



Director Planning & Design / Senior Engineer (Director Technical)

Terms of Reference

1. Position Information

Title: Director Planning & Design / Senior Engineer (Director Technical)

Number of Position(s): 01 - Contract

Reports To: Project Director - KMP

2. Project Context

The Karachi Mobility Project (KMP), financed with support from international development partners including the World Bank, aims to improve urban mobility through the development of high-capacity and sustainable public transport, notably the Yellow Line Bus Rapid Transit (BRT) corridor. The Project Management Team (PMT) is responsible for planning, coordinating, and overseeing implementation in accordance with the Financing Agreement, the Project Appraisal Document, approved project instruments, applicable national requirements, and World Bank policies and procedures.

Within this framework, the PMT requires a senior professional to lead the planning and design function and provide strategic technical leadership, quality assurance, and coordination across the project lifecycle. The position is an owner-side leadership and oversight role. It does not replace the design, supervision, or construction responsibilities assigned to consultants and contractors under their respective contracts.

3. Objective of the Assignment

The objective of the assignment is to lead and manage the PIU planning and design function and ensure that KMP infrastructure and associated technical packages are planned, designed, procured, and implemented in a coordinated, technically sound, safe, accessible, climate-resilient, and cost-effective manner.

The Technical Director will provide strategic advice to the Project Director, oversee the work of technical staff and consultants, and ensure that design development, works planning, technical reviews, and implementation decisions remain aligned with approved scope, performance requirements, contracts, schedules, budgets, and applicable World Bank requirements.

4. Job Duties/Responsibilities:

Major areas responsibilities of the Director Planning & Design / Senior Engineer (Technical) include but are not limited to the following:

- Lead planning, design, and technical development of KMP BRT infrastructure and facilities, aligned with project objectives, operational needs, and schedules;
- Direct the preparation, review, and quality assurance of designs, specifications, drawings, quantities, estimates, and bidding documents;
- Ensures quality and timeliness of BRT planning processes, demand model and lessons learned from existing BRT services are incorporated into operational designs, and specifications;
- Ensures infrastructure planning, specifications and tenders are prepared in a quality and timely manner;
- Lead the new infrastructure and additions/modifications to the existing system including bus ways, stations, staging areas, depots, control centre, drainage systems, landscaping etc.;

- Ensure the design of the project is of the highest quality, represents value for money and can accommodate the anticipated passenger demand levels;
- Ensure all design elements are in accordance with the principles of barrier free access as defined by accepted recognised international standards;
- Coordinate consultants, contractors, utilities, authorities, and the PMT to resolve issues, manage interfaces, and ensure consistency;
- Support procurement and contract administration through technical inputs to tendering, evaluations, negotiations, variations, claims, and performance monitoring;
- Maintain technical coordination, documentation, reporting, and knowledge systems, capturing lessons and recommendations for current and future BRT investments.

5. **Scope of Responsibilities:**

5.1 **Technical Oversight and Design Review**

The Director Planning & Design / Senior Engineer (Director Technical) shall:

- Review and provide technical oversight of detailed engineering designs, drawings, specifications, and method statements prepared by consultants and contractors.
- Ensure compliance with approved designs, BRT standards, national technical codes, and applicable international good practices.
- Verify that design solutions adequately address urban constraints, traffic management, drainage, climate resilience, safety, and constructability.
- Provide technical inputs to the Project Director for approval of designs and technical submissions

5.2 **Construction Supervision and Quality Assurance**

The Director Planning & Design / Senior Engineer (Director Technical) shall:

- Oversee technical aspects of construction through coordination with supervision consultants.
- Monitor quality of works and ensure compliance with contractual technical specifications.
- Identify technical risks and implementation constraints and propose mitigation measures.
- Support resolution of site-level technical issues and interface coordination among contractors, utilities, and authorities.

5.3 **Contract Administration and Fiduciary Interface (Technical Inputs)**

The Director Planning & Design / Senior Engineer (Director Technical) shall:

- Review and validate technical inputs related to Interim Payment Certificates (IPCs), including quantities and physical progress.
- Provide technical justification for variation orders, claims, and contract amendments.
- Support the Project Director, procurement, and financial management teams by providing technical inputs required for contract administration.
- Maintain proper technical records and documentation in accordance with World Bank requirements

5.4 **Planning, Progress Monitoring, and Reporting**

The Director Planning & Design / Senior Engineer (Director Technical) shall:

- Review contractors' and consultants' work programs and schedules (Primavera / MS Project).
- Monitor physical progress against baseline schedules and budgets.
- Identify delays or deviations and recommend corrective actions.
- Contribute technical sections to periodic project progress reports submitted to the World Bank and other stakeholders.

5.5 **Coordination and PIU Interface Management**

The Director Planning & Design / Senior Engineer (Director Technical) shall:

- Coordinate technical activities among design consultants, supervision consultants, contractors, and other PIU specialists.
- Interface with relevant government agencies, utility providers, and municipal authorities on technical matters.
- Ensure consistency and coordination between civil works, traffic management, drainage, utilities, and systems packages.

5.6 **Environmental, Social, and Safety Compliance (Technical Aspects)**

In coordination with the safeguards specialists, the Director Planning & Design / Senior Engineer (Director Technical) shall:

- Ensure that technical designs and construction practices comply with approved Environmental and Social instruments.
- Support implementation of traffic management, occupational health and safety, and environmental mitigation measures.
- Address technical aspects related to climate resilience and flood risk management.

5.7 **Support to World Bank Supervision and Implementation Support Missions**

The Director Planning & Design / Senior Engineer (Director Technical) shall:

- Provide technical inputs and documentation for World Bank supervision, implementation support, and review missions.
- Respond to technical queries and observations raised by the World Bank through the Project Director.
- Support implementation of agreed actions from Aide-Memoires related to technical matters.

6. **Key Deliverables**

- Technical review notes and clearance recommendations.
- Certified technical inputs for IPCs, variations, and claims.
- Monthly and quarterly technical progress reports.
- Technical inputs for supervision missions and audits.
- Risk identification and mitigation notes related to technical implementation.

7. **Education and Experience**

- Master's degree in civil engineering, Transport Engineering, Transport Planning, or a closely related discipline from a university recognized by the Higher Education Commission.
- At least fifteen (15) years of relevant post-qualification professional experience, including at least five (5) years in a senior management or technical leadership position.
- Demonstrated experience in planning, design management, construction management, quality assurance, and contract administration for major urban transport, BRT, road, or comparable infrastructure projects.
- Demonstrated experience managing multidisciplinary teams and coordinating complex interfaces among designs, civil works, utilities, traffic, systems, safeguards, and operations.
- Experience preparing or reviewing procurement documents, technical evaluations, variations, claims, and contract amendments for infrastructure contracts.
- Experience on donor-funded or internationally financed infrastructure projects is highly desirable; experience with World Bank requirements will be an advantage.
- Proficiency in project planning and scheduling tools such as Primavera P6 or Microsoft Project, and in standard office and document-management applications.
- Current registration with the Pakistan Engineering Council (PEC), where applicable to the candidate's professional discipline.

8. **Work Conditions**

Position is based in Karachi. The assignment may require regular site visits, participation in technical

and management meetings, and availability during critical implementation periods. Selection will be based on merit and competency.

9. **Performance Evaluation**

Performance will be assessed against:

- Quality and timeliness of technical oversight and reviews
- Effectiveness in managing technical risks and interfaces
- Contribution to achieving project objectives in compliance with World Bank requirements