

AYERYARWADY RICE HUSK BRIQUETTE PROJECT

1. INVITATION TO BID FOR OWNERS ENGINEER SERVICES

InfraCo Asia Development Pte. Ltd. (“IAD”), ICMAAsia Pte. Ltd. (“ICM”) and Good Neighbors Global Partnership Center (“GNGPC”) invite interested service providers to submit their bids for the provision of owners engineer services for the Ayeryarwady Rice Husk Briquettes Project in Pathein, Myanmar.

The final proposal is required to be submitted by **5:00 p.m. on January 11 2021**, Singapore time (the **Submission Date**). The full Request for Proposal documentation (“RFP”) contains:

- (i) The detailed RFP
- (ii) The detailed Scope of Work
- (iii) Conditions of Contract (General and Particular Conditions)
- (iv) Appendices to the Contract

In order to access the full RFP documentation, interested service providers are to:

(i) express their interest via email to the following recipients:

Ma Htet Htet Lwin – Project Engineer htethtet.lwin@infracapmyanmar.com	Dong Reong Kim – Project Lead drkim@goodneighbors.org
Ma Ngu Wah Hlaing – Senior Community Engagement Manager nguwah@infracapmyanmar.com	Wongi Jo – Project Lead wongijo0531@goodneighbors.org
CC: Georges Sander – Investment Manager georges.sander@infracapmyanmar.com	CC: PRO-0041-MMR-AGR@infracoasia.com

and

(ii) sign a Non-Disclosure Agreement (“NDA”),

2. INTRODUCTION AND BACKGROUND

2.1 Project Company

- (a) Good Briquette Company Limited (“GBCL”) has been incorporated in Myanmar under Registration Number 127086486 as a special purpose company. GBCL is 100% owned by Good Briquette Company Pte. Ltd. incorporated in Singapore under Registration Number 201905026C.
- (b) GBCL (the **Client**) has been formed and incorporated as a holding and joint-venture between the following shareholders:
 - (i) InfraCo Asia Myanmar Rice Husk Briquette Pte Ltd (“IMRH”); and
 - (ii) Good Neighbors Global Partnership Center (“GNGPC”).
- (c) IMRH is a subsidiary of InfraCo Asia Development Pte. Ltd. (“IAD” - www.infracoasia.com), which is in turn a company of the Private Infrastructure Development Group (“PIDG”), whose objective is to encourage private infrastructure investment in developing countries that

contribute to economic growth and poverty reduction. All IAD funds and the funds that IAD invests in IMRH are derived from funds provided by the owners of the PIDG.

- (d) GNGPC is a Domestic Non-profit incorporated in the State of California, United States of America and part of the Good Neighbors Group (<http://www.goodneighbors.org/>).

2.2 Background to the Services

- (a) The Client is developing the [Ayeryarwady Rice Husk Briquettes Project](#) (the **Project**) which is located in Pathein District, Ayeryarwady Division, Myanmar (the **Country**).
- (b) The Client requires provision of appropriate consulting and advisory services to ensure that the Project is planned, designed, constructed and commissioned in accordance with the Client’s requirements and that all necessary steps are undertaken for the successful implementation and operation of the Project.
- (c) The present status of development of the Project is as follows:
 - (i) The land area for the Project has already been acquired by the Client
 - (ii) A fire safety audit and a structural analysis of building-1 has been conducted
 - (iii) A preferred equipment provider has been identified but not contracted.
 - (iv) Relevant market, feedstock and prototyping studies have been conducted.
 - (v) An environmental scoping report (Project Proposal Report) has been drafted by a qualified environmental consultant and is ready for submission to the Myanmar Environmental Conservation Department.
 - (vi) A geotechnical analysis and flood risk analysis is in progress.
- (d) The Client wishes to procure the services of a reputable consulting firm, or joint venture of such firms (the **Consultant**) to provide the services described in Section 4 below (the **Services**).

