

FS on introduction waste management technology (2021)

Project name : “Feasibility Study on Product of Recycled Aggregate/Base-Course material and High-performance modified Asphalt (AC) using AC, Concrete and Plastic waste”

1.FS implementation company

(Project developer)

IKEE Co., Ltd

Joint venture with Furukawa

(Cambodia) Co., Ltd. &

QSC Consultant Co., Ltd.

2.Country and Waste types

(Year for FS implementation)

2021

(Country)

Cambodia

(Waste types)

Asphalt (AC)·Concrete waste and Waste plastic (polypropylene type, Ex. PET bottle cap)

3.Planned project outline

(Technology)

Utilization of recycled aggregate from AC / concrete waste for base course material/new AC and production of modified AC using waste plastic as a modifier

(Project description)

Product of Recycled Aggregate/Base-Course material and High-performance modified Asphalt (AC) using AC, Concrete and Plastic waste

(Project implementation formation)

Fund for Facility : Grant aid for business and operating rights scheme from Japan

Providing a collection site for AC / concrete waste : MPWT

Providing technology : IKEE and Furukawa

Operation Special Purpose Company (SPC)

Technical assistant : JICA TCP

(Impact of reducing environmental burden)

It is possible for this recycling plant to reduce CO2 emissions comparing with the new production of components that are originally required

Amount of reduction for CO2 (58,283tCO2/year) =

Emission of conventional product (86,461tCO2/year)

- Emission of recycled product (28,178tCO2/year)

(General picture of this project)

Business model for Recycling of Asphalt and Concrete Waste

