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- Fact about Actors and Project
- Contract and Negotiation
- Design stage
- Production stage
- Experience and Conclusion



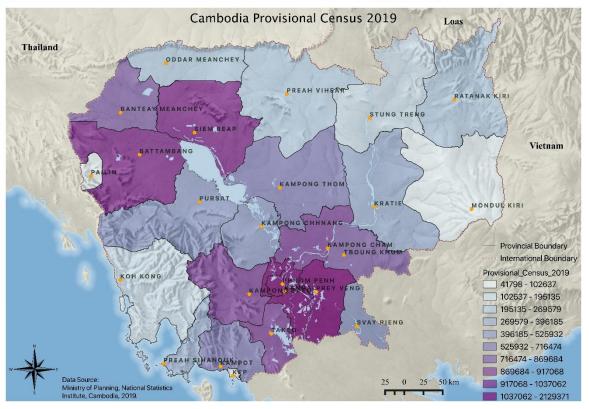
Summary

Cambodia

- The current population of **Cambodia** is **16,781,213** as of Friday, October 9, 2020.
- Cambodia population is equivalent to 0.21% of the total world population.
- Cambodia ranks number 71 in the list of <u>countries (and dependencies)</u> by <u>population</u>.
- The population density in Cambodia is 95 per Km² (245 people per mi²).
- The total land area is 181,035 Km2 (68,155 sq. miles)
- 24.2 % of the population is urban (4,050,459 people in 2020)
- The median age in Cambodia is 25.6 years.

Summary

Cambodia





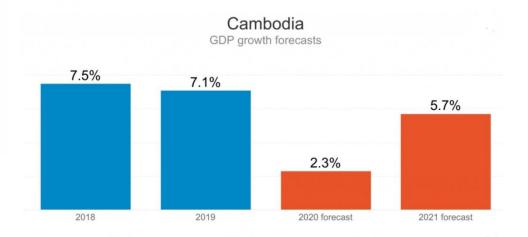




Summary

Economic

After two decades of strong performance, Cambodia's economic growth is expected to drop to 2.3% in 2020. This is due to the new coronavirus disease (COVID-19) pandemic, the resulting economic slowdown in the major advanced economies and the People's Republic of China, and the country's reduced access to export markets.



Source: Asian Development Bank. Asian Development Outlook 2020 (April 2020)



Summary Construction sector

The construction industry has boomed in Cambodia. From 2000 to November 2019, Cambodia's Ministry of Land Management, Urban Planning and Construction approved 60,136 construction projects representing an estimated investment capital of more than US\$60.3 billion.

- In 2018 there were 2,867 approved construction projects with a total value of US\$5.2 billion, a drop from the 3,052 projects worth US\$6.4 billion in 2017.
- Nowadays Cambodia has 1,125 Construction Company

Summary Construction sector









Construction Management in Cambodia



Introduction

Rectangular strategy of Cambodia governmen



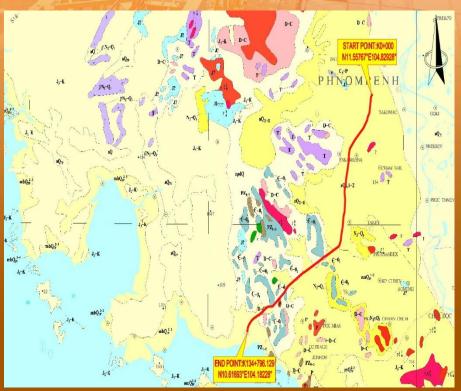
The construction and Rehabilitation of Cambodia are standing in second choice Government strategies.

Fact about the actors and the project

Project Information: Improving National Road number 3



Fact about the actors and the project



Project Information: Improving National Road number 3

Client: Ministry of Public Works and Transport.

Total Length : <u>134.826</u> km

Total Bridges : 13bridges= <u>583.92</u> m

Overpass bridge: 2 Number

Total box culverts: <u>17</u> Number

Total pipe culverts: 91 Number

Consultant: Guangzhou Wanan Construction

Supervision Co. Ltd

Contractor: China Road and Bridge Corporation

Commencement: 17 October, 2018

Contract Period: 48 months

Completion date: <u>17 October, 2022</u>

Contract Amount: \$215,388,000.00



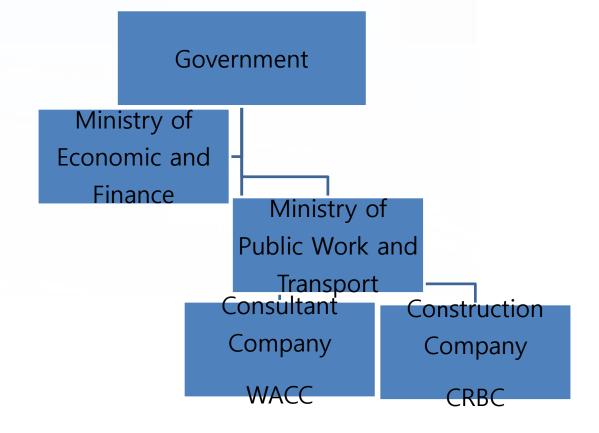
project- The Actors

The Actors involved in the project are:

- The Ministry of Public Work and Transport of Cambodia is the main Actor of project:
 - -Technical
 - -Resettlement
 - -Budget controlling
 - Reports to Government and Ministry of Economic and Finance
- The Ministry of Economic and Finance:
 - -Budget approving
 - -Resettlement
 - -Budget Controlling

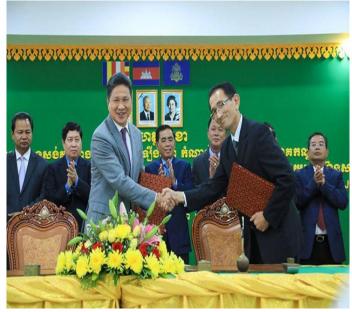


Fact about the actors and the project



Contract and Negotiation





The Ministry of Economic and Finance and Ministry of Public Work and Transport sign to get Fund from the Government of China for this project.

