

8 November 2021

To : All Applicants

Dear Sir/Mdm,

JTC21T0092 – JURONG ISLAND RENEWABLE ENERGY REQUEST FOR PROPOSAL

CORRIGENDUM NO. 1

1. With reference to the abovementioned RFP, please note that the following pages are superseded:

S/N	Documents	Superseded Page	New Pages	No. of Page
1	Information	INFO/1 - INFO/2	INFO/1 - INFO/2	2

2. Applicants shall note that the Clarification No. 1 is attached as Appendix 1 in this Cover Letter.

Yours faithfully,

Tan Chee Kiat

Director

Future of Buildings & Infrastructure Division

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JURONG ISLAND RENEWABLE ENERGY REQUEST FOR PROPOSAL

QUERIES AND RESPONSES

S/N	Query	Response
1	We noted that applicant shall be led by a private sector company. We would like to check if IHL could participate as Co-PI/Co-I/collaborator for the proposal. Can NUS be the Host Institution for this RFP?	<p>As stated in Clause 1.2 of the information document, IHLs like NUS can be project partners but shall not be the Applicant (also known as project lead/host institution) as this RFP is targeted for industry capability development.</p> <p>If IHLs are involved as project partners, the SME-led / non-SME-led Applicant and IHLs should work closely together on a technology that benefits both parties and eventually be brought into market to benefit the industry.</p>
2	Can the SME applicant allocate part of the proposed budget to IHL partner and include 30% indirect research cost (on top of the direct research cost) to IHL budget portion for this RFP?	<p>Budget allocation shall be negotiated and determined between the Applicant and its project partners. JTC and EMA will not dictate or influence the determination of the budget.</p> <p>JTC and EMA will reimburse the supportable project cost through the Applicant. Please note that SME-led awardees will qualify for up to 70% funding support of the approved project budget, while non-SME-led awardees will qualify for up to 50% of the same.</p>
3	May I check if there is a copy of the T&Cs and Guidelines governing this RFP?	All public information published in relation to the RFP is made available on jirfp.innovation-challenge.sg . Please refer to the documents published on the website.

JURONG ISLAND RENEWABLE ENERGY REQUEST FOR PROPOSAL

INFORMATION

1. INFORMATION

1.1. OBJECTIVE

Jurong Island Renewable Energy RFP is jointly called by the Energy Market Authority (“**EMA**”) and JTC Corporation (“**JTC**”), to: (i) identify innovative research, development and demonstration projects relevant to the energy sector (refer to the Challenge Statements below); and (ii) provide funding support in accordance with the terms of the applicable contract for awarded projects.

- a) Innovative renewable energy (RE) solutions. Potential solutions include but not limited to (i) innovative RE technologies suitable in Singapore’s context; (ii) innovative RE deployment options that tap on existing infrastructure and space on and around Jurong Island (e.g. pipe racks, storage tanks, sea space); and (iii) mobile RE solutions; And (iv) energy conversion technologies (e.g. solar to steam and solar to hydrogen).
- b) Innovative Energy storage systems (ESS). Potential solutions include but not limited to (i) innovative solutions to improve ESS’s energy density, performance, safety and/or land footprint; (ii) innovative ways to utilise ESS in supporting the grid; and.
- c) Innovative low carbon solutions. Potential solutions include but not limited to (i) hydrogen; and (ii) carbon capture, storage, and utilisation (CCSU) technologies, but such technologies are to demonstrate financial sustainability in commercial operation.

1.2. ELIGIBILITY

The Applicant shall be led by a private sector company. Local¹ Small and Medium Enterprise² (SME)-led Applicant can partner other private sector companies, Institute of Higher Learnings (IHLs), Research Institutes (RIs), public sector agencies and/or not-for-profit organisations. For non-local-SME-led Applicant, we encourage local SME(s) to be involved in a substantive and meaningful way.

1.3. FUNDING

The requested funding from EMA and JTC should be reasonably justified. This covers manpower, equipment, software, consumables, testing and certification, consultancy by relevant experts, intellectual property and project related expenses. (Please refer to Annex A for the guide on supportable costs.) All significant expenses should be justified with supporting documentation e.g. quotes.

¹ Local applicants should have ≥ 30% of its ordinary shares held directly or indirectly by Singaporeans/Singapore Permanent Residents. This is determined by the ultimate individual ownership of the applicant

² A SME is defined as having (i) Group Annual Sales Turnover of not more than S\$100 million; or (ii) Group Employment Size of not more than 200 workers.

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INFORMATION

Proposals shall not be funded or be currently considered for funding by other agencies, as detailed in Clause 3.4.

SME-led Applicant will qualify for up to 70% funding support of the approved supportable cost of the project. For non-SME-led Applicant, local SME(s) should be involved in a substantive and meaningful way (e.g. core technology coming from/or co-developed with local SME(s)) and will qualify for up to 50% of the same.

Funding awarded shall not be used to support overseas R&D activities. The project team and R&D activities must be based in Singapore to ensure development of local capabilities.

The project may include research collaborations with local or overseas organisations. However, contracting out the whole or substantial part of the research work is not permitted.

All assets acquired using the funding must be located in Singapore and maintained within the control of the awardee during the duration of the project.

1.4. DURATION

The project duration, including test-bedding, completion of final report and all related project activities, shall be up to two (2) years, with a maximum extension of not exceeding six (6) months. The proposed project schedule must be realistic, allowing sufficient time for the preparation of final report and for the review of project results.

1.5. SELECTION PROCESS

Proposals will be evaluated against the following criteria:

- a) High-technical-merit research and innovation that is novel, internationally competitive, and directly addresses the identified challenge(s);
- b) Economic benefits to Energy and Chemical Sector in terms of capabilities and manpower development and system level benefits to Jurong Island ecosystem;
- c) Strong and clear demonstration of potential commercial viability and advantages of the proposed solution over existing technologies and practices; and
- d) Excellent execution by an experienced research team with a good track record and whose members have the relevant and complementary expertise.

Shortlisted Applicants will be required to present their proposal(s) to a Project Evaluation Panel ("PEP") for further evaluation, in accordance with Clause 2.4.