3. THE PROJECT

- (a) The Project is located approximately **10** km by sealed road from the town of Pathein City, in Myanmar. Pathein is the capital of the [Ayeryarwady Division](#) and located approximately **5 hours** by road from Yangon, the economic capital and the largest city in Myanmar.
- (b) The technical objectives of the Project are:
 - (i) to convert rice husk and other raw materials into a clean cooking fuel (Rice Husk Briquettes) that can be profitably marketed to low-income consumers in Myanmar.
 - (ii) the development, construction, and operation of a factory with a rice Husk Briquette production capacity of 15.2 MT/day.
- (c) It is presently proposed that the Project will have the following main characteristics:

Item	Unit	Value
Location coordinates	Latitude Longitude	Pathein District, Ayeryarwady Division, Myanmar 10 km by sealed road from the town of Pathein City Exact Coordinates to be provided upon execution of NDA
Land availability	acres	0.86 acres
Estimated project cost	USD	US\$1.5M to US\$2.5M
Raw material	-	Predominantly rice husk, binding agents, and ignition agents.

Item	Unit	Value
Processing technique	-	Torrefaction and forming of rice husk briquettes.
Proposed output capacity	t/day	15.2 tonnes/per day of rice husk briquettes
Storage method	-	Hopper and/or open piles
Energy requirement	kWh/day	1,700 kWh/day (assuming 9 hours of production)
Water requirement	l/day	To be determined.
Required ancillary facilities (not in place yet)	-	<ul style="list-style-type: none"> - Truck access - Raw material offloading - Raw material storage - Final product storage and handling - Final product storage

4. SCOPE OF SERVICES

1. General

- (a) The objectives of the Services shall be to provide assurance to the Client that the Project is designed and constructed in accordance with the Client's requirements, and is delivered on schedule, within budget, and in accordance with the specifications and desirable quality as per the respective works contract(s), to acceptable health, safety and environmental standards.
- (b) The Services shall be in compliance with the Applicable Laws, the IFC Performance Standards on Environmental and Social Sustainability and related Environmental, Health, and Safety General Guidelines, and the PIDG Health, Safety, Environmental and Social Management System (HSES-MS) Standards (www.pidg.org).
- (c) The Consultant shall carry out the Services in a proactive and comprehensive manner throughout the entire contract period and in close cooperation with the Client.
- (d) All software used in the performance of the Services shall be in compliance with the related licensing requirements for such software.
- (e) The Services shall be divided into the following separate stages of activity in 2 phases:

Phase 1 (Project Viability Validation)

- (i) Basic Engineering Stage:
 - Site Assessment and Key Documents Review
 - Topographical and Survey Assessments
 - Existing Buildings and Infrastructure Condition Assessments
 - Site Layout and Arrangement
 - Permit Requirements
 - Basic Engineering Review Report

Phase 2 (Project Implementation)

- (ii) Detailed Engineering Stage:
 - Process Plant Drawings and Specifications Review
 - Contract Packaging Assessment and Recommendation
 - Site Layout Planning
 - Permits, Licenses and Approvals

- Design Documents and Drawings (for the balance of plant and civil works contract)
 - Detailed Engineering Report
- (iii) Tender Services Stage:
- Tender Documents (for the balance of plant and civil works contract)
 - Tendering, Tender Evaluation and Contract Award Recommendation(s) (for the balance of plant and civil works contract)
 - Contract Documents Preparation, Negotiation and Contract Award (for the balance of plant and civil works contract)
 - Contract Documents Finalization for the process plant supply, installation and commissioning contract
- (iv) Detail Design and Construction Stage:
- Project Administration and Control
 - Permits, Licenses and Approvals
 - Design Review and Approval (for the process plant supply, installation and commissioning contract)
 - Construction and Installation Monitoring and Supervision
 - Testing and Commissioning
 - Taking Over and Completion
 - Defect Liability Period(s)
- (f) The Services shall follow sound management and engineering practices and shall employ technologies and methodologies that are appropriate for the scale of the Project.
- (g) Cost-effective and optimised design solutions shall be paramount to ensure that the implementation cost of the Project is minimised to the fullest extent possible.