Vehicle Routing - 5 Cities

With Capacity Constraint and No Time Constraint

```
Cost of Goods Delivery (All Trips) : 563.2 Euros
 From(City) - To (City)    |Distance(KM)|Speed(KMH)|Time(Hours)|Quantity
------------------------------------------------------------------------
'Dublin'    -> 'Cork'      |      218 |      100 |      2.18 |      117
'Cork'      -> 'Waterford' |      100 |      100 |      1.00 |       70
'Waterford' -> 'Dublin'    |      133 |      100 |      1.33 |        0
Quantity Delivered    : 187
Distance Covered      : 451
Number of Stops in Trip: 3
---TRIP---
'Dublin'    -> 'Galway'    |      187 |      100 |      1.87 |       42
'Galway'    -> 'Limerick'  |       73 |      100 |      0.73 |      128
'Limerick'  -> 'Cork'      |       86 |      100 |      0.86 |      117
'Cork'      -> 'Waterford' |      100 |      100 |      1.00 |       70
'Waterford' -> 'Dublin'    |      133 |      100 |      1.33 |        0
Quantity Delivered    : 357
Distance Covered      : 579
Number of Stops in Trip: 5
---TRIP---
'Dublin'    -> 'Waterford' |      133 |       60 |      2.22 |       70
'Waterford' -> 'Dublin'    |      133 |      100 |      1.33 |        0
Quantity Delivered    : 70
Distance Covered      : 266
Number of Stops in Trip: 2
```

Figure 1: Goods Delivery Optimal Cost : With Capacity Constraint - Run1

```
Cost of Goods Delivery (All Trips) : 640 Euros
 From(City) - To (City)    |Distance(KM)|Speed(KMH)|Time(Hours)|Quantity
------------------------------------------------------------------------
'Dublin'    -> 'Galway'    |      187 |      100 |      1.87 |       46
'Galway'    -> 'Cork'      |      158 |      100 |      1.58 |      155
'Cork'      -> 'Limerick'  |       86 |      100 |      0.86 |       85
'Limerick'  -> 'Waterford' |      111 |      100 |      1.11 |       54
'Waterford' -> 'Dublin'    |      133 |      100 |      1.33 |        0
Quantity Delivered    : 340
Distance Covered      : 675
Number of Stops in Trip: 5
```

Figure 2: Goods Delivery Optimal Cost : With Capacity Constraint - Run2

```
Cost of Goods Delivery (All Trips) : 609.067 Euros
 From(City) - To (City)    |Distance(KM)|Speed(KMH)|Time(Hours)|Quantity
--------------------------------------------------------------------------
'Dublin'    -> 'Cork'      |      218 |      100 |      2.18 |      190
'Cork'      -> 'Waterford' |      100 |      100 |      1.00 |       71
'Waterford' -> 'Dublin'    |      133 |      100 |      1.33 |        0
Quantity Delivered    : 261
Distance Covered      : 451
Number of Stops in Trip: 3
---TRIP--
'Dublin'    -> 'Galway'    |      187 |      100 |      1.87 |       40
'Galway'    -> 'Limerick'  |       73 |      100 |      0.73 |       84
'Limerick'  -> 'Cork'      |       86 |       60 |      1.43 |      190
'Cork'      -> 'Waterford' |      100 |      100 |      1.00 |       71
'Waterford' -> 'Dublin'    |      133 |      100 |      1.33 |        0
Quantity Delivered    : 385
Distance Covered      : 579
Number of Stops in Trip: 5
```

Figure 3: Goods Delivery Optimal Cost : With Capacity Constraint - Run3

With Capacity Constraint and Time Constraint

```
Cost of Goods Delivery (All Trips) : 1465.07 Euros
 From(City) - To (City)    |Distance(KM)|Speed(KMH)|Time(Hours)|Quantity
------------------------------------------------------------------------
'Dublin'    -> 'Cork'      |        218 |      100 |      2.18 |     134
'Cork'      -> 'Dublin'    |        218 |      100 |      2.18 |       0
Quantity Delivered    : 134
Distance Covered      : 436
Number of Stops in Trip: 2
---TRIP--
'Dublin'    -> 'Limerick'  |        175 |      100 |      1.75 |     106
'Limerick'  -> 'Dublin'    |        175 |       60 |      2.92 |       0
Quantity Delivered    : 106
Distance Covered      : 350
Number of Stops in Trip: 2
---TRIP--
'Dublin'    -> 'Galway'    |        187 |      100 |      1.87 |      48
'Galway'    -> 'Dublin'    |        187 |      100 |      1.87 |       0
Quantity Delivered    : 48
Distance Covered      : 374
Number of Stops in Trip: 2
---TRIP--
'Dublin'    -> 'Waterford' |        133 |       60 |      2.22 |      54
'Waterford' -> 'Dublin'    |        133 |      100 |      1.33 |       0
Quantity Delivered    : 54
Distance Covered      : 266
Number of Stops in Trip: 2
```

