### Check list of Research Priority Area

### National Health Challenge Grants

### In case you are applying for National Health Challenge Grants, please write “*YES*” or mark “√” in front of the sub-area pertinent to your proposal

|  |  |  |
| --- | --- | --- |
| **Priority Research Area** | **Sub-Area** | **Sub-Area of your proposal** |
| **Strategies to reduce inappropriate antibiotic prescribing and its impact on AMR in Pakistan.** | Point-of-care diagnostic tests for infectious diseases and rational prescribing of antimicrobials. |  |
| Cost effective interventions to reduce inappropriate antibiotic prescribing |  |
| Shared decision making to address antibiotic prescription |  |
| Extent of self-medication and its impact on antimicrobial resistance |  |
| Behavioral interventions to reduce inappropriate antibiotic prescription by care providers |  |
| **Strategies to mitigate and address health effects of Climate Change in Pakistan.** | Mitigation strategies to avert health challenges of severe weather (injuries, mental health impacts) |  |
| Mitigating the effects of climate change on disease outbreaks (malaria, dengue). |  |
| Air population and health. |  |
| Strategies to reduce the adverse health effects of rising temperature and air pollution in Pakistan. |  |
| Climate change and infectious diseases  Zoonosis (Hantavirus, Rabies), Anthroponoses (measles, TB, and sexually transmitted infections such as HIV, herpes and syphilis). |  |
| Impacts of climate extremes (event driven extremes: droughts, floods) on health. |  |
| **Interventions to improve quality of care and patient safety in public health systems in Pakistan** | Evidence based patient safety interventions and implementation of Safety Policies. |  |
| Innovative strategies to prevent and mitigate errors, medication errors, preventable fatal and nonfatal errors and administration errors. |  |
| Use of technology for integrating the healthcare systems at PHC level. |  |
| Strategies to mitigate healthcare settings related infections. |  |
| Strengthening the rapid response systems. |  |

### Check List of Research Priority Area

### Small Grants

### In case you are applying for Small Grants, please write “*YES*” or mark “√” in front of the sub-area pertinent to your proposal

|  |  |  |
| --- | --- | --- |
| **Priority Research Area** | **Sub- Area** | **Sub-Area of your proposal** |
| **Studies of interventions or innovations in health systems to address post COVID rebuilding in Pakistan.** | Use of Digital technologies, Artificial intelligence, modeling and data in understanding and mitigating direct and indirect health threats related to COVID-19 pandemic |  |
| Strengthening of Primary Healthcare Systems for early diagnosis and management. |  |
| COVID-19 Vaccines; measurement and interventions to improve coverage, response, comparative efficacy and hesitancy. |  |
| Health systems access and specialized care for underserved populations and reducing inequities. |  |
| **Non- Communicable diseases**  (Diabetes, Hypertension, Cancer, CVDs, chronic kidney diseases, Mental health conditions)  These grants will support pilot studies to address and mitigate the burden of non-communicable diseases in Pakistan. Studies with the potential of scaling up will be preferred. | Innovative strategies and technologies for risk reduction and early diagnosis at individual and community level. |  |
| Gaps, implementation challenges and solutions with the potential to influence policy and practices for NCD prevention and control. |  |
| Predictors of disability onset in major NCDs and innovative strategies for rehabilitation. |  |
| Implementation science focused on addressing common NCD risk factors through interventions that reduce health risk and/or enhance positive health and lifestyle behaviors in adolescents and youth. |  |
| Cost benefit analysis and incremental cost effectiveness of interventions among the key and/or marginalized populations. |  |
| Effective strategies for maintaining a sustainable and representative national database for NCDs and their risk factors. |  |

**GRANT APPLICATION FORM**

**HEALTH RESEARCH INSTITUTE**

**NATIONAL INSTITUTE OF HEALTH**

**(N.B Separate Sheet May Be Attached For Detailed Description Wherever Necessary)**

1. Title of the Research Project.
2. Name, Designation, Qualifications and Name of Institution of the Principal Investigator.
3. Name, Designation, Qualifications and Name of Institution of the Co-Investigator(s), if any.
4. Institution (s) / Department(s) participating in the study.
5. Duration of the Project.
6. Total funds requested.
7. If a grant is made, I will ensure that the funds provided are used for the purpose for which they have been given. I also agree to submit in proper form interim and final reports of the work as and when required by HRI, and to make available the records of my research to person/ persons deputed by the HRI to inspect the progress of my research project.

Date: Signature: **Principal Investigator**

1. A note by the head of the institution (if relevant) certifying that existing facilities of the departments concerned will be made available to the candidate(s).

Date: Signature: **Head of the Institution**

1. **Structured Abstract.** (not more than 250 words)
2. Background
3. Objective
4. Setting, Duration, Study Type
5. Methods
6. Expected Outcome
7. **Lay abstract :** It shall be in plain and nontechnical language for the understanding of people who do not have background in science (not more than 150 words)
8. **Introduction**. (not more than 400 words)

One paragraph related to background and global work on the subject, one paragraph related to local (Pakistan) work and one paragraph related to institutional work with a total of 5 to 8 references. Last paragraph should indicate the significance of work and what information/gaps are missing on topic/subject which and how you are filling.

1. **Objectives.**

Formulate your research questions (Objectives) with measurable outcome like estimate, determine, calculate, correlate, outline, create or organize.

