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| <b>Assignment name:</b><br>Engineering Service for the Structural Vulnerability and Seismic Assessment of a Building in Dhaka   | <b>Country:</b> Bangladesh<br><b>Location within country:</b> Dhaka   |
| <b>Name of Client:</b> World Food Programme (WFP) – Bangladesh  | <b>Address:</b> IDB Bhaban 14th, 16th and 17th Floor E, 8-A Rokeya Sharani, Dhaka 1207  |
| <b>Duration of assignment (months):</b> 1<br><b>Start date (month/year):</b> 31.12.2020<br><b>Completion date (month/year):</b> 31.01.2021  | <b>Total No of staff-months of the assignment:</b> 2  |
| <b>Approx. value of the contract (USD):</b>   |   |
| <b>Name of associated Contractors, if any:</b>  | <b>No of professional staff-months provided by associated Contractors:</b>  |
| <b>Name of associated Contractors, if any:</b>  | <b>Name of senior professional staff of your firm involved and functions performed (indicate most significant profiles such as Project Director/Coordinator, Team Leader etc):</b><br><br>Senior Engineer: Abdul Siddik Hossain<br>Structural Engineer: Md. Shajal Khan |
| <b>Narrative description of Project:</b><br>The Country Office of WFP in Bangladesh was reviewing potential buildings in Gulshan 2 Area of Dhaka city for the establishment of office facilities. One of those has been identified as the most relevant; however, the 12-storeyed building is a residential type inside residential zone of Gulshan. The structural and seismic assessment is deemed required prior to occupancy of the building for the commercial purpose, also taking into consideration all the architectural modifications (internal partition walls adjustment and demolition) and MEP services requirement. The client, WFP, was therefore in the need of a complete structural and seismic assessment of the building.  |   |
| <b>Description of actual services provided by your staff within the assignment:</b><br>Stage 1: Tier-1, Screening<br>a) Verification of all available as-built drawings by doing onsite building visit in 3 or 4 days to comply the structural compliance of ASCE 41-13 and modification if required.<br>b) Checking the authenticity of the material testing reports, geotechnical testing report and strength calculation according to the mentioned guidelines<br>c) Assessment of buildings according to the calculation procedure mentioned in ASCE 41-13 Tier 1<br>d) Assessment of both structural and non-structural components as per the guideline of ASCE 41-13 Checklists<br>e) Detailed report preparation and mentioning the vulnerability rank in terms of Seismic Hazard Level.<br>Stage 2: Tier-2, Testing and Assessment<br>a) Structural detailing;<br>b) Structural integrity and defects;<br>c) Strength of concrete materials using nondestructive test;<br>d) Corrosion inspection and monitoring;<br>e) Modelling and Analysis of the Building Structure, Architecture & MEP Components |   |