Figure 4: Goods Delivery Optimal Cost : With Capacity Constraint and Time Constraint

Vehicle Routing - 20 Cities

With Capacity Constraint and No Time Constraint

```
Cost of Goods Delivery (All Trips) : 1324.8 Euros
 From(City) - To (City)     |Distance(KM)|Speed(KMH)|Time(Hours)|Quantity
--------------------------------------------------------------------------
'Dublin'    -> 'Naas'       |         31 |      100 |      0.31 |       21
'Naas'      -> 'Bray'       |         38 |      100 |      0.38 |       35
'Bray'      -> 'Swords'     |         27 |      100 |      0.27 |       15
'Swords'    -> 'Drogheda'   |         31 |      100 |      0.31 |       38
'Drogheda'  -> 'Dundalk'    |         33 |      100 |      0.33 |       31
'Dundalk'   -> 'Navan'      |         43 |      100 |      0.43 |       23
'Navan'     -> 'Athlone'    |         87 |      100 |      0.87 |       13
'Athlone'   -> 'Sligo'      |        101 |      100 |      1.01 |       18
'Sligo'     -> 'Galway'     |        117 |      100 |      1.17 |       96
'Galway'    -> 'Ennis'      |         46 |      100 |      0.46 |       28
'Ennis'     -> 'Limerick'   |         32 |      100 |      0.32 |       74
'Limerick'  -> 'Tralee'     |         85 |      100 |      0.85 |       18
'Tralee'    -> 'Cork'       |         95 |      100 |      0.95 |      252
'Cork'      -> 'Waterford'  |        100 |      100 |      1.00 |       38
'Waterford' -> 'Clonmel'    |         41 |      100 |      0.41 |       17
'Clonmel'   -> 'Kilkenny'   |         45 |      100 |      0.45 |       28
'Kilkenny'  -> 'Wexford'    |         63 |      100 |      0.63 |       21
'Wexford'   -> 'Carlow'     |         63 |      100 |      0.63 |       10
'Carlow'    -> 'Newbridge'  |         38 |      100 |      0.38 |       11
'Newbridge' -> 'Dublin'     |         40 |      100 |      0.40 |        0
Quantity Delivered    : 787
Distance Covered      : 1156
Number of Stops in Trip: 20
```

Figure 5: Goods Delivery Optimal Cost : With Capacity Constraint - Run1

```
Cost of Goods Delivery (All Trips) : 1286.13 Euros
 From(City) - To (City)     |Distance(KM)|Speed(KMH)|Time(Hours)|Quantity
-------------------------------------------------------------------------
'Dublin'    -> 'Swords'    |         13 |       60 |      0.22 |       12
'Swords'    -> 'Navan'     |         38 |      100 |      0.38 |       12
'Navan'     -> 'Drogheda'  |         22 |      100 |      0.22 |       42
'Drogheda'  -> 'Dundalk'   |         33 |      100 |      0.33 |       39
'Dundalk'   -> 'Sligo'     |        137 |      100 |      1.37 |       12
'Sligo'     -> 'Athlone'   |        101 |      100 |      1.01 |       12
'Athlone'   -> 'Galway'    |         75 |      100 |      0.75 |       76
'Galway'    -> 'Ennis'     |         46 |      100 |      0.46 |       15
'Ennis'     -> 'Tralee'    |         81 |      100 |      0.81 |       28
'Tralee'    -> 'Limerick'  |         85 |      100 |      0.85 |      119
'Limerick'  -> 'Cork'      |         86 |      100 |      0.86 |      244
'Cork'      -> 'Clonmel'   |         72 |      100 |      0.72 |       23
'Clonmel'   -> 'Waterford' |         41 |      100 |      0.41 |       35
'Waterford' -> 'Wexford'   |         45 |       60 |      0.75 |       11
'Wexford'   -> 'Kilkenny'  |         63 |      100 |      0.63 |       13
'Kilkenny'  -> 'Carlow'    |         30 |      100 |      0.30 |       20
'Carlow'    -> 'Newbridge' |         38 |      100 |      0.38 |       14
'Newbridge' -> 'Naas'      |          9 |      100 |      0.09 |       14
'Naas'      -> 'Bray'      |         38 |      100 |      0.38 |       35
'Bray'      -> 'Dublin'    |         16 |      100 |      0.16 |        0
Quantity Delivered    : 776
Distance Covered      : 1069
Number of Stops in Trip: 20
```

