Competition Criteria - INNOVATION

Scoring Rubric for Judging

The categories and criteria are listed below. Each PRESENTER will receive a score in all categories, and the award will be determined with the overall scores. Scoring will be defined as 0-5 scale.

1. **Novelty & Inventiveness - 15**
    i. The inventor/researcher has a clear and deep understanding of the problem related to the invention.
    ii. The idea is clear, innovative and presents a compelling answer to the question "What value will you create and for whom?"
    iii. The idea is new and inventor/researcher has the ability to explain about the differences with other similar technology and competitors.
    iv. The idea and technology is not "obviously" similar with the existing technology or product.
2. **Applicability - 10**
    i. Due diligent - look for evidence that due diligent was carried out prior to the innovation work done.
    ii. Understand the existing application and relevant industries.
    iii. Usefulness in problem solving and its impact to economy/social/environment - specific problem/regional problem/global problem
    iv. Useful to others and applicable as it is may be useful to others with modification/improvement
3. **Product/Technology Readiness - 10**
    i. Completeness/Maturity level of the invention that is measured using standard Technology Readiness Level (TRL) evaluation.
    ii. **Expected TRL for this category is 5/6** which is the PROTOTYPE had been developed and tested in relevant environment. Higher TRL will give extra strength to the invention.
    iii. Product demonstration must be performed physically or virtually and product with excellent demonstration and readiness will get higher mark.
    iv. Invention/Research must at least complete the prototype development and has been tested in relevant environment, physically ready with final specification etc.
    v. Extra document such as Product Guideline, manufacturing details, Failure Mode and Effects Analysis (FMEA), certification from certified bodies and any relevant document will give extra benefit to the judging process.
4. **Research Achievement – Publication, Fund & Talent Development – Total 15**

i. **Publication - 3**

a) The research outcome provides a significant contribution to the body of knowledge.

b) Publication in Cited Journal/International Journal/Referred Journal/local journal/book/magazine/newspaper/technical report/TV appearance

c) Co-joint publication with external partners: academia, research institute, industry, or international institutions.

d) Pamphlets about the product invention available

ii. **Research/Innnovation Fund - 3**

The inventor had received grant/fund for the development of the invention and has the proof of the grant received.

a) Value of grant

b) Type of grant: university, national, industry, international

c) Higher value will get higher mark

iii. **Talent Development - 3**

The inventor/researcher has produced undergraduate, master or PHD students from the invention/research.

a) None
b) Undergraduate and master graduates
c) Undergraduate, master and PhD graduates
d) Requires proof by copy of thesis front page

iv. **Recognition - 6**

a) Received award from any national or international invention or research competition organized by local or international institute of higher education, research institutes, agencies, industries and any related bodies.
b) Received recognition from any relevant parties.
c) Appointed as "subject matter expert, speaker or consultant" for the related invention.

5. Intellectual property - 10

i. The invention has been protected by any type of IP protection such as patent, utility innovation, industrial design, trademark, copyright and other type of IPs.
ii. Protection as patent will give higher mark, however for some cases, with strong justification, relevant type of IPs is also accepted.

6. Industry/Business Partner – 5

i. Any proof of industrial collaboration being made in the development of the product.

ii. Present of the industrial partner during the exhibition will give extra mark

iii. Formal documentation is needed; MoU, MoA, LOA

iv. Proof of involvement of the industry in the product development with clear job scope or roles of each party involved.

7. Commercial potential - 20

i. Market potential/Social benefit - need evidence that market survey/study being carried out, feedback from potential users are available

ii. Potential market size - local/regional/country/global

iii. Technology transfer potential

iv. Product ready to be commercialized anytime after exposition

v. Very niche to the Malaysian and international market

vi. Ready for any related certification

8. Level of Impact - 10

The category of impact that the invention may contribute either to community, industry, environment or others and the size of impact either to very specific target group, national level or international level.

i. Unclear impact will affect to the low mark

ii. Contribute to either community, industry or environment at the very specific target group

iii. Contribute to the improvement of community, industry and environment at the national and international level

9. Presentation and Other Strength - 5

Was the presentation professional and well-practiced? Is there anything else that the presenter has done exceptionally well? Are there any additional strength that can be considered as a value added to the invention?

i. Presenter is not comfortable or is ineffective in presentation skills and/or related skills.
ii. Presenter demonstrates moderate presentation and related skills, and has moderate strength such as LOI, NDA, comprehensive infographic poster etc.
iii. Outstanding presentation with comprehensive infographic poster and product video, and extra value such as MoU, MoA, industrial and community collaboration, very niche area that might contribute to national agenda, certified with any regulatory bodies etc.