## Appendix A8.1 Embodied Carbon



## **Appendix A8.1: Construction Phase Embodied Carbon**

This Appendix provides the key parameters and greenhouse gas (GHG) outputs associated with embodied carbon emissions during the Construction Phase, as shown in Table 1. The most significant contributor to the embodied carbon emissions is ground granulated blast slag (GGBS) which accounts for 47% of total embodied carbon emissions followed by precast concrete at 20% as listed in Table 1.

## Table 1: Embodied Carbon Emissions During Construction of the Proposed Scheme

Embodied Carbon Material	Tonnes CO <sub>2eq</sub> / Total	% Contribution
Asphalt	1,832	15%
Aggregates	396	3%
Precast Concrete	2,455	20%
GGBS	5,845	47%
Steel	1,107	9%
Other	511	4%
Transport of Materials	212	2%
Total	12,358	100%