone and 48core fiber optic cable as Access. Equipped with DWDM transmitter at the main station. Install and expand out site plan fiber optic cable (FTTH) network, equip IP Router, optical line termination-OLT in urban areas with economic potential. Use plastic tubes and other technical equipment.

15. PROJECT JUSTIFICATION: (Give reasons why this particular project is considered worthwhile.)

- Support poverty reduction policies and increase the knowledge of the people by using telecommunications and information and communication technology to increase development.
- Maintain order for hundreds of telecommunications infrastructure, information and communication technologies.
- Bring low service cost, profit to customers.

16. BENIFITS: (Who will benefit, directly and indirectly, from the project?)

Serve telecommunications, information and communication technology to local people, authorities, public and private institutions, schools, businesses, handicrafts, bank, microfinance, Internet service providers (ISPs), telecom operators and companies to maintain national security and contribute to the rapid growth of the national economy.

17. FEASIBILITY STUDY

Is a Feasibility Study for the project required? **Yes**

If YES, has it been carried out? **Not yet**

18. SOCIAL & ENVIRONMENT IMPACT: (Briefly describe the effects of the project, if any, on the people and the surrounding enviroment. Will the project assist in alleviating poverty?)

- Specific technical studies are needed to assess the impact of environmental and social.
- It certainly plays an important role in bringing low service costs through the use of technology and the use of common infrastructure, thus leading people to access low-cost, high-quality telecommunications services.

19. CLIMATE CHANGE

a. Is any activity or output of the project related to Climate Change? **No**

b. How is the project relevant to Climate Change?

Please select a Climate Change related sector of the project and fill up the contribution of the climate change related expenditure compared to the total project cost.

Climate Change-Related Sector	Percentage	Climate Change Relevance
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20. DISASTER RISK REDUCTION

Is any activity or output of the project related to Disaster Risk Reduction? **Yes**

If Yes, please indicate **Preparedness**

21. GENDER ANALYSIS: (How does the project affect the roles of the men and women in the project area? Will women be actively involved in the implementation of the project?)

Supporting and enhancing the participation of women.

22. CAPACITY TO IMPLEMENT: (Does the Ministry have the skills and experience required to implement the project?)

The Ministry of Post and Telecommunications qualified and experienced enough.

23. STATUS OF PROJECT IMPLEMENTATION: (Provide a brief update on the progress of the project to date. Discuss any major problems causing delays in project implementation.)

Is seeking investment partners

24. PROJECT PRIORITY: (Please indicates the priority ranking of the project decided by the ministry/agency.)

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25. DONOR INVOLVEMENT: (Provide any information on current or potential donor involvement in the project.)

Negotiations with HUAWEI and other banks.

PART B : PROJECT COSTS AND FUNDING SOURCES
(In US\$'000)

INVESTMENT COST	2023		2024 Budget	2025 Estimate	2026 Estimate	2027 Estimate	3yr Total 2025-2027	Recurrent Cost Est.
	Budget	Actual						
Operational Expenditure	0.0	0.0	0.0	940.0	940.0	940.0	2,820.0	0.0
Salaries	0.0	0.0	0.0	480.0	480.0	480.0	1,440.0	0.0
Materials + Admin	0.0	0.0	0.0	260.0	260.0	260.0	780.0	0.0
Other	0.0	0.0	0.0	200.0	200.0	200.0	600.0	0.0
Capital Expenditure	0.0	0.0	0.0	16,600.0	16,600.0	18,980.0	52,180.0	0.0
Construction	0.0	0.0	0.0	16,000.0	16,000.0	18,000.0	50,000.0	0.0
Consultancy (i.e. TA) + Admin	0.0	0.0	0.0	200.0	200.0	200.0	600.0	0.0
Equipment+ Furniture	0.0	0.0	0.0	200.0	200.0	480.0	880.0	0.0
Training	0.0	0.0	0.0	100.0	100.0	200.0	400.0	0.0
Other	0.0	0.0	0.0	100.0	100.0	100.0	300.0	0.0
TOTAL COST	0.0	0.0	0.0	17,540.0	17,540.0	19,920.0	55,000.0	0.0
FUNDING SOURCES	2023		2024 Budget	2025 Estimate	2026 Estimate	2027 Estimate	3yr Total 2025-2027	
	Budget	Actual						
Project Revenue	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Government Funding	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Cash Input	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Other Resources	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Donor Funding								
TOTAL COMMITTED FUNDING	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
FUNDING REQUIRED	0.0	0.0	0.0	17,540.0	17,540.0	19,920.0	55,000.0	
(Total Cost - Funding Available)								

**Seen and Approved by
Minister**

(Signature)

Date :