**APPLICATION FORM – CONCEPT PAPER**

**LONG TERM RESEARCH GRANT SCHEME-**

**JEJAK SARJANA ULUNG (LRGS-JSU)**

***Skim Geran Penyelidikan Jangka Panjang-***

***Jejak Sarjana Ulung (LRGS-JSU)***

**(Version 1/2021)**

**JABATAN PENDIDIKAN TINGGI KEMENTERIAN PENGAJIAN TINGGI MALAYSIA**

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| **A. Application Details** |
| **A(i). Selected Grant Scheme** | **LRGS-JSU 2021 – CONCEPT PAPER** |
| **A(ii). Title of Proposed Research Project** |  |
| **A(iii). Total Proposed Budget (RM)** |  |
| **A(iv). Keywords** |  |
|  |
| **B. Details of Project Leader** |
| **B(i). Name** |  |
| **B(ii). Nationality** |  |
| **B(iii). IC Number** |  |
| **B(iv). Age** |  |
| **B(v). Position** |  |
| **B(vi). Institution** |  |
| **B(vii). Faculty/Centre** |  |
| **B(viii). Unit/Department** |  |
| **B(ix). Office Phone No.** |  |
| **B(x). Handphone No.** |  |
| **B(xi). E-mail Address** |  |
| **B(xii). Date of First Appointment with this Institution** |  |
| **B(xiii). Type of Service (Permanent/Contract)** |  |
| **B(xiv). Scopus H-Index** |  |
| **B(xv). No. of Citation** |  |
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| **C. Research Information** |
| **C(i). Research Priority Area** |
| **Research Priority Area (Please choose one (1) only):**[ ]  **Physics**[ ]  **Chemistry**[ ]  **Physiology and Medicine**[ ]  **Economic Science**[ ]  **Knowledge and Discovery of Frontiers** |
| **C(ii). Research Domain** |
| **Research Domain** **(Please choose one (1) only):**[ ]  **Pure and Applied Sciences**[ ]  **Technology and Engineering** [ ]  **Clinical and Health Sciences**[ ]  **Social Sciences** [ ]  **Arts and Applied Arts**[ ]  **Natural and Cultural Heritage**[ ]  **Information and Communication Technology** |
| **C(iii). Research Cluster** |
| **Research Cluster (Please choose one (1) only):**[ ]  **Food Safety and Security**[ ]  **Basic Infrastructure**[ ]  **Climate Change and Environment**[ ]  **Health**[ ]  **Education and Knowledgeable Civil Society**[ ]  **National Security**[ ]  **Social and Economic Wellbeing**[ ]  **Frontier Technologies and Advanced Manufacturing** |
| **C(iv). 10-10 Malaysian Science, Technology, Innovation and Economy (MySTIE) – based on 10 Socio-Economic Drivers** |
|  **MySTIE Socio-Economic Driver (Please choose one (1) only):**[ ]  **Energy**[ ]  **Business and Financial Services**[ ]  **Culture, Arts and Tourism**[ ]  **Medical and Healthcare**[ ]  **Smart Technology and Systems (Next Generation Engineering and Manufacturing**[ ]  **Smart Cities and Transportation**[ ]  **Water and Food**[ ]  **Agriculture and Forestry**[ ]  **Education**[ ]  **Environment and Biodiversity** |
| **C(v). Shared Prosperity Vision 2030 (SPV 2030)** |
| **Shared Prosperity Vision (Please choose one (1) only):**[ ]  **Islamic Finance Hub 2.0**[ ]  **Digital Economy**[ ]  **Industrial Revolution 4.0**[ ]  **Content Industry**[ ]  **ASEAN Hub**[ ]  **Halal and Food Hub**[ ]  **Commodity Malaysia 2.0**[ ]  **Logistic, Transportation and Sustainable Mobility**[ ]  **Coastal and Maritime Economy**[ ]  **Centres of Excellence**[ ]  **Renewable Energy**[ ]  **Green Economy**[ ]  **Smart and High Value Agriculture**[ ]  **Advanced and Modern Services**[ ]  **Malaysia Truly Asia** |
| **C(vi). Sustainable Development Goals (SDGs)** |
| **SDG (Please choose one (1) only):**[ ]  **No Poverty**[ ]  **Zero Hunger**[ ]  **Good Health and Well-being**[ ]  **Quality Education**[ ]  **Gender Equality**[ ]  **Clean Water and Sanitation**[ ]  **Affordable and Clean Energy**[ ]  **Decent Work and Economic Growth**[ ]  **Industry, Innovation and Infrastructure**[ ]  **Reduced Inequalities**[ ]  **Sustainable Cities and Communities**[ ]  **Responsible Consumption and Production**[ ]  **Climate Action**[ ]  **Life below Water**[ ]  **Life on Land**[ ]  **Peace, Justice and Strong Institutions**[ ]  **Partnerships for the Goals**[ ]  **Societal Harmony and Happiness** |
| **C(vii). Location of Research** |
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| **Location** |
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| **C(viii). Duration of this Research** |
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| **From** | **1st October 2021** |
| **To** |  |
| **Duration** |  |

