

Annex A: Application Form for 3rd Joint Challenge Call

3rd JOINT CHALLENGE CALL BY THE BUILDING AND CONSTRUCTION AUTHORITY (BCA) AND ENTERPRISE SINGAPORE (ESG)

Proposed Project Scope

Instructions

Please complete ALL the sections and follow the instructions given. Incomplete submissions will not be accepted. A “NA” or “NIL” response is required for questions that are not applicable or where there is no information available.

Please e-mail the completed proposal to BCA_Challenge_Call@bca.gov.sg by 15 Sep 2020, 1700hrs. All information/data (eg. Product brochures, laboratory/factory test-results, certifications) should be submitted to help convey a better understanding of the product.

Please attach the following with your application:

- (1) ACRA Bizfile
- (2) Latest FY(2019) Management Financial Accounts (including profit and loss, and balance sheets) on the entity and parent-group level
- (3) Corporate Introduction Presentation
- (4) Management team CVs
- (5) Number of full-time employees on the entity and parent-group level
- (6) Percentage of ordinary shares held by individual Singapore citizens or permanent residents, on the entity and parent-group level (in Excel).

Please indicate if this proposal for:

- Building Project A – ALKAFF KAMPUNG MELAYU MOSQUE
- Building Project B – ST JAME POWER STATION
- Building Project C – JTC SUMMIT

(You may select more than one building project).

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PART A: Details of Technology Proposed

1. Technology Name, Brand & Model
2. Key features of technology
3. Origins
4. Research papers/journal publications (please attach)
5. Images/brochures including set up and integration to BMS (please attach)
6. Category:

<input type="checkbox"/> ACMV	<input type="checkbox"/> Envelop and façade system	<input type="checkbox"/> Controls and Operations
<input type="checkbox"/> Lighting	<input type="checkbox"/> Indoor Air Quality	<input type="checkbox"/> Energy Generation and Storage
<input type="checkbox"/> Others (Please specify):		

7. Description of technologies and solutions:
 - a) Describe the technologies proposed and which aspect of the focus area, as highlighted in the building projects is addressed.
 - b) List the benefits this technology has over current best-in-class technology (please identify 3-5 other “best-in-class” technology you are comparing against).
 - c) State explicitly how your technology is considered innovative, taking into consideration the implementation of the technology in Singapore’s tropical climate.
 - d) Is this first of its kind solution to be demonstrated in Singapore? Please share project references if the technology has been deployed in Singapore.
 - e) How do these technologies contribute towards improving the overall building performance (eg. EEI) compared to Green Mark Platinum Buildings as a baseline?
8. Describe how the technology or solution can be demonstrated:
 - a) Describe the objective and expected outcome(s) of the demonstration.
 - b) Describe the procedures to carry out the demonstration:
 - How will the demonstration be set-up/ installed (drawings, if any);
 - Any regulatory issues or challenges;
 - Space requirements, if any (preferred location/type of space)
 - Any other important information (access requirements, etc.)
 - c) Describe how the performance of the technologies and solutions will be verified (with a minimum 12 months of validated performance data).

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PART B: Application of Technology

New development Existing building

Building Types

<input type="checkbox"/> Office	<input type="checkbox"/> Hotel	<input type="checkbox"/> Retail Mall
<input type="checkbox"/> Mixed Development	<input type="checkbox"/> Residential	<input type="checkbox"/> Institutional/ Educational
<input type="checkbox"/> F&B	<input type="checkbox"/> Laboratory	<input type="checkbox"/> Industrial
<input type="checkbox"/> Healthcare	<input type="checkbox"/> Data centre	
<input type="checkbox"/> Others (please specify):		

PART C: Economic Considerations

9. Estimated first cost (eg. \$/unit, \$/sqm)
10. Estimated maintenance & operational cost (\$/unit/year, \$/sqm/year, man-hours savings/year)
11. Estimated lifespan
12. Cost benefit analysis
13. Expected Return on Investment (ROI) and payback
14. Estimated lead time (for procurement)

PART D: Commercial Viability and Business Scalability

15. Describe the size and profile of the addressable market for your solution in Southeast Asia now and in the next 3 years.
16. Describe how your solution can be further developed or enhanced in the next 5-10 years to maintain competitiveness.
17. Describe the profile of Singapore companies you can partner with to further develop, produce, or sell your product overseas.

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18. Describe the resources (e.g. talent, IP, financing) you will require to scale your business in Singapore in the next 3 years.

PART E: Applicant's Details

Company name:		
UEN:		
Address:		
Name & Designation of Contact Person:		
Contact Number:	(Office)	(Mobile)
Email Address:		

19. Have you accepted any forms of public funding previously? If yes, please specify:

Applicant's Name and Designation

Applicant's Signature