



**Plate 3.6 - Indicative Converter Station layout**

- 3.6.3.4. The Converter Station consists of a number of interconnected components which need to be connected sequentially, with the built form for each dictated to a high degree by their function.
- 3.6.3.5. The components are arranged whilst considering the most efficient connection method between them and the minimum spacing of the equipment to ensure safe operation and maintenance.
- 3.6.3.6. The outdoor equipment which forms part of the proposed Converter Station will be similar to the equipment that is found within typical electrical substations, such as the adjacent Lovedean Substation. The 400 kV switchyard (item 7 in Plate 3.7), transformers (item 3 in Plate 3.7) and AC filters (item 13 in Plate 3.7) will be located outdoors.
- 3.6.3.7. This conversion equipment is housed indoors, within the two Converter Buildings (item 1 in Plate 3.7). Each Converter Building will comprise of a steel structural frame and will measure approximately 90 m in length, 50 m in width and up to a maximum of 26 m in height to be measured from finished ground floor slab level. Power Electronics are required to convert the power between AC and DC or vice versa.