Problems of landfill in developing countries (LDCs)

Under the anaerobic landfill type

- Fire risk by methane gas generation
- **➤** Worsening of the living condition by the leachate and odor.
- > Collapsed Landfill from inappropriate management
- Lack of Money and Technology





Required the application of sustainable management technology for wastes landfill

Status of supporting technology to LDCs

(At present: the technology in developed countries)

⇒Difficult to maintain the landfill operation because of lacking the money and technology

[In future: Fukuoka method]

⇒Improving sustainability through construction by using simple technology, local materials and management by local staff



Objective of Research

- **★**Promotion of JCM projects with the realization of methane gas reduction by region.
- ⟨F International contribution with landfill technology (CDM technology: AC0093) developed in Fukuoka University
 - Verification of the reduction effect by the modeled landfill with Fukuoka method.
 - Updating the default value of MCF(Methane Correction Factor) in IPCC guideline,

Example of reduction effect of GHGs emission by Fukuoka method in Asian region

★ The MCF(0.5) of semi-aerobic landfill was determined based on the experimental data of Fukuoka University