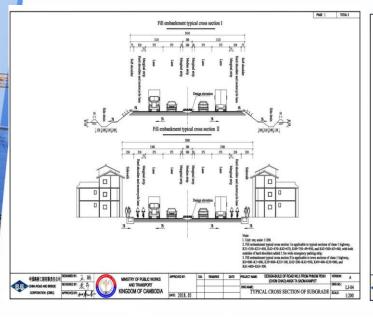


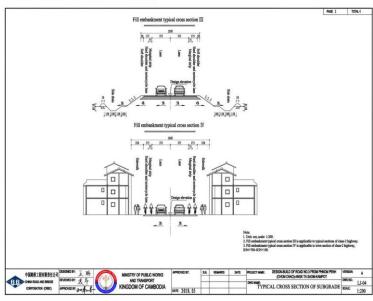
Contract and Negotiation



Ministry of Public Work and Transport that is the main Actor of the project to choose Consultant and Construction Company.

Design Stage

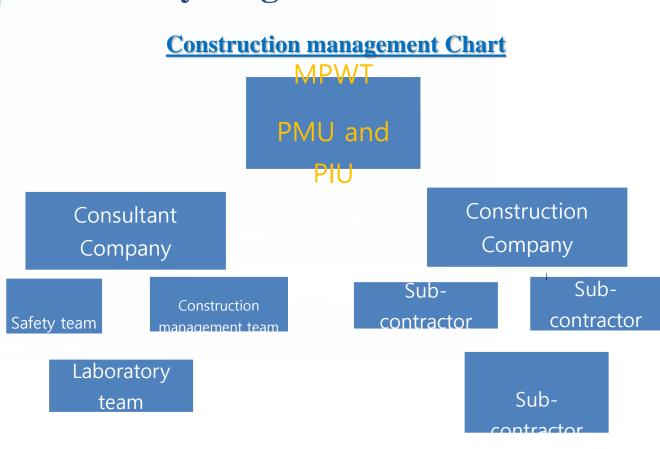




The project presented in this presentation is Design by Guang Zhou Wanan Consultant Company that is Main Consultant company of Project.

Construction Management in Cambodia







Site Construction Managerment

- 1) Resettlement and solution
- 2) Earthwork
- 3) Sub-grad, Sub-Base and Base Course
- 4) Pavement Works (Asphalt Concrete 10cm)
- 5) Structures (Bridge, Pipe Culvert and Overpass bridge)
- 6) Retaining wall and Slope Protection
- 7) Security
- B) Unacceptable work
- 9) Climate Change

Site Construction Management





Resettlement and Solutions







Laboratory Checking

Material Keeping







Base-Course Work Checking

Structure Checking







Qualities and Quantities Checking







Unacceptable work





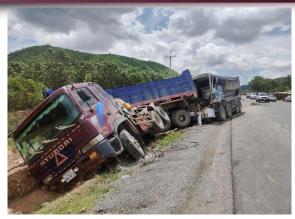
Unacceptable work



Accidents











Climate change



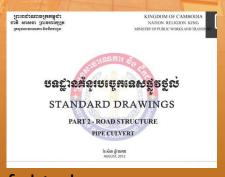


















https://www.mef.gov.kh/gfs.html

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file:///C:/Users/thorn/Downloads/rectangular%20strategy%20phase%204_SEP%202018_EN.pdf

https://www.mpwt.gov.kh/kh/public-works/road-infrastructure

https://www.mpwt.gov.kh/kh/home

Experience and Conclusion

The ability of all actors involved in the project in performing their tasks which refers to the quality of project design, production planning, budgeting, working procedure and management method can be seen starkly after production stage. This ability is assessed based on deficiencies in their performance which always happen at different levels, some of which could be high (serious)and some could be low (neglected). Therefore, the following ideas shall contribute to lower this deficiency level in order to achieve successfully the project goal which relates to the quality, cost, time, and safety of the final product:

- The project manager, the site manager, and the consultant are the key persons to be competent, they must have sufficient knowledge in both of technical and managerial skills which allow them to work closely in an efficient way.
- The meeting attended by involved actors should be held regularly at the site, because it would allow co-ordination problems to be resolved and could be very effective means of putting pressure on any whose performance in the recent past has been unsatisfactory.

Experience and Conclusion

- An emphasis should be put on the arrangement of professional training for manpower development to both of consulting firm and construction company which enables their personnel to have sufficient theoretical and practical knowledge in their field of responsibility. This training is intended to be intensive and realistic which responds to the market demand in construction industry of the country. The safety remains an important aspect among others.
- Introduction of scientific, advanced tools of modern information technology such as special software for production planning, economic control, and budgeting process is very important, and it must be encouraged to use it. Although expensive, these tools would contribute to a more effective and more efficient work which will generate a lot of resource saving.