1. **Methodology:** (It should be ensured that methodology is feasible to achieve study objectives)

**a**- **Setting, Duration, Study Type:-**Setting should indicate where the study will be conducted and for how long. Is the study retrospective, prospective, cross-sectional, interventional, comparative, experimental etc

1. **Sample size:-** Details of sample size calculation, formula, basis of calculation,
2. **Sampling Technique:-** (simple random, randomization, probability, convenient etc)
3. **Inclusion and Exclusion Criteria**

Exclusion criteria should include reason for exclusion within the inclusion group

1. **Study instrument:-** (Proforma, Questionnaire, interview, focus group discussion etc)
2. **Procedure**/**methods** in **details:-**

For any standard ranges/values e.g. blood pressure, BMI, blood sugar etc, please give proper reference in the text.

1. **Work schedule:-** As Gant Chart
2. **Indicators and Milestones:-** Please list the indicators related to each objectives and expected deliverables (at least 1 indicator and one expected result per objective)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S#** | **objective** | **Indicator** | **Deliverable** | **milestones** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

1. **M&E plan:-**Detailed plan and cost should be mentioned
2. **Expected outcomes:-** How project will benefit science and society:-(not more than 100 words )
3. **Patient and public involvement:** Demonstrate strategy to encourage Patient and public involvement in your study (not more than 150 words )
4. **Planning Matrix** (columns could be added)

|  |  |  |  |
| --- | --- | --- | --- |
| **Objective as stated in serial No. 11** | **Output of the objective** | **Benefit of the outcome** | **Risks** |
|  |  |  |  |

1. **References**

Not more than 15 references with at least 50 percent should be of last 5 years. Reference should be given in Vancouver style (where reference is quoted as number in the text. The same number is reciprocated at back in the reference list).

1. **Resume** (not CV) of similar work carried out by the Principal Investigator or Co-Investigator(s) in this area.
2. **Institutional facilities for carrying out the proposed study.**

Mention the facilities available in the institute which is related to the project and also the facilities which shall be shared with any other institution.

1. State if the project has been submitted to any other funding agency for partial financial support. If so, give details along with breakup in the budget.
2. Budget (Kindly prepare budget in the given template)

**BUDGET**

**TABLE-I: PERSONNEL**

|  |  |  |
| --- | --- | --- |
| **Category of Personnel**  **(Please Specify Scale of Pay)** | **Cost (Rs)** | **Conditions** |
| *Professional Scientific staff Name and Title (if available)* |  | Maximum 15% of the total cost could be allocated for personal costs/ honoraria for team members |
| **Small grants** |  | |  |  | | --- | --- | | Total honoraria | Up to 15% of total budget | | **Principal Investigator** (% of allocated honoraria) | Up to 33% | | Co-Investigator/s (% of allocated honoraria) | Up to 20% | | Other Staff (% of allocated honoraria) | Up to 47%  *(10% of the basic pay X number of months)* | |
| **National Health challenge grants** |  | |  |  | | --- | --- | | Total honoraria | Up to 6% of total budget | | **Principal Investigator** (% of allocated honoraria) | upto33% | | Co-Investigator/s (% of allocated honoraria) | Up to16.6% | | Other Staff (% of allocated honoraria) | Up to50.4%  *(10% of the basic pay X number of months)* | |
| **Sub-Total:** |  |  |

**TABLE-II**: **CONSUMABLES AND SUPPLIES**

|  |  |  |
| --- | --- | --- |
| **Item** | **Cost (Rs)** | **Condition** |
| Kits, chemicals, supplies, consumables required for lab work, glass wares etc |  |  |
|  |  |
|  |  |
|  |  |
| **Sub-Total** |  |

**TABLE-III: FIELD WORK AND TRAVEL**

|  |  |  |
| --- | --- | --- |
| **Item** | **Cost (Rs)** | **Condition** |
| **Field Work:** Number of Days required for field collection |  | As given in budget instructions. |
| Number of data collectors. |  |
| **Travel** |  |
| Fuel consumption |  |
| Hiring of vehicle |  |
| **Sub-Total** |  |

**TABLE-IV**: **TRAINING, PRINTING, DATA ENTRY AND ANALYSIS**

|  |  |  |
| --- | --- | --- |
| **Travel (Please specify)** | **Cost (Rs)** | **Conditions** |
| **Training** |  | As per budget instructions |
| **Printing** |  | Per page cost for printing should be provided |
| **Sub-Total** |  |  |

**TABLE-V: OTHERS (JOURNAL PUBLICATION FEE AND MISCELLANEOUS)**

|  |  |  |
| --- | --- | --- |
| **Items** | **Cost (Rs)** | **Conditions** |
| **Journal publication Fee** |  |  |
| **Miscellaneous:** |  | Should not be more than 5% of the total costs |
| **Sub-Total** |  |  |

**TABLE-VI: PERMANENT EQUIPMENT**

|  |  |  |
| --- | --- | --- |
| **Items** | **Cost (Rs)** | **Conditions** |
| **Permanent Equipment** |  | Only applicable for HRI Research centers |
| **Sub-Total** |  |  |

**BUDGET SUMMARY**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **Year 1**  **Rs.** | **Year 2**  **Rs.** | **Year 3**  **Rs.** | **Total**  **Rs.** |
| Personnel (Table I) |  |  |  |  |
| Operating expenses (Table II) |  |  |  |  |
| Indirect cost (Table III) |  |  |  |  |
| Travel within country (Table IV) |  |  |  |  |
| Permanent equipment required (Table V) |  |  |  |  |
| **Grand Total** |  |  |  |  |

**TABLE-VII**  **BUDGET JUSTIFICATION**

***Please justify briefly each item in the budget (Personnel, consumables, supplies, field work and travel, training, printing, Data entry, analysis and others etc.)***

|  |  |
| --- | --- |
| Item | Justification |
|  |  |
|  |  |
|  |  |