Figure 6: Goods Delivery Optimal Cost : With Capacity Constraint - Run2

```
Cost of Goods Delivery (All Trips) : 1228.8 Euros
 From(City) - To (City)    |Distance(KM)|Speed(KMH)|Time(Hours)|Quantity
------------------------------------------------------------------------
'Dublin'    -> 'Naas'      |        31 |       100 |      0.31 |       22
'Naas'      -> 'Newbridge' |         9 |       100 |      0.09 |       12
'Newbridge' -> 'Carlow'    |        38 |       100 |      0.38 |       25
'Carlow'    -> 'Kilkenny'  |        30 |       100 |      0.30 |       24
'Kilkenny'  -> 'Wexford'   |        63 |       100 |      0.63 |       25
'Wexford'   -> 'Waterford' |        45 |       100 |      0.45 |       56
'Waterford' -> 'Clonmel'   |        41 |       100 |      0.41 |        9
'Clonmel'   -> 'Cork'      |        72 |       100 |      0.72 |      208
'Cork'      -> 'Tralee'    |        95 |       100 |      0.95 |       25
'Tralee'    -> 'Limerick'  |        85 |       100 |      0.85 |      114
'Limerick'  -> 'Ennis'     |        32 |       100 |      0.32 |       29
'Ennis'     -> 'Galway'    |        46 |       100 |      0.46 |       67
'Galway'    -> 'Athlone'   |        75 |       100 |      0.75 |       18
'Athlone'   -> 'Sligo'     |       101 |       100 |      1.01 |       25
'Sligo'     -> 'Dundalk'   |       137 |       100 |      1.37 |       26
'Dundalk'   -> 'Drogheda'  |        33 |       100 |      0.33 |       40
'Drogheda'  -> 'Navan'     |        22 |       100 |      0.22 |       11
'Navan'     -> 'Swords'    |        38 |       100 |      0.38 |       30
'Swords'    -> 'Bray'      |        27 |       100 |      0.27 |       25
'Bray'      -> 'Dublin'    |        16 |       100 |      0.16 |        0
Quantity Delivered    : 791
Distance Covered      : 1036
Number of Stops in Trip: 20
   TRID
```