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| **C(ix). Mentor / Co-Mentor** |
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| **Name** | **IC/Passport Number** | **Faculty/School/ Centre/Unit/Department**  | **Position** | **Area of Expertise** | **Role****(Mentor/** **Co-Mentor)** |
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| **C(x). Other Researchers (Limited to six (6) project members including Co-Mentor, if any)** |
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| **Name** | **IC Number** | **Faculty/School/ Centre/Unit/Department & Institutions** | **Position** | **Area(s) of Expertise** |
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| **C(xi). Executive Summary of Research Proposal** |
| **(Please include elements of breakthrough research, problem statement, objectives, research methodology, expected output/outcomes/implication, and significance of output from the research project)** |
| **C(xii). Detail Planning** |
| **(a) Research Background** |
| **1. Problem Statement**  |
| **2. Elements of Breakthrough Research**  |
| **3. Literature Reviews**  |
| **(b) References**  |
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| **(c) Objective(s) of the Research**  |
|  |
| **(d) Methodology** |
| **1. Description of Methodology**  |
| (e) Expected Results/Research Output/Benefit |
| 1. **Breakthrough Research/Novel Theories/New Findings/Knowledge**
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| 1. **Impact Statement on Quintuple Helix (please delineate/describe expected research deliverables on Society, Academia, Government, Industry and Environment)**
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| 1. **Research Publications (Number of articles to be published in high-impact journals (Q1 Web of Science (WoS) or Top 1% in Science Citation Index-Expended (SCIE) or Social Science Citation Index (SSCI)). The total number of publications must commensurate with the research scope).**
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| **Total Number of Publications:**

|  |  |  |
| --- | --- | --- |
| **Indexing Body** | **Number of Publications** | **Name of Journal** |
| **Indexed Journal** |
|  **Q1 WoS** |  |  |
|  **SCIE** |  |  |
|  **SSCI** |  |  |

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| 1. **Talent Development (by research)**
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| **Total Number of Postdoctoral (by research):****Total Number of PhD Student(s) (by research):****Remark (if any):** |
| 1. **International Collaborations**
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| 1. **Intellectual Properties (IPs) (if any)**
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| **Total Number of Proposed IPs:**  |

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| **E. Budget** |
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| **Budget Type** | **Description** | **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Grand Total** |
| **11000 – Allowance** |  |  |  |  |  |  |
| **21000 - Travelling and Transportation (40%)** |  |  |  |  |  |  |
| **24000 - Rental** |  |  |  |  |  |  |
| **27000 - Research Materials and Supplies** |  |  |  |  |  |  |
| **28000 - Maintenance and Minor Repair Services** |  |  |  |  |  |  |
| **29000 - Professional Services** |  |  |  |  |  |  |
| **35000 - Accessories and Equipment (40%)** |  |  |  |  |  |  |
| **Grand Total** |  |  |  |  |  |

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| **F(i). Patent Search (describe how your research output shall produce an innovative idea or technology that has the potential to be a solution for stakeholders (community, industry, government etc.) and offers a unique proposition)** |
| ***To identify if the researcher is able to coherently present a compelling argument for his/her proposal in light of the IP landscape and factors identified in the (Yes/No) Section. The answer would reflect an understanding of the applicant’s research advantage and limitations.*** |
| **F(ii). Research Collaborator** |
| * **International Research Laboratories (Collaboration might be in the form of co-authorship, co-researcher or any other significant and relevant collaborations)**
* **International Agency/Organization (Please identify all agencies/organisations collaborating in the project, and describe their role/contribution to the project)**
* **Industrial Linkages (Please identify any industry or end-user group involved in the project, and describe its role/contribution to the project) (if any)**
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| **F(iii). Risk Assessment (Please describe factors that may cause delays in, or prevent implementation of, the project as proposed above; estimate also the degree of risk and delineate whether this is a high risk research)** |
| **Please consider an appropriate approach to working in the current conditions (pandemic, travel ban, social distancing etc.)**

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| **Risk** | **Low** | **Medium** | **High** |
| **1. Technical** |  |  |  |
| **2. Timing** |  |  |  |
| **3. Budget** |  |  |  |

**Description of risk assessment** |
| **G. Declaration**  |
| **I declare that:*** **All details provided in this application are accurate. KPT has the right to reject or to cancel the offer without prior notice if there is any inaccurate information given.**
* **This proposal is not currently considered for any other research grant(s).**
* **The exact proposed work has not been funded through other research grant(s).**
* **Necessary approvals from relevant bodies (i.e.: Ethics Committee) are granted before related research activities commence.**
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| **Name: Signature:****Date:** **Approved By: Signature:****RMC****Date:** |