

# Appendix 12.5

## Estimated Construction Movements

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| A12.5. Estimated Construction Movements |
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## **A12.5. Estimated Construction Movements**

A12.5.1. The estimated monthly vehicle movements throughout the construction programme for the Proposed Development.

| Activity                      | Sub-activity                                                      | Month |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |  |
|-------------------------------|-------------------------------------------------------------------|-------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|--|
|                               |                                                                   | 1     | 2   | 3    | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | Total  |  |
|                               | Heavy Goods Vehicles Movements (including abnormal loads)         |       |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |  |
| Felling                       | Forestry                                                          | 750   | 750 | 750  | 750 | 750 | 750 | 750 | 750 | 716 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 6716   |  |
| Site Establishment            | Mobilisation & Site Establishment                                 | 40    | 40  | 36   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 116    |  |
|                               | Batching Plant                                                    |       |     | 24   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 24     |  |
| Access Tracks                 | Aggregates                                                        |       | 80  | 60   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 140    |  |
|                               | Drainage                                                          |       |     |      | 20  | 20  | 20  | 20  | 20  | 20  | 8   |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 128    |  |
| Cable Trench Installation     | Cabling Trench (Sand)                                             |       |     |      |     |     |     |     |     |     |     | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 200 | 90  |     |     |     |     | 3490   |  |
|                               | Cabling (Length)                                                  |       |     |      |     |     |     |     |     |     |     | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10  |     |     |     |     | 100    |  |
| Turbine Foundations           | Rebar                                                             |       |     | 20   | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 8   |     |     |     |     |     |     |     |     |     |     |     |     |     | 168    |  |
|                               | Cement/Sand                                                       |       |     | 120  | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 124 | 130 | 130 | 130 | 130 | 130 | 130 | 130 |     |     |     |     |     |     | 1994   |  |
| Substation & Control Building | Total Metering Building Construction                              |       |     |      |     |     |     | 20  | 20  | 20  | 20  | 20  | 20  |     |     |     |     |     |     |     |     |     |     |     |     | 120    |  |
|                               | HV Electrical Equipment                                           |       |     |      |     |     |     |     |     |     |     |     |     | 20  | 20  | 20  | 20  | 20  | 20  | 20  |     |     |     |     |     | 140    |  |
|                               | 132kV Transformer                                                 |       |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 2   |     |     |     |     |     | 2      |  |
|                               | Transformer Oil                                                   |       |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 40  |     |     |     |     |     | 40     |  |
|                               | Security Fencing                                                  |       |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 20  |     |     |     |     | 20     |  |
| Crane                         | Crane                                                             |       |     |      |     |     |     |     |     |     |     |     |     | 26  |     |     |     |     |     |     |     |     |     | 26  |     | 52     |  |
| Turbine Delivery              | Turbine Components                                                |       |     |      |     |     |     |     |     |     |     |     |     |     | 28  | 28  | 28  | 28  | 28  | 28  | 28  | 28  | 28  |     |     | 252    |  |
|                               | Ancillary and Accessories                                         |       |     |      |     |     |     |     |     |     |     |     |     |     | 34  | 34  | 34  | 34  | 34  | 34  | 34  | 22  | 20  |     |     | 280    |  |
|                               | Turbine Transformers and Housing                                  |       |     |      |     |     |     |     |     |     |     |     |     |     | 4   | 4   | 4   | 4   | 4   | 2   | 2   | 2   | 2   |     |     | 28     |  |
| Commissioning                 | Commissioning & Testing                                           |       |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 0      |  |
| Site Demobilisation           | Site Restoration & Demobilisation                                 |       |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 30  | 30  | 30  | 26  | 116    |  |
|                               | Proposed Development HGV Total Monthly Movements                  | 790   | 870 | 1010 | 910 | 910 | 910 | 930 | 930 | 896 | 168 | 562 | 560 | 586 | 626 | 626 | 626 | 626 | 626 | 336 | 184 | 82  | 80  | 56  | 26  | 13926  |  |
|                               | Light Vehicle Movements (car, minibuses and small van deliveries) |       |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |        |  |
|                               | Felling                                                           | 898   | 890 | 890  | 890 | 890 | 890 | 890 | 890 | 890 |     |     |     |     |     |     |     |     |     | 4   |     |     |     |     |     | 8,018  |  |
|                               | Transformer ALV Escort                                            |       |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 4   |     |     |     |     |     | 4      |  |
|                               | Crane Escort                                                      |       |     |      |     |     |     |     |     |     |     |     |     | 8   |     |     |     |     |     |     |     |     |     | 8   |     | 16     |  |
|                               | Turbine Escort                                                    |       |     |      |     |     |     |     |     |     |     |     |     |     | 56  | 56  | 56  | 56  | 56  | 56  | 56  | 56  | 56  |     |     | 504    |  |
|                               | Construction Personnel                                            | 880   | 880 | 880  | 880 | 880 | 880 | 880 | 880 | 880 | 880 | 880 | 880 | 880 | 880 | 880 | 880 | 880 | 880 | 880 | 880 | 880 | 880 | 880 | 880 | 21,120 |  |
|                               | Proposed Development LGV Total Monthly Movements                  | 880   | 880 | 880  | 880 | 880 | 880 | 880 | 880 | 880 | 880 | 880 | 880 | 888 | 936 | 936 | 936 | 936 | 936 | 940 | 936 | 936 | 936 | 888 | 880 | 21,644 |  |



|                        |                                |                                    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |     |        |
|------------------------|--------------------------------|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|--------|
| Peak<br>Total<br>Month | Max<br>1,890                   | Monthly Total Vehicle<br>Movements | 1,670 | 1,750 | 1,890 | 1,790 | 1,790 | 1,790 | 1,810 | 1,810 | 1,776 | 1,048 | 1,442 | 1,440 | 1,474 | 1,562 | 1,562 | 1,562 | 1,562 | 1,562 | 1,276 | 1,120 | 1,018 | 1,016 | 944 | 906 | 35,570 |
|                        | Average Daily Movements        |                                    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |     |        |
|                        | Daily Average LGVs             |                                    | 40    | 40    | 40    | 40    | 40    | 40    | 40    | 40    | 40    | 40    | 40    | 40    | 42    | 44    | 44    | 44    | 44    | 44    | 44    | 44    | 44    | 44    | 42  | 40  | 1000   |
|                        | Daily Average HGVs and<br>ALVs |                                    | 36    | 40    | 46    | 42    | 42    | 42    | 44    | 44    | 42    | 8     | 26    | 26    | 28    | 30    | 30    | 30    | 30    | 30    | 16    | 10    | 4     | 4     | 4   | 2   | 656    |
|                        | Daily Average All Vehicles     |                                    | 76    | 80    | 86    | 82    | 82    | 82    | 84    | 84    | 82    | 48    | 66    | 66    | 70    | 74    | 74    | 74    | 74    | 74    | 60    | 54    | 48    | 48    | 46  | 42  | 1656   |