Figure 7: Goods Delivery Optimal Cost : With Capacity Constraint - Run3

With Capacity Constraint and Time Constraint

```
Cost of Goods Delivery (All Trips) : 4914.13 Euros
 From(City) - To (City)    |Distance(KM)|Speed(KMH)|Time(Hours)|Quantity
-------------------------------------------------------------------------
'Dublin'    -> 'Cork'      |      218 |      60 |    3.63 |     256
'Cork'      -> 'Dublin'    |      218 |     100 |    2.18 |       0
Quantity Delivered    : 256
Distance Covered      : 436
Number of Stops in Trip: 2
---TRIP--
'Dublin'    -> 'Limerick'  |      175 |      60 |    2.92 |      76
'Limerick'  -> 'Dublin'    |      175 |      60 |    2.92 |       0
Quantity Delivered    : 76
[Distance Covered      : 350
Number of Stops in Trip: 2
---TRIP--
'Dublin'    -> 'Galway'    |      187 |     100 |    1.87 |      52
'Galway'    -> 'Dublin'    |      187 |      60 |    3.12 |       0
Quantity Delivered    : 52
Distance Covered      : 374
Number of Stops in Trip: 2
---TRIP--
'Dublin'    -> 'Waterford' |      133 |     100 |    1.33 |      32
'Waterford' -> 'Dublin'    |      133 |     100 |    1.33 |       0
Quantity Delivered    : 32
Distance Covered      : 266
Number of Stops in Trip: 2
---TRIP--
'Dublin'    -> 'Dundalk'   |       77 |     100 |    0.77 |      51
'Dundalk'   -> 'Dublin'    |       77 |     100 |    0.77 |       0
Quantity Delivered    : 51
Distance Covered      : 154
Number of Stops in Trip: 2
---TRIP--
'Dublin'    -> 'Bray'      |       16 |     100 |    0.16 |      38
'Bray'      -> 'Dublin'    |       16 |      60 |    0.27 |       0
Quantity Delivered    : 38
[Distance Covered      : 32
Number of Stops in Trip: 2
---TRIP--
'Dublin'    -> 'Drogheda'  |       44 |     100 |    0.44 |      23
'Drogheda'  -> 'Dublin'    |       44 |     100 |    0.44 |       0
Quantity Delivered    : 23
Distance Covered      : 88
Number of Stops in Trip: 2
---TRIP--
'Dublin'    -> 'Swords'    |       13 |      60 |    0.22 |      17
'Swords'    -> 'Dublin'    |       13 |     100 |    0.13 |       0
Quantity Delivered    : 17
Distance Covered      : 26
Number of Stops in Trip: 2
---TRIP--
'Dublin'    -> 'Tralee'    |      261 |     100 |    2.61 |      13
'Tralee'    -> 'Dublin'    |      261 |     100 |    2.61 |       0
Quantity Delivered    : 13
Distance Covered      : 522
Number of Stops in Trip: 2
---TRIP--
'Dublin'    -> 'Kilkenny'  |      100 |      60 |    1.67 |      21
'Kilkenny'  -> 'Dublin'    |      100 |     100 |    1.00 |       0
[Quantity Delivered    : 21
Distance Covered      : 200
Number of Stops in Trip: 2
---TRIP--
'Dublin'    -> 'Ennis'     |      190 |      60 |    3.17 |      14
'Ennis'     -> 'Dublin'    |      190 |     100 |    1.90 |       0
Quantity Delivered    : 14
Distance Covered      : 380
Number of Stops in Trip: 2
---TRIP--
'Dublin'    -> 'Sligo'     |      180 |     100 |    1.80 |      22
'Sligo'     -> 'Dublin'    |      180 |     100 |    1.80 |       0
Quantity Delivered    : 22
Distance Covered      : 360
Number of Stops in Trip: 2
    ----
```

Figure 8: Goods Delivery Optimal Cost : With Capacity Constraint and Time Constraint

Vehicle Routing - 30 Cities

With Capacity Constraint and No Time Constraint

```
Cost of Goods Delivery (All Trips) : 1690.67 Euros
 From(City) - To (City)     |Distance(KM)|Speed(KMH)|Time(Hours)|Quantity
--------------------------------------------------------------------------
Dublin          -> Leixlip        |    16 |    100 |    0.16 |      13
Leixlip         -> Celbridge      |     5 |    100 |    0.05 |      13
Celbridge       -> Maynooth       |     6 |    100 |    0.06 |      10
Maynooth        -> Navan          |    31 |    100 |    0.31 |      23
Navan           -> Drogheda       |    22 |    100 |    0.22 |      17
Drogheda        -> Dundalk        |    33 |    100 |    0.33 |      46
Dundalk         -> Letterkenny    |   133 |    100 |    1.33 |       8
Letterkenny     -> Sligo          |    87 |    100 |    0.87 |      21
Sligo           -> Mullingar      |   112 |    100 |    1.12 |      14
Mullingar       -> Tullamore      |    29 |    100 |    0.29 |      13
Tullamore       -> Athlone        |    34 |    100 |    0.34 |      24
Athlone         -> Galway         |    75 |    100 |    0.75 |      71
Galway          -> Killarney      |    39 |    100 |    0.39 |      12
Killarney       -> Ennis          |    41 |    100 |    0.41 |      12
Ennis           -> Limerick       |    32 |     60 |    0.53 |     104
Limerick        -> Tralee         |    85 |    100 |    0.85 |      13
Tralee          -> Cork           |    95 |    100 |    0.95 |     235
Cork            -> Clonmel        |    72 |    100 |    0.72 |      18
Clonmel         -> Waterford      |    41 |    100 |    0.41 |      53
Waterford       -> Wexford        |    45 |    100 |    0.45 |      17
Wexford         -> Kilkenny       |    63 |    100 |    0.63 |      29
Kilkenny        -> Carlow         |    30 |    100 |    0.30 |      12
Carlow          -> Port laoise    |    33 |    100 |    0.33 |      15
Port laoise     -> Newbridge      |    36 |    100 |    0.36 |      10
Newbridge       -> Naas           |     9 |     60 |    0.15 |      15
Naas            -> Dublin         |    31 |    100 |    0.31 |       0
Quantity Delivered     : 818
Distance Covered       : 1235
Number of Stops in Trip: 26
---TRIP--
Dublin          -> Greystones     |    24 |    100 |    0.24 |       7
Greystones      -> Bray           |     8 |    100 |    0.08 |      35
Bray            -> Malahide       |    26 |    100 |    0.26 |      12
Malahide        -> Swords         |     3 |     60 |    0.05 |      33
Swords          -> Dublin         |    13 |    100 |    0.13 |       0
Quantity Delivered     : 87
Distance Covered       : 74
Number of Stops in Trip: 5
```

