

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. (if relevant *)

Date the construction work is expected to commence:

Note: *It is relevant if at the time of preparing this submission, the Building Plan has been approved.

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 strength 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 (Layout) drawings, sections showing dimensions, all structural elements with reinforcements details. The drawings to be submitted are Construction Drawings with PEPC endorsement.
- f. Construction sequence for the structural works. This is required for the structure which is sensitive to the surrounding or adjacent properties.
- g. Specifications of the materials.