



PROJECT IMPLEMENTATION UNIT
Sindh Secondary Education Improvement Project (SSEIP)
ADB Assisted [Loan No. 3845-PAK and 4409-PAK(COL)]
Government of Sindh
School Education and Literacy Department (SE&LD)



TERMS OF REFERENCE-TOR
CS-05: PIU ENGINEER

Objective and Purpose of the Assignment

The Government of Sindh has received a loan from the Asian Development Bank (ADB) that aims to increase inclusiveness of secondary education system in Sindh Province by construction of new secondary school blocks, improving teaching and learning capacity, and to bring reform in secondary education examination system. The applications are invited for the following positions purely on contractual basis in the Project Implementation Unit (PIU) for Sindh Secondary Education Improvement Project (SSEIP), under School Education & Literacy Department (SEL&D). The part of the loan will be used for this Consultancy Service.

Scope of Work

Engineer will validate site survey reports and actual site condition for purposes of preparing or revising construction plans and corresponding programs of work for 160 project schools.

Detailed Tasks and/or Expected Output

The specialist will perform the following functions, duties, and tasks:

- i. Validate site survey reports and actual site condition for purposes of preparing or revising construction plans and corresponding programs of work for schools;
- ii. Validate and where needed provide necessary inputs, recommend revisions and improvements to the detailed design of school building submitted by design consultants to be included in the tender documents as well as for the preparation of the detailed cost estimates;
- iii. Assist in the preparation of technical specifications and tender documents for procurement purposes and in the validation of due diligencereports, assessments, surveys, procurement plans and other relevant documents;
- iv. Validate and revise where needed the bills of quantities to be included in the tender documents based on the architectural and engineering designs including the list and specification of equipment, furniture, educational facilities and materials for maintenance to be included in the bill of quantities;
- v. Develop a set of performance parameters to be used for monitoring the performance of all school building component including Health Safety & Environment.
- vi. Assist the PIU procurement specialist in the tendering of the works, including the evaluation of bids, clarification of issues in the scope of the works and technical specifications, and in the finalization of the implementation program upon contract award;
- vii. Develop procedures and plan for the monitoring and evaluation of construction works in each district or contract;
- viii. Assist the contractor in pre-construction and mobilization requirements for school building construction;
- ix. Prepare site inspection and supervision guidelines for conducting site spot check to ensure compliance to the contract and construction specifications;
- x. Oversee site supervisors and ensure adherence to building standards and plans;
- xi. Conduct periodic reviews and evaluation of civil works including preparation of implementation reports;
- xii. Assist the PIU in the validation of contractor's accomplishment and progress billings;
- xiii. Assist the PIU in the preparation of progress and accomplishment reports as required;
- xiv. In coordination with the contractor, prepare a program of work for each contract and the records of discussions with contractors during actual site inspection conferences;



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- xv. Discuss the final implementation program and the program of inspection and reporting for each contract;
- xvi. In coordination with the construction supervision consultant, supervise the implementation of the works including the checking of compliance with the conditions of contracts on the workmanship, recommending any contract variation, if necessary, subject to approval of PIU;
- xvii. Accept the completed project upon authority and subject to approved procedures by PIU; and
- xviii. Ensure that the needs of women, children and people living with disabilities are adequately addressed in design, planning and implementing of water supply sanitation and hygiene -WASH activities in School.
- xix. Assist the M&E specialist in monitoring project activities related to the preparation and implementation of related to output 1 activities and projects.
- xx. Develop and implement Handing / taking over documentation / Procedures upon completion of all specified works in coordination with the M&E specialist and relevant Government counterparts.
- xxi. Perform such other functions in the area of school building construction, as may be requested by PIU Project Director/Project Manager.

Minimum Qualification Requirements

The Engineer will have at least 10 years work experience in the design and construction supervision of school buildings, preparation and interpretation of CAD drawings, as well as familiarity with ADB or other internationally funded projects. Specialization in structural engineering, review and evaluation of contract documents is highly desirable.

At least a bachelor's in civil or structural engineering from an HEC recognized educational institution; a demonstrated track record of timely delivery of high quality outputs, availability to travel regularly to project sites as required, excellent interpersonal skills, excellent skills in the use of Microsoft Office software, especially Word, Excel, PowerPoint, and internet use, and a good command of spoken and written English are essential.

Minimum General Experience: 15 Years

Minimum Specific Experience (relevant to assignment): 10 Years