Figure 9: Goods Delivery Optimal Cost : With Capacity Constraint - Run1

```
Cost of Goods Delivery (All Trips) : 1672.8 Euros
 From(City) - To (City)     |Distance(KM)|Speed(KMH)|Time(Hours)|Quantity
-------------------------------------------------------------------------
Dublin          -> Malahide       |    14 |    100 |    0.14 |      8
Malahide        -> Swords         |     3 |    100 |    0.03 |     32
Swords          -> Navan          |    38 |    100 |    0.38 |     16
Navan           -> Drogheda       |    22 |    100 |    0.22 |     41
Drogheda        -> Dundalk        |    33 |    100 |    0.33 |     23
Dundalk         -> Letterkenny    |   133 |    100 |    1.33 |     18
Letterkenny     -> Sligo          |    87 |    100 |    0.87 |     25
Sligo           -> Mullingar      |   112 |    100 |    1.12 |     18
Mullingar       -> Tullamore      |    29 |    100 |    0.29 |     16
Tullamore       -> Athlone        |    34 |    100 |    0.34 |     15
Athlone         -> Galway         |    75 |    100 |    0.75 |     63
Galway          -> Killarney      |    39 |    100 |    0.39 |      9
Killarney       -> Ennis          |    41 |    100 |    0.41 |     23
Ennis           -> Tralee         |    81 |    100 |    0.81 |     23
Tralee          -> Limerick       |    85 |    100 |    0.85 |     76
Limerick        -> Cork           |    86 |    100 |    0.86 |    247
Cork            -> Clonmel        |    72 |    100 |    0.72 |     11
Clonmel         -> Waterford      |    41 |    100 |    0.41 |     43
Waterford       -> Wexford        |    45 |    100 |    0.45 |     16
Wexford         -> Kilkenny       |    63 |    100 |    0.63 |     17
Kilkenny        -> Carlow         |    30 |    100 |    0.30 |     10
Carlow          -> Port laoise    |    33 |    100 |    0.33 |      5
Port laoise     -> Newbridge      |    36 |    100 |    0.36 |     21
Newbridge       -> Naas           |     9 |    100 |    0.09 |     25
Naas            -> Celbridge      |    15 |     60 |    0.25 |     23
Celbridge       -> Maynooth       |     6 |    100 |    0.06 |     12
Maynooth        -> Leixlip        |     7 |    100 |    0.07 |     10
Leixlip         -> Bray           |    30 |    100 |    0.30 |     33
Bray            -> Greystones     |     8 |    100 |    0.08 |     11
Greystones      -> Dublin         |    24 |    100 |    0.24 |      0
Quantity Delivered      : 890
Distance Covered        : 1331
Number of Stops in Trip: 30
    TRIP
```

