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| **BCA-DBS BANK LTD JOINT CHALLENGE CALL FOR GREEN BUILDINGS INNOVATION CLUSTER DEMONSTRATION (GBIC-DEMO)**  **Proposed Project Scope** |

Please complete ALL the sections and follow the instructions given.  Incomplete submissions will not be accepted.

Please e-mail the completed proposal to BCA\_Challenge\_Call@bca.gov.sg by 9 Oct 2019. All information/data (eg. Product brochures, laboratory/factory test-results, certifications) should be submitted to help convey a better understanding of the product.

**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

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| --- | --- | --- |
| □ ACMV | □ Envelop and façade system | □ Controls and Operations |
| □ Lighting | □ Indoor Environmental Quality | □ Energy Generation and Storage |
| □ Others (Please specify): | | |

1. Description of technologies and solutions - in less than 500 words:
2. Describe the technologies proposed and which aspect of the focus area, as highlighted in the Challenge Call document, is addressed.
3. List the benefits this technology has over current best-in-class technology (please identify the “best-in-class” technology you are comparing against)
4. State explicitly how your technology is considered innovative, taking into consideration the implementation of the technology in Singapore’s tropical climate.
5. Is this first of its kind solution to be demonstrated in Singapore? Please share project references if the technology has been deployed in Singapore.
6. How do these technologies contribute towards overall building performance (eg. EEI) compared to Green Mark Platinum Buildings as a baseline?
7. Description of demonstration
8. Describe the objective and expected outcome(s) of the demonstration.
9. 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.)
10. Describe how the performance of the technologies and solutions will be verified (We require a minimum 12 months of validated performance data).

**PART B: Application of Technology**

□ New development

□ Existing building

**Building Types**

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| --- | --- | --- |
| □ Office | □ Hotel | □ Retail Mall |
| □ Mixed Development | □ Residential | □ Institutional/Educational |
| □ F&B | □ Laboratory | □ Industrial |
| □ Healthcare | □ Data centre |  |
| □ Others (please specify): | | |

**PART C: Economic considerations**

1. Estimated first cost (eg. $/unit, $/sqm)
2. Estimated maintenance & operational cost ($/unit/year, $/sqm/year, man-hours savings/year)
3. Estimated lifespan
4. Cost benefit analysis
5. Expected Return on Investment (ROI) and payback
6. Estimated lead time (for procurement)

**PART D – Applicant’s details**

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| **Company name:** | | | |
| **Address:** | | | |
| **Name & Designation of Contact Person:** | | | |
| **Contact Number: (Office) (Mobile)** | | | |
| **Email Address:** | | | |
| **Company profile** | □ **Local SME** | □ **LLC** | □ **MNC** |

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

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Applicant’s Name and Designation Applicant’s Signature