2019

GSP Research





GRANTS AND SPONSORED RESEARCH PROJECTS

Initiated Projects

AIT Testing and Demonstration Laboratory

Duration: 1 April - 30 December 2019

Investigator: Prof. Thammarat Koottatep

Sponsor: AIT Testing and

Demonstration Laboratory

Amount: Baht 577,089.92

Assistance with regard to execution of Climate Change Vulnerability Assessment Development of Energy-Climate and Change Action Plan in far North of Cameroon

Duration:

Investigator: 1 April 2019 - 31 December 2019

Sponsor: Dr. Oleg Shipin

Amount: CTCN-PCA

Baht 190,800 Biogeo-

chemical

changes and adaptation mechanisms in response to anthropogenic impacts in watersheds: A comparative study between Jiulong River (China) and Chao Phraya River (Thailand), 2nd year

Duration:

Amount:

22 January 2019 - 30 June 2020

Investigator: Prof. Thammarat Koottatep, Dr.

Wenchao Xue, Prof. Rajendra P.

Shrestha

Sponsor: The National Research Council

> of Thailand (NRCT) Baht 1.957,000

Development of a database of technology/ policy measures and best practices to support the achievement of the SDG7 targets

Duration:

September 2019 - February 2020

Investigator: Prof. S. Kumar

Sponsor: UN-ESCAP

Amount: Baht 770,280

MEA-AIT Academic Cooperative Program

Duration: 1 January 2019 – 31 December 2022

Investigator: Prof. Weerakorn Ongsakul

Sponsor: Metropolitan Electricity Authority

(MEA)

Amount: Baht 22,043,144

Production of High Value Bio-products from Innovative Algal Bioreactor treating Domestic Wastewater

Duration: 1 July 2019 – 30 June 2022

Investigator: Prof. Thammarat Koottatep

Sponsor: Bangchak Initiative and Innovation

Center

Amount: Baht 2,810,000

Realizing Smart Cities in ASEAN Region

Duration: 1 June 2019 - 31 July 2020

Investigator: Prof. S. Kumar

Sponsor: ERIA, Indonesia

Amount: Baht 1,373,000

GRANTS AND SPONSORED RESEARCH PROJECTS

Initiated Projects

Report on Drinking Water Services and Technologies in Asian Countries – Phase V

Duration: 6 September 2019 – 2 February

2020

Investigator: Prof. Nguyen Thi Kim Oanh

Sponsor: PCD-EI

Amount: Baht 500,000

The Study of Emission Sources of PM_{2.5} and Precursors of Secondary PM_{2.5} in Bangkok Metropolitan Region

Duration:

Investigator: 1 July 2019 - 31 December 2019

Sponsor: Prof. Thammarat Koottatep

Amount: IHT Delft Foundation

Baht 10,278,420

Transfer of Delft Based MSc/GPDP/OLC/ OCC Programme on Non-Sewered Sanitation

Duration:

Investigator:

Sponsor: 1 April 2019 - 30 September 2020

Prof. C. Visvanathan

Amount: Japan Water Research Center

(JWRC)

Baht 104,400

Treatment of Domestic Wastewater using Pilot-Scale Membrane Aerated Biofilm Reactor (MABR)

Duration: 1 July - 30 December 2020

Investigator: Prof. C. Visvanathan

Sponsor: Mitsubishi Chemical Co., Ltd.

Amount: Baht 423,630

Two-Stage Up-flow Solar Septic Tank

Duration:

Investigator: 1 May 2019 - 30 April 2022

Sponsor: Prof. Thammarat Koottatep

Bangchak Initiative and

Amount: Innovation Center

Baht 2,694,000

Ongoing Projects

Mastering Energy Supply focusing on Isolated Areas (MESFIA)

Duration: 15 November 2018 – 14

November 2021

Investigator: Prof. S. Dhakal, Prof. S.