Figure 10: Goods Delivery Optimal Cost : With Capacity Constraint - Run2

```
Cost of Goods Delivery (All Trips) : 1668.27 Euros
 From(City) - To (City)    |Distance(KM)|Speed(KMH)|Time(Hours)|Quantity
-------------------------------------------------------------------------
Dublin          -> Swords       |        13 |      100 |     0.13 |      23
Swords          -> Malahide     |         3 |      100 |     0.03 |      13
Malahide        -> Greystones   |        35 |      100 |     0.35 |      10
Greystones      -> Bray         |         8 |      100 |     0.08 |      46
Bray            -> Dublin       |        16 |      100 |     0.16 |       0
Quantity Delivered    : 92
Distance Covered      : 75
Number of Stops in Trip: 5
---TRIP--
Dublin          -> Maynooth     |        23 |      100 |     0.23 |      13
Maynooth        -> Leixlip      |         7 |      100 |     0.07 |      12
Leixlip         -> Celbridge    |         5 |      100 |     0.05 |      15
Celbridge       -> Naas         |        15 |      100 |     0.15 |      11
Naas            -> Newbridge    |         9 |      100 |     0.09 |      17
Newbridge       -> Port laoise  |        36 |      100 |     0.36 |       8
Port laoise     -> Kilkenny     |        42 |      100 |     0.42 |      14
Kilkenny        -> Carlow       |        30 |      100 |     0.30 |      13
Carlow          -> Wexford      |        63 |      100 |     0.63 |      15
Wexford         -> Waterford    |        45 |      100 |     0.45 |      54
Waterford       -> Clonmel      |        41 |      100 |     0.41 |      23
Clonmel         -> Cork         |        72 |      100 |     0.72 |     164
Cork            -> Tralee       |        95 |      100 |     0.95 |      26
Tralee          -> Limerick     |        85 |      100 |     0.85 |      75
Limerick        -> Ennis        |        32 |      100 |     0.32 |      24
Ennis           -> Killarney    |        41 |       60 |     0.68 |      16
Killarney       -> Galway       |        39 |      100 |     0.39 |      44
Galway          -> Athlone      |        75 |      100 |     0.75 |      27
Athlone         -> Tullamore    |        34 |      100 |     0.34 |      16
Tullamore       -> Mullingar    |        29 |      100 |     0.29 |      18
Mullingar       -> Sligo        |       112 |      100 |     1.12 |      12
Sligo           -> Letterkenny  |        87 |      100 |     0.87 |      12
Letterkenny     -> Dundalk      |       133 |      100 |     1.33 |      50
Dundalk         -> Navan        |        43 |      100 |     0.43 |      22
Navan           -> Drogheda     |        22 |      100 |     0.22 |      36
Drogheda        -> Swords       |        31 |      100 |     0.31 |      23
Swords          -> Malahide     |         3 |      100 |     0.03 |      13
Malahide        -> Greystones   |        35 |      100 |     0.35 |      10
Greystones      -> Bray         |         8 |      100 |     0.08 |      46
Bray            -> Dublin       |        16 |      100 |     0.16 |       0
Quantity Delivered    : 829
Distance Covered      : 1308
Number of Stops in Trip: 30
```

Figure 11: Goods Delivery Optimal Cost : With Capacity Constraint - Run3

With Capacity Constraint and Time Constraint

```
Cost of Goods Delivery (All Trips) : 6270.93 Euros
 From(City) - To (City)    |Distance(KM)|Speed(KMH)|Time(Hours)|Quantity
---------------------------------------------------------------------
Dublin          -> Cork       |     218 |     100 |    2.18 |    104
Cork            -> Dublin     |     218 |     100 |    2.18 |      0
Quantity Delivered    : 104
Distance Covered      : 436
Number of Stops in Trip: 2
---TRIP--
Dublin          -> Limerick   |     175 |     100 |    1.75 |    113
Limerick        -> Dublin     |     175 |     100 |    1.75 |      0
Quantity Delivered    : 113
Distance Covered      : 350
Number of Stops in Trip: 2
---TRIP--
Dublin          -> Galway     |     187 |     100 |    1.87 |     59
Galway          -> Dublin     |     187 |     100 |    1.87 |      0
Quantity Delivered    : 59
Distance Covered      : 374
Number of Stops in Trip: 2
---TRIP--
Dublin          -> Waterford  |     133 |     100 |    1.33 |     30
Waterford       -> Dublin     |     133 |     100 |    1.33 |      0
Quantity Delivered    : 30
Distance Covered      : 266
Number of Stops in Trip: 2
---TRIP--
Dublin          -> Dundalk    |      77 |     100 |    0.77 |     30
Dundalk         -> Dublin     |      77 |     100 |    0.77 |      0
Quantity Delivered    : 30
Distance Covered      : 154
```

Figure 12: Goods Delivery Optimal Cost : With Capacity Constraint and Time Constraint