



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 Procurement Specialist Project Management Unit – Health (PMU-H) of KPHCIP in matters as per Job description.

B. OBJECTIVE

The objective of hiring a Biomedical Engineer is to facilitate procurement section in ensuring efficient management of medical equipment, technology, and healthcare infrastructure. The engineer will support and assist Procurement Specialist 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 Procurement Specialist 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 Procurement Specialist 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 Project in Identifying healthcare facility requirements and assess the availability and functionality of medical equipment.
5. **Budgeting and Resource Allocation:** Facilitate Procurement section in managing the budget for biomedical equipment and allocate resources effectively.
6. **Installation and Training:** Facilitate the Procurement section 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, DPD or Procurement Specialist.



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E. REPORTING

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

F. DURATION OF ASSIGNMENT

6 months, may be extended subject to performance and recommendation of reporting officer.