

# Pakistan CTCN Support Project

## Participating Organization Meeting in Korea

2023.05.17.(Wed)

### Summary of support project

- Establishment of plan according to UN CTCN Cooperation Office's review of technical support for Pakistan \*
- \* ` 22.06.24. Submission of technical support request for Pakistan, Ministry of Climate Change
  - ` 22.07.25 UN CTCN Cooperation Liaison Office (PALO) Possible to review application to KICT Inquiry
- (Project name) Adoption of Green buildings in Pakistan to achieve Pakistan's Nationally Determined Contribution
- (Subsidy and schedule) USD 250,000, January 2023. ~ 2024.6.30. (18 months)

### Pakistan technical support request details \*

\* CTCN Technical Assistance (TA) – Request submission form

#### 1. Review of building composition and related standards in Pakistan

- 1.1 Review of existing technology levels for public-based commercial, office, and residential buildings
- 1.2 Analysis of the current state of economy, technology and human resources
- 1.3 Review of environmental laws (policies, institutions, regulations and cooperation systems, etc.)
- 1.4 International Best Practice Survey
- 1.5 Analysis of differences and suggestions for future improvement

#### 2. Preparation of green building standards and effective operation plan

- 2.1 Development of policy guidelines and standards, including technical improvements and legal support
- 2.2 MV&E Framework Proposal
- 2.3 User Manual Development
- 2.4 Development of educational programs

### 3. Development of economic mechanisms applicable to the current construction market

3.1 Discovery of economic model and operating mechanism for green building transition

3.2 Analysis of economic effects through the application of optimal economic models and mechanisms

3.3 Establish final economic mechanisms and future operational considerations

## **Technical support agreement details \***

\* Project cooperation agreement – Annex A – Part A – Implementation Plan

○ (Prepare a roadmap for task performance and operate TC) Prepare a roadmap for task performance, organize and operate TC, conduct continuous monitoring and report interim/results \*

\* Output 1 Development of implementation planning and communication documents

\* Output 2 Introduction of project coordination mechanism

○ (Review of regulations) Prepare measures to improve Pakistani technologies and standards by reviewing the current status of Pakistan-related standards and reviewing international cases and technology levels \*

\* Output 3 Assessment of building groups and regulations in Pakistan and diagnosis of technological needs

\* Output 4 Development of green building standards

○ (Standard development and implementation) Develop Pakistani green building standards and policy drafts, conduct public hearings, prepare frameworks and training programs for future implementation \*

\* Output 5 Development of effective mechanisms and tools for the implementation of building standards

○ (Proposal for operation plan) Proposal for future economic support and financing mechanism \*

\* Output 6 Development of financing mechanisms to implement green building standards in existing government buildings

## Participating organizations and roles

- KICT: Research director, Pakistan green building certification system and education program preparation
  - \* Preparation of Outputs 1, 2, 4, 5 and management of other outputs
- KIEA: Comparative review of the current status of Pakistan and international best practices
  - \* Prepare Output 3, 4, 5
- LabQ : Prepare MV&E, user manual, and economic mechanism
  - \* Prepare Output 5, 6
- Sphero PCM: Pakistani existing system and technology related data support
  - \* Output 3 Pakistan Status Data
- Green Growth Consultants (GGC): Organize and operate a local expert group
  - \* Based on Output 2, 3~6 data review and support

## Closing schedule and responsible agency for each major task

1. Preparation of implementation plans and communication documents – action plans related to CTCN technical support

	detail	deadline	Institution in charge
1	Developing activities, deliverables, deadlines, responsible person, organization, budget, detailed work plan and budget for support	23.1.31	KICT
2	Establishment of monitoring and evaluation plans for implementation tasks, clarification of CTCN termination and report completion date	23.1.31	
3	CTCN Impact Statement Creation of Initial Planning Report	23.1.31	
4	CTCN Impact Statement Final Results Report Creation	24.6.30	
5	Completion of task and submission of final report	24.6.30	

2. Organize project implementation and review TC

	detail	deadline	Institution in charge
1	Organize relevant stakeholders and configure overall mapping	23.6.30	GGC (review of data from related institutions and feedback)
2	Conduct kick-off meetings	23.6.30	
3	Quarterly Expert Meeting	23.6.30 23.12.31 24.5.31	

### 3. Review of Regulations and Technical Improvements in Buildings in Pakistan

	detail	deadline	Institution in charge
1	Pakistan building status review (residential/business/commercial)	23.6.30	KIEA KICT cooperation
2	International Best Practices and Technology Review	23.10.31	
3	Pakistan technology and standard level and future improvement plans	23.12.31	

### 4. Development of green standards

	detail	deadline	Institution in charge
1	Development of Draft Green Building Standards and Policy Guidelines for Pakistan	23.12.31	KICT KIEA Cooperation
2	Conducting public consultation process - Pakistani government and related organizations, public hearings with experts	24.2.28	
3	Confirmation of final green building standards and guidelines	24.3.31	

5. Development of mechanisms and tools for the implementation of building standards

	detail	deadline	Institution in charge
1	MV&E framework development	24.3.31	KICT/LabQ
2	User manual development	24.5.31	
3	Education Program Proposal	24.6.30	

6. Proposal of economic support and financing mechanism

	detail	deadline	Institution in charge
1	Suggested funding mechanism	24.6.30	LabQ