

PROJECT INFORMATION SHEET

PIP No :

659

(To be allocated by MOP)

PART A : BASIC PROJECT INFORMATION

(Must be completed in all cases)

1. PROJECT NAME: **R & D of Cambodia Natural Fiber Composite for Industrial Application**
2. PROJECT DATES:
- PROJECT START: **1/1/2017**
- ESTIMATED COMPLETION: **12/31/2019**
3. TOTAL PROJECT COST: **\$51,000**
4. RESPONSIBLE MINISTRY: **Ministry of Agriculture, Forestry and Fisheries**
- RESPONSIBLE UNIT: **Forestry Administration**
- អង្គភាពទទួលខុសត្រូវ: **រដ្ឋបាលព្រៃឈើ**
5. PROJECT STATUS: **Completed**

DETAILED PROJECT INFORMATION

6. TYPE OF PROJECT: **Free-standing technical assistance**
7. SOURCE OF PROJECT FUNDING: **Grant**
8. THE POLICY AREA OF THE PENTAGON STRATEGY PHASE I THAT THIS PROJECT FALLS UNDER:V
Side 2. Promotion of Micro, Small, and Medium Enterprises, Startups, Entrepreneurship, and Development of Informal Economy
9. THE CONTRIBUTION OF THE PROJECT TO ACHIEVE THE ABOVE POLICY:
Implement the experiment of natural fiber plant materials for industrial application in Cambodia.
10. SUPPORT TO CAMBODIA INDUSTRIAL DEVELOPEMENT POLICY:
Does this Project support to the implementation of the Cambodia Industrial Development Policy? **No**
11. SECTOR:
Environment and Conservation (includes Forestry sector) Forestry Sector
12. PROJECT LOCATION: (Describe the location of the project and its components.)
Phnom Penh,
13. PROJECT OBJECTIVE: (Describe the major purpose of the project.)
The specific objectives are to:
1. Identify species of plants that can provide natural fiber for producing the wood composite materials
2. build technical capacity and train the researchers for the development of wood composite technologies and materials
3. Develop wood composite materials to meet the local demand and needs.
14. PROJECT DESCRIPTION: (Provide a description of the project and all its components.)
This project funded by KIMS covering the period from 2017 to 2019. The project focus on identifying species of plants that can provide natural fiber for producing the wood composite materials; building technical capacity and train the IRD researchers for the development of wood composite technologies and materials and developing the testing of the wood composite materials to meet the local demand and needs.
15. PROJECT JUSTIFICATION: (Give reasons why this particular project is considered worthwhile.)

Wood product development technology is relatively new to Cambodia. Almost all wood composite products were imported from neighbouring countries like Vietnam, Thailand, and China and sometime from some Europe countries. These wood composite products are including, but not limit to, flooring, office tray, boards, kitchenware, etc.

Raw materials for producing wood composites are available in Cambodia and with advanced technologies, local small scale enterprises can start new business in producing the wood composite materials as industrial application needed to supply to the local markets, especially, in terms of roofs, floors, boards, trench drain grating cover, manhole cover, boat, rain water collector tank, ground fridge, etc. This would contribute to build national economy and its local livelihood development. Once there is a demand of natural fiber from these enterprises, local communities would have new opportunities in generating more incomes from planting wood species in their home garden and community forests.

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

Local People and government staff

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?)

This project has no impact on the social and environment.

19. CLIMATE CHANGE

a. Is any activity or output of the project related to Climate Change? **Yes**

If Yes, please indicate **Mitigation**

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 **Mitigation**

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?)

The project will engage young female government researcher in the research and experiment of the natural fiber composite materials.

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

The ministry does not have enough skill.

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.)

TThe project started in 2017 and has achieved considerable results in its 1st year including:

- 1. Kick of meeting organized in Korea.**
- 2. Status assessment of the natural fiber plants species conducted**
- 3. 2 IRD staffs trained on fiber composite materials development in Korea.**
- 4. Necessary testing materials procured.**

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.)

The project is funded by Korea Institute of Materials Science (KIMS). KIMS senior researcher provided coaching and mentoring to IRD research staffs on composite materials development. Yearly, KIMS senior researcher conducted monitoring and mentoring visit to IRD in Cambodia.

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

INVESTMENT COST	2018		2019 Budget	2020 Estimate	2021 Estimate	2022 Estimate	3yr Total 2020-2022	Recurrent Cost Est.
	Budget	Actual						
Operational Expenditure	23.8	0.0	17.0	0.0	0.0	0.0	0.0	0.0
Salaries	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Materials + Admin	23.8	0.0	17.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Capital Expenditure	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Consultancy (i.e. TA) + Admin	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Equipment+ Furniture	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Training	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL COST	23.8	0.0	17.0	0.0	0.0	0.0	0.0	0.0
FUNDING SOURCES	2018		2019 Budget	2020 Estimate	2021 Estimate	2022 Estimate	3yr Total 2020-2022	
	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	23.8	0.0	17.0	0.0	0.0	0.0	0.0	
Republic of Korea	23.8	0.0	17.0	0.0	0.0	0.0	0.0	
TOTAL COMMITTED FUNDING	23.8	0.0	17.0	0.0	0.0	0.0	0.0	
FUNDING REQUIRED	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
(Total Cost - Funding Available)								

**Seen and Approved by
Minister**

(Signature)

Date :