



KHYBER PAKHTUNKHWA HUMAN CAPITAL INVESTMENT PROJECT, HEALTH DEPARTMENT

TERMS OF REFERENCE

**For Individual Consultant Biomedical Engineer on TA basis
To Assist the Health Project Management Unit of
The Khyber Pakhtunkhwa Human Capital Investment Project**

A. BACKGROUND

The Khyber Pakhtunkhwa Human Capital Investment Project (KPHCIP) funded by the World Bank, in collaboration with the Government of Khyber Pakhtunkhwa (GOKP), intends to improve the availability, utilization, and quality of primary healthcare and elementary education services in selected districts of KP. The project targets four original Districts (i.e. Peshawar, Haripur, Nowshera and Swabi) and additional flood hit districts in KP. The Project includes five components:

- Component 1. Improving the Delivery of Quality Primary Health Care Services
- Component 2: Improving Availability and Quality of Education Services
- Component 3: Strengthening Community Engagement and Accountability
- Component 4: Reconstruction/Rehabilitation of Flood affected Healthcare facilities in KP
- Component 5: Contingent Emergency Response Component (CERC)

The project activities include strengthening of infrastructure, equipment, and healthcare commodities (*Component 1*), comprising mainly of primary healthcare facilities (Basic Health Units/Rural Health Centers/Cat-D Hospitals), and rehabilitation of selected primary schools to middle schools (*Component 2*) in selected districts. *Component 3* of the Project is to support community engagement and accountability. *Component 4* of the project is to provide support to the 158 flood affected healthcare facilities in 17 districts of Khyber Pakhtunkhwa. *Component 5* is regarding any future emergency support in Khyber Pakhtunkhwa.

The first two components have sub-components focusing on infrastructure enhancement. Component 1, with its focus on healthcare services, has the following infrastructure requirements: The KPHCIP is seeking the services of an individual consultant to provide assistance to the Project Management Unit (PD and DPD) – Health (PMU-H) of KPHCIP in matters as per Job description.

B. OBJECTIVE

The objective of hiring a Biomedical Engineer is to facilitate PMU in ensuring efficient management of medical equipment, technology, and healthcare infrastructure. The engineer will support and assist Chairperson Procurement Committee in overseeing procurement, maintenance, and compliance, enabling safe and effective healthcare delivery, optimizing resource utilization, and improving patient outcomes within the project's scope

C. QUALIFICATION & EXPERIENCE:

Qualifications:

1. **Educational Background:** A bachelor's or master's degree in biomedical engineering/Electro medical Engineering, or a related field is typically required.



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2. **Professional Certification:** Preferably, possession of relevant certifications, such as Certified Clinical Engineer (CCE) or Certified Biomedical Equipment Technician (CBET), can be advantageous.
3. **Regulatory Knowledge:** Familiarity with national and international regulations and standards related to medical devices and equipment is essential.

Experience:

Experience Level: Typically, candidates with minimum 2 years of relevant experience are preferred.

- Excellent interpersonal and communication skills.
- Proficiency in data management and quality control.
- Ability to work effectively in multidisciplinary teams.

D. SCOPE OF WORK

Specific Tasks and Responsibilities

The Biomedical Engineer will work in procurement section under DPD and PD and will be having the following responsibilities;

1. **Technical Expertise:** Provide specialized knowledge in biomedical engineering to guide procurement section and project.
2. **Procurement and Equipment Management:** Facilitate DPD and PD in overseeing the procurement and maintenance of medical equipment and technology, ensuring their quality and suitability.
3. **Quality Assurance:** Ensure compliance with regulatory standards for medical devices and equipment.
4. **Needs Assessment:** Facilitate the DPD and PD in Identifying healthcare facility requirements and assess the availability and functionality of medical equipment.
5. **Budgeting and Resource Allocation:** Facilitate PMU in managing the budget for biomedical equipment and allocate resources effectively.
6. **Installation and Training:** Facilitate the PMU in overseeing the installation and commissioning of medical devices and train healthcare staff on their use.
7. **Maintenance and Repair:** Develop and implement maintenance schedules and repair procedures for equipment.
8. **Risk Management:** Assess and mitigate risks associated with medical equipment and technology.
9. **Data Management:** Maintain records of equipment inventory, maintenance, and performance.
10. **Collaboration:** Work with the healthcare team, engineers, and project managers to ensure seamless integration of biomedical solutions.
11. **Monitoring and Evaluation:** Establish performance metrics and evaluate the impact of biomedical interventions on healthcare outcomes.
12. **Research and Innovation:** Stay current with technological advancements and contribute to the project's innovation and improvement efforts.
13. Any additional task assigned by the PD or DPD.



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E. REPORTING

The Individual consultant will report to Project Director and DPD of KPHCIP through proper channel.

F. DURATION OF ASSIGNMENT

The initial contract will be awarded for six (6) months, with the possibility of annual extensions based on satisfactory performance at the end of each term. An initial probation period of three (3) months will be observed; however, this period may be extended subject to performance evaluation by the DPD/PD.

G. CODE OF CONDUCT AND ETHICS

The TA shall adhere to the highest standards of professional conduct and integrity. All activities should be carried out with impartiality, confidentiality, and in compliance with the organization's and project's code of ethics and anti-corruption policies.

H. CONFIDENTIALITY

The TA will be required to maintain strict confidentiality regarding all matters pertaining to the financial and contractual aspects of the project. All information, documents, and reports shall be treated as confidential and shall not be disclosed to any third party without prior written consent of the Client.

I. PERFORMANCE EVALUATION

The performance of the Biomedical Engineer (Technical Assistant) will be assessed based on agreed deliverables, timeliness, accuracy, and quality of technical and documentation support provided in medicine management and procurement processes. Evaluation will also consider the TA's contribution to ensuring compliance with regulatory requirements, maintaining proper inventory records, and supporting the overall efficiency of the project's supply chain activities. Continuous feedback and periodic formal evaluations will be conducted by the Deputy Project Director (DPD).