

FORMAT FOR THE STRUCTURAL DESIGN REPORT

(To be prepared by the Submitting Engineer for submission to the Accredited Checker)

1. The title page should contain the following information:
 - Name of the Project:
 - Name of the Client:
 - Address of the Client
 - Name and Address of the Submitting Engineer:
 - BEM Registration No. of the Submitting Engineer:
 - Approving Authority and its Address:
 - Approved Building Plan Approval No.
 - Date on which construction work is due to commence:

2. The design report should include but not limited to the following information:
 - a. Clear indication of the functional frame, load transfer and stability aspects of the structural scheme.
 - b. Typical design data such as:
 - i) Type of foundation structure
 - ii) Concrete grades for the various structural elements
 - iii) Design stresses for the materials used for construction, i.e. concrete and reinforcement bars
 - iv) Imposed dead loads and live loads for the various structural elements
 - v) Design wind speed
 - vi) Minimum design lateral load due to wind load and notional load
 - vii) Design codes of practices, standards and references used for the analysis and design
 - viii) Engineering soft wares used for the analysis and design
 - c. Sufficient design calculations to establish the form and size of all the principal structural element, both for the superstructure and substructure.
 - d. Sufficient design calculations for the stability analysis and elemental design for the stabilizing frames and walls for the superstructure.
 - e. General arrangement plans, sections to show the dimensions, layout and the disposition of the structural elements with reinforcements details.
 - f. Complete structural details for temporary works with precautionary measures taken to avoid damages to adjacent properties
 - g. Construction sequence for the structural works
 - h. Specifications of the materials.