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R&D Programmes Department
Research Group
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Circular to Professional Institutes / Associations

Dear Sir / Madam,

MNDRF CONSTRUCTION PRODUCTIVITY RD&D GRANT CALL FOR DfMA & BIM

Background

1. A Grant Call that is funded by Ministry of National Development Research Fund (MNDRF) for Construction Productivity has been launched on 13 October 2015.
2. This call is open to Institutes of Higher Learning (IHLs), Research Institutes, public sector agencies, private sector companies and not for-profit organisations.
3. Project shall involve researchers from academic or research organisations to collaborate with at least one relevant industry partner, such as technology and solution provider, building owner/developer or consultant.

Scope of Grant Call

Domain A: Design for Manufacturing and Assembly (DfMA)

4. The following are some potential research projects in the area of DfMA:

Steel PPVC:

- a. Development of more effective and easier to apply methods for structural steel PPVC systems to improve corrosion protection and meet EUROCODES for a lifespan beyond 50 years.

- b. Develop guidelines and code of practice to facilitate steel PPVC designs that enable post-construction periodic inspections with less invasive method for maintenance checks and periodic inspections.

Engineered Structural Timber (CLT and Glulam):

- a. To develop knowledge base to promote the use of regional tropical hardwood (e.g. Malaysia and Indonesia) as alternatives to softwood (e.g. spruce) from temperate countries like Austria and Germany.
- b. To develop innovative design details and solutions to enhance termite and/or fire resistance properties for CLT and Glulam to suit local conditions.

Domain B: BIM for Construction Value Chain Integration

- 5. The following are some potential research projects in the area of BIM:
 - a. Development of innovative solution to facilitate EUROCODES-compliant automated precast element designs to improve overall productivity and avoid abortive work.
 - b. Process transformation at pre and post tender stages to maximise BIM collaboration values
 - c. Extending the collected information for facility management

Funding Support

- 6. IHLs, research institutes, public sector agencies and not-for-profit organisations will qualify for up to 100% funding support of approved direct qualifying costs of a project. Private sector companies will qualify for up to 70% of funding support of the approved direct qualifying costs of a project. Only IHLs and not-for-profit entities would be allowed support for indirect costs. These include up to 20% of qualifying costs for overhead costs.
- 7. Proposals should not be funded or be currently considered for funding by other agencies.
- 8. Funding awarded cannot be used to support overseas R&D activities. All funding awarded must be used to carry out the research activities in Singapore unless approved in the grant.
- 9. We expect each project to be valued within a range of S\$300,000 to S\$500,000.00. Project duration should not be more than 2 years.

Application

10. All applicants must send in 2 hard copies and 1 electronic copy of duly signed proposals by 14 December 2015 to the following:

MND Research Fund Secretariat
c/o Building and Construction Authority
R&D Programmes Department
200 Braddell Road
ZEB Level 3
Singapore 579700

11. The full details of the grant call can be found at:
http://www.bca.gov.sg/ResearchInnovation/mndrf_CP.html

12. For more information, please contact:

Ms Ma Khine Wa at ma_khine_wa@bca.gov.sg or

Ms Matilda Kenanga at matilda_kenanga@bca.gov.sg

Thank you.



TAN TIAN CHONG
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