

**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** | |
| |  | | --- | | **Location** | |  | | |
| **C(viii). Duration of this Research** | |
| |  |  | | --- | --- | | **From** | **1st October 2021** | | **To** |  | | **Duration** |  | | |
| **C(ix). Mentor / Co-Mentor** | |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Name** | **IC/Passport Number** | **Faculty/School/ Centre/Unit/Department** | **Position** | **Area of Expertise** | **Role**  **(Mentor/**  **Co-Mentor)** | |  |  |  |  |  |  | |  |  |  |  |  |  | | |
| **C(x). Other Researchers (Limited to six (6) project members including Co-Mentor, if any)** | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Name** | **IC Number** | **Faculty/School/ Centre/Unit/Department & Institutions** | **Position** | **Area(s) of Expertise** | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | | |
| **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** | |
|  | |
| **(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** | |
| 1. **Impact Statement on Quintuple Helix (please delineate/describe expected research deliverables on Society, Academia, Government, Industry and Environment)** | |
|  | |
| 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).** | |
| **Total Number of Publications:**   |  |  |  | | --- | --- | --- | | **Indexing Body** | **Number of Publications** | **Name of Journal** | | **Indexed Journal** | | **Q1 WoS** |  |  | | **SCIE** |  |  | | **SSCI** |  |  | | |
| 1. **Talent Development (by research)** | |
| **Total Number of Postdoctoral (by research):**  **Total Number of PhD Student(s) (by research):**  **Remark (if any):** | |
| 1. **International Collaborations** | |
|  | |
| 1. **Intellectual Properties (IPs) (if any)** | |
| **Total Number of Proposed IPs:** | |

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| **E. Budget** |
| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **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** | |  |  |  |  |  | |
| **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)** |
| **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.)**   |  |  |  |  | | --- | --- | --- | --- | | **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.** |
| **Name: Signature:**  **Date:**  **Approved By: Signature:**  **RMC**  **Date:** |