Kumar, and Dr. J.G. Singh

Sponsor: European Union/Erasmus +

Amount: Baht 345,6588.38

Ongoing Projects

Master on New Technologies Using Services

Duration: November 2018 – November 2021

Investigator: Prof. Nguyen Thi Kim Oanh

Sponsor: Engineering and Physical Sciences

Research Council (EPSCR GCRF)

Amount: Baht 1,570,977

Optimizing Decentralized Low-cost Wastewater Infrastructure by Managing the Microbes

Duration: 1 May 2017 – 30 April 2020

Investigator: Prof. Thammarat Koottatep

Sponsor: Engineering and Physical Sciences

Research Council (EPSCR GCRF)

Amount: Baht 12,616,798.50

Provincial Electricity Authority (PEA) – AIT Scholarship Program

Duration: 15 February 2016 – 14 February

2020

Investigator: Prof. Weerakorn Ongsakul

Sponsor: Provincial Electricity Authority

(PEA)

Amount: Baht 20,212,000

Technology Needs Assessment Phase 3 – Technical

Duration: 1 June 2018 – 31 May 2021

Investigator: Dr. P. Abdul Salam, Prof. S.

Kumar, and Prof. Rajendra P.

Shrestha

Sponsor: UNEP-DTU, Denmark

Amount: Baht 1,267,200

Completed Projects

AIT BORDA Collaboration

Duration: 1 January 2017 – 30 December

2019

Investigator: Prof. Thammarat Koottatep

Sponsor: Berman Overseas Research

Association

Amount: Baht 5,550,000

GRANTS AND SPONSORED RESEARCH PROJECTS

Completed Projects

Biofuel Production from Innovative Algal Bioreactor Treating Domestic Wastewater

Duration: 2 January 2018 – 31 December

2019

Investigator: Prof. Thammarat Koottatep

Sponsor: Bangchak Initiative and

Innovation Centre at AIT

Amount: Baht 2,000,000

Capacity Building Activities of the Asia Pacific Clean Air Partnership (APCAP)

Duration: 12 July 2018 – 31 January 2019

Investigator: Prof. Nuyen Thi Kim Oanh

Sponsor: United Nations Environment

Programme (UNEP)

Amount: Baht 2,691,100

CTCN Incubator Programme for Implementation of Nationally Determined Contributions in Timor-Leste

Duration: 1 September 2018 – 31 July 2019

Investigator: Dr. P. Abdul Salam, and

Prof. Mukand S. Babel

Sponsor: CTCN

Amount: Baht 7,44,352

Exposure Visit for Resource Recovery option of Faecal Sludge Management (FSM) Value Chain

Duration: 1 May 2018 – 31 December 2018

Investigator: Prof. Thammarat Koottatep

Sponsor: SNV Asia Bangladesh

Amount: Baht 787,072

Effective Faecal Sludge Planning to Minimize Environmental Pollution and protect Public Health

Duration:

Investigator: 1 August 2018 – 31 December 2019

Sponsor: Prof. Thammarat Koottatep

Amount: The Thailand Research Fund (TRF)

Baht 5,267,640

Evidence –

based policies for the Sustainability use of Energy Resources in the Asia – Pacific Region

Duration:

Investigator: 1 November 2018 – 31 July 2019

Prof. S. Dhakal, Prof. S. Kumar,

Sponsor: and Dr. Ekbordin Winijkul

Amount: UN ESCAP

Baht 1,830,576

Completed Projects

Effects of Climate Change and Variability on Community Vulnerability and Exposure to Dengue in South East Asia (DENCLIM)

Duration:

1 January 2018 - 31 December 2019

Investigator:

Dr. Oleg Shipin

Sponsor:

Research Council of Norway

Amount:

Baht 3,678,400

Faecal Sludge Management Toolbox Optimisation

Duration: 1 June 2018 – 31 December 2018

Investigator: Prof. Thammarat Koottatep

Sponsor: Athena Infonomics LLC.

