



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
CS32-AF: CIVIL ENGINEER

Scope of Work:

The Civil Engineer will provide technical support to the Project Manager Construction, PIU Engineer, and Project Implementation Unit (PIU) in the planning, design review, construction supervision, inspection, and technical assessment of school building projects, with particular emphasis on Light Gauge Steel (LGS) construction. The specialist will ensure that construction activities are undertaken in accordance with approved designs, specifications, applicable codes and standards, contractual requirements, and the requirements of the Project.

Detailed Tasks and/or Expected Output:

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

- (i) Review project specifications and requirements to determine the suitability of light gauge construction methods for school building projects.
- (ii) Work closely with Project Manager Construction, PIU Engineer, and stakeholders to develop design concepts and detailed plans for school buildings utilizing light gauge construction.
- (iii) Provide technical advice on the selection of light gauge materials, framing systems, connections, and assembly techniques to ensure optimal structural integrity and safety.
- (iv) Ensure that all school building projects comply with relevant building codes, educational standards, and local & ADB, World Bank, USAID regulations.
- (v) Conduct structural analysis and simulations to assess the performance of light gauge components and systems in school buildings under various conditions.
- (vi) Prepare comprehensive project reports & submit to the Project Manager Construction, PIU Engineer including recommendations for improvements and cost-effective solutions.
- (vii) Supervise and inspect construction sites to ensure that light gauge construction work on school buildings is executed accurately, safely, and in accordance with the approved plans.
- (viii) Address and resolve any technical issues or challenges related to light gauge construction specific
- (ix) Provide training and guidance to sub- engineers, construction staff, and educational staff on best practices related to school building construction with light gauge materials.
- (x) Prepare Periodic Site visit report and Monthly progress report & submit Project Manager Construction.
- (xi) Provide specialized guidance and technical expertise PIU field staff in the design and construction of school buildings using light gauge materials and methods.
- (xii) Conduct technical assessments, inspections, and evaluations of ongoing school building projects using light gauge construction & reported according to PIU Senior Management.
- (xiii) Assist Project Manager Construction/ PIU Engineer day-to-day activities & report accordingly.
- (xiv) Perform other duties as assigned by the Project Director.

Minimum Qualification Requirements

Bachelor's Degree in Civil Engineering from recognized University/Institute. Minimum 08 years of professional experience in building construction preferably in Sindh and school



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construction projects. Experience in both conventional construction and light gauge steel structures is preferred. The candidate should demonstrate expertise in the design and supervision of school building construction projects, preferably using LGS Integrated Concrete & Steel Technology. Compliance with local building codes, international standards, and donor agency regulations (ADB, World Bank, USAID). Structural analysis, assessment, and evaluation of LGS components under varied conditions. Technical proficiency in Microsoft Office Suite (Word, Excel, PowerPoint), structural analysis software, and CAD tools. Strong project management, communication, and interpersonal skills, particularly in collaborative work with senior engineers, project stakeholders, and educational administrators. Fluency in English (written and spoken) is mandatory, along with proficiency in local languages.

Minimum General Experience: 08 Years

Minimum Specific Experience (relevant to assignment): 08 Years