Amount: Baht 2,143,384

Forwarded Osmosis for Nutrient Recovery from Black Water

Duration: 1 August 2018 – 31 January 2019

Investigator: Dr. Wenchao Xue

Sponsor: AIT Research Initiation

Amount: Baht 50,000

ICUE 2018 – Green Energy for Sustainable Development

Duration: 1 October 2017 – 31 March 2019

Investigator: Dr. Jai Govind Singh, Dr. P.

Abdul Salam, Prof. S. Dhakal,

Prof. S. Kumar, and

Prof. Weerakorn Ongsakul

Sponsor: ICUE 2018

Amount: Baht 1,753,830.63

Innovative Toilet City: From Reinventing to Realization at Scale

Duration: 1 September 2016 – 28 February

2019

Investigator: Prof. Thammarat Koottatep

Sponsor: The Thailand Research Fund

(TRF)

Amount: Baht 5,044,150

Knowledge and Innovation Support for Asian Development Bank's Water Financing Program

Duration: 17 July 2017 – 31 March 2019

Investigator: Prof. Thammarat Koottatep

Sponsor: Asian Development Bank (ADB)

Amount: Baht 2,038,634

GRANTS AND SPONSORED RESEARCH PROJECTS

Completed Projects

Reduced Agrochemicals and Local Food Chain GHG Emissions through Organic Farming and Smart Factories in Thailand

Duration:

4 December 2018 - 31 March

2019

Investigator:

Dr. Ekbordin Winijkul

Sponsor:

United Nations Industrial Development

Organization (UNIDO)

Amount:

Baht 300,000

Reports on Drinking Water Services and Technologies in Asian Countries-Phase IV

Duration:

1 April 2018 – 30 September 2019

Investigator: Prof. C. Visvanathan

Sponsor:

Japan Water Research Centre

(JWRC)

Amount:

Baht 144,000

Retscreen Expert - Trainer

Duration:

1 March 2018 - 1 December

2018

Investigator: Prof. S. Kumar

Sponsor:

Canmet Energy, Canada

Amount:

Baht 120,000

Standard Methods for the Analysis of Faecal Sludge

Duration:

30 June 2017 - 31 December

2018

Investigator:

Prof. Thammarat Koottatep

Sponsor:

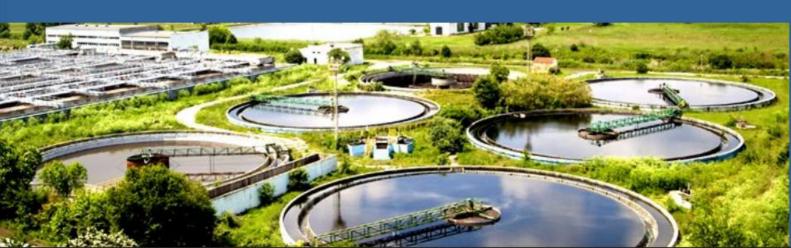
University of KwaZulu –

Natal (UKZN) – BMGF

Grant

Amount:

Baht 1,400,000



Short Term Actions 2017, BMGF Project 106990

Duration: 22 November 2017 – 31

December 2018

Investigator: Prof. Thammarat Koottatep

Sponsor: Subgrant from UNESCO IHE

- BMGF Grant

Amount: Baht 954,094

Technical Assistance for Technology transfer and commercialization support of the AIT Toilet Innovations

Duration: 7 November 2017 – 30 April

2019

Investigator: Prof. Thammarat Koottatep

Sponsor: Bill and Melinda Gates

Foundation

Amount: Baht 51,283,398.95

Technology Needs Assessment Phase 3 – Capacity Building Workshop

Duration: 1 January 2019 – 31 April 2019

Investigator: Dr. P. Abdul Salam, Prof. S.

Kumar, and Prof. Rajendra P.

Shrestha

Sponsor: UNEP-DTU, Denmark

Amount: Baht 1,600,000

Toward an Open Resources Upon Services: Cloud Computing of Environmental Data TORUS

Duration: 15 October 2015 – 30 June 2019

Investigator: Prof. Nguyen Thi Kim Oanh

Sponsor: European Union (ERASMUS +

Capacity Building)

Amount: Baht